

SAN LUIS & DELTA MENDOTA WATER AUTHORITY
MINUTES - OPERATIONS & MAINTENANCE
TECHNICAL COMMITTEE
October 23, 2017

The meeting was called to order at 9:35 a.m. by Committee Chairman Chris White at the Authority's Board Room, 842 6th Street in Los Banos.

Committee Members Present

Exchange Contractors

Chris White, Central California Irrigation District

Friant Water Authority

Chris Hickernell, Friant Water Authority

Lower DMC Area

Jeff Bryant, Firebaugh Canal Water District

Mendota Pool Area

Danny Wade, Tranquility Irrigation District

San Felipe Area

Robert Haskins, San Felipe Area

San Luis Canal Area

Dan Pope, Westlands Water District

Bill Pierce, Westlands Water District, Alternate

SLDMWA

Bob Martin, Engineering & Planning Manager

Paul Stearns, Operations & Maintenance Manager, Alternate

Upper DMC

Bobby Pierce, West Stanislaus Irrigation District

Adam Scheuber, Del Puerto Water District

USBR

Allan Lindauer, Reclamation, SCCAO, Tracy Office

SLDMWA Staff Members Present

Jason Peltier, Executive Director

Frances Mizuno, Assistant Executive Director

Guy Wamocha, Supervisor of Accounting

Jim Lenhardt, Safety Engineer

Others Present

Ben Fenters, San Luis Water District

Juan Cardena, Panoche Water District

Corrections or Additions to the Agenda

None

Opportunity for Public Comment

None

Committee to Consider Approval of October 17, 2016 O & M Technical Committee Meeting Minutes

Bobby Pierce made a motion to approve the minutes as presented, and Dan Pope seconded the motion. The vote on the motion was follows:

AYE:	White, Hickernell, Bryant, Wade, Haskins, Pope, Martin, Lindauer, Bobby Pierce.
NOES:	None
ABSTENTIONS:	None

Committee to Consider Recommendation for Approval to the Finance and Administration Committee the Proposed O&M Budget including the Extra-Ordinary, CIP, and Routine O&M Budget for FY20 and Preliminary O&M Budget for FY21

Frances Mizuno began the budget discussion by stating that this is an ordinary budget without a whole lot of changes or additions. She stated that there is a quite a bit of catching up to do on the RO&M PM side and we have some significant EO&M Projects particularly the O'Neill P/G Plant refurbishment projects and the Jones PP Unit 6 rewind project. She reviewed the Proposed Budget Summary table on page 5 of 97 in the package. She pointed out there is only a 4.49% increase from FY2019. She also noted that the EO&M budget has a 16.1% decrease and a 1.78% decrease on the CIP projects. Frances also explained that Reclamation funded the JPP Unit 6 Rewind Project and this budget assumes they will fund the Rewind of Unit 2 as well. If not, this will drastically impact on next year's budget. Frances stated that the Total O&M Budget for FY20 is \$21,746,223 which is a 0.80% decrease from FY19. She stated that there are no requests for additional positions with this year's budget submittal. While on the staffing discussion, Jeff Bryant asked how many people are in the weed control program. Paul Stearns stated that we have two staff dedicated to the spray program. Jeff noted that water hyacinth is a serious problem on the lower end of the DMC. There was a brief discussion and the SLDMWA agreed that they will pursue obtaining a NPDES permit to spray the water hyacinth in the DMC.

Paul Stearns went over the details of the Routine Operation and Maintenance budget. He explained any items that had more than a 5% variance from the FY18 budget. Frances reviewed the Microwave Tower Special Project and Paul reviewed the justifications for the request box scraper and tilt trailer. Chris asked if there were any further questions on the routine budget as submitted. There were no questions or comments from the committee on the routine budget.

Bob Martin began the review of the FY20/21 EO&M budget by explaining and reviewing the FY20/21 EO&M Project Funding Summary and 10-Year Plan provided in the budget package. Frances noted that the projects on the 10-Year Plan that are grouped under the USBR RAX PROJECTS category shown on the page 24 of 97 are high cost projects associated with the Pumping Plant reliability and DMC subsidence mitigation. These projects have been submitted to Reclamation for funding support. She further explained that even though the projects are funded by Reclamation, the cost of these projects are still the responsibility of the water contractors and will need to be repaid via a negotiated repayment agreement with Reclamation.

Frances noted that as a result of amount of projects on the 10 Year Plan, the SLDMWA is in the process of performing a full evaluation of what resources are needed to be able to properly manage all the RO&M activities and EO&M projects. The evaluation will include determining the staffing required to perform all the work with in-house crafts or increase engineering staff to begin contracting out the upcoming large scale EO&M projects. The plan is to present the labor analysis findings to the Committee at next year's meeting.

Bob reviewed the project details and cost estimates for each of the FY20 EO&M projects. Jim Lenhardt reviewed the list of vehicles and equipment proposed to be replaced in this year's budget.

After completion of the FY20 EO&M budget review, Bob reviewed the general scope of the proposed projects planned for FY21.

After completion for the FY21 EO&M Project review, Dan Pope noted in consideration of the amount of Routine O&M work and the number of upcoming EO&M projects he stated that the SLDMWA will obviously need additional staff to complete the work. He asked if we had an idea of the number of additional staff necessary to perform the work. Frances noted that we hired Steve Larsen, retired SLDMWA manager, to perform a labor resource analysis and the preliminary results for the labor analysis being performed is for the RO&M side, we will need about 1 additional craft for each crew. That would be an additional 4 employees to the existing staff. Dan emphasized that typically RO&M work suffers when there is not enough staff.

Chris White called for any further questions on the entire budget as presented. Dan Pope motioned to recommend for approval of the budget, as presented, to the Finance and Administration Committee, Chris Hickernell seconded the motion.

AYE: White, Hickernell, Bryant, Wade, Haskins, Pope, Martin, Lindauer,
Bobby Pierce.
NOES: None
ABSTENTIONS: None

Review Status of JPP Unit 6 Rewind Project

Frances stated that Reclamation agreed to fund the JPP Unit 6 Rewind Project. One condition of the funding/repayment agreement, the SLDMWA is required to use 75% of its emergency reserves to support the project. As a result, the SLDMWA needs to fund \$1.2M towards the project. She did state that Reclamation is allowing us to credit in-kind work towards the \$1.2M. Approximately \$400K of completed/planned in-kind work was approved by Reclamation. She also noted, the Finance and Administration Committee approved using the emergency reserve funds to cover the remaining \$800K.

Bob informed the Committee that the preparation of the JPP Unit 6 Rewind project plans and technical specification has been completed and the “boiler plate” will be completed and submitted to Reclamation for a final review at the end of the week. Bob noted that the current schedule has the project being advertised the during the first in December, the contractor will have 45 days to prepare their proposals, after bids are received a review team of Reclamation and SLMDWA staff will review the proposals during the last week in January, and the anticipated award date for the contract is planned for the first week in February. The contractor will have 3 months to prepare the submittals, approximately 3 months will be needed on-site to perform the rewind and the anticipated completion date is in mid-November. Chris noted that during the future designs of the units should consider soft starts and/or variable frequency drives. Bob concurred.

Review Actions Items from Meeting

There were no action items from the meeting

Confirm Date, Time, and Location for Next Meeting

The date and location was not determined at the meeting

Reports Pursuant to Government Code Sec 54954.2

No Reports Given

Adjournment

The meeting was adjourned at 11:30 am.



MEMORANDUM

TO: SLDMWA O&M Technical Committee

FROM: Paul Stearns, O&M Manager, SLDMWA

DATE: October 11, 2018

RE: O&M Cost and Budgeting Consideration for the Delta-Mendota Canal (DMC)
Tile Drain Sumps and Drainage Management

BACKGROUND

In 1953, in the effort to mitigate for drainage issues along the western side of the Lower DMC, a tile drain system was installed by Reclamation along an 11.5-mile stretch from the end of the lined section of the DMC (milepost 98.64) to Washoe Avenue (milepost 110.12). This tile drain system collects the subsurface drainage and carries it to a lateral tile drain system that parallels the DMC. The water was pumped from six collection sumps (A-B, C, D-E, F-G, H-J, K) into the DMC. These sumps were installed under a long-term commitment by Reclamation to mitigate for drainage impacts in the unlined portion of the Delta-Mendota Canal resulting from its construction and operation.

In 1988, the California Regional Water Quality Control Board imposed monitoring requirements on Reclamation's sumps. Since, concerns by U.S Fish & Wildlife Service (USF&WS) over the poor water quality entering the DMC from these tile drains were raised over the years. In 2009, it was the desire of Reclamation and the USF&WS to incorporate these sumps into the Grassland Bypass Project's San Joaquin River Improvement Project to eliminate the discharge from the freshwater deliveries to the managed wetland areas. This desire was incorporated into the 2010-2019 Grassland Bypass Project's San Luis Drain Use Agreement and Biological Opinion. In 2014, Reclamation entered into a license agreement with Panoche Drainage District to install new facilities to redirect the discharge from the six tile drain pumps to SJRIP and to O&M the new facilities, the DMC Sumps, and associated pumps on Reclamation's right-of-way. Reclamation also provided approximately \$500k of funding for the design and construction of the new facilities.

Prior to PDD assuming the responsibility for O&M, the Water Authority performed the work as part of the overall DMC O&M. The license contemplated the Authority, and Panoche entering into a separate agreement(s) for O&M of the facility. Unfortunately, that agreement was not completed. The license provided that PDD assume the O&M responsibility but was silent on who

was responsible for the cost related to the O&M work. However, since 2014 PDD assumed all the cost associated with the O&M of the pumps and motors including the cost to power the pumps and management of the redirected flow. In 2017, PDD informed Reclamation and the Authority that the O&M costs of the tile drain pumps as well as the cost of the drainage management should be more appropriately borne by Reclamation/SLDMWA under the Transfer Agreement. After several meetings with Reclamation, Reclamation informed the Authority in early October that they agree that the O&M costs at issue should now be part of the overall Delta-Mendota Canal O&M costs and should be included as part of the Authority's O&M rates. The Water Authority is awaiting a formal written notification from Reclamation on this requirement.

O&M COST

Prior to 2014, the Water Authority's average costs per year to O&M the tile drain pumps were \$22,000.00.

PDD has provided the Authority the estimated FY19 O&M costs associated with the sump pump and drainage management (see attached). The cost includes the direct costs associated with O&M of the sump pumps/motors and 12% of the costs related to the O&M of the SJRIP. The twelve percent is based on the DMC flows constitutes 12% of the total SJRIP flows.

ISSUE FOR DECISION

Whether to amend the FY19 and include in the FY20 O&M budget to accommodate these unanticipated costs associated for the O&M of the tile drain pumps and drainage management by PDD.

RECOMMENDATION

We recommend following Reclamations decision and include the appropriate related O&M costs and in addition, enter into an agreement with PDD for the O&M for the DMC sump pumps and drainage management of the DMC subsurface drainage flows.



PANOCHÉ DRAINAGE DISTRICT

52027 WEST ALTHEA AVE, FIREBAUGH, CA 93622 • TELEPHONE (209) 364-6136 • FAX (209) 364-6122

January 3, 2018

Ms. Tona Mederios
Director of Finance
San Luis & Delta-Mendota Water Authority
PO Box 2157
Los Banos, CA 93635

Dear Tona,

Thank you for the opportunity to comment on the Authority's Proposed 2019 fiscal-year Operations & Maintenance budget. I am writing on behalf of Panoche Drainage District, Firebaugh Canal Water District, Camp 13 Drainage District, Pacheco Water District, and Charleston Drainage District. Together, these entities compose the majority of participants in the San Joaquin River Improvement Project (SJRIIP) and the Grassland Basin Drainage Steering Committee (GBD). While we appreciate the effort that has gone into development of the Authority's draft FY 2019 Operations & Maintenance budget, I write to inform you of the need to revise the draft budget so as to recover, as the Authority has done historically, and reimburse costs related to the operation, maintenance, and management of water discharged from Reclamation's Delta-Mendota Canal Sumps into the SJRIIP.

In late 1950, landowners in the Firebaugh area expressed concern about the construction of the lower DMC and the potential adverse impact of resultant seepage on their lands. In response, Reclamation agreed to install drainage facilities concurrent with DMC construction and operated and maintained these Sumps until 1992, when the Authority took over O&M of the DMC and other federally owned appurtenances, including the Sumps. The Sumps provide a benefit to Central Valley Project operations generally and are separate from the Grassland Bypass Project and SJRIIP. Water discharged from the Sumps, which contains selenium, salt, boron, and other constituents, historically was returned to the DMC for delivery downstream, including to the Grassland wetland complex, until late 2014 when the discharge plumbing was modified to reroute Reclamation's Sump water to the SJRIIP for active management to assuage the perennial concerns of the U.S. Fish & Wildlife Service.

Prior to the modification, the Authority operated and maintained Reclamation's DMC Sumps and recovered the costs through its water rates. Planning to cease the discharge of the Sump water into the DMC began around 2009, with the modification work, funded by Reclamation and performed by Panoche, completed in late 2014. From this period, several documents describe the planned modification and intent to negotiate agreements necessary to actively manage Reclamation's Sump water at the SJRIIP. Unfortunately, no such agreement(s) appears to have been executed. As a result, participants in the SJRIIP have since unduly borne the cost for managing Reclamation's Sump water. Now, before the Authority establishes an O&M budget for the forthcoming fiscal-year, is the appropriate time to remedy this inequity.

The costs currently associated with Reclamation's DMC Sumps generally include three components: 1) direct operation & maintenance of the Sumps, 2) management of the Sump discharge, and 3) regulatory compliance. The Sump O&M and discharge management costs are part of the SJRIP expenses, while the regulatory compliance costs are that of the Grassland Basin Drainage activity (Fund 22). The O&M cost component is historical while the management and regulatory costs are new, stemming from the modification to actively manage the Sump discharge. After calculating the volume of water the Sumps contribute to the SJRIP and analyzing our budgeted activities for relevance to active management of the discharge, we have concluded the appropriate cost for the Authority to recover through the FY 2019 O&M budget for reimbursement to Panoche Drainage District for the SJRIP and GBD expenses is \$407,700.

I understand that the Authority is aiming to approve its FY 2019 O&M budget on February 8, 2018, and anticipate there will be questions relating to the amount that the Authority should recover and reimburse to continue active management of Reclamation's Sump water discharge. Further, there is need to develop and execute an agreement(s) to memorialize a long-term understanding regarding the future use and recovery of costs associated with the SJRIP and GBD. We stand ready to meet with you and any others, as appropriate, to review the FY 2019 budget and establish a process through which to resolve the outstanding issues. Thank you for your consistently excellent work and dedication; I look forward to seeing you again soon.

Respectfully,



Ara Azhderian
General Manager

CC:

John Bennett, President, Panoche Drainage District
Jeff Bryant, General Manager, Firebaugh Canal Water District
David Cory, Camp 13
Aaron Barcellos, President, Pacheco Water District
Tom Teixeira, Director, Charleston Drainage District
Joe McGahan, Regional Drainage Coordinator, GBD Steering Committee
Chris White, Chair, SLDMWA Operations & Maintenance Technical Committee
Frances Mizuno, Assistant Executive Director, SLDMWA
Michael Jackson, Area Manager, Reclamation



PANOCHÉ DRAINAGE DISTRICT

52027 WEST ALTHEA AVE, FIREBAUGH, CA 93622 • TELEPHONE (209) 364-6136 • FAX (209) 364-6122

August 20, 2018

Mr. Michael Jackson, Area Manager
South-Central California Area Office
Bureau of Reclamation
1243 N Street
Fresno, CA 93721

RE: Management of Reclamation's DMC Sump Water

Dear Michael,

Thank you for meeting with Jeff Bryant and me on July 3rd to further discuss the allocation and recovery of costs associated with Panoche Drainage District's management of water discharged from Reclamation's Delta-Mendota Canal interceptor sumps. As we have discussed, for some years now, Panoche Drainage District has been incurring costs to manage Reclamation's DMC Sump water without any formal agreement or remuneration. We initially discussed the need to resolve this situation early this year but efforts were temporarily paused at the request of the San Luis & Delta-Mendota Water Authority. We now wish to bring this matter to closure.

Panoche Drainage District and its partners, Firebaugh Canal Water District, Pacheco Water District, Charleston Drainage District, and Camp 13 Drainage District, have worked to finalize and approve a budget for the 2018-19 fiscal-year (March 1 – February 28) to fund operations and maintenance at the San Joaquin River Improvement Project, which is the primary activity to manage Reclamation's DMC Sump water. The other management activities include the direct operation and maintenance of Reclamation's sumps and the monitoring and mitigation activities under the Use Agreement and Biological Opinion for the Grassland Bypass Project. The SJRIP stakeholders have agreed to hold budgeted costs essentially flat from last year, which translates into an annualized budget of approximately \$2.67 million. Reclamation's DMC Sumps contribute about 12% of the total volume of water managed on the SJRIP, thus, we again request that Reclamation pay 12% of such costs as well as the direct O&M costs and a select a portion of the SJRIP monitoring and mitigation costs funded through the Grassland Bypass Project Steering Committee Activity Agreement. These budgeted costs are essentially the same as those presented to you earlier this year. A summary table of the costs budgeted for managing Reclamation's DMC Sump discharge is attached.

Regarding the method for cost allocation and recovery, we recommend that Reclamation's historic approach remain unchanged. Reclamation considers the DMC Sumps an appurtenance to the DMC, like a bridge or turnout, and has thus always allocated and recovered its costs from DMC water users. This cost allocation and recovery method was carried over in 1992, when DMC operations and maintenance responsibilities shifted from Reclamation to the San Luis & Delta-Mendota Water Authority. For the current fiscal-year, we propose the Authority revise its 2018-19 water rates to allocate and recover the DMC Sump water management costs according to its established methods to reimburse the Grassland Bypass Project and Panoche Drainage District for the costs we have incurred to manage Reclamation's water.

Lastly, it is important for us to establish a process and schedule to develop the agreement(s) necessary to capture and memorialize the terms and conditions under with Panoche Drainage District and its partners will continue to manage Reclamation's DMC Sump water. We stand ready to meet with you and any others, as appropriate, to review the FY 2018-19 budget in detail and develop the necessary agreement(s). Thank you for your good work and dedication; I look forward to seeing you again soon.

Respectfully,



Ara Azhderian
General Manager

CC:

John Bennett, President, Panoche Drainage District

Jeff Bryant, General Manager, Firebaugh Canal Water District

David Cory, Camp 13

Aaron Barcellos, President, Pacheco Water District

Tom Teixeira, President, Charleston Drainage District

Joe McGahan, Regional Drainage Coordinator, GBD Steering Committee

Chris White, Chair, SLDMWA Operations & Maintenance Technical Committee

Frances Mizuno, Interim Executive Director, SLDMWA

**Reclamation's DMC Sump Water Management
SLDMWA Fiscal-Year Mar 2018 - Feb 2019**

Premise		
	1,300	Avg. Metered Sump Discharge (af/yr)
	12%	of SJRIP annual inflow
	\$2,670,825	2018-19 SJRIP Annualized O&M Budget
DMC Sump Operation	Budget	Forum
100% Share Operation	\$16,000	PDD
100% Share Maintenance	\$6,500	PDD
Sub-Total:	\$22,500	
SJRIP Discharge Management		
12% Share of 2018-19 SJRIP Cost	\$320,499	SJRIP
Sub-Total:	\$320,499	
Discharge Management Monitoring and Mitigation		
6% Share of Water Quality Monitoring	\$12,300	GBD
12% Share of Biological Monitoring and Habitat Mitigation	\$1,200	GBD
12% Share of Egg Monitoring	\$13,200	GBD
Sub-Total:	\$26,700	
TOTAL:	\$369,699	2018-19 Fiscal-Year

Panoche Drainage District

Delta Mendota Tile Sumps (PG&E Cost)		Meter Number	Description	Oct.2014 - Mar.2017	Apr. 2017 - Dec. 2017	Jan.2018 - Aug.2018
Service ID						
5124714489		1007281450	DMC TILE SUMP A/B		\$2,726	\$2,063
7262165045/5124714619		1007281383/1 010192977	DMC TILE SUMP C	\$1,288	\$315	\$675
7262165050/5124714504		1009781601	DMC TILE SUMP D/E	\$4,826	\$1,919	\$1,497
7262165060/5124714886		1007281384	DMC TILE SUMP F/G	\$9,446	\$1,410	\$1,549
7262165065/5124714605		1007281316	DMC TILE SUMP H/J	\$3,830	\$910	\$2,251
7262165035/5124714420		1006481012	CNT 194R 363 DRAIN PM/ SW 5-13-14 DMC TILE SUMP K	\$1,666	\$685	\$429
7262165040/5124714609		1007281507	DMC TILE SUMP K	\$1,475	\$520	\$472
			TOTALS	\$22,531	\$7,281	\$8,036

Delta Mendota Tile Sumps (Repair Cost)		2016	2017	2018
Motor/Pump - Repairs		\$7,661	\$2,811	\$6,107

PANOCHÉ DRAINAGE DISTRICT - SJRIP
2017/18/19 actual vs budget
(Fiscal July 1 - June 30) / (Water Year July 1 - Feb 28 in 2018.19)

* 2018-2019 Budget based on 8 months July 1 2018 - February 28, 2019	2017-2018 Budget	2018-2019 Budget APPROVED \$19.33 Fee & Reserve	2018-2019 Budget Scenario 2 \$13.59 Fee No Reserve	2017-2018 Actual June 30	2016-2017 Actual June 30	2015-2016 Actual June 30
REVENUE						
REVENUE - SJRIP MM INTEREST	\$0	\$1,088	\$1,088	\$2	\$41	\$212
REVENUE-SJRIIP PRJ-CROPS & RENT	\$750,000	\$787,613	\$787,613	\$1,082,968	\$744,128	\$1,330,084
REVENUE-OT SJRIIP EQUIP RENTAL	\$75,000	\$0	\$0	\$0	\$0	\$0
REVENUE-OT SJRIIP WATER	\$100,000	\$0	\$0	\$161,210	\$988,000	\$4,127,870
REVENUE-SJRIIP PRJ-PARTICIPANTS DUES	\$1,549,018	\$1,549,319	\$1,088,955	\$1,549,319	\$346,870	\$177,870
REVENUE-SJRIIP MISC.	\$40,000	\$0	\$0	\$0	\$41,243	\$41,912
REVENUE - SJRIIP-GRASSLAND BASIN DRAINERS	\$95,000	\$0	\$0	\$0	\$93,220	\$99,106
REVENUE-SJRIIP DRAINAGE SERVICE FEE	\$40,000	\$0	\$0	\$0	\$39,675	\$43,500
TOTAL REVENUE	\$2,649,018	\$2,338,020	\$1,877,656	\$2,793,499	\$2,253,177	\$5,820,554
OPERATION & MAINTENANCE						
SJRIIP-LEGAL EXPENSE PRA	\$0	\$0	\$0	\$216	\$1,850	\$1,600
PDD-SJRIIP-BUTANE OXY-ACCETL PROPANE	\$5,000	\$2,534	\$2,534	\$3,788	\$3,476	\$13,158
PDD-SJRIIP-CEMENT/ROCK EXP	\$0	\$0	\$0	\$0	\$2,901	\$4,954
PDD-SJRIIP-CHEMICAL EXP	\$90,000	\$29,047	\$29,047	\$43,570	\$377,526	\$271,573
PDD-SJRIIP-CUSTOM FARMING	\$650,000	\$343,063	\$343,063	\$514,595	\$857,305	\$862,713
PDD-SJRIIP-PISTACHIO CROP PROCESSING	\$10,000	\$23,078	\$23,078	\$27,695	\$108,894	\$33,601
PDD-SJRIIP-CUSTOM SPRAYING	\$15,000	\$5,973	\$5,973	\$8,960	\$44,329	\$34,314
PDD-SJRIIP-MSWD O&M CHARGES	\$0	\$55,096	\$55,096	\$82,644	\$0	\$0
PDD-SJRIIP-DUES-SLDMWA GBD 3A-GWDR	\$21,787	\$15,398	\$15,398	\$23,097	\$20,785	\$7,034
PDD-SJRIIP-S.GROUNDWATER MGMT	\$0	\$0	\$0	\$0	\$1,013	\$1,013
PDD-SJRIIP-ELECTRICITY EXP	\$450,000	\$501,169	\$501,169	\$751,753	\$681,238	\$839,674
PDD-SJRIIP-EQUIP RENTAL(OUTSIDE	\$0	\$1,243	\$1,243	\$1,865	\$4,300	\$65
PDD-SJRIIP-FEES/PERMITS EXP	\$2,000	\$423	\$423	\$634	\$527	\$2,535
PDD-SJRIIP-GAS & DIESEL EXP-MISC	\$10,000	\$247	\$247	\$371	\$2,071	\$275
PDD-SJRIIP-OIL EXP	\$5,000	\$498	\$498	\$747	\$230	\$195
PDD-SJRIIP-GAS&DIESEL EXP	\$130,000	\$180,363	\$180,363	\$270,544	\$329,330	\$305,541
PDD-SJRIIP-INSURANCE-PROPERTY	\$0	\$13,000	\$13,000	\$12,903	\$11,803	\$13,896
PDD-SJRIIP-INSURANCE-HEALTH	\$273,621	\$127,177	\$127,177	-\$33,028	\$524,756	\$367,504
PDD-SJRIIP-INSURANCE-DELTA	\$15,000	\$2,817	\$2,817	-\$3,873	\$36,894	\$0
PDD-SJRIIP-INSURANCE-VISION	\$3,000	\$513	\$513	-\$705	\$5,531	\$0
PDD-SJRIIP-INSURANCE-LIFE	\$500	\$230	\$230	-\$31	\$1,067	\$0
PDD-SJRIIP-INVENTORY EXP	\$0	\$5,000	\$5,000	\$700	\$10,818	\$14,455
PDD-SJRIIP-LABORATORY	\$0	\$5,774	\$5,774	\$7,939	\$6,945	\$10,232
PDD-SJRIIP-LABOR(PWD)	\$762,316	\$260,717	\$260,717	\$874,427	\$1,246,246	\$928,257

PANOCHE DRAINAGE DISTRICT - SJRIP
2017/18/19 actual vs budget
(Fiscal July 1 - June 30) / (Water Year July 1 - Feb 28 in 2018.19)

* 2018-2019 Budget based on 8 months July 1 2018 - February 28, 2019	2017-2018 Budget	2018-2019 Budget APPROVED \$19.33 Fee & Reserve	2018-2019 Budget Scenario 2 \$13.59 Fee No Reserve	2017-2018 Actual June 30	2016-2017 Actual June 30	2015-2016 Actual June 30
PDD-SJRIIP-LAND MAINT.EXP	\$15,000	\$1,309	\$1,309	\$1,800	\$15,631	\$63,327
PDD-SJRIIP-LEGAL EXP	\$0	\$0	\$0	\$0	\$124	\$2,819
PDD-SJRIIP-METER EXP	\$0	\$0	\$0	\$0	\$8,186	\$3,033
PDD-SJRIIP-MEETINGS & TRAVEL	\$0	\$1,000	\$1,000	\$0	\$2,295	\$5,722
PDD-SJRIIP-MISC.EXP	\$3,000	\$1,765	\$1,765	\$2,647	\$10,892	\$12,155
PDD-SJRIIP-MISC. TOOLS & EQUIPMENT	\$20,000	\$178	\$178	\$267	\$424	\$875
PDD-SJRIIP-OFFICE EXP	\$5,000	\$5,238	\$5,238	\$7,857	\$17,415	\$35,843
PDD-SJRIIP-O/S ELECTRICAL CONTRACTOR	\$0	\$2,924	\$2,924	\$4,386	\$12,829	\$2,843
PDD-SJRIIP-MISC. O/S SERVICE	\$20,000	\$13,158	\$13,158	\$19,737	\$69,366	\$59,989
PDD-SJRIIP-PAYROLL TAXES	\$0	\$34,284	\$34,284	\$105,438	\$291,744	\$240,785
PDD-SJRIIP-Workmans Compensation	\$0	\$30,075	\$30,075	\$41,225	\$93,120	\$71,961
PDD-SJRIIP PROFESSIONAL SERVICES	\$1,000	\$1,000	\$1,000	\$2,267	\$11,100	\$3,754
PDD-SJRIIP-PROPERTY TAXES	\$0	\$14,878	\$14,878	\$14,878	\$14,276	\$12,380
PDD-SJRIIP-PUMP EXP	\$37,500	\$9,823	\$9,823	\$14,735	\$21,685	\$25,163
PDD-SJRIIP SHOP REPAIRS & MAINTENANCE	\$2,000	\$1,048	\$1,048	\$1,572	\$3,177	\$18,708
PDD-SJRIIP-SUPPLIES(MISC)EXP	\$5,000	\$6,318	\$6,318	\$9,477	\$44,886	\$45,328
PDD-SJRIIP-TAXES-SALES	\$0	\$1,806	\$1,806	\$2,708	\$2,152	\$38,091
PDD-SJRIIP-TILE SUMPS	\$0	\$1,237	\$1,237	\$1,856	\$7,670	\$4,926
PDD-SJRIIP-UTILITIES-MISC.	\$0	\$0	\$0	\$0	\$510	\$3,056
PDD-SJRIIP-TELEPHONE EXPENSE	\$5,000	\$8,773	\$8,773	\$13,159	\$19,017	\$18,165
PDD-SJRIIP-VEHICLE EXP	\$5,000	\$4,735	\$4,735	\$7,103	\$73,168	\$25,265
PDD-SJRIIP-HEAVY DUTY VEHICLE EXP	\$50,000	\$22,972	\$22,972	\$34,458	\$94,357	\$52,186
PDD-SJRIIP-WATER PURCH EXP	\$0	\$43,200	\$43,200	\$64,800	\$0	\$0
PDD-SJRIIP WEIRS & STRUCTURES	\$37,000	\$999	\$999	\$1,499	\$16,868	\$17,276
PDD-SJRIIP-WELL EXPENSE	\$0	\$471	\$471	\$706	\$14,739	\$16,758
TOTAL OPERATION & MAINTENANCE	\$2,648,724	\$1,780,550	\$1,780,550	\$2,941,385	\$5,125,465	\$4,492,996
Net income (Loss) (Reserve)	<u>\$294</u>	<u>\$557,470</u>	<u>\$97,106</u>	<u>-\$147,887</u>	<u>-\$2,872,288</u>	<u>\$1,327,558</u>
SJRIIP Participation Fee	<u>\$19.33</u>	<u>\$19.33</u>	<u>\$13.59</u>	<u>\$19.33</u>	<u>\$4.33</u>	<u>\$4.33</u>
Cash Deficiency (as of July 9, 2018)		\$ (359,144)	\$ (359,144)			
Cash Reserve Projection (Feb 28, 2019)		\$ 198,326	\$ (262,038)			

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY

MARCH 1, 2018 - FEBRUARY 28, 2019

GRASSLAND BASIN DRAINAGE #3A (FUND 22)

General Participation

EXPENDITURES

Direct Expenditures:

Legal:

Linneman et al \$ 35,000 1

Legislative Advocacy/Public Info Representation:

Federal Representation \$ 6,125 1

State Representation \$ 613 1

CA Farm Wtr Coalition Information/Outreach \$ 3,000 1

GBD Specific:

Joe Cotchett (legal) \$ 25,000 1

Drainage Coordinator (Summers) \$ 190,000 1

Quality Data Processing/Load Calc (Summers) \$ 55,000 1

Flow Calculation/Station Maint. (Summers) \$ 48,000 1

Field Coordinator (PDD) \$ 30,000 1

Real Time Monitoring Equip (PDD) \$ 2,200 1

Panoche Creek Gauging Station \$ 7,350 1

→ Water Quality Monitoring (Reg. Sites) \$ 205,000 1

Newman Water Costs \$ 127,177 1

Restoration of Mud Slough Channel \$ 50,000 1

Waste Discharge Permit Fees \$ 38,000 1

CEQA Support Susan Hootkins \$ 25,000 1

Preparation of CEQA Document \$ 275,000 1

CEQA Legal Consultant \$ 20,000 1

SJRIP Monitor Wells \$ 57,000 1

New UA Mud Slough Mitigation:

Mitigation Water \$ 135,000 1

Remove Sediment in SLD \$ 700,000 1

Use of Drain:

Operation & Maintenance (PDD) \$ 240,000 1

O&M (Above Water Line) New (PDD) \$ 64,000 1

Biological Monitoring:

→ Biological Monitoring/Mitig Habitat \$ 10,000 1

Pacific Eco Risk \$ 70,000 1

→ HT Harvey-SJRIP Egg Monitoring \$ 110,000 1

Groundwater WDR Specific:

Membership Enrollment/List (Summers) \$ 40,000 2

Groundwater Assessment Report \$ 21,000 2

Farm Evaluation Plan (Summers) \$ 50,000 2

NMP Summary Report \$ 20,000 2

MPEP Group Workplan \$ 9,288 2

Trend Monit Prgm \$ 25,000 2

Develop Web Portal \$ 11,373 2

Collect State Board Fee \$ 76,360 2

Annual Monitoring Report (Summers) \$ 34,500 2

Linneman et al \$ 5,000 2

Other:

General Counsel \$ 1,929 1

Deputy General Counsel \$ 1,515 1

Sacramento Administrative Office (SAO) \$ 143 1

Other Services & Expenses \$ 800 1

License & Continuing Education \$ 20 1

Conferences & Training \$ 25 1

Travel/Mileage \$ 120 1

Group Meetings \$ 25 1

Telephone \$ 200 1

Total Direct Expenditures \$ 2,825,763

Administrative Expenditures \$ 4,200 1

Total Expenditures **\$ 2,829,963**

REVENUES

Fund Balance \$ 455,524

Membership Dues \$ 2,374,439

Total Revenues **\$ 2,829,963**

1 = All Participants 2 = Groundwater WDR Specific

FUND BALANCE:

Restricted \$301,824

End of FY 18 (Estimated) \$ 857,348

Restricted for Incentive Fees \$ 301,824

End of FY 19 (Estimated) \$ 100,000

PRIOR YEAR:	FY16	FY17	FY18	FY19
BUDGET	\$ 1,770,389	\$ 2,347,806	\$ 2,755,132	\$ 2,829,963
MEMBERSHIP DUES	\$ 1,397,895	\$ 2,362,325	\$ 2,633,116	\$ 2,374,439

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
MARCH 1, 2018 - FEBRUARY 28, 2019**

GRASSLAND BASIN DRAINAGE #3A COST ALLOCATION

	Total	%	GBD #3A #1	Based on Acres	%	Groundwater WDR Specific #2
	\$ 2,374,439		\$ 2,081,918			\$ 292,521
DIVISION 1						
1. Banta-Carbona Irrigation District						
2. City of Tracy						
3. Del Puerto Water District						
4. Patterson Irrigation District						
5. Byron Bethany Irrigation District						
6. West Side Irrigation District						
7. West Stanislaus Irrigation District						
Total Division 1						
DIVISION 2						
1. Panoche Water District						
2. San Luis Water District						
3. Westlands Water District						
4. Charleston Drainage District		3.57%	\$ 74,324			\$ -
5. Panoche Drainage District		64.93%	\$ 1,351,790			\$ -
6. Pleasant Valley						
Total Division 2			\$ 1,426,114			\$ -
DIVISION 3						
1. Central California Irrigation District						
2. Firebaugh Canal Water District		19.48%	\$ 405,558			\$ -
3. Grassland Water District						
4. HMRD #2131						
5. Columbia Canal Company (Friend Member)						
6. Camp 13 Drainers		2.61%	\$ 54,338			\$ -
Total Division 3			\$ 459,896			\$ -
DIVISION 4						
1. San Benito County Water District						
2. Santa Clara Valley Water District						
Total Division 4						
DIVISION 5						
1. Broadview Water District						
2. Eagle Field Water District						
3. Fresno Slough Water District						
4. James Irrigation District						
5. Laguna Water District						
6. Mercy Springs Water District						
7. Oro Loma Water District						
8. Pacheco Water District		9.41%	\$ 195,908			\$ -
9. Reclamation District 1606						
10. Tranquillity Irrigation District						
11. Turner Island Water District						
Total Division 5			\$ 195,908			\$ -
Groundwater WDR Specific						
1. Camp 13 Drainage District					5.82%	\$ 17,025
2. Charleston Drainage District					4.58%	\$ 13,397
3. Firebaugh Canal Water District					26.73%	\$ 78,191
4. Pacheco Water District					5.73%	\$ 16,761
5. Panoche Drainage District					46.95%	\$ 137,339
6. SJRIP					6.49%	\$ 18,985
7. Private Lands not in a district					3.70%	\$ 10,823
Total Groundwater WDR Specific						\$ 292,521
	\$ 2,374,439	100%	\$ 2,081,918	0.00	100%	\$ 292,521

San Luis & Delta Mendota
Water Authority

Operations and Maintenance Budget
FY20



TO: OPERATIONS & MAINTENANCE TECHNICAL COMMITTEE

Chris White, Chairman	Gary Nagaoka
Bobby Pierce	Dan Pope
Jeff Bryant	Chris Hickernell
Allen Lindauer	Danny Wade
& Designated alternates	

FROM: Paul Stearns, Operations & Maintenance Manager

DATE: October 22, 2018

**SUBJECT: Approval of Proposed Fiscal Year 2020 and Preliminary Fiscal Year
2021 Operations & Maintenance Budget**

The attached budget packet details the proposed FY20 and preliminary FY21 O&M Budgets. This memo also provides a summary of the major changes between the proposed FY20 and the FY19 Total O&M Budgets.

The proposed FY20 Total O&M Budget is \$21,449,650 compared to the FY19 budget of \$21,863,284 for an overall decrease of -1.89%. The total proposed self-funded portion paid by the water users is \$20,868,873 which is a decrease of -2.21% from the FY19 budget. The RO&M portion of the budget increased by 4.69%. The EO&M portion of the budget decreased by -18.04% and the Capital Improvement Projects (CIP-USBR Funded) decreased by -7.63%.

Proposed new positions for the FY20 budget are as follows (Position justifications are attached):

- IT Technician, Tracy Field Office
- Custodian, Los Banos (Los Banos Administration Office, Los Banos Field Office, and O'Neill Plant)
- Apprentice Control Operator, Tracy Field Office

Adjusted Routine O&M (RO&M) Budget increase of 4.69% or \$607.7K

Parts, Materials and Services (\$241.6K increase)

- Small Tools decreased \$2.5K.
 - Budget was increased for FY19 for the purchase of tools for the DCI Plant. FY 20 budget is only for routine small tool replacements.
- Engineering Consultant increased \$64K.
 - \$40K each for the Jones Pumping Plant and O'Neill Plant for Electrical and Mechanical Engineering Consulting Services (\$80K total) to supplement in-house staff to accommodate for anticipated increase in electrical and mechanical engineering requirements for R, O&M and E, O&M projects.
 - \$16K decrease for USBR Engineering Support required in FY19 for R, O&M inspection costs.

- Auditing increased \$25.8K
 - Two scheduled for FY20; increase for potential outside assistance for audit preparation.
- Other Professional Services increased \$10.3K.
 - Increase for Aquatic Pesticide Permitting for hyacinth and water primrose spraying in the lower DMC.
- Conference & Training Costs increased \$50K.

Many new employees therefore need to provide additional training

- Protective Relay training- \$20K
 - Executive Director training- \$2.5K
 - ACWA Conference-Director of Finance- \$1.5K
 - New Hydro-Tech II training- \$5K
 - OSHA 5-year Crane Certification- \$20K
- Travel increased \$18.8K
 - Travel related to increased training.
 - Rents/Leases – Vehicles/Construction Equipment decreased \$40K.
 - Anticipate purchase of long-reach excavator but will need funding for partial year rental until delivery of new excavator is received.
 - Decrease due to completion of gravelling of DMC unpaved road project.
 - Parts and materials increased overall by \$17K.
 - Increase of \$20K for O'Neill Plant breaker replacement (see special project justification)
 - Outside Services for Buildings/grounds/machinery/equipment increased overall by \$30K
 - \$20K increase for DCI Switchyard testing services (Transformer and SF-6 yard breaker testing)
 - \$15.5K increase for repairs to JPP 80-ton air conditioner or reinstallation of swamp cooling system (options currently being addressed)
 - Sand, Backfill & Rock decreased \$15.5K
 - Decrease due to completion of the gravelling of unpaved road project.
 - Chemicals increased \$25K
 - Aquatic herbicide for hyacinth and water primrose in the lower DMC.
 - Due to the reallocation from 22.39% to 84% of the adjusted Administration Budget to O&M, increases occurred in the following accounts:
 - Office Services & Supplies

- Mailing Costs
- Janitorial Supplies & Services
- Rents/Leases – Office Machinery & Equipment
- Employee & Group Meetings
- Rents/Leases – Land & Buildings
- Telephone Expenses
- Energy

Insurance Premiums and Fees

- No significant change

Equipment/Capital Asset Purchases

- No significant change

Indirect Charges

- No significant change

Extra-Ordinary O&M (EO&M)

EO&M projects budget decreased by -18.04%, approximately \$590K. The in-house labor/benefits associated with the EO&M Projects decreased by \$65k.

Capital Improvement Projects (CIP)

CIP Project budget decreased by -7.63% (\$430,856). CIP in-house labor decreased by \$373,116.

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY

FY2019 APPROVED, PROPOSED FY2020 TOTAL BUDGET SUMMARY

O&M Budget Summary	Approved FY19 Budget	Proposed * FY20 Budget	% Change 19 - 20
<u>Routine O&M (Water Users)</u>	\$ 12,423,492	\$ 12,972,224	4.42%
<u>USBR Funded O&M (Service Contract)</u>	\$ 521,811	\$ 580,776	11.30%
<u>TOTAL</u>	<u>\$ 12,945,303</u>	<u>\$ 13,553,000</u>	4.69%
<u>Extraordinary O&M (Water Users)</u>	\$ 3,273,925	\$ 2,683,450	-18.04%
<u>Capital Improvements Projects</u>	\$ 5,644,056	\$ 5,213,200	-7.63%
<u>CALFED Water Efficiency Grant Funds (USBR Reimbursed)/</u>	\$ -	\$ -	0.00%
<u>Participatory Grants</u>			
<u>TOTAL</u>	<u>\$ 21,863,284</u>	<u>\$ 21,449,650</u>	-1.89%
<u>Total Self Funded Budget</u> <small>(Water Users, BOR Repayment Contract)</small>	<u>\$ 21,341,472</u>	<u>\$ 20,868,873</u>	-2.21%

Routine O&M Budget

Staffing Levels

and

Organization Chart

Summary of Assumptions and Considerations

A. Proposed O&M positions budgeted fully or partially for FY20:

<u>Position</u>	<u>Number in FY20</u>
Accountant II	2
Accountant III	1
Accounting Technician I	3
Accounting Technician II	1
Accounting Technician III	1
Asst. Executive Director	1
Buyer	1
C&I Technician	3
Canal Operator	2
Canal Operator, Relief/Rodent Control	1
Civil/Ag Engineer	1
Civil Engineer, Associate	1
Civil Maintenance Foreman	1
Civil Maintenance Planner	1
Civil Maintenance Superintendent	1
Civil Maintenance Worker	11
Control Operator	4
Control Operator, Apprentice (New)	1
Control Operator, Relief	1
Custodian (1 new)	2
Director of Finance	1
Director of HR & Administration	1
Electrical Engineer, Junior	1
Electric Shop Foreman	1
Electrician	3
Electrician, Apprentice	3
Engineering & Planning Manager	1
Equipment Mechanic	2
Executive Director	1
Executive Secretary	1
General Council	1
General Council, Deputy	1
HR Analyst II	1
HR Coordinator	1
Heavy Equipment Operator	4
Hydro-Electric Maint. Planner	1
Hydro-tech I	3
Hydro-tech II	2
Information Systems/Asset Manager	1
Inventory Control Clerk	1
IT Specialist	1
IT Technician (New)	1
Mechanical Engineer	1
Office Assistant	1

<u>Position (cont.)</u>	<u>Number in FY20</u>
Operations & Maintenance Manager	1
Operations Supervisor	1
Painter	1
Plant Foreman, O'Neill	1
Plant Foreman, Machine Shop	1
Plant Mechanic II	6
Plant Mechanic, Apprentice	2
Project Coordinator	1
Safety Engineer	1
SCADA Engineer	1
Secretary	1
Water Operations Superintendent	1
Water Resources Engineer	1
Weed Control Specialist	1
Work Planning Technician	1
<u>Total Positions</u>	<u>96</u>

(NOTE: The positions of Water Policy Administrator, Science Manager, Accountant III [SJVDA], Senior Civil Engineer, Water Resources Coordinator, and Hydro-tech III are not listed in the total as they are non-O&M positions and budgeted in the Activity Budget)

- B. Routine O&M salaries will vary each year depending on the amount of staff labor dedicated to EO&M and Capital projects.
- C. Costs associated with USBR activities (Tracy Fish Collection Facility & Fish Release sites, Delta Cross Channel, USBR Tracy Admin facilities & Tracy WAPA facilities) are paid directly by the Bureau through a service contract. Current contract period extends to 12/31/2019.

2. Materials

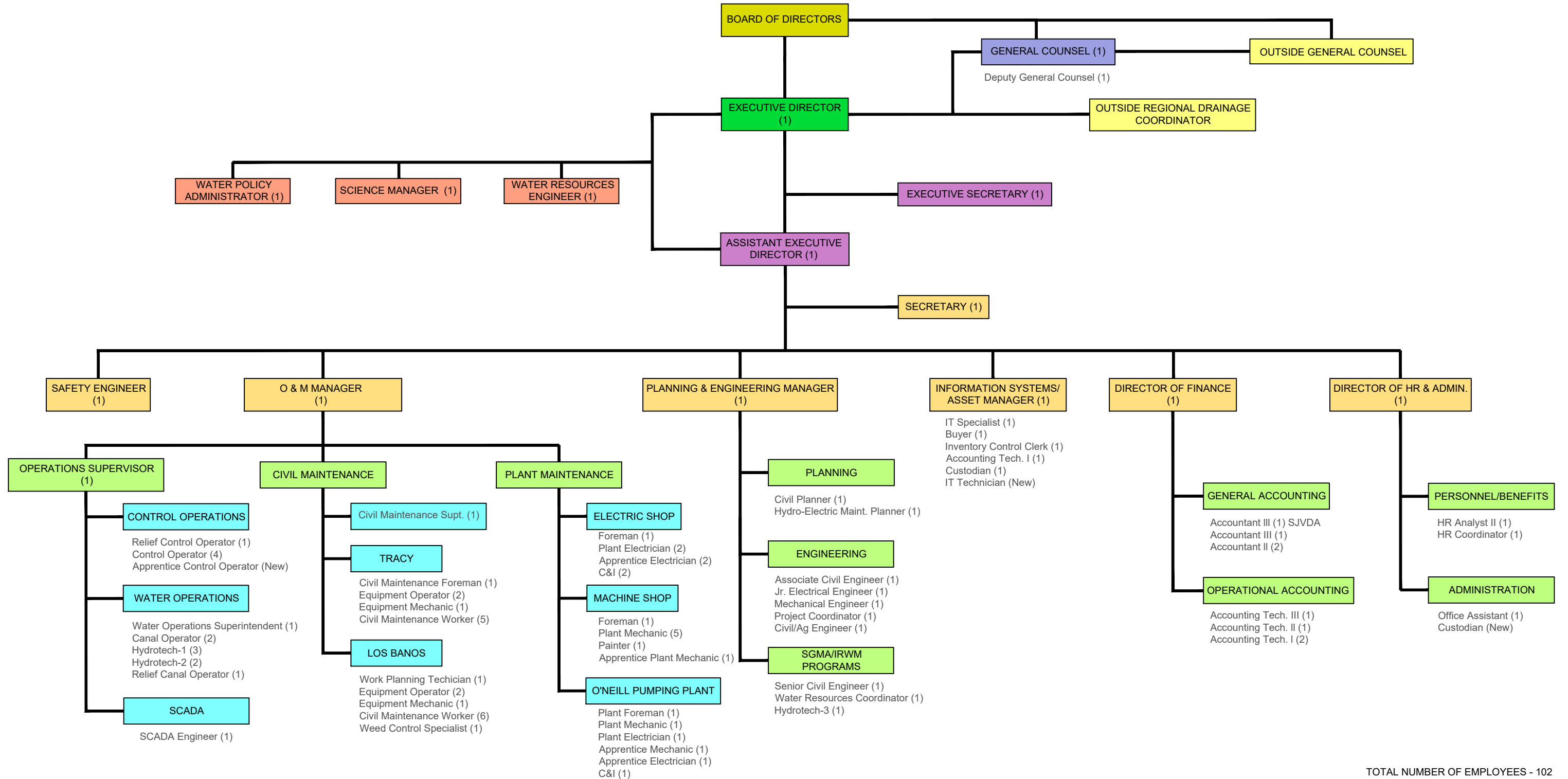
The Authority staff evaluates the materials and services costs annually and adjusts those costs depending on planned projects and pricing trends for given materials and services.

3. Vehicles, Equipment and Computer Acquisition

New equipment purchases in excess of \$2,500 are supported with a Cost Justification Summary.

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY ORGANIZATION CHART

Proposed FY20



TOTAL NUMBER OF EMPLOYEES - 102

Routine O&M Budget

FY20 Proposed Budget

Summary &

Line Item Details

SLDMWA ANNUAL BUDGET ROUTINE O&M BUDGET FY20 SELF-FUNDED & USBR - FUNDED O&M ONLY		COLUMN	A	B	C	C vs B	COMMENTS - 2020
		Unaudited ACTUAL	APPROVED BUDGET	PROPOSED BUDGET			
SUMMARY (no EO&M & CIP) <i>Proposed Budget</i>		FY18	FY19	FY20			
5101	Salaries	\$5,506,309	\$6,387,878	\$6,736,496	5.46%		
5102	Overtime	\$257,919	\$111,759	\$183,724	64.39%		
5103	Salary Adjustments	\$0	\$0	\$0	0.00%		
5104	Vacation Expense	\$423,642	\$426,067	\$451,602	5.99%		
5105	Sick Time	\$287,716	\$219,978	\$235,136	6.89%		
5107	Holiday Pay	\$231,689	\$261,478	\$279,092	6.74%		
5108	Sick Cash Out Expense	\$76,907	\$43,827	\$50,000	14.08%		
5121	Payroll Taxes	\$118,445	\$132,782	\$109,521	-17.52%		
5131	Retirement 401/457 SLDMWA Contr	\$795,839	\$939,573	\$752,272	-19.93%		
5141	Health Insurance - SLDMWA Contr	\$1,694,501	\$1,870,878	\$1,824,091	-2.50%		
5145	Workers Compensation Insurance	\$286,157	\$402,160	\$335,234	-16.64%		
Subtotal Salaries & Employee Benefits		\$9,679,123	\$10,796,381	\$10,957,168	1.49%		
5210	Office Services & Supplies	\$24,696	\$37,470	\$61,150	63.20%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5211	Mailing Costs	\$1,526	\$2,570	\$5,620	118.72%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5216	Small Tools	\$28,677	\$27,100	\$24,600	-9.23%	Increased in FY19 for purchase of tools for DCI Plant	
5221	Clothing, Personal Equip/Laundry Svcs	\$25,795	\$28,900	\$24,900	-13.84%	Increased in FY19 for arc flash clothing requirements	
5226	Janitorial Supplies & Services	\$44,758	\$48,187	\$51,550	6.98%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5227	Engineering Consultant	\$0	\$51,000	\$115,000	125.49%	Elec and Mech Engineering services for JPP & OPP R, O&M and E, O&M requirements	
5228	Auditing	\$45,713	\$63,000	\$88,800	40.95%	Two audits scheduled for FY20. Increase for potential outside assistance for audit prep	
5229	Legal	\$66,344	\$107,440	\$80,000	-25.54%	No longer require the services of Linneman and Associates	
5231	Other Professional Services	\$47,494	\$102,500	\$112,800	10.05%	Increase for aquatic pesticide permitting for hyacinth and primrose on lower DMC	
5236	Security Services/Systems	\$120	\$0	\$0	0.00%		
5237	Fees & Licenses	\$11,533	\$10,670	\$11,820	10.78%	Increase \$1k to match actual expenditures for Transportation Permits	
5241	Other Services & Expenses	\$178,164	\$204,315	\$199,193	-2.51%		
5243	Computer Software	\$12,452	\$19,250	\$18,050	-6.23%		
5245	Contract Labor	\$0	\$0	\$0	0.00%		
5246	Rents/Leases - Ofc. Machinery & Equipment	\$326	\$627	\$2,940	368.96%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5247	Organizational Membership Dues	\$21,905	\$21,850	\$22,350	2.29%		
5251	Professional Organization Dues	\$772	\$800	\$1,030	28.75%		
5256	Conference & Training Costs	\$34,633	\$53,774	\$101,175	88.15%	Protective relay training, 5-year OSHA crane certification training	
5261	Travel	\$42,044	\$66,039	\$74,850	13.34%	Related to increased training	
5271	Employee & Group Meetings	\$13,167	\$14,191	\$20,340	43.33%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5286	Parts/Materials - Vehicle/Constrct Equip	\$52,795	\$80,034	\$80,000	-0.04%		
5288	Petroleum, Oil & Lubricants	\$174,392	\$229,287	\$226,570	-1.19%		
5291	Outside Services - Vehicle/Constrct Equip	\$66,346	\$58,095	\$58,050	-0.08%		
5296	Rents/Leases - Vehicle/Constrct Equip	\$48,501	\$80,000	\$40,000	-50.00%	Potential purchase of long-reach (partial year). Completed special proj. gravel roads	
5301	Parts & Materials - Bldg/Grnds/Mach/Equip	\$330,382	\$354,422	\$371,384	4.79%	O'Neill Plant breaker replacement (special project)	
5311	Outside Services - Bldg/Grnds/Mach/Equip	\$128,814	\$210,100	\$240,100	14.28%	DCI switchyard testing services. JPP air-conditioning service or swamp cooler install	
5316	Rents/Leases - Land & Buildings	\$74,450	\$71,788	\$108,654	51.35%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5331	Pipe, Metal & Treatments	\$21,049	\$43,000	\$43,000	0.00%		
5341	Sand, Backfill & Rock	\$5,412	\$30,000	\$14,500	-51.67%	Completion of gravelling unpaved roads (special project)	
5351	Concrete & Paving Material	\$11,783	\$18,000	\$20,000	11.11%	Increase for DMC stair replacements	
5361	Chemicals	\$128,214	\$107,400	\$132,400	23.28%	Increase for aquatic herbicide on lower DMC for hyacinth and water primrose	
5372	Telephone Expenses	\$50,010	\$64,355	\$84,733	31.67%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	

SLDMWA ANNUAL BUDGET ROUTINE O&M BUDGET FY20 SELF-FUNDED & USBR - FUNDED O&M ONLY SUMMARY (no EO&M & CIP) <i>Proposed Budget</i>		COLUMN	A	B	C	C vs B	COMMENTS - 2020
		2018 Unaudited ACTUAL FY18	2019 APPROVED BUDGET FY19	2020 PROPOSED BUDGET FY20			
5373	Energy	\$52,419	\$68,378	\$72,620	6.20%	Reallocation from 22.39% to 84% of adjusted Administration budget to O&M	
5374	Radio Communications	\$0	\$0	\$0	0.00%		
5375	Network Communications	\$44,754	\$58,190	\$60,756	4.41%		
5376	Hazardous Waste Disposal	\$10,639	\$19,300	\$22,100	14.51%	Increase to match actual expenditures	
5377	Disposal Expense	\$26,681	\$26,957	\$29,620	9.88%	Increase to match actual expenditures	
	Subtotal Services & Supplies	\$1,826,760	\$2,378,990	\$2,620,655	10.16%		
5401	Insurance Premiums & Fees	\$200,124	\$199,905	\$198,522	-0.69%		
	Subtotal Other Charges	\$200,124	\$199,905	\$198,522	-0.69%		
5521	New/Replacement Equipment & Furniture	\$42,704	\$41,424	\$48,140	16.21%	O'Neill Plant Battery Room air conditioner (See equipment justification)	
5523	Computer Hardware	\$5,739	\$8,400	\$9,800	16.67%	Increase for potential additional positions	
5526	Water Meters	\$2,902	\$18,000	\$18,000	0.00%		
5541	Automotive & Light Trucks	\$0	\$0	\$0	0.00%		
5544	Heavy Equipment	\$0	\$0	\$0	0.00%		
5561	Construction Equipment/Payment	\$0	\$0	\$0	0.00%		
	Subtotal Capital Assets	\$51,345	\$67,824	\$75,940	11.97%		
TOTAL ROUTINE O&M BUDGET		\$11,757,352	\$13,443,099	\$13,852,285	3.04%		
Less:	Allocated indirect charged to EO&M Reserve	(243,776)	(314,697)	(299,285)	-4.90%		
	Allocated indirect charged to PAT Grants	\$0	-	-	0.00%		
	Allocated Indirect charged to CIP & Other Funds	(\$20,201)	(183,100)	-	-100.00%		
ADJUSTED ROUTINE O&M BUDGET TOTAL		\$11,493,375	\$12,945,303	\$13,553,000	4.69%		

RO&M BUDGET FY 2020 LINE ITEM DETAIL

<i>Draft 1</i> SLDMWA ANNUAL BUDGET SUMMARY DETAIL OF ALL DEPTS		Total excluding EO&M PAT GRANTS, & USBR	FY20 TOTAL DMC	FY20 TOTAL SELF FUNDING	FY20 TOTAL BUREAU FACILITIES	FY19 TOTAL DMC	% Change FY19 vs FY20 DMC
LINE ITEM DETAIL							
R. O & M							
5101	Salaries of Authority Employees less Vac, Sick and Holiday	7,072,139.87	6,736,495.57	6,531,072.33	205,423.24	6,387,877.97	5.46%
	Subtotal 5101	7,072,139.87	6,736,495.57	6,531,072.33	205,423.24	6,387,877.97	5.46%
5102	OT pay including Comp. Time banked	221,048.00	183,723.68	179,132.92	4,590.76	111,758.81	64.39%
	Subtotal 5102	221,048.00	183,723.68	179,132.92	4,590.76	111,758.81	64.39%
5103	As determined by annual salary review	0.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5103	0.00	0.00	0.00	0.00	0.00	0.00%
5104	Vacation earned	473,200.45	451,602.25	438,543.51	13,058.74	426,067.37	5.99%
	Subtotal 5104	473,200.45	451,602.25	438,543.51	13,058.74	426,067.37	5.99%
5105	Sick Time used	246,769.01	235,136.04	227,930.37	7,205.67	219,978.26	6.89%
	Subtotal 5105	246,769.01	235,136.04	227,930.37	7,205.67	219,978.26	6.89%
5107	Holiday Time paid	292,904.71	279,092.20	270,536.20	8,556.00	261,478.07	6.74%
	Subtotal 5107	292,904.71	279,092.20	270,536.20	8,556.00	261,478.07	6.74%
5108	Sick Cash Out Expense Earned	50,000.00	50,000.00	50,000.00	0.00	43,827.35	14.08%
	Subtotal 5108	50,000.00	50,000.00	50,000.00	0.00	43,827.35	14.08%
5121	Authority's Fed & St P/R Taxes	116,332.97	109,521.49	105,428.22	4,093.27	132,782.07	-17.52%
	Subtotal 5121	116,332.97	109,521.49	105,428.22	4,093.27	132,782.07	-17.52%
5131	Authority contributions to Emp. Ret. Plan, includes the 401a and the 457	800,913.13	752,272.02	721,849.05	30,422.96	939,572.82	-19.93%
	Subtotal 5131	800,913.13	752,272.02	721,849.05	30,422.96	939,572.82	-19.93%
5141	Contribution to medical, den., Vision	1,930,996.99	1,824,091.24	1,755,170.45	68,920.78	1,870,878.07	-2.50%
	Subtotal 5141	1,930,996.99	1,824,091.24	1,755,170.45	68,920.78	1,870,878.07	-2.50%
5145	Authority cost for Workmen Comp. Ins.	362,177.79	335,233.98	318,313.63	16,920.35	402,159.93	-16.64%
	Subtotal 5145	362,177.79	335,233.98	318,313.63	16,920.35	402,159.93	-16.64%
	Total Salary Related	11,566,482.92	10,957,168.46	10,597,976.69	359,191.77	10,796,380.70	1.49%
5210	Auto Cad Related Expenditures	800.00	800.00	800.00	0.00	500.00	60.00%
	Office Equipment (less than \$500)	500.00	500.00	500.00	0.00	838.00	-40.33%
	Maintenance Contracts	11,200.00	11,200.00	11,200.00	0.00	5,330.07	110.13%
	Office Supplies, Subscriptions, Maps	45,900.00	45,900.00	45,900.00	0.00	28,252.03	62.47%
	Reference Materials	2,750.00	2,750.00	2,750.00	0.00	2,550.00	7.84%
	Subtotal 5210	61,150.00	61,150.00	61,150.00	0.00	37,470.10	63.20%
5211	Postage	5,620.00	5,620.00	5,620.00	0.00	2,569.50	118.72%
	Subtotal 5211	5,620.00	5,620.00	5,620.00	0.00	2,569.50	118.72%
5216	Misc. Tools (<i>Wrench, Hammer, Tape Measures, pliers, Micrometer, Landscaping Tools, Etc.</i>)	18,500.00	18,500.00	18,500.00	0.00	16,500.00	12.12%
	Safety Equipment/Instruments	3,100.00	3,100.00	3,100.00	0.00	2,600.00	19.23%
	New tools(Apptcs, Helper & Plant Mech)	2,000.00	2,000.00	2,000.00	0.00	7,000.00	-71.43%
	Painting Tools & Equip. (less than \$500)	1,000.00	1,000.00	1,000.00	0.00	1,000.00	0.00%
	Subtotal 5216	24,600.00	24,600.00	24,600.00	0.00	27,100.00	-9.23%
5221	Safety Glasses, Gloves, Coveralls, Hard Hat, Safety Boots, Rain Gear, Ear Plugs, Face Shields, Etc.	19,900.00	19,900.00	19,900.00	0.00	24,000.00	-17.08%
	Arc Flash PPE, Monitoring Equipment	5,000.00	5,000.00	5,000.00	0.00	4,900.00	2.04%
	Subtotal 5221	24,900.00	24,900.00	24,900.00	0.00	28,900.00	-13.84%
5226	Janitorial Services	46,500.00	46,500.00	46,500.00	0.00	43,487.43	6.93%
	Janitorial Supplies	5,050.00	5,050.00	5,050.00	0.00	4,700.00	7.45%
	Subtotal 5226	51,550.00	51,550.00	51,550.00	0.00	48,187.43	6.98%
5227	USBR Engineering Review / Inspection	25,000.00	25,000.00	25,000.00	0.00	41,000.00	-39.02%
	ONP Structural Behavior Survey	10,000.00	10,000.00	10,000.00	0.00	10,000.00	0.00%
	Electrical Engineering Consulting Services	40,000.00	40,000.00	40,000.00	0.00	0.00	0.00%
	Mechanical Engineering Consulting Services	40,000.00	40,000.00	40,000.00	0.00	0.00	0.00%
	Subtotal 5227	115,000.00	115,000.00	115,000.00	0.00	51,000.00	125.49%
5228	Auditing Services	88,800.00	88,800.00	88,800.00	0.00	63,000.00	40.95%
	Subtotal 5228	88,800.00	88,800.00	88,800.00	0.00	63,000.00	40.95%
5229	Linneman	0.00	0.00	0.00	0.00	46,440.00	-100.00%
	Other	80,000.00	80,000.00	80,000.00	0.00	61,000.00	31.15%
	Subtotal 5229	80,000.00	80,000.00	80,000.00	0.00	107,440.00	-25.54%

RO&M BUDGET FY 2020 LINE ITEM DETAIL

<i>Draft 1</i> SLDMWA ANNUAL BUDGET SUMMARY DETAIL OF ALL DEPTS		Total excluding EO&M PAT GRANTS, & USBR	FY20 TOTAL DMC	FY20 TOTAL SELF FUNDING	FY20 TOTAL BUREAU FACILITIES	FY19 TOTAL DMC	% Change FY19 vs FY20 DMC
LINE ITEM DETAIL							
R, O & M							
5231 Other Professional Svcs.	Med. Exams- Class A, Pre-Employ, Biological Consultants/Michael Bell-SLTP	10,800.00 20,000.00	10,800.00 20,000.00	10,800.00 20,000.00	0.00 0.00	2,075.72 20,000.00	420.30% 0.00%
	Control Substance / Alcohol Testing	0.00	0.00	0.00	0.00	2,560.86	-100.00%
	First Aid Payments	0.00	0.00	0.00	0.00	1,031.14	-100.00%
	Annual Flu Shots	0.00	0.00	0.00	0.00	905.20	-100.00%
	Hepatitis Shots (A&B)	0.00	0.00	0.00	0.00	338.44	-100.00%
	Network Contractor/Consultant	1,800.00	1,800.00	1,800.00	0.00	1,800.00	0.00%
	Oracle Contractor/Consultant	5,000.00	5,000.00	5,000.00	0.00	5,000.00	0.00%
	Grossmayer Consult.-Acct Sftwre Sup./Other Consult	39,700.00	39,700.00	39,700.00	0.00	0.00	0.00%
	Fieldman Rolapp & Associates	10,000.00	10,000.00	10,000.00	0.00	10,000.00	0.00%
	Pre-employment Exams	0.00	0.00	0.00	0.00	1,031.14	-100.00%
	Fit-For-Duty Exams	0.00	0.00	0.00	0.00	1,031.14	-100.00%
	Hearing Conservation Program	0.00	0.00	0.00	0.00	1,226.35	-100.00%
	Remote Access - Go To My PC	0.00	0.00	0.00	0.00	0.00	0.00%
	Aquatic Pesticide App Plan/Reports/Sampling	10,000.00	10,000.00	10,000.00	0.00	0.00	0.00%
		0.00	0.00	0.00	0.00	0.00	0.00%
	EO&M	5,202,000.00	0.00	0.00	0.00	40,000.00	-100.00%
	Corrosion Engineering Services	8,000.00	8,000.00	8,000.00	0.00	8,000.00	0.00%
	Industrial Hygenist	7,500.00	7,500.00	7,500.00	0.00	7,500.00	0.00%
	Subtotal 5231	5,314,800.00	112,800.00	112,800.00	0.00	102,500.00	10.05%
5237 Fees & Licenses	Notary Public License	0.00	0.00	0.00	0.00	0.00	0.00%
	Commercial Driver License	200.00	200.00	200.00	0.00	200.00	0.00%
	CPR and First Aid Facilitators renewal	120.00	120.00	120.00	0.00	120.00	0.00%
	EPA Fees/Haz Mat Fees	4,600.00	4,600.00	4,600.00	0.00	4,600.00	0.00%
	Transportation Permits	4,800.00	4,800.00	4,800.00	0.00	3,800.00	26.32%
	CPA License	350.00	350.00	350.00	0.00	200.00	75.00%
	WTP Operator's License	1,000.00	1,000.00	1,000.00	0.00	1,000.00	0.00%
	Hall/Conference Room Rental Fees	0.00	0.00	0.00	0.00	0.00	0.00%
	PE License	750.00	750.00	750.00	0.00	750.00	0.00%
	Subtotal 5237	11,820.00	11,820.00	11,820.00	0.00	10,670.00	10.78%
5241 Other Services & Expenses	Bottled Water Service; Misc	6,063.00	6,063.00	6,063.00	0.00	5,863.00	3.41%
	Chemical Toilet Service	1,000.00	1,000.00	1,000.00	0.00	800.00	25.00%
	CMMS Program Service Contract/Tech.	36,000.00	36,000.00	36,000.00	0.00	36,000.00	0.00%
	Comprehensive Support - SCADA MMI	9,000.00	9,000.00	9,000.00	0.00	9,000.00	0.00%
	Crane Certification Inspection	7,000.00	7,000.00	7,000.00	0.00	10,200.00	-31.37%
	Drain Cleaning Services	3,300.00	3,300.00	3,300.00	0.00	3,300.00	0.00%
	Employee Appreciation Day/Picnic	8,163.00	8,163.00	8,163.00	0.00	7,172.41	13.81%
	Employee Attendance Recognition	8,163.00	8,163.00	8,163.00	0.00	7,103.45	14.92%
	Employee Awards	4,308.00	4,308.00	4,308.00	0.00	4,344.83	-0.85%
	Fire Extinguisher Inspection Serv.	4,200.00	4,200.00	4,200.00	0.00	3,700.00	13.51%
	Freight Charges	500.00	500.00	500.00	0.00	500.00	0.00%
	Great Plains Annual Maintenance	8,300.00	8,300.00	8,300.00	0.00	8,625.00	-3.77%
	Ice Services	2,700.00	2,700.00	2,700.00	0.00	2,500.00	8.00%
	Job Announcements	9,070.00	9,070.00	9,070.00	0.00	8,189.66	10.75%
	Transformer Oil Sample Analysis	4,500.00	4,500.00	4,500.00	0.00	4,000.00	12.50%
	Unit Lube Oil Analysis	1,800.00	1,800.00	1,800.00	0.00	1,800.00	0.00%
	Main Unit Non-dest. Test. Svce (PD Test)	5,000.00	5,000.00	5,000.00	0.00	5,000.00	0.00%
	Safety Incentive Plan/Retiree Pres.	19,546.00	19,546.00	19,546.00	0.00	16,689.66	17.11%
	Water Treatment Plant Service Contract	0.00	0.00	0.00	0.00	0.00	0.00%
	Tuition Reimbursement	8,200.00	8,200.00	8,200.00	0.00	1,200.00	583.33%
	Potable Water Samples	12,000.00	12,000.00	12,000.00	0.00	15,000.00	-20.00%
	Oracle Program Svce. Contract/support	9,000.00	9,000.00	9,000.00	0.00	9,000.00	0.00%
	Document Management Contract/Support	5,100.00	5,100.00	5,100.00	0.00	5,100.00	0.00%
	Bank Charges	3,600.00	3,600.00	3,600.00	0.00	2,875.00	25.22%
	Network Equipment Technical Support	2,500.00	2,500.00	2,500.00	0.00	2,000.00	25.00%
	Man Lift Annual Certification	1,200.00	1,200.00	1,200.00	0.00	1,200.00	0.00%
	Phone System Technical Support	3,800.00	3,800.00	3,800.00	0.00	3,800.00	0.00%
	Board Committee Meeting Expenses	4,780.00	4,780.00	4,780.00	0.00	1,852.33	158.05%
	Intertie Costs - DWR O&M Charges	5,000.00	5,000.00	5,000.00	0.00	5,000.00	0.00%
	Volta Wells - Giant Garter Snake Monitoring	0.00	0.00	0.00	0.00	0.00	0.00%
	Volta Wells - Water Quality Monitoring	0.00	0.00	0.00	0.00	0.00	0.00%
	Advertising & Legal Notices	0.00	0.00	0.00	0.00	500.00	-100.00%
	CalCAD Program Annual Maintenance Support	0.00	0.00	0.00	0.00	3,000.00	-100.00%
	STORM Program Annual Maintenance Support	5,400.00	5,400.00	5,400.00	0.00	0.00	0.00%
	Communication Licences for DMC - PLC	0.00	0.00	0.00	0.00	4,000.00	-100.00%
	Install Microwave Data Backhaul from LBAO to LBFO/OPP	0.00	0.00	0.00	0.00	15,000.00	-100.00%
	Subtotal 5241	199,193.00	199,193.00	199,193.00	0.00	204,315.34	-2.51%

RO&M BUDGET FY 2020 LINE ITEM DETAIL

Draft 1								
SOLDMWA ANNUAL BUDGET								
SUMMARY DETAIL OF ALL DEPTS								
R, O & M								
	LINE ITEM DETAIL	Total excluding EO&M PAT GRANTS, & USBR	FY20 TOTAL DMC	FY20 TOTAL SELF FUNDING	FY20 TOTAL BUREAU FACILITIES	FY19 TOTAL DMC	% Change FY19 vs FY20 DMC	
5243	AutoCAD USER VIP Subscription	7,000.00	7,000.00	7,000.00	0.00	7,500.00	-6.67%	
Computer Software & Parts < \$1000. Each	Computer Parts (less than \$1000 each)	3,800.00	3,800.00	3,800.00	0.00	3,900.00	-2.56%	
	Miscellaneous Software Updates	6,500.00	6,500.00	6,500.00	0.00	5,500.00	18.18%	
	Arc Flash and Short Circuit Software	0.00	0.00	0.00	0.00	0.00	0.00%	
	ESRI ArcMAP Annual Update Subscription	0.00	0.00	0.00	0.00	1,600.00	-100.00%	
	MSDS Online Software Licence Purchase/Renewal	750.00	750.00	750.00	0.00	750.00	0.00%	
	Purchase Additional ArcMAP User License	0.00	0.00	0.00	0.00	0.00	0.00%	
	Enterprise Document Management	0.00	0.00	0.00	0.00	0.00	0.00%	
		Subtotal 5243	18,050.00	18,050.00	18,050.00	0.00	19,250.00	-6.23%
5245	O'Neill Technical Svcs. (L.W. 12/mos.)	0.00	0.00	0.00	0.00	0.00	0.00%	
	Subtotal 5245	0.00	0.00	0.00	0.00	0.00	0.00%	
5246	Copy Machine	0.00	0.00	0.00	0.00	0.00	0.00%	
Rents/Leases - Office Machines & Equipment	Pitney Bowes Stamp Machine	2,940.00	2,940.00	2,940.00	0.00	626.92	368.96%	
		Subtotal 5246	2,940.00	2,940.00	2,940.00	626.92	368.96%	
5247	ACWA Dues	22,350.00	22,350.00	22,350.00	0.00	21,850.00	2.29%	
	Subtotal 5247	22,350.00	22,350.00	22,350.00	0.00	21,850.00	2.29%	
5251	Professional Engineers Assoc Dues	400.00	400.00	400.00	0.00	400.00	0.00%	
Dues - Prof. & Org.	AWWA Membership Dues	630.00	630.00	630.00	0.00	400.00	57.50%	
		Subtotal 5251	1,030.00	1,030.00	1,030.00	800.00	28.75%	
5256	ACWA Conferences	10,200.00	10,200.00	10,200.00	0.00	8,311.95	22.71%	
Conference/ Training	Management Training Seminars	0.00	0.00	0.00	0.00	0.00	0.00%	
	Pesticide Training	1,200.00	1,200.00	1,200.00	0.00	1,200.00	0.00%	
	Safety Training Seminars	8,500.00	8,500.00	8,500.00	0.00	11,000.00	-22.73%	
	Technical Training Seminars	52,775.00	52,775.00	52,775.00	0.00	30,961.95	70.45%	
	Equipment training	6,000.00	6,000.00	6,000.00	0.00	1,000.00	500.00%	
	Leadership Development	0.00	0.00	0.00	0.00	0.00	0.00%	
	OSHA Crane Op's Cert/Train.	22,500.00	22,500.00	22,500.00	0.00	1,300.00	1630.77%	
	On-site "All Staff" Skill Training	0.00	0.00	0.00	0.00	0.00	0.00%	
		Subtotal 5256	101,175.00	101,175.00	101,175.00	0.00	53,773.90	88.15%
5261	Apprenticeship Training	24,200.00	24,200.00	24,200.00	0.00	28,400.00	-14.79%	
Travel	Conferences / Technical Training	42,550.00	42,550.00	42,550.00	0.00	30,330.00	40.29%	
	Leadership Development	0.00	0.00	0.00	0.00	0.00	0.00%	
	Miscellaneous Travel	6,100.00	6,100.00	6,100.00	0.00	7,309.06	-16.54%	
	O&M Technical Committee Tour	0.00	0.00	0.00	0.00	0.00	0.00%	
	OSHA Crane Op's Cert. Training	2,000.00	2,000.00	2,000.00	0.00	0.00	0.00%	
	Water Edu. Foundation Water Tours	0.00	0.00	0.00	0.00	0.00	0.00%	
		Subtotal 5261	74,850.00	74,850.00	74,850.00	0.00	66,039.06	13.34%
5271	Meeting Expenses	20,340.00	20,340.00	20,340.00	0.00	14,190.93	43.33%	
	Subtotal 5271	20,340.00	20,340.00	20,340.00	0.00	14,190.93	43.33%	
5286	Parts & Supplies	80,000.00	80,000.00	80,000.00	0.00	80,033.59	-0.04%	
	Subtotal 5286	80,000.00	80,000.00	80,000.00	0.00	80,033.59	-0.04%	
5288	Diesel (\$3.25/gal)	78,000.00	78,000.00	78,000.00	0.00	72,000.00	8.33%	
Petroleum, Oil & Lubricants	Gasoline (\$3.25/gal)	134,320.00	134,320.00	134,320.00	0.00	143,737.30	-6.55%	
	Oil	11,000.00	11,000.00	11,000.00	0.00	11,000.00	0.00%	
	Propane (Forklifts)	3,200.00	3,200.00	3,200.00	0.00	2,500.00	28.00%	
		0.00	0.00	0.00	0.00	0.00	0.00%	
	Meter Lubricants	50.00	50.00	50.00	0.00	50.00	0.00%	
	Subtotal 5288	226,570.00	226,570.00	226,570.00	0.00	229,287.30	-1.19%	
5291	Engine/Transmission Replacement	15,000.00	15,000.00	15,000.00	0.00	15,000.00	0.00%	
Outside Services - Vehicles & Constr. Equip	Windshield Repair/Replacement	2,000.00	2,000.00	2,000.00	0.00	2,000.00	0.00%	
	Tire Repair/Replacement	18,500.00	18,500.00	18,500.00	0.00	18,500.00	0.00%	
	Diesel Engine Retro-fit (2 vehicles)	0.00	0.00	0.00	0.00	0.00	0.00%	
	Off Road Equipment Retrofit	0.00	0.00	0.00	0.00	0.00	0.00%	
	Smog/Smoke Test	3,000.00	3,000.00	3,000.00	0.00	3,000.00	0.00%	
	Other Outside Services	19,550.00	19,550.00	19,550.00	0.00	19,594.78	-0.23%	
		Subtotal 5291	58,050.00	58,050.00	58,050.00	0.00	58,094.78	-0.08%
	5296	Other Equipment Rental	40,000.00	40,000.00	40,000.00	0.00	40,000.00	0.00%
Rents/Leases - Vehicle & Construction Equipment	EO&M	9,100.00	0.00	0.00	0.00	0.00	0.00%	
	Gravel Unpaved Roads (Spec. Pro.)	0.00	0.00	0.00	0.00	40,000.00	-100.00%	
		Subtotal 5296	49,100.00	40,000.00	40,000.00	0.00	80,000.00	-50.00%

RO&M BUDGET FY 2020 LINE ITEM DETAIL

<i>Draft 1</i> SLDMWA ANNUAL BUDGET SUMMARY DETAIL OF ALL DEPTS		Total excluding EO&M PAT GRANTS, & USBR	FY20 TOTAL DMC	FY20 TOTAL SELF FUNDING	FY20 TOTAL BUREAU FACILITIES	FY19 TOTAL DMC	% Change FY19 vs FY20 DMC
LINE ITEM DETAIL							
R. O & M							
5301	Building Material & Supplies	13,400.00	13,400.00	13,400.00	0.00	11,800.00	13.56%
Parts/Material-Bldg, Grounds, Mach. & Equip.	Electrical Materials & Supplies	20,500.00	20,500.00	18,300.00	2,200.00	22,500.00	-8.89%
	Fasteners, Welding Supplies, Etc.	8,100.00	8,100.00	8,100.00	0.00	8,100.00	0.00%
	Locks, Keys	1,400.00	1,400.00	1,400.00	0.00	1,400.00	0.00%
	Mechanical Materials & Supplies	9,600.00	9,600.00	9,600.00	0.00	11,100.00	-13.51%
	Machine Tools (cutting bits, etc.)	8,200.00	8,200.00	6,700.00	1,500.00	6,700.00	22.39%
	Paint & Painting Supplies	15,400.00	15,400.00	15,400.00	0.00	13,600.00	13.24%
	Repair Parts & Materials	12,900.00	12,900.00	12,900.00	0.00	12,900.00	0.00%
	Replacement Parts - Electrical	62,400.00	62,400.00	60,000.00	2,400.00	52,150.00	19.65%
	Replacement Parts - Mechanical	45,000.00	45,000.00	43,200.00	1,800.00	44,750.00	0.56%
	DMC Redundant Level Transmitter-Ultrasonic	0.00	0.00	0.00	0.00	0.00	0.00%
	Replacement Parts - SCADA	16,000.00	16,000.00	16,000.00	0.00	28,500.00	-43.86%
	Safety Equip	8,700.00	8,700.00	8,700.00	0.00	8,700.00	0.00%
	Shop Consumables	15,500.00	15,500.00	15,500.00	0.00	15,500.00	0.00%
	Welding Supplies	15,700.00	15,700.00	15,700.00	0.00	15,700.00	0.00%
	Water Treatment Plant Parts & Supplies	10,700.00	10,700.00	10,700.00	0.00	10,700.00	0.00%
	DMC-Turnout Gates	35,000.00	35,000.00	35,000.00	0.00	35,000.00	0.00%
	DMC-Hardware, Construction Supplies	13,000.00	13,000.00	13,000.00	0.00	13,000.00	0.00%
	DMC-WW-Check Structure Parts	2,000.00	2,000.00	2,000.00	0.00	2,000.00	0.00%
	JPP Unit Disch. Piping Rehab	0.00	0.00	0.00	0.00	0.00	0.00%
	Replacement parts - meters	6,500.00	6,500.00	6,500.00	0.00	6,500.00	0.00%
	Bridge rehab	22,000.00	22,000.00	22,000.00	0.00	22,000.00	0.00%
	Safety Lines & Buoys	2,000.00	2,000.00	2,000.00	0.00	2,000.00	0.00%
	Miscellaneous	3,884.00	3,884.00	3,884.00	0.00	3,822.39	1.61%
	Suction Elbow Drain Valve Replacement	0.00	0.00	0.00	0.00	0.00	0.00%
	HVAC Supplies	0.00	0.00	0.00	0.00	0.00	0.00%
	New Meters	0.00	0.00	0.00	0.00	0.00	0.00%
	Engineering Project Developments	1,500.00	1,500.00	1,500.00	0.00	1,500.00	0.00%
	Confined Space Gas Monitoring	0.00	0.00	0.00	0.00	0.00	0.00%
	Domestic Water System - O'Neill Pumping Plant	0.00	0.00	0.00	0.00	0.00	0.00%
	DMC - Wooden stair replacement (12 Sites)	0.00	0.00	0.00	0.00	2,000.00	-100.00%
	JPP Sound Barriers	2,000.00	2,000.00	2,000.00	0.00	0.00	0.00%
	EO&M	139,100.00	0.00	0.00	0.00	0.00	0.00%
	480V Breaker Replacement (Sp. Project)	20,000.00	20,000.00	20,000.00	0.00	2,500.00	700.00%
	JPP Power Meters	0.00	0.00	0.00	0.00	0.00	0.00%
	OPP - Air Dryer System (R. O&M rec)	0.00	0.00	0.00	0.00	0.00	0.00%
	JPP Trash Rack Cleaner PLC Spare and Software Lic	0.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5301	510,484.00	371,384.00	363,484.00	7,900.00	354,422.39	4.79%
5311	Diving Services	99,000.00	99,000.00	93,500.00	5,500.00	99,000.00	0.00%
Outside Serv.-Bldg, Grounds, Mach. & Equip.	Crane Services	20,000.00	20,000.00	20,000.00	0.00	20,000.00	0.00%
	HVAC Repair/Services	20,000.00	20,000.00	20,000.00	0.00	4,500.00	344.44%
	Outside Electrical Services	7,000.00	7,000.00	7,000.00	0.00	7,000.00	0.00%
	Outside Machine Shop Services	5,000.00	5,000.00	5,000.00	0.00	5,000.00	0.00%
	Test Equipment Calibration & Repair	6,100.00	6,100.00	6,100.00	0.00	7,100.00	-14.08%
	Grounds Maintenance Services	10,000.00	10,000.00	10,000.00	0.00	10,000.00	0.00%
	Little Salado Creek Cleaning	0.00	0.00	0.00	0.00	0.00	0.00%
	Locksmith Services	600.00	600.00	600.00	0.00	600.00	0.00%
	Safety Equipment Calibration & Repair	0.00	0.00	0.00	0.00	0.00	0.00%
	JPP Trash Rack Debris Hauling	0.00	0.00	0.00	0.00	0.00	0.00%
	Video Security camera repairs	1,500.00	1,500.00	1,500.00	0.00	1,000.00	50.00%
	Little Salado Creek Siphon Cleaning	0.00	0.00	0.00	0.00	0.00	0.00%
	Gravel Unpaved Roads (Spec. Pro.)	0.00	0.00	0.00	0.00	0.00	0.00%
	Confined Space Gas Monitoring Service	9,400.00	9,400.00	9,400.00	0.00	9,400.00	0.00%
	Hyacinth Pit Grinding Contract	0.00	0.00	0.00	0.00	0.00	0.00%
	Fuel Management System Service & Repair	0.00	0.00	0.00	0.00	0.00	0.00%
	Parts Washer Service	2,600.00	2,600.00	2,600.00	0.00	2,600.00	0.00%
	Misc. Outside Services	3,400.00	3,400.00	3,400.00	0.00	3,400.00	0.00%
	Sandblast Equipment Annual Service	2,500.00	2,500.00	2,500.00	0.00	2,500.00	0.00%
	Rodent Abatement at Delta Cross Channel	38,000.00	38,000.00	0.00	38,000.00	38,000.00	0.00%
	DCI Switchyard Testing	15,000.00	15,000.00	15,000.00	0.00	0.00	0.00%
	EO&M	470,000.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5311	710,100.00	240,100.00	196,600.00	43,500.00	210,100.00	14.28%

RO&M BUDGET FY 2020 LINE ITEM DETAIL

<i>Draft 1</i> SLDMWA ANNUAL BUDGET SUMMARY DETAIL OF ALL DEPTS		Total excluding EO&M PAT GRANTS, & USBR	FY20 TOTAL DMC	FY20 TOTAL SELF FUNDING	FY20 TOTAL BUREAU FACILITIES	FY19 TOTAL DMC	% Change FY19 vs FY20 DMC
LINE ITEM DETAIL							
R, O & M							
5316	LBAO Office Lease; Sacto Office	108,654.00	108,654.00	108,654.00	0.00	71,788.20	51.35%
	Rents/Leases - Land & Bldg.	0.00	0.00	0.00	0.00	0.00	0.00%
	Water Resource Engineer's Storage Space						
	Subtotal 5316	108,654.00	108,654.00	108,654.00	0.00	71,788.20	51.35%
5331	Miscellaneous Pipe, Valves & Fittings	18,400.00	18,400.00	18,400.00	0.00	18,400.00	0.00%
	Pipe, Metal & Treatments						
	Repair Material- Angle, Tubing, Steel	8,100.00	8,100.00	8,100.00	0.00	8,100.00	0.00%
	DMC-SLD-Miscellaneous Hardware	2,500.00	2,500.00	2,500.00	0.00	2,500.00	0.00%
	DMC-SLD-Signs	2,000.00	2,000.00	2,000.00	0.00	2,000.00	0.00%
		0.00	0.00	0.00	0.00	0.00	0.00%
	DMC - Roadway Gates	12,000.00	12,000.00	12,000.00	0.00	12,000.00	0.00%
	Subtotal 5331	43,000.00	43,000.00	43,000.00	0.00	43,000.00	0.00%
5341	Sand	2,500.00	2,500.00	2,500.00	0.00	2,500.00	0.00%
		0.00	0.00	0.00	0.00	0.00	0.00%
	Sand, Backfill and Rock						
	Road Base	12,000.00	12,000.00	12,000.00	0.00	12,000.00	0.00%
	Gravel Unpaved Roads (Spec. Pro.)	0.00	0.00	0.00	0.00	15,500.00	-100.00%
	Subtotal 5341	14,500.00	14,500.00	14,500.00	0.00	30,000.00	-51.67%
5351	Concrete	10,000.00	10,000.00	10,000.00	0.00	8,000.00	25.00%
	Concrete & Paving Mat.						
	Paving Material	10,000.00	10,000.00	10,000.00	0.00	10,000.00	0.00%
	Subtotal 5351	20,000.00	20,000.00	20,000.00	0.00	18,000.00	11.11%
5361	Misc. Weed Control Additives	1,350.00	1,350.00	1,350.00	0.00	1,350.00	0.00%
	Chemicals						
	Karmex	0.00	0.00	0.00	0.00	0.00	0.00%
	Pre-Emergents	64,050.00	64,050.00	64,050.00	0.00	62,050.00	3.22%
	Insecticide	1,400.00	1,400.00	1,400.00	0.00	1,400.00	0.00%
	Rodent Bait	5,000.00	5,000.00	5,000.00	0.00	5,000.00	0.00%
	Aquatic Herbicide	22,350.00	22,350.00	22,350.00	0.00	0.00	0.00%
	Herbicide	37,850.00	37,850.00	37,850.00	0.00	37,200.00	1.75%
	Water Treatment Chemicals	400.00	400.00	400.00	0.00	400.00	0.00%
	Subtotal 5361	132,400.00	132,400.00	132,400.00	0.00	107,400.00	23.28%
5372	Cellular Phone	39,775.00	39,775.00	39,775.00	0.00	32,070.46	24.02%
	Telephone Expenses						
	Telephone	32,058.00	32,058.00	32,058.00	0.00	23,084.31	38.87%
	CORS Telephone Service @ Check 18	700.00	700.00	700.00	0.00	700.00	0.00%
	GPS Data Service	1,200.00	1,200.00	1,200.00	0.00	1,200.00	0.00%
	STORM Data Service Plan	2,200.00	2,200.00	2,200.00	0.00	0.00	0.00%
	DMC Check Structure Cellular Phone Service	8,800.00	8,800.00	8,800.00	0.00	7,300.00	20.55%
	Subtotal 5372	84,733.00	84,733.00	84,733.00	0.00	64,354.77	31.67%
5373	P, G & E	72,620.00	72,620.00	72,620.00	0.00	68,377.74	6.20%
	Energy						
	LBFO	0.00	0.00	0.00	0.00	0.00	0.00%
	DMC Checks	0.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5373	72,620.00	72,620.00	72,620.00	0.00	68,377.74	6.20%
5374	Mobile Radio Monthly Charges	0.00	0.00	0.00	0.00	0.00	0.00%
	Radio Communication						
	Subtotal 5374	0.00	0.00	0.00	0.00	0.00	0.00%
5375	Wide Area Network Connection	46,756.00	46,756.00	46,756.00	0.00	44,190.32	5.81%
	Computer Comm.						
	O'Neill SCADA Line	14,000.00	14,000.00	14,000.00	0.00	14,000.00	0.00%
	Subtotal 5375	60,756.00	60,756.00	60,756.00	0.00	58,190.32	4.41%
5376	Haz Waste Disposal	16,500.00	16,500.00	16,500.00	0.00	13,700.00	20.44%
	Hazardous Waste Disposal						
	Tire Disposal	2,000.00	2,000.00	2,000.00	0.00	2,000.00	0.00%
	Waste Oil & Oily Rag Disposal	2,800.00	2,800.00	2,800.00	0.00	2,800.00	0.00%
	Solvent Re-cycling (Safety Kleen)	800.00	800.00	800.00	0.00	800.00	0.00%
	Subtotal 5376	22,100.00	22,100.00	22,100.00	0.00	19,300.00	14.51%
5377	Trash Disposal (dumpsters)	24,220.00	24,220.00	24,220.00	0.00	22,857.49	5.96%
	Disposal Expenses						
	DMC R/W Garbage Disposal	3,000.00	3,000.00	3,000.00	0.00	2,500.00	20.00%
	Dumpster (20-yd call in)	2,400.00	2,400.00	2,400.00	0.00	1,600.00	50.00%
		0.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5377	29,620.00	29,620.00	29,620.00	0.00	26,957.49	9.88%
5401	General Liability	167,322.00	167,322.00	167,322.00	0.00	168,704.72	-0.82%
	Insurance Premiums and Fees						
	Property Insurance	27,400.00	27,400.00	27,400.00	0.00	27,400.00	0.00%
	Employee Fidelity Ins	3,800.00	3,800.00	3,800.00	0.00	3,800.00	0.00%
	Subtotal 5401	198,522.00	198,522.00	198,522.00	0.00	199,904.72	-0.69%

RO&M BUDGET FY 2020 LINE ITEM DETAIL

<i>Draft 1</i> SLDMWA ANNUAL BUDGET SUMMARY DETAIL OF ALL DEPTS		Total excluding EO&M PAT GRANTS, & USBR	FY20 TOTAL DMC	FY20 TOTAL SELF FUNDING	FY20 TOTAL BUREAU FACILITIES	FY19 TOTAL DMC	% Change FY19 vs FY20 DMC
LINE ITEM DETAIL							
R. O & M							
5521	Small Equipment/Furniture Replacement Pool	19,640.00	19,640.00	19,640.00	0.00	32,923.90	-40.35%
New/Replacement Equip. & Furniture	Office/Break Room Furniture	8,000.00	8,000.00	8,000.00	0.00	6,000.00	33.33%
	Misc. Storage equipment/Bookshelves	500.00	500.00	500.00	0.00	2,500.00	-80.00%
	Multimedia Projector	0.00	0.00	0.00	0.00	0.00	0.00%
	Battery Room A/C Unit	5,000.00	5,000.00	5,000.00	0.00	0.00	0.00%
	Compact Electric Man-Lift	15,000.00	15,000.00	15,000.00	0.00	0.00	0.00%
		0.00	0.00	0.00	0.00	0.00	0.00%
		0.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5521	48,140.00	48,140.00	48,140.00	0.00	41,423.90	16.21%
5523	Misc. Peripheral not covered EO&M	9,800.00	9,800.00	9,800.00	0.00	8,400.00	16.67%
Computer Hardware	TFO Fiber Upgrade	0.00	0.00	0.00	0.00	0.00	0.00%
	EO&M	79,050.00	0.00	0.00	0.00	0.00	0.00%
	Subtotal 5523	88,850.00	9,800.00	9,800.00	0.00	8,400.00	16.67%
5526	Water Meters (+EO&M)	18,000.00	18,000.00	18,000.00	0.00	18,000.00	0.00%
Water Meters	Subtotal 5526	18,000.00	18,000.00	18,000.00	0.00	18,000.00	0.00%
5541	EO&M	161,800.00	0.00	0.00	0.00	0.00	0.00%
Vehicles & Constr. Equip	Subtotal 5541	161,800.00	0.00	0.00	0.00	0.00	0.00%
5544	EO&M	927,000.00	0.00	0.00	0.00	0.00	0.00%
Heavy Equipment	Subtotal 5544	927,000.00	0.00	0.00	0.00	0.00	0.00%
Total All Other Expenses		9,883,167.00	2,895,117.00	2,843,717.00	51,400.00	2,646,718.38	9.39%
Grand Total		21,449,649.92	13,852,285.46	13,441,693.69	410,591.77	13,443,099.08	3.04%

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
ADMINISTRATIVE BUDGET/ALLOCATION TO ACTIVITIES
MARCH 1, 2018 - FEBRUARY 28, 2019**

ACCOUNT NUMBER	DESCRIPTION	TOTAL	Sub Fund of Leg/Ops #3													
			DMC O&M (01)	General Fund (03)	Leg/Ops (05)	Reallo Agreement (06)	Contract Renewal Coordinator (35)	Leg/Ops #3 (09)	Yuba Co. Water Trans (28)	GBD Dr #3A (22)	SGMA Northern Delta-Mendota Region (64)	SGMA Central Delta-Mendota Region (65)	Exchange Contractor 5 Year Transfer (44)	Long-Term North to South Water Transfers (56)	DHCCP (16)	SJVDA
	ADMINISTRATIVE EXPENDITURES	100.00%	22.39%	15.00%	52.00%	0.01%	0.15%	0.10%	0.20%	0.50%	1.00%	1.00%	0.25%	0.90%	0.50%	6.00%
	SALARIES & OT															
1	5101 Salaries	\$ 332,775	\$ 74,508	\$ 49,916	\$ 173,043	\$ 33	\$ 499	\$ 333	\$ 666	\$ 1,664	\$ 3,328	\$ 3,328	\$ 832	\$ 2,995	\$ 1,664	\$ 19,966
	5102 Overtime	\$ 1,400	\$ 313	\$ 210	\$ 728	\$ 0	\$ 2	\$ 1	\$ 3	\$ 7	\$ 14	\$ 14	\$ 4	\$ 13	\$ 7	\$ 84
	5103 Salary Adjustment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	5104 Vacation Expense	\$ 22,312	\$ 4,996	\$ 3,346	\$ 11,602	\$ 2	\$ 33	\$ 22	\$ 45	\$ 112	\$ 223	\$ 223	\$ 56	\$ 201	\$ 112	\$ 1,339
	5105 Sick Time Used	\$ 9,438	\$ 2,113	\$ 1,417	\$ 4,908	\$ 1	\$ 14	\$ 9	\$ 19	\$ 47	\$ 94	\$ 94	\$ 24	\$ 85	\$ 47	\$ 566
	5107 Holiday Time Paid	\$ 11,207	\$ 2,509	\$ 1,682	\$ 5,828	\$ 1	\$ 17	\$ 11	\$ 22	\$ 56	\$ 112	\$ 112	\$ 28	\$ 101	\$ 56	\$ 672
	EMPLOYEE BENEFITS															
1	5121 Payroll Taxes	\$ 5,566	\$ 1,246	\$ 834	\$ 2,894	\$ 1	\$ 8	\$ 6	\$ 11	\$ 28	\$ 56	\$ 56	\$ 14	\$ 50	\$ 28	\$ 334
1	5131 Retirement 401/457	\$ 48,847	\$ 10,937	\$ 7,328	\$ 25,400	\$ 5	\$ 73	\$ 49	\$ 98	\$ 244	\$ 488	\$ 488	\$ 122	\$ 440	\$ 244	\$ 2,931
1	5141 Health Insurance	\$ 40,611	\$ 9,093	\$ 6,091	\$ 21,118	\$ 4	\$ 61	\$ 41	\$ 81	\$ 203	\$ 406	\$ 406	\$ 102	\$ 365	\$ 203	\$ 2,437
1	5145 Workman Comp. Insurance	\$ 3,504	\$ 785	\$ 524	\$ 1,822	\$ 0	\$ 5	\$ 4	\$ 7	\$ 18	\$ 35	\$ 35	\$ 9	\$ 32	\$ 18	\$ 210
	SERVICES & SUPPLIES															
	5210 Maintenance - Office machines	\$ 11,300	\$ 2,530	\$ 1,694	\$ 5,876	\$ 1	\$ 17	\$ 11	\$ 23	\$ 57	\$ 113	\$ 113	\$ 28	\$ 102	\$ 57	\$ 678
	5210 Office Serv & Supplies	\$ 27,700	\$ 6,202	\$ 4,154	\$ 14,404	\$ 3	\$ 42	\$ 28	\$ 55	\$ 139	\$ 277	\$ 277	\$ 69	\$ 249	\$ 139	\$ 1,662
	5211 Mailing Costs	\$ 5,000	\$ 1,120	\$ 748	\$ 2,600	\$ 1	\$ 8	\$ 5	\$ 10	\$ 25	\$ 50	\$ 50	\$ 13	\$ 45	\$ 25	\$ 300
	5226 Janitorial*	\$ 5,750	\$ 1,287	\$ 860	\$ 2,990	\$ 1	\$ 9	\$ 6	\$ 12	\$ 29	\$ 58	\$ 58	\$ 14	\$ 52	\$ 29	\$ 345
2	5228 Auditing	\$ 70,000	\$ 63,000	\$ 587	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ 583	\$ -
	5231 Other Prof. Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
3	5231 Other Prof. Services-Grossmayer	\$ 5,550	\$ -	\$ 457	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ 463	\$ -
	5237 Fees & Licenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	5241 Other Serv & Supplies	\$ 4,700	\$ 1,052	\$ 705	\$ 2,444	\$ 0	\$ 7	\$ 5	\$ 9	\$ 24	\$ 47	\$ 47	\$ 12	\$ 42	\$ 24	\$ 282
	5243 Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	ADMINISTRATION															
	5271 EE/Comm Meeting	\$ 8,700	\$ 1,948	\$ 1,304	\$ 4,524	\$ 1	\$ 13	\$ 9	\$ 17	\$ 44	\$ 87	\$ 87	\$ 22	\$ 78	\$ 44	\$ 522
	STAFF RELATED															
	5256 Conference & Training Costs	\$ 1,000	\$ 224	\$ 149	\$ 520	\$ 0	\$ 2	\$ 1	\$ 2	\$ 5	\$ 10	\$ 10	\$ 3	\$ 9	\$ 5	\$ 60
	5261 Travel	\$ 5,400	\$ 1,209	\$ 809	\$ 2,808	\$ 1	\$ 8	\$ 5	\$ 11	\$ 27	\$ 54	\$ 54	\$ 14	\$ 49	\$ 27	\$ 324
	VEHICLES															
	5286 Parts/Material	\$ 150	\$ 34	\$ 22	\$ 78	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1	\$ 2	\$ 2	\$ 0	\$ 1	\$ 1	\$ 9
	5288 Petroleum/Oil/Lubricants	\$ 7,000	\$ 1,567	\$ 1,049	\$ 3,640	\$ 1	\$ 11	\$ 7	\$ 14	\$ 35	\$ 70	\$ 70	\$ 18	\$ 63	\$ 35	\$ 420
	5291 Outside Services	\$ 200	\$ 45	\$ 30	\$ 104	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1	\$ 2	\$ 2	\$ 1	\$ 2	\$ 1	\$ 12
	BUILDING, MACH & EQUIP															
	5301 Parts/Material	\$ 100	\$ 22	\$ 15	\$ 52	\$ 0	\$ 0	\$ 0	\$ 0	\$ 1	\$ 1	\$ 1	\$ 0	\$ 1	\$ 1	\$ 6
	5316 Rents/Leases - Buildings*	\$ 44,360	\$ 9,932	\$ 6,653	\$ 23,067	\$ 4	\$ 67	\$ 44	\$ 89	\$ 222	\$ 444	\$ 444	\$ 111	\$ 399	\$ 222	\$ 2,662
	5246 Rents/Leases - Office Equip.	\$ 2,800	\$ 627	\$ 420	\$ 1,456	\$ 0	\$ 4	\$ 3	\$ 6	\$ 14	\$ 28	\$ 28	\$ 7	\$ 25	\$ 14	\$ 168
	5521 Office Equipment/Furniture	\$ 1,000	\$ 224	\$ 149	\$ 520	\$ 0	\$ 2	\$ 1	\$ 2	\$ 5	\$ 10	\$ 10	\$ 3	\$ 9	\$ 5	\$ 60
	UTILITIES															
	5372 Telephone Expense	\$ 14,300	\$ 3,202	\$ 2,144	\$ 7,436	\$ 1	\$ 21	\$ 14	\$ 29	\$ 72	\$ 143	\$ 143	\$ 36	\$ 129	\$ 72	\$ 858
	5373 Energy*	\$ 6,600	\$ 1,478	\$ 989	\$ 3,432	\$ 1	\$ 10	\$ 7	\$ 13	\$ 33	\$ 66	\$ 66	\$ 17	\$ 59	\$ 33	\$ 396
	5377 Disposal Expense*	\$ 1,150	\$ 257	\$ 172	\$ 598	\$ 0	\$ 2	\$ 1	\$ 2	\$ 6	\$ 12	\$ 12	\$ 3	\$ 10	\$ 6	\$ 69
	OTHER CHARGES															
	5375 Network Communications	\$ 850	\$ 190	\$ 127	\$ 442	\$ 0	\$ 1	\$ 1	\$ 2	\$ 4	\$ 9	\$ 9	\$ 2	\$ 8	\$ 4	\$ 51
4	5401 General Liability-Life	\$ 6,180	\$ 1,384	\$ 926	\$ 3,214	\$ 1	\$ 9	\$ 6	\$ 12	\$ 31	\$ 62	\$ 62	\$ 15	\$ 56	\$ 31	\$ 371
		\$ 705,450	\$ 204,034	\$ 95,511	\$ 328,594	\$ 1,109	\$ 1,991	\$ 1,676	\$ 2,306	\$ 4,200	\$ 7,347	\$ 7,347	\$ 2,625	\$ 6,716	\$ 4,200	\$ 37,794
		\$705,450	\$141,034 less auditing													

Note 1: Salaries & Employee Benefits include Executive Director, Executive Secretary, and Interim Exec Director
 Note 2: Auditing is split 90% DMC and equally among other activities except SJVDA who will have its own separate audit
 *Amount represents 40% of total cost. 60% is charged directly to DMC and 22.39% of remaining 40% is also charged to DMC

Note 3: Other Services-Grossmayer is split equally among all activities except DMC & SJVDA
 Note 4: General Liability-Life includes Executive Director and Interim Exec Director

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
ADMINISTRATIVE BUDGET/FIXED ALLOCATION
MARCH 1, 2019 - FEBRUARY 28, 2020

FY20 Proposed Admin Budget Draft#1 - as of 10.3.18 jm

ACCOUNT NUMBER	DESCRIPTION	TOTAL	Sub Fund of Leg/Ops #3													SJVDA
			DMC O&M (01)	General Fund (03)	Leg/Ops (05)	Reallo Agreement (06)	Contract Renewal Coordinator (35)	Leg/Ops #3 (09)	Yuba Co. Water Trans (28)	GBD Dr #3A (22)	SGMA Northern Delta-Mendota Region (64)	SGMA Central Delta-Mendota Region (65)	Exchange Contractor 5 Year Transfer (44)	Long-Term North to South Water Transfers (56)	DHCCP (16)	
	ADMINISTRATIVE EXPENDITURES	100.00%	84.00%	10.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	6.00%
	SALARIES & OT															
5101	Salaries	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5102	Overtime	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5103	Salary Adjustment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5104	Vacation Expense	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5105	Sick Time Used	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5107	Holiday Time Paid	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	EMPLOYEE BENEFITS															
5121	Payroll Taxes	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5131	Retirement 401/457	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5141	Health Insurance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5145	Workman Comp. Insurance	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	SERVICES & SUPPLIES															
5210	Maintenance - Office machines	\$ 10,000	\$ 8,400	\$ 1,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 600
5210	Office Serv & Supplies	\$ 30,000	\$ 25,200	\$ 3,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,800
5211	Mailing Costs	\$ 5,000	\$ 4,200	\$ 500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 300
5226	Janitorial*	\$ 15,000	\$ 12,600	\$ 1,500	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 900
5228	Auditing	\$ 70,000	\$ 58,800	\$ 7,000	\$ 380	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ -
5231	Other Prof. Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
2 5231	Other Prof. Services-Grossmayer	\$ 7,000	\$ -	\$ 7,000	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5237	Fees & Licenses	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5241	Other Serv & Supplies	\$ 4,500	\$ 3,780	\$ 450	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 270
5243	Computer Software	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	ADMINISTRATION															
5271	EE/Comm Meeting	\$ 8,500	\$ 7,140	\$ 850	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 510
	STAFF RELATED															
5256	Conference & Training Costs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5261	Travel	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	VEHICLES															
5286	Parts/Material	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5288	Petroleum/Oil/Lubricants	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
5291	Outside Services	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
	BUILDING, MACH & EQUIP															
5301	Parts/Material	\$ 100	\$ 84	\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 6
5316	Rents/Leases - Buildings*	\$ 96,000	\$ 80,640	\$ 9,600	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 5,760
5246	Rents/Leases - Office Equip.	\$ 3,500	\$ 2,940	\$ 350	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 210
5521	Office Equipment/Furniture	\$ 1,000	\$ 840	\$ 100	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 60
	UTILITIES															
5372	Telephone Expense	\$ 14,000	\$ 11,760	\$ 1,400	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 840
5373	Energy*	\$ 18,000	\$ 15,120	\$ 1,800	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 1,080
5377	Disposal Expense*	\$ 3,000	\$ 2,520	\$ 300	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 180
	OTHER CHARGES															
5375	Network Communications	\$ 900	\$ 756	\$ 90	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 54
5401	General Liability-Life	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
		\$ 286,500	\$ 234,780	\$ 34,950	\$ 380	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 382	\$ 12,570

Notes: LBAO expenses including auditing and professional services related to financial management
: FY20 - removed all salaries and staff related costs

*FY20 - Including 100% of these costs in the Admin budget and allocating 84% to O&M as shown above. FY19 - janitorial, rent, energy and disposal expenses were budgeted in this Admin budget at only 40% of the total cost, and then 22.39% of that 40% to O&M.

Note 1: Auditing is split 84% DMC, 10% General Fund, and remaining is equally split among other activities excluding SJVDA (SJVDA has its own separate audit engagement cost)

Note 2: Other Prof. Services-Grossmayer is allocated entirely to General Membership and reflects the implementation fee for a new budgeting program specific to the Activity Agreements Budget format

Routine O&M Budget

FY20 Special Projects

Equipment Purchase & Position
Justifications

Special Projects FY-20

O'Neill 480 V Molded Case Breaker Replacement (BU53 - 5301 - \$20,000)

Many of the three-phase, 480 volt breakers in the O'Neill Pumping/Generating Plant (OPP) distribution panels are original to the plant and therefore are over 50 years old. Over the years, there has been various changes to the facilities electrical system such as the installation of sensitive electronic equipment which require breakers to react faster to short circuits, or the "Amperage Interrupting Current" (AIC) in the electrical system. These underrated breakers also do not meet the standards set forth by the National Fire Protection Association's (NFPA) 70-E requirement for arc-flash personal protective equipment.

During the Arc Flash Study that was provided for the OPP in 2016 by Pacific Power Engineers (PPE), a recommendation was made to have 46 of the existing 480-volt circuit breakers replaced with properly rated breakers for the AIC required by NFPA 70-E.

Replacing underrated breakers with the recommended breakers will raise the AIC rating of the facility's panels, ensuring that the panels and breakers will be sufficient to safely interrupt short circuit currents, not only protecting equipment, but more importantly, protecting personnel.

EQUIPMENT PURCHASE JUSTIFICATION FORM

FY20

REQUEST DATE: 9/20/18
PRIORITY CODE: - -

EXPENSE CODE: 5521
BUDGET UNIT: 40/52

Type of Purchase

- New Equipment/Furniture > \$2,500
- Replacement Equipment/Furniture
- Other:

EQUIPMENT DESCRIPTION:

Compact Electric Man-lift

GENERAL SPECIFICATIONS:

For DCI Plant

(See attached information)

<u>ESTIMATED COST (incl taxes, freight)</u>	<u>Current O&M Cost Information</u>	<u>Cost</u>
Purchase Cost: \$15,000.00	Current cost of annual repairs:	
Inflation Adjustment (4%/YR) \$600.00	Annual lease/rental cost:	\$8,700.00
Estimated Cost: \$15,600.00	Other O&M Cost:	\$
	ANNUAL O&M COST:	\$8,700.00
<i>Rounded up to 100's</i>		
Total Estimated Cost: <u>\$15,600.00</u>		

CURRENT/PROJECTED COST W/O EQUIPMENT:

PAYBACK

YRS

(Payback is determined by dividing Total Estimated Cost by Annual O&M Cost)

Description of current circumstances that drive this request: *(include age and condition of existing equipment)*

The ventilation fans, louvers, lighting, and fire detector sensors cannot all be accessed with the current Genie articulating man-lift due to the plant design. The fire/smoke detectors located at the west wall of the plant require monthly preventative maintenance (PM) and use of the Genie does not provide access to all the detectors and draft tubes. In addition, the light fixtures in the plant (each weighing 50-60 lbs) have to be removed in order to access those that are accessible. The ones that the Genie cannot reach, the crew has been using ladders which is unsafe. Therefore, performing the monthly PM is inefficient, cumbersome and unsafe.

Description of how this request would change current circumstances:

Purchasing a dedicated man-lift would allow the equipment to be placed directly below each overhead plant components for safe and efficient access to perform necessary inspection and work

Other options considered during evaluation:

Rental: A man-lift can be rented for routine planned work. The cost for a rental is:

Equipment: \$5,700.00 (12 weeks @ \$475.00/week)
 Delivery and Pickup: \$3,000.00 (12@ \$250.00 ea)
 Total Annual Cost: \$8,700.00

Conclusion/Recommendation:

Purchase a dedicated lift for the DCI Plant.

EQUIPMENT PURCHASE JUSTIFICATION FORM

FY20

REQUEST DATE: 9/20/18
PRIORITY CODE: - -

EXPENSE CODE: 5521
BUDGET UNIT: 40/53

Type of Purchase

- New Equipment/Furniture > \$2,500
- Replacement Equipment/Furniture
- Other:

EQUIPMENT DESCRIPTION:

OPP Battery Room Air Condition Unit

GENERAL SPECIFICATIONS:

(See attached information)

<u>ESTIMATED COST (incl taxes, freight)</u>	<u>Current O&M Cost Information</u>	<u>Cost</u>
Purchase Cost: \$5,000.00	Current cost of annual repairs:	
Inflation Adjustment (4%/YR) \$200.00	Annual lease/rental cost:	
Estimated Cost: \$5,200.00	Other O&M Cost:	
	ANNUAL O&M COST:	
<i>Rounded up to 100's</i>		
Total Estimated Cost: \$5,200.00		

CURRENT/PROJECTED COST W/O EQUIPMENT:

PAYBACK

YRS

(Payback is determined by dividing Total Estimated Cost by Annual O&M Cost)

Description of current circumstances that drive this request: *(include age and condition of existing equipment)*

The current air conditioning unit in the O'Neill Plant battery room is over 25 years old and is no longer serviceable. It uses R-12 refrigerant which is very costly and becoming obsolete.

Description of how this request would change current circumstances:

The O'Neill battery room houses both the Station Service batteries as well as the uninterruptable power supply (UPS) batteries. Temperature in the room can reach high levels due to the heat put out by the batteries when in charging condition. Ambient temperature in the room needs to stay at a constant, cool temperature to assure long battery life.

Other options considered during evaluation:

No other viable options.

Conclusion/Recommendation:

**STAFFING JUSTIFICATION FORM
FY 2020**

REQUEST DATE: 9/13/18
PRIORITY CODE: - -

EXPENSE CODE: 5101
BUDGET UNIT:

Type of Purchase

- Materials
- Services
- Other: Request for New Positions

PROJECT DESCRIPTION:
GENERAL SPECIFICATIONS:
(See attached information)

New Position: Custodian
Custodian for LBAO, LBFO, O'Neill Plant

<u>ESTIMATED COST</u>	<u>CURRENT O&M COST INFORMATION</u>
Salary Cost: \$40,769.00 (Max) Benefits, etc.: \$12,408.24 <hr style="width: 50%; margin-left: 0;"/> Estimated Cost: \$53,177.24	Annual Cost for current contractor: \$42,747 : :

Description of current circumstances that drive this request:

The current contracted service for the Los Banos Administration, Los Banos Field Office and O'Neill P/G Plant has been used for 20+ years. The quality of the contractor's work has significantly diminished over the years as well as their reliability; the contractor's schedule changes constantly due to other commitments. Discussions with contractor staff have not yielded long-term positive results. Although the contractor has not requested an increase in pay for years, the Authority has now provided the cleaning supplies and paper products since FY19, which was previously the responsibility of the contractor. Authority staff has also explored other contracting options in the Los Banos area with no success. The Authority experience with in-house staff for janitorial service has been positive. Once contracted services were replaced with a full-time Authority employee for the Tracy Field Office and Jones Pumping Plant, a significant increase in cleaning quality as well as reliability, was immediately noticed.

Description of how this request would change current circumstances:

- Complete control of cleaning schedule/locations
- Complete control of special custodial services such as floor polishing, carpet shampooing, prep for plant tours, tec.

Current Custodian Salary:
Step I - \$34,653.00
Step II - \$36,692.00
Step III - \$40,769.00

Annual cost of current contractor: \$42,747.00

**STAFFING JUSTIFICATION FORM
FY 2020**

REQUEST DATE: 9/21/2018
PRIORITY CODE: - -

EXPENSE CODE: 5101
BUDGET UNIT: 22

Type of Purchase

- | | |
|-------------------------------------|--|
| <input type="checkbox"/> | Materials |
| <input type="checkbox"/> | Services |
| <input checked="" type="checkbox"/> | Other: <u>Request for New Position</u> |

PROJECT DESCRIPTION:
GENERAL SPECIFICATIONS:
(See attached information)

Information Technology Technician
Request adding to the Information Technology staff due to the existing workload.

ESTIMATED COST

Salary Cost:	\$65,000
Benefits, etc.:	\$29,250
Estimated Cost:	\$94,250

CURRENT O&M COST INFORMATION

:
:
:

Description of current circumstances that drive this request:

The Authority currently has one IT staff position. The IT Specialist is responsible for support and maintenance of: the equipment/communications of the Wide Area Network (WAN) and 5 Local Area Networks (LAN), mobile/IOT devices, security/firewall, backup systems, and software systems/databases. The networks consist of 247 devices, 72 end users, 4 critical software systems, five locations, and an exponential rapid growth of files and data. Additionally, the IT Specialist is responsible for upgrade projects of information system equipment; starting with research through implementation. Technology is ever changing, and each change to an information system requires additional configuration to keep all devices compatible and communicating. As technology expands, each area becomes more technical and specialized. Time for training is integral to meet the technology demands. The current volume and diversity of the workload hinders effective management of the information systems by one person. The Authority has reached a point where the deferred upgrades have affected employee productivity.

Description of how this request would change current circumstances:

The IT Technician can handle the routine and daily responsibilities, respond to users, address network issues, implement management tools, and assist the IT Specialist. The IT Specialist can focus on the critical technical areas of the WAN/LANs, security challenges (cyber/site), governance/policies, and projects. With two IT positions, when emergencies or urgent requests occur, other requests can still be addressed. The Authority is entering a phase of re-evaluating workflow processes. When technology can improve a process, the IT team can assist and support the departments in implementing information systems to achieve their goals. Technology will take the Authority to the next level and keep it a thriving organization, and the appropriate level of staff is required to get there.

**STAFFING JUSTIFICATION FORM
FY 2020**

REQUEST DATE: 9/20/18
PRIORITY CODE: - -

EXPENSE CODE: 5101
BUDGET UNIT: 40/40

Type of Purchase

- | | |
|-------------------------------------|---|
| <input type="checkbox"/> | Materials |
| <input type="checkbox"/> | Services |
| <input checked="" type="checkbox"/> | Other: <u>Request for New Positions</u> |

PROJECT DESCRIPTION:
GENERAL SPECIFICATIONS:
(See attached information)

New Positions: Apprentice Control Operator-Step 1

<u>ESTIMATED COST</u>	<u>CURRENT O&M COST INFORMATION</u>
Salary Cost: \$61,679.34	:
Benefits, etc.: \$17,315.59	:
Estimated Cost: \$78,994.93	:

Description of current circumstances that drive this request:

The vacant Control Operator position was transferred to a Hydro Tech III position during FY 2019 to provide immediate support for the SGMA Activity Agreement effort associated with the extensive well monitoring effort. There is currently an impending retirement of one of the current Control Operators with over 20-year experience within the next four to five years.

Description of how this request would change current circumstances:

The Authority has experienced difficulty recruiting for journeyman level Operators but have had excellent experience with hiring entry level employees and providing the apprentice training program to develop well qualified Operators specific to our facilities. Hiring an Apprentice Control Operator in FY 2020 will allow that Apprentice sufficient time to complete the apprenticeship program (three years) and gain the valuable knowledge from the current Control Operations staff in time for the impending retirement.

San Luis & Delta-Mendota Water Authority

Extra-Ordinary Operations and Maintenance Budget

FY2020/2021

FY 2020 PROJECTS

Project Type: MAINTENANCE

<u>Project #</u>	<u>Fac</u>	<u>Project Title</u>	<u>Acct Code</u>	<u>Type</u>	<u>Priority</u>	<u>Labor</u>	<u>Materials</u>	<u>Equip.</u>	<u>Contract</u>	<u>Total</u>
M2019006	DCI	Fire Protection System Assessment & Modernization	H3	M	B-2-b	\$7,000	\$0	\$0	\$35,000	\$42,000
M2015004	JPP	Fire Protection System Assessment & Modernization	H4	M	B-2-b	\$7,800	\$0	\$0	\$75,000	\$82,800
M2015005	ONP	Fire Protection System Assessment & Modernization	H5	M	B-2-b	\$8,900	\$0	\$0	\$75,000	\$83,900
E2020001	JPP	Unit Rewind (Rotor & Stator) (Unit 2 Labor Only)	H2	M	B-3-b	\$686,000	\$0	\$0	\$0	\$686,000
M2015002	JPP	Domestic Water Treatment Plant Replacement	H0	M	B-3-c	\$158,600	\$0	\$0	\$160,000	\$318,600
C1997002	DMC	O&M Road Maintenance Program - Phase 9 of 10	E6	M	B-4-b	\$40,300	\$0	\$0	\$125,000	\$165,300
V1999001	ALL	Heavy Equipment Replacement Program (Reserve Fund)	D2	M	B-5-b	\$0	\$0	\$0	\$927,000	\$927,000
V1999002	ALL	Vehicle Replacement (Reserve Fund)	D1	M	B-6-c	\$0	\$0	\$0	\$161,800	\$161,800
C2011001	ALL	Facility Infrastructure Replacement/Rehabilitation Program	D3	M	B-7-c	\$0	\$0	\$0	\$137,000	\$137,000
E2000004	ALL	Replace Computer/Network Communication Equip (Reserve Fund)	D0	M	C-6-b	\$0	\$79,050	\$0	\$0	\$79,050
MAINTENANCE PROJECT TOTALS						\$908,600	\$79,050	\$0	\$1,695,800	\$2,683,450

Project Type: SPECIAL FUNDED PROJECT

<u>Project #</u>	<u>Fac</u>	<u>Project Title</u>	<u>Acct Code</u>	<u>Type</u>	<u>Priority</u>	<u>Labor</u>	<u>Materials</u>	<u>Equip.</u>	<u>Contract</u>	<u>Total</u>
E1999001	JPP	Unit 2 Rewind - Phase 3 (USBR Funds)	F4	RX	B-3-a	\$0	\$2,100	\$9,100	\$5,202,000	\$5,213,200
SPECIAL FUNDED PROJECT TOTALS						\$0	\$2,100	\$9,100	\$5,202,000	\$5,213,200
FY 2020 SUBTOTAL						\$908,600	\$81,150	\$9,100	\$6,897,800	\$7,896,650

FY 2021 PROJECTS

Project Type: MAINTENANCE

<u>Project #</u>	<u>Fac</u>	<u>Project Title</u>	<u>Acct Code</u>	<u>Type</u>	<u>Priority</u>	<u>Labor</u>	<u>Materials</u>	<u>Equip.</u>	<u>Contract</u>	<u>Total</u>
E2015002	ONP	Arc Flash Study - OPP	F7	M	A-1-b	\$48,300	\$0	\$0	\$50,000	\$98,300
E2020001	JPP	Unit Rewind (Rotor & Stator) (Unit 1 Labor Only)	H2	M	B-3-b	\$711,400	\$0	\$0	\$0	\$711,400
M2012004	ONP	Rehabilitate Penstock Interior Coating	E4	M	B-3-b	\$226,100	\$50,300	\$0	\$438,300	\$714,700
M2015006	ONP	Rehabilitate Pump Assemblies - Phase 5	E2	M	B-3-b	\$782,300	\$56,800	\$25,000	\$429,200	\$1,293,300
E1995005	ONP	Main Transformer Rehabilitation - Phase 1	G3	M	B-3-c	\$62,200	\$0	\$0	\$178,400	\$240,600
C1997002	DMC	O&M Road Maintenance Program - Phase 10 of 10	E6	M	B-4-b	\$33,600	\$0	\$0	\$125,000	\$158,600
V1999001	ALL	Heavy Equipment Replacement Program (Reserve Fund)	D2	M	B-5-b	\$0	\$0	\$0	\$622,200	\$622,200
V1999002	ALL	Vehicle Replacement (Reserve Fund)	D1	M	B-6-c	\$0	\$0	\$0	\$306,700	\$306,700
C2011001	ALL	Facility Infrastructure Replacement/Rehabilitation Program	D3	M	B-7-c	\$0	\$0	\$0	\$55,000	\$55,000
C2006001	DMC	DMC Conveyance Capacity Test	I1	M	C-4-c	\$116,700	\$12,000	\$0	\$1,500	\$130,200
E2014006	JPP	SCADA System Modernization - Phase 1	I2	M	C-4-c	\$47,200	\$140,000	\$0	\$0	\$187,200
E2000004	ALL	Replace Computer/Network Communication Equip (Reserve Fund)	D0	M	C-6-b	\$0	\$87,600	\$0	\$0	\$87,600
MAINTENANCE PROJECT TOTALS						\$2,027,800	\$346,700	\$25,000	\$2,206,300	\$4,605,800

Project Type: SPECIAL FUNDED PROJECT

<u>Project #</u>	<u>Fac</u>	<u>Project Title</u>	<u>Acct Code</u>	<u>Type</u>	<u>Priority</u>	<u>Labor</u>	<u>Materials</u>	<u>Equip.</u>	<u>Contract</u>	<u>Total</u>
E1999001	JPP	Unit 1 Rewind - Phase 4 (USBR Funds)	F4	RX	B-3-a	\$0	\$2,200	\$9,400	\$5,363,600	\$5,375,200
SPECIAL FUNDED PROJECT TOTALS						\$0	\$2,200	\$9,400	\$5,363,600	\$5,375,200
FY 2021 SUBTOTAL						\$2,027,800	\$348,900	\$34,400	\$7,569,900	\$9,981,000

SL&DMWA 10 Year Plan (EO&M and USBR RAX Projects)

DRAFT

EO&M #	Project Title	Code	Facility	Priority	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
EXTRAORDINARY MAINTENANCE PROJECTS														
<i>Estimated Project Cost (x \$1,000)</i>														
M2015004	Fire Protection System Assessment & Modernization	H4	JPP	B-2-b	82.8									
M2015005	Fire Protection System Assessment & Modernization	H5	ONP	B-2-b	83.9									
M2019006	Fire Protection System Assessment & Modernization	H3	DCI	B-2-b	42.0									
E2020001	Unit Rewind (Rotor & Stator) (Units 1 - 5 Labor Only)	H2	JPP	B-3-b	686.0	711.4	733.0	755.0	777.0					
M2015002	TFO Domestic Water Treatment Plant Replacement	H0	JPP	B-3-c	318.6									
C1997002	O&M Road Maintenance Program	E6	DMC	B-4-b	165.3	158.6	163.0	168.0	173.0	179.0	184.0	189.0	195.0	201.0
V1999001	Heavy Equipment Replacement Program (Reserve Fund)	D2	ALL	B-5-b	927.0	622.2	413.6	477.2	345.2	71.6		202.7	335.3	
V1999002	Vehicle Replacement Program (Reserve Fund)	D1	ALL	B-6-c	161.8	306.7	33.9	107.1	81.3	180.4	43.1	91.4	88.8	19.1
C2011001	Facility Infrastructure Replacement/Rehabilitation Program	D3	ALL	B-7-c	137.0	55.0	214.0	52.0	149.0	92.0	76.0	33.0	114.0	122.0
E2000004	Replace Computer/Network Comm Equip (Reserve Fund)	D0	ALL	C-6-b	79.1	87.6	128.9	109.5	66.3	81.4	70.9	141.4	91.2	41.6
E2015002	Arc Flash Study - OPP	F7	ONP	A-1-b		98.3					114.0			
M2012004	Rehabilitate Penstocks Interior Coating	E4	ONP	B-3-b		714.7	736.1	758.2						
M2015006	Rehabilitate Pump Assemblies Program	E2	ONP	B-3-b		1,293.3	1,332.2	1,372.2	1,413.3					
E1995005	Main Transformer Rehabilitation	G3	ONP	B-3-c		240.6	247.8	255.3	269.9					
C2006001	DMC Conveyance Capacity Test	I1	DMC	C-4-c		130.2								
E2014006	SCADA System Modernization	I2	JPP	C-4-c		187.2	192.8							
E2015001	TFO Arc Flash Study - TFO & LBFO Facilities	E1	JPP	A-1-b			38.4					42.0		
E2019020	Arc Flash Study - DCI		DCI	A-1-b			40.0					44.0		
E2016001	WECC Testing by USBR Denver Office	E3	ONP	B-3-b			70.5					82.0		
M2016001	Purchase Wear Rings for Pumps		JPP	B-3-c			300.1							
E2015003	Arc Flash Study - JPP	F8	JPP	A-1-b				105.0					116.0	
C2015001	Concrete Lining Repair (MP92 to MP97)	F0	DMC	B-3-b				325.0	331.0					
M2015003	Rehabilitate Coating on Pump Casings & Bifurcation		JPP	B-3-c				100.0	102.0	104.0				
C2019004	TFO O&M Complex Pavement Rehabilitation		JPP	B-4-b				250.0						
M2019031	Design & Install Jacking Pump System		ONP	B-5-d				125.0						
E2019030	Plant Security System Improvements		ONP	C-5-d				81.0						
E2009003	Protective Relay/Control Panel/SCADA Modernization	G1	ONP	- -										
E2009003	Protective Relay/Control Panel/SCADA Modernization	G1	ONP	B-2-b					227.0	232.0				
M1994022	ONP Cooling Water System Rehabilitation		ONP	B-2-b					250.0					
C2020001	Canal Modifications due to Subsidence (Labor Only)		DMC	B-3-c					15.0		100.0	100.0		
E2020002	Excitation System & Control Modernization (Labor Only)		JPP	B-3-c					175.0	100.0	100.0	100.0	100.0	100.0
C2017003	Turnout Trashrack Fabrication Contract		DMC	B-4-c					200.0					
M2019010	Install New Pump Bowl Access Openings on Unit 1		ONP	A-1-b						500.0				
E2019028	Station Service Backup Battery System Replacement		ONP	B-2-c						110.0				
C1996012	Intake Channel Embankment Stabilization		DMC	B-3-b						300.0				
C2015004	DMC 5 Yr Subsidence Survey	H1	DMC	B-3-c						83.0				
E2019003	Check Electrical Equipment Rehabilitation		DMC	B-4-c						84.0				
M2019028	Plant Flowmetering System Rehabilitation		JPP	B-4-c						250.0				
M2019037	Plant Water Storage Tank Rehabilitation		ONP	B-4-c						150.0				
M2019045	Stub Shaft Crane Rehabilitation		JPP	B-4-c						40.0				
M2019001	O'Neill PP Bridge Crane Rehabilitation		ONP	B-5-c						113.0				
M2019044	Machine Shop Crane Rehabilitation		JPP	B-5-c						50.0				
M2019049	Trashrack Replacement (SLDMWA FAB & CONTRACT BLST&P)		ONP	B-5-c						50.0	51.0			

SL&DMWA 10 Year Plan (EO&M and USBR RAX Projects)

DRAFT

EO&M #	Project Title	Code	Facility	Priority	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
E2020003	Station Service & Dist. Equip. Replacement (Labor Only)		JPP	A-3-c							200.0		100.0	100.0
M2019022	HVAC System Rehabilitation/Replacement		JPP	B-4-b							400.0			
E2019012	UPS Battery Charging System Replacement		ONP	B-4-c							100.0			
C2009003	Wasteway Capacity Restoration		DMC	C-5-c							75.0		250.0	255.0
E2019024	Station Service Backup Battery System Replacement		JPP	B-2-c								115.0		
E2009004	UPS Battery Replacement		JPP	B-4-b								88.0		
E2019002	SCADA & Communication System Improvements		DCI	B-4-c								88.0		
M2019005	HVAC System Rehabilitation/Replacement		DCI	B-4-c								75.0		
M2019016	Siphon Breaker Valve Control System Rehabilitation		JPP	B-4-c								100.0		
C2019005	Penstock/Manifold Interior Coating Rehabilitation		DCI	B-5-b								150.0		
E2019004	Penstock Cathodic Protection System Replacement		DCI	B-5-b								88.0		
M2019014	Stoplog Rehabilitation		JPP	B-5-b								250.0		
M2019009	Flowmetering Improvements		DCI	B-5-c								100.0		
M2019026	Stoplog Rehabilitation (Lakeside)		ONP	B-5-c								75.0		
M2017001	OPP Shaft Sleeve Manufacturing	F3	ONP	B-4-c									102.0	
C2020002	Replace Althea Ave Bridge (Labor Only)		DMC	B-5-c									25.0	75.0
E2019025	Plant Security System Upgrades		JPP	B-5-c									75.0	
M2019032	Trashrack Cleaner & Stoplog Crane Rehabilitation		ONP	B-5-c									200.0	
C2016001	DMC Road Rehabilitation	G2	DMC	B-4-b										391.0
M2019025	100 Ton Gantry Crane Rehabilitation		JPP	B-4-c										300.0
M2019043	HVAC System Rehabilitation/Replacement		ONP	B-4-c										100.0
E2019010	Plant Flowmeter System Rehabilitation		ONP	B-5-c										244.0
M2019033	Plant Roof Surface Replacement		ONP	B-7-c										100.0
FY TOTALS (x \$1,000):					\$2,683.5	\$4,605.8	\$4,644.2	\$5,040.5	\$4,575.0	\$2,770.4	\$1,514.0	\$2,154.5	\$1,792.3	\$2,048.7
PROJECTS SEEKING OUTSIDE FUNDING					<i>Estimated Project Cost (x \$1,000)</i>									
E1999001	Unit Rewinds (Rotor & Stator) All Units	F4	JPP	B-3-a	5,213.2	5,375.2	5,525.0	5,690.0	10,000.0					
C2015003	Canal Modification Due to Subsidence		DMC	B-3-c					200.0		1,723.0	1,757.0		
E2009005	JPP Excitation Cabinet & Control Panel Refurbishment	F9	JPP	B-3-c					1,245.2	914.3	939.7	967.9	997.0	1,026.9
E2019005	Station Service SWBD & Breaker Replacement		JPP	B-2-b							250.0		2,500.0	2,575.0
C2015006	Replace DMC Althea Ave Bridge		DMC	B-4-c									1,500.0	1,545.0
FY TOTALS (x \$1,000):					\$5,213.2	\$5,375.2	\$5,525.0	\$5,690.0	\$11,445.2	\$914.3	\$2,912.7	\$2,724.9	\$4,997.0	\$5,146.9
TOTALS:					\$7,896.7	\$9,981.0	\$10,169.2	\$10,730.5	\$16,020.2	\$3,684.7	\$4,426.7	\$4,879.4	\$6,789.3	\$7,195.5
10 Year Plan Grand Total (x\$1,000): \$81,773.0														

\$21,500.9

FY2020

Extraordinary O&M Projects

Information

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: M2019006

Project Code: H3-2020

Priority: B-2-b

Facility: DCI

Project Title: Fire Protection System Assessment & Modernization

Estimated Total Cost: \$42,000.00

IN-HOUSE COSTS: ***Labor:*** \$7,000.00 ***Materials:*** \$0.00 ***Equipment:*** \$0.00

CONTRACT COSTS: \$35,000.00

Project Description and Scope:

The SLDMWA will procure engineering services to provide fire and life safety assessments at the Delta-Mendota Canal/California Aqueduct Intertie Pumping Plant (DCI) and support facilities. The consultant will perform a physical walk through the DCI and support facilities to perform a fire protection and life safety gap analysis between existing facility conditions and the provisions of the following applicable codes:

2016 California Building Standards Code (Title 24, California Code of Regulations)
2015 NFPA 12, Standard on Carbon Dioxide Extinguishing Systems
2014 NFPA 70, National Electric Code
2013 NFPA 72, National Fire Alarm Code with amendments
2015 NFPA 101, Life Safety Code
2015 NFPA 850, Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations.

The consultant will provide an assessment and based on documented findings will provide recommendations and cost estimate to modernize the facilities inspected to meet the intent of current codes noted above. The assessment will focus on these objectives:

1. Life Safety
2. Property Protection
3. Business Interruption
4. Environmental Impact

Project Purpose and Background:

During Reclamation's ONP RO&M Examination in 2018, they expressed concerns with the ONP fire protection system and recommended a licensed professional fire protection engineer evaluate the existing fire protection system installation and make modifications based on their recommendations. The SLDMWA staff recommends the same evaluation/assessment be performed at the JPP and its support facilities to confirm it is compliant with the intent of the current codes. This assessment is similar to what the Department of Water Resources has recently performed on each of its facilities to ensure a fire similar to the Thermalito Plant fire does not occur.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

M2019006 DCI Fire Protection System Assessment

Total Fully Burdened Labor Cost	\$ 7,000.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 35,000.00
	<hr/>
Project Grand Total	\$ 42,000.00

Date Proposal Completed: 7/23/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
M2019006 DCI Fire Protection System Assessment (FY2020)
EO&M Project Cost Summary

FY2020 M2019006 DCI Fire Protection System Assessment	FY20 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY20 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -
Apprentice Plant Mechanic	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -
C&I Technician	\$ 130.12	\$ 135.80	0	1	1	0	0	\$ -	\$ -	\$ -
Canal Operator	\$ 77.27	\$ 72.21	0	1	1	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 139.67	\$ 147.28	0	1	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Electrician	\$ 127.22	\$ 132.31	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Civil -Associate	\$ 143.38	\$ 151.75	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Engineer, Civil Assistant	\$ 115.40	\$ 115.51	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 94.00	\$ 92.34	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Electrical - Associate	\$ 143.38	\$ 151.75	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Engineer, Mechanical - Associate	\$ 143.38	\$ 151.75	27	1	1	27	0	\$ 3,871.26	\$ -	\$ 3,871.26
Equipment Operator	\$ 89.67	\$ 87.13	0	1	1	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 80.51	\$ 76.11	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 83.84	\$ 80.11	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 98.32	\$ 97.53	0	1	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 143.38	\$ -	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Maintenance Supt., Civil	\$ 113.71	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 82.90	\$ 78.98	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 90.46	\$ 88.07	0	1	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 162.79	\$ -	8	1	1	8	0	\$ 1,302.32	\$ -	\$ 1,302.32
Manager, Operations & Maintenance	\$ 167.29	\$ -	2	1	1	2	0	\$ 334.58	\$ -	\$ 334.58
Planner, Civil Maintenance	\$ 91.03	\$ 88.78	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 116.83	\$ 119.80	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 127.22	\$ 132.31	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. Foreman, HE	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Project Coordinator	\$ 96.94	\$ 95.87	0	1	1	0	0	\$ -	\$ -	\$ -
SCADA Engineer	\$ 141.80	\$ 146.59	2	1	1	2	0	\$ 283.60	\$ -	\$ 283.60
Water Operations Superintendent	\$ 110.82	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 154.60	\$ -	2	1	1	2	0	\$ 309.20	\$ -	\$ 309.20
Engineer, Plant	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Hour Totals:						47	0	Sum of Overtime Cost		\$ -
								Sum of Regular Time Cost		\$ 6,961.24
								Tot Fully Burdened Labor Cost		\$ 6,961.24
								Materials		\$ -
								Vehicles & Equipment		\$ -
								Contracts		\$ 35,000.00
								Step Total		\$ 41,961.24

San Luis & Delta-Mendota Water Authority
M2019006 DCI Fire Protection System Assessment (FY2020)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Fire Protection Consultant	1	LS	\$ 35,000	\$ 35,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 35,000.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: M2015004

Project Code: H4-2020

Priority: B-2-b

Facility: JPP

Project Title: Fire Protection System Assessment & Modernization

Estimated Total Cost: \$82,800.00

IN-HOUSE COSTS: *Labor:* \$7,800.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$75,000.00

Project Description and Scope:

The SLDMWA will procure engineering services to provide fire and life safety assessments at the Jones Pumping Plant (JPP) and support facilities. The consultant will perform a physical walk through the JPP and support facilities to perform a fire protection and life safety gap analysis between existing facility conditions and the provisions of the following applicable codes:

- 2016 California Building Standards Code (Title 24, California Code of Regulations)
- 2015 NFPA 12, Standard on Carbon Dioxide Extinguishing Systems
- 2014 NFPA 70, National Electric Code
- 2013 NFPA 72, National Fire Alarm Code with amendments
- 2015 NFPA 101, Life Safety Code
- 2015 NFPA 850, Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations.

The consultant will provide an assessment and based on documented findings will provide recommendations and cost estimate to modernize the facilities inspected to meet the intent of current codes noted above. The assessment will focus on these objectives:

1. Life Safety
2. Property Protection
3. Business Interruption
4. Environmental Impact

Project Purpose and Background:

During Reclamation's ONP RO&M Examination in 2018, they expressed concerns with the ONP fire protection system and recommended a licensed professional fire protection engineer evaluate the existing fire protection system installation and make modifications based on their recommendations. The SLDMWA staff recommends the same evaluation/assessment be performed at the JPP and its support facilities to confirm it is compliant with the intent of the current codes. This assessment is similar to what the Department of Water Resources has recently performed on each of its facilities to ensure a fire similar to the Thermalito Plant fire does not occur.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

M2015004 JPP Fire Protection System Assessment

Total Fully Burdened Labor Cost	\$ 7,800.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 75,000.00
	<hr/>
Project Grand Total	\$ 82,800.00

Date Proposal Completed: 7/24/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
M2015004 JPP Fire Protection System Assessment (FY2020)
EO&M Project Cost Summary

FY2020 M2015004 JPP Fire Protection System Assessment	FY20 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY20 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -
Apprentice Plant Mechanic	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -
C&I Technician	\$ 130.12	\$ 135.80	0	1	1	0	0	\$ -	\$ -	\$ -
Canal Operator	\$ 77.27	\$ 72.21	0	1	1	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 139.67	\$ 147.28	0	1	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 141.92	\$ 150.00	4	1	1	4	0	\$ 567.68	\$ -	\$ 567.68
Electrician	\$ 127.22	\$ 132.31	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Civil -Associate	\$ 143.38	\$ 151.75	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Engineer, Civil Assistant	\$ 115.40	\$ 115.51	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 94.00	\$ 92.34	2	1	1	2	0	\$ 188.00	\$ -	\$ 188.00
Engineer, Electrical - Associate	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 143.38	\$ 151.75	27	1	1	27	0	\$ 3,871.26	\$ -	\$ 3,871.26
Equipment Operator	\$ 89.67	\$ 87.13	0	1	1	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 80.51	\$ 76.11	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 83.84	\$ 80.11	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 98.32	\$ 97.53	0	1	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 143.38	\$ -	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Maintenance Supt., Civil	\$ 113.71	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 82.90	\$ 78.98	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 90.46	\$ 88.07	0	1	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 162.79	\$ -	8	1	1	8	0	\$ 1,302.32	\$ -	\$ 1,302.32
Manager, Operations & Maintenance	\$ 167.29	\$ -	2	1	1	2	0	\$ 334.58	\$ -	\$ 334.58
Planner, Civil Maintenance	\$ 91.03	\$ 88.78	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 116.83	\$ 119.80	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 127.22	\$ 132.31	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. Foreman, HE	\$ 141.92	\$ 150.00	4	1	1	4	0	\$ 567.68	\$ -	\$ 567.68
Project Coordinator	\$ 96.94	\$ 95.87	0	1	1	0	0	\$ -	\$ -	\$ -
SCADA Engineer	\$ 141.80	\$ 146.59	0	1	1	0	0	\$ -	\$ -	\$ -
Water Operations Superintendent	\$ 110.82	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 154.60	\$ -	2	1	1	2	0	\$ 309.20	\$ -	\$ 309.20
Engineer, Plant	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Hour Totals:						53	0	Sum of Overtime Cost		\$ -
								Sum of Regular Time Cost		\$ 7,714.24
								Tot Fully Burdened Labor Cost		\$ 7,714.24
								Materials		\$ -
								Vehicles & Equipment		\$ -
								Contracts		\$ 75,000.00
								Step Total		\$ 82,714.24

San Luis & Delta-Mendota Water Authority
M2015004 JPP Fire Protection System Assessment (FY2020)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Fire Protection Consultant	1	LS	\$ 75,000	\$ 75,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 75,000.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: M2015005

Project Code: H5-2020

Priority: B-2-b

Facility: ONP

Project Title: Fire Protection System Assessment & Modernization

Estimated Total Cost: \$83,900.00

IN-HOUSE COSTS: *Labor:* \$8,900.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$75,000.00

Project Description and Scope:

The SLDMWA will procure engineering services to provide fire and life safety assessments at the O'Neill Pumping/Generating Plant (ONP) and support facilities. The consultant will perform a physical walk through the ONP and support facilities to perform a fire protection and life safety gap analysis between existing facility conditions and the provisions of the following applicable codes:

- 2016 California Building Standards Code (Title 24, California Code of Regulations)
- 2015 NFPA 12, Standard on Carbon Dioxide Extinguishing Systems
- 2014 NFPA 70, National Electric Code
- 2013 NFPA 72, National Fire Alarm Code with amendments
- 2015 NFPA 101, Life Safety Code
- 2015 NFPA 850, Recommended Practice for Fire Protection for Electric Generating Plants and High Voltage Direct Current Converter Stations.

The consultant will provide an assessment and based on documented findings will provide recommendations and cost estimate to modernize the facilities inspected to meet the intent of current codes noted above. The assessment will focus on these objectives:

1. Life Safety
2. Property Protection
3. Business Interruption
4. Environmental Impact

Project Purpose and Background:

During the 2018 ONP RO&M Exam, Reclamation expressed concerns with the existing fire protection system. As a result, a category 2 recommendation was issued. Recommendation No. 2018-2-C states the following: "Obtain services of licensed professional fire protection engineer, or approved equivalent, to review and approve the on-going fire protection system installation and modify installation accordingly to his/her recommendations" In addition, the SLDMWA staff recommends the assessment include an evaluation of the plant and its support facilities to confirm it is compliant with the intent of the current codes. This assessment is similar to what the Department of Water Resources has recently performed on each of its facilities to ensure a fire similar to the Thermalito Plant fire does not occur.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

M2015005 OPP Fire Protection System Assessment

Total Fully Burdened Labor Cost	\$ 8,900.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 75,000.00
	<hr/>
Project Grand Total	\$ 83,900.00

Date Proposal Completed: 7/24/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
M2015005 OPP Fire Protection System Assessment (FY2020)
EO&M Project Cost Summary

FY2020 M2015005 OPP Fire Protection System Assessment	FY20 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY20 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -
Apprentice Plant Mechanic	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -
C&I Technician	\$ 130.12	\$ 135.80	0	1	1	0	0	\$ -	\$ -	\$ -
Canal Operator	\$ 77.27	\$ 72.21	0	1	1	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 139.67	\$ 147.28	0	1	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Electrician	\$ 127.22	\$ 132.31	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Civil -Associate	\$ 143.38	\$ 151.75	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Engineer, Civil Assistant	\$ 115.40	\$ 115.51	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 94.00	\$ 92.34	2	1	1	2	0	\$ 188.00	\$ -	\$ 188.00
Engineer, Electrical - Associate	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 143.38	\$ 151.75	27	1	1	27	0	\$ 3,871.26	\$ -	\$ 3,871.26
Equipment Operator	\$ 89.67	\$ 87.13	0	1	1	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 141.92	\$ 150.00	16	1	1	16	0	\$ 2,270.72	\$ -	\$ 2,270.72
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 80.51	\$ 76.11	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 83.84	\$ 80.11	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 98.32	\$ 97.53	0	1	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 143.38	\$ -	2	1	1	2	0	\$ 286.76	\$ -	\$ 286.76
Maintenance Supt., Civil	\$ 113.71	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 82.90	\$ 78.98	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 90.46	\$ 88.07	0	1	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 162.79	\$ -	8	1	1	8	0	\$ 1,302.32	\$ -	\$ 1,302.32
Manager, Operations & Maintenance	\$ 167.29	\$ -	2	1	1	2	0	\$ 334.58	\$ -	\$ 334.58
Planner, Civil Maintenance	\$ 91.03	\$ 88.78	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 116.83	\$ 119.80	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 127.22	\$ 132.31	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. Foreman, HE	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Project Coordinator	\$ 96.94	\$ 95.87	0	1	1	0	0	\$ -	\$ -	\$ -
SCADA Engineer	\$ 141.80	\$ 146.59	0	1	1	0	0	\$ -	\$ -	\$ -
Water Operations Superintendent	\$ 110.82	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 154.60	\$ -	2	1	1	2	0	\$ 309.20	\$ -	\$ 309.20
Engineer, Plant	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Hour Totals:						61	0	Sum of Overtime Cost		\$ -
								Sum of Regular Time Cost		\$ 8,849.60
								Tot Fully Burdened Labor Cost		\$ 8,849.60
								Materials		\$ -
								Vehicles & Equipment		\$ -
								Contracts		\$ 75,000.00
								Step Total		\$ 83,849.60

San Luis & Delta-Mendota Water Authority
M2015005 OPP Fire Protection System Assessment (FY2020)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Fire Protection Consultant	1	LS	\$ 75,000	\$ 75,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 75,000.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: E2020001

Project Code: H2-2020

Priority: B-3-b

Facility: JPP

Project Title: Unit Rewind (Rotor & Stator) (Unit 2 Labor Only)

Estimated Total Cost: \$686,000.00

IN-HOUSE COSTS: ***Labor:*** \$686,000.00 ***Materials:*** \$0.00 ***Equipment:*** \$0.00

CONTRACT COSTS: \$0.00

Project Description and Scope:

The SLDMWA labor required to support this project is associated with the following activities: project management, unit disassembly, shaft centerline verification, 100T gantry crane support for contractor, unit assembly, shaft alignment and performance testing.

Project Purpose and Background:

Since SLDMWA will be financing the project, to reduce the overall loan amount, the labor SLDMWA labor cost is separated from all other costs.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

E2020001 - JPP Unit No. 2 Rewind Project (LABOR ONLY)

Total Fully Burdened Labor Cost	\$ 686,000.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ -
	<hr/>
Project Grand Total	\$ <u>686,000.00</u>

Date Proposal Completed: 8/14/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
E2020001 JPP Unit No 2 Rewind (FY2020) LABOR ONLY
EO&M Project Cost Summary**

FY2020 E2020001 - JPP Unit No. 2 Rewind Project (LABOR ONLY)	FY20 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY20 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 116.23	\$ 119.08	200	1	1	200	40	\$ 23,246.00	\$ 4,763.20	\$ 28,009.20
Apprentice Plant Mechanic	\$ 116.23	\$ 119.08	700	1	1	700	80	\$ 81,361.00	\$ 9,526.40	\$ 90,887.40
C&I Technician	\$ 130.12	\$ 135.80	600	1	1	600	60	\$ 78,072.00	\$ 8,148.00	\$ 86,220.00
Canal Operator	\$ 77.27	\$ 72.21	0	1	1	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 139.67	\$ 147.28	0	1	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 141.92	\$ 150.00	300	1	1	300	40	\$ 42,576.00	\$ 6,000.00	\$ 48,576.00
Electrician	\$ 127.22	\$ 132.31	960	1	1	960	160	\$ 122,131.20	\$ 21,169.60	\$ 143,300.80
Engineer, Civil -Associate	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Civil Assistant	\$ 115.40	\$ 115.51	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 94.00	\$ 92.34	250	1	1	250	0	\$ 23,500.00	\$ -	\$ 23,500.00
Engineer, Electrical - Associate	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 143.38	\$ 151.75	160	1	1	160	0	\$ 22,940.80	\$ -	\$ 22,940.80
Equipment Operator	\$ 89.67	\$ 87.13	0	1	1	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 80.51	\$ 76.11	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 83.84	\$ 80.11	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 98.32	\$ 97.53	0	1	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 143.38	\$ -	50	1	1	50	0	\$ 7,169.00	\$ -	\$ 7,169.00
Maintenance Supt., Civil	\$ 113.71	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 82.90	\$ 78.98	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 90.46	\$ 88.07	0	1	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 162.79	\$ -	216	1	1	216	0	\$ 35,162.64	\$ -	\$ 35,162.64
Manager, Operations & Maintenance	\$ 167.29	\$ -	80	1	1	80	0	\$ 13,383.20	\$ -	\$ 13,383.20
Planner, Civil Maintenance	\$ 91.03	\$ 88.78	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 116.83	\$ 119.80	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 127.22	\$ 132.31	1200	1	1	1200	120	\$ 152,664.00	\$ 15,877.20	\$ 168,541.20
Plant Mech. Foreman, HE	\$ 141.92	\$ 150.00	120	1	1	120	8	\$ 17,030.40	\$ 1,200.00	\$ 18,230.40
Project Coordinator	\$ 96.94	\$ 95.87	0	1	1	0	0	\$ -	\$ -	\$ -
SCADA Engineer	\$ 141.80	\$ 146.59	0	1	1	0	0	\$ -	\$ -	\$ -
Water Operations Superintendent	\$ 110.82	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 154.60	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Plant	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -

Hour Totals: 4836 508

Sum of Overtime Cost	\$ 66,684.40
Sum of Regular Time Cost	\$ 619,236.24
Tot Fully Burdened Labor Cost	\$ 685,920.64
Materials	\$ -
Vehicles & Equipment	\$ -
Contracts	\$ -
Step Total	\$ 685,920.64

Note: Shaft alignment labor included in estimate

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: M2015002

Project Code: H0-2020

Priority: B-3-c

Facility: JPP

Project Title: Domestic Water Treatment Plant Replacement

Estimated Total Cost: \$318,600.00

IN-HOUSE COSTS: *Labor:* \$158,600.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$160,000.00

Project Description and Scope:

The replacement includes the purchase of (2), standalone, Ultra-filtration membrane water treatment units with pre-treatment that is in compliance with Department of Health Services regulations.

Project Purpose and Background:

The current Tracy Maintenance Facility water treatment plant was installed in 1996. The units are at the end of their useful life and the approved membranes for this type of treatment application has been reduced to one manufacturer and type. Due to changes in the way the membrane are built lower production numbers have become the norm and the current pre-treatment process has caused the premature failure of these membranes. New membranes, which cost around \$13,500 for both units, should have a life span of 5 years or more, but we have noticed these membranes are failing after less than one year of service time. Given the age of the units, a single type of replacement membrane and the State Water Resources Control Board's requirement that we produce drinkable water complete replacement is required.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

M2015002 Domestic Water Treatment Plant Replacement

Total Fully Burdened Labor Cost	\$ 158,600.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 160,000.00
	<hr/>
Project Grand Total	\$ 318,600.00

Date Proposal Completed: 10/3/2018_BM & AS

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
M2015002 Domestic Water Treatment Plant Replacement (FY2020)
EO&M Project Cost Summary

FY2020 M2015002 Domestic Water Treatment Plant Replacement	FY20 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY20 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost	
	A	B	C	D	E	F	G	H	I	J	
						C x D x E		=A x F	=B x G	= sum H + I	
Apprentice Electrician	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -	
Apprentice Plant Mechanic	\$ 116.23	\$ 119.08	0	1	1	0	0	\$ -	\$ -	\$ -	
C&I Technician	\$ 130.12	\$ 135.80	80	1	1	80	0	\$ 10,409.60	\$ -	\$ 10,409.60	
Canal Operator	\$ 77.27	\$ 72.21	0	1	1	0	0	\$ -	\$ -	\$ -	
Control Operator	\$ 139.67	\$ 147.28	0	1	1	0	0	\$ -	\$ -	\$ -	
Electrical Foreman	\$ 141.92	\$ 150.00	8	1	1	8	0	\$ 1,135.36	\$ -	\$ 1,135.36	
Electrician	\$ 127.22	\$ 132.31	48	1	1	48	0	\$ 6,106.56	\$ -	\$ 6,106.56	
Engineer, Civil -Associate	\$ 143.38	\$ 151.75	18	1	1	18	0	\$ 2,580.84	\$ -	\$ 2,580.84	
Engineer, Civil Assistant	\$ 115.40	\$ 115.51	0	1	1	0	0	\$ -	\$ -	\$ -	
Engineer, Junior	\$ 94.00	\$ 92.34	18	1	1	18	0	\$ 1,692.00	\$ -	\$ 1,692.00	
Engineer, Electrical - Associate	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -	
Engineer, Mechanical - Associate	\$ 143.38	\$ 151.75	466	1	1	466	0	\$ 66,815.08	\$ -	\$ 66,815.08	
Equipment Operator	\$ 89.67	\$ 87.13	24	1	1	24	0	\$ 2,152.08	\$ -	\$ 2,152.08	
Foreman, O'Neill Pumping Plant	\$ 141.92	\$ 150.00	0	1	1	0	0	\$ -	\$ -	\$ -	
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 80.51	\$ 76.11	0	1	1	0	0	\$ -	\$ -	\$ -	
Hydrotech-2 (Was Hydrographer)	\$ 83.84	\$ 80.11	0	1	1	0	0	\$ -	\$ -	\$ -	
Maintenance Foreman	\$ 98.32	\$ 97.53	8	1	1	8	0	\$ 786.56	\$ -	\$ 786.56	
Safety Engineer	\$ 143.38	\$ -	40	1	1	40	0	\$ 5,735.20	\$ -	\$ 5,735.20	
Maintenance Supt., Civil	\$ 113.71	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -	
Maintenance Worker	\$ 82.90	\$ 78.98	48	1	1	48	0	\$ 3,979.20	\$ -	\$ 3,979.20	
Maintenance Worker, Painter	\$ 90.46	\$ 88.07	0	1	1	0	0	\$ -	\$ -	\$ -	
Manager, Planning & Engineering	\$ 162.79	\$ -	40	1	1	40	0	\$ 6,511.60	\$ -	\$ 6,511.60	
Manager, Operations & Maintenance	\$ 167.29	\$ -	8	1	1	8	0	\$ 1,338.32	\$ -	\$ 1,338.32	
Planner, Civil Maintenance	\$ 91.03	\$ 88.78	0	1	1	0	0	\$ -	\$ -	\$ -	
Planner, Hydro-Electric Maintenance	\$ 116.83	\$ 119.80	0	1	1	0	0	\$ -	\$ -	\$ -	
Plant Mech. 2, HE	\$ 127.22	\$ 132.31	48	1	1	48	0	\$ 6,106.56	\$ -	\$ 6,106.56	
Plant Mech. Foreman, HE	\$ 141.92	\$ 150.00	16	1	1	16	0	\$ 2,270.72	\$ -	\$ 2,270.72	
Project Coordinator	\$ 96.94	\$ 95.87	362	1	1	362	0	\$ 35,092.28	\$ -	\$ 35,092.28	
SCADA Engineer	\$ 141.80	\$ 146.59	24	1	1	24	0	\$ 3,403.20	\$ -	\$ 3,403.20	
Water Operations Superintendent	\$ 110.82	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -	
Operations Supervisor	\$ 154.60	\$ -	16	1	1	16	0	\$ 2,473.60	\$ -	\$ 2,473.60	
Engineer, Plant	\$ 143.38	\$ 151.75	0	1	1	0	0	\$ -	\$ -	\$ -	
Hour Totals:						1272	0	Sum of Overtime Cost			\$ -
								Sum of Regular Time Cost			\$ 158,588.76
								Tot Fully Burdened Labor Cost			\$ 158,588.76
								Materials			\$ -
								Vehicles & Equipment			\$ -
								Contracts			\$ 160,000.00
								Step Total			\$ 318,588.76

San Luis & Delta-Mendota Water Authority
M2015002 Domestic Water Treatment Plant Replacement (FY2020)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Furnish & Install 10 gpm Skid Mounted WTP	2	LS	\$ 35,000	\$ 70,000.00
Furnish & Install 24'x24'x10' Steel Building w/Foundation	1	LS	\$ 75,000	\$ 75,000.00
Furnish & Install WTP workstation	1	LS	\$ 15,000	\$ 15,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 160,000.00

Note: 3%/year inflation adjustment included in cost

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: C1997002

Project Code: E6-2020

Priority: B-4-b

Facility: DMC

Project Title: O&M Road Maintenance Program - Phase 9 of 10

Estimated Total Cost: \$165,300.00

CONTRACT COSTS: \$125,000.00

IN-HOUSE COSTS: Labor: \$40,300.00 Materials: \$0.00 Equipment: \$0.00

Project Description and Discussion:

This phase will install 12.00 miles of a chipseal coat to the 12' wide O&M Road between MP 39.21 and 51.21.

Justification:

The entire length of the O&M road of the Delta-Mendota Canal is traveled daily by operations and maintenance personnel and, in some areas the general public. To extend the life of the O&M road and reduce overall maintenance and/or repair costs, the O&M Technical Committee approved the O&M Road Repair and Maintenance Program in 1998. The Program was organized in three categories: 1. Repair; 2. Rehabilitation, and 3. Maintenance. The O&M Road Repair category work began in 1998 and was completed in 2000. The O&M Road Rehabilitation category work began in 2001 and was completed in 2007. The O&M Road Maintenance Program began in the Summer of 2009 (FY2010). The objective of the O&M Road Maintenance Program is to apply a wearing surface (or chipseal) on approximately one tenth of the DMC roadway annually. The actual lengths and locations will be determined annually based on roadway use and condition.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

C1997002 DMC O&M Road Maintenance Program

MP 51.21 to MP 62.09

Total Fully Burdened Labor Cost	\$ 40,300.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 125,000.00
	<hr/>
Project Grand Total	\$ 165,300.00

Date Proposal Completed: 10/3/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
C1997002 DMC O&M Road Maintenance Program (FY2020)
EO&M Project Cost Summary**

FY2020 C1997002 DMC O&M Road Maintenance Program MP 51.21 to MP 62.09	FY20 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY20 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost	
	A	B	C	D	E	F	G	H	I	J	
						C x D x E		=A x F	=B x G	= sum H + I	
Apprentice Electrician	\$ 116.23	\$ 119.08	0	0	0	0	0	\$ -	\$ -	\$ -	
Apprentice Plant Mechanic	\$ 116.23	\$ 119.08	0	0	0	0	0	\$ -	\$ -	\$ -	
C&I Technician	\$ 130.12	\$ 135.80	0	0	0	0	0	\$ -	\$ -	\$ -	
Canal Operator	\$ 77.27	\$ 72.21	0	0	0	0	0	\$ -	\$ -	\$ -	
Control Operator	\$ 139.67	\$ 147.28	0	0	0	0	0	\$ -	\$ -	\$ -	
Electrical Foreman	\$ 141.92	\$ 150.00	0	0	0	0	0	\$ -	\$ -	\$ -	
Electrician	\$ 127.22	\$ 132.31	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Civil -Associate	\$ 143.38	\$ 151.75	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Civil Assistant	\$ 115.40	\$ 115.51	218	1	1	218	0	\$ 25,157.20	\$ -	\$ 25,157.20	
Engineer, Junior	\$ 94.00	\$ 92.34	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Electrical - Associate	\$ 143.38	\$ 151.75	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Mechanical - Associate	\$ 143.38	\$ 151.75	0	0	0	0	0	\$ -	\$ -	\$ -	
Equipment Operator	\$ 89.67	\$ 87.13	0	0	0	0	0	\$ -	\$ -	\$ -	
Foreman, O'Neill Pumping Plant	\$ 141.92	\$ 150.00	0	0	0	0	0	\$ -	\$ -	\$ -	
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 80.51	\$ 76.11	0	0	0	0	0	\$ -	\$ -	\$ -	
Hydrotech-2 (Was Hydrographer)	\$ 83.84	\$ 80.11	0	0	0	0	0	\$ -	\$ -	\$ -	
Maintenance Foreman	\$ 98.32	\$ 97.53	0	0	0	0	0	\$ -	\$ -	\$ -	
Safety Engineer	\$ 143.38	\$ -	16	1	1	16	0	\$ 2,294.08	\$ -	\$ 2,294.08	
Maintenance Supt., Civil	\$ 113.71	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	
Maintenance Worker	\$ 82.90	\$ 78.98	0	0	0	0	0	\$ -	\$ -	\$ -	
Maintenance Worker, Painter	\$ 90.46	\$ 88.07	0	0	0	0	0	\$ -	\$ -	\$ -	
Manager, Planning & Engineering	\$ 162.79	\$ -	18	1	1	18	0	\$ 2,930.22	\$ -	\$ 2,930.22	
Manager, Operations & Maintenance	\$ 167.29	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	
Planner, Civil Maintenance	\$ 91.03	\$ 88.78	0	0	0	0	0	\$ -	\$ -	\$ -	
Planner, Hydro-Electric Maintenance	\$ 116.83	\$ 119.80	0	0	0	0	0	\$ -	\$ -	\$ -	
Plant Mech. 2, HE	\$ 127.22	\$ 132.31	0	0	0	0	0	\$ -	\$ -	\$ -	
Plant Mech. Foreman, HE	\$ 141.92	\$ 150.00	0	0	0	0	0	\$ -	\$ -	\$ -	
Project Coordinator	\$ 96.94	\$ 95.87	102	1	1	102	0	\$ 9,887.88	\$ -	\$ 9,887.88	
SCADA Engineer	\$ 141.80	\$ 146.59	0	0	0	0	0	\$ -	\$ -	\$ -	
Water Operations Superintendent	\$ 110.82	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	
Operations Supervisor	\$ 154.60	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Plant	\$ 143.38	\$ 151.75	0	0	0	0	0	\$ -	\$ -	\$ -	
<i>Hour Totals:</i>						354	0	<i>Sum of Overtime Cost</i>			\$ -
								<i>Sum of Regular Time Cost</i>			\$ 40,269.38
								<i>Tot Fully Burdened Labor Cost</i>			\$ 40,269.38
								<i>Materials</i>			\$ -
								<i>Vehicles & Equipment</i>			\$ -
								<i>Contracts</i>			\$ 125,000.00
								<i>Step Total</i>			\$ 165,269.38

San Luis & Delta-Mendota Water Authority
C1997002 DMC O&M Road Maintenance Program (FY2020)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Chip & Seal Contract	1	LS	\$ 125,000	\$ 125,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 125,000.00

Note: 3%/year inflation adjustment included in cost

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: V1999001

Project Code: D2-2020

Priority: B-5-b

Facility: ALL

Project Title: Heavy Equipment Replacement Program (Reserve Fund)

Estimated Total Cost: \$927,000.00

CONTRACT COSTS: \$927,000.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$0.00 *Equipment:* \$0.00

Project Description and Discussion:

The San Luis & Delta-Mendota Water Authority equipment will be replaced or considered for replacement when the equipment is no longer economical to operate and/or maintain. The purpose of this Reserve Project is to set-aside funding annually for replacement of the Authority critical heavy equipment. The Equipment Replacement Plan will be presented for approval each year.

The heavy equipment proposed for replacement this year is as follows:

- 200 KW, 480 VAC, 3 Phase Portable Generator
- Long Reach Excavator
- Motor Grader
- Bobcat Skidsteer Loader

Justification:

The San Luis & Delta-Mendota Water Authority Equipment Replacement Plan objective is to provide safe and efficient equipment in a manner which maximizes the equipments utilization for the Authority.

Project Status:

See attached Heavy Equipment Replacement 10 Year Plan.

Equip #	Equipment	Category	RESP OFC	YEAR	ARB Regulate	Authority Service Life	Forecasted Replacement Year	EQUIPMENT REPLACEMENT COST(FY19\$)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2642	Dozer (w/rippers)	1	LBFO	1976	√	40	2020	\$300,000										
697	200 kW Emergency Generator - Trailer Mounted	1	TFO	1999	√	40	2020	\$130,000	\$ 130,000									
NEW	Long Reach Excavator	1	LBFO		√	20	2020	\$350,000	\$ 350,000									
2612	Grader (John Deere)	1	LBFO	1993	√	30	2020	\$345,000	\$ 345,000									
NEW	Bobcat	1	LBFO		√	20	2040	\$75,000	\$ 75,000									
8045	Genie Man Lift (Electric)	1	TFO	1998		20	2021	\$55,000		\$ 55,000								
664	Forklift (4K lb Capacity) JPP (LPG)	1	ONP	1989	√	30	2021	\$35,000		\$ 35,000								
2613	Grader (John Deere)	1	TFO	1993	√	20	2021	\$345,000		\$ 345,000								
2659	Case MX 150 Tractor	1	TFO	1999	√	20	2021	\$151,500		\$ 151,500								
2630	Dump Truck	1	LBFO	2000	√	20	2022	\$178,500			\$ 178,500							
P-799	10" Pump	1	LBFO	1966	√	40	2022	\$60,000			\$ 60,000							
2633	Spray Truck (2.5 Ton)	1	LBFO	2000	√	20	2022	\$140,000			\$ 140,000							
666	Forklift (4K lb Capacity) Pigeon Roost (LPG)	1	ONP	1989	√	30	2022	\$29,000				\$ 29,000						
662	Forklift (5K lb Capacity) ONP SHOP (DSL)	1	ONP	1988	√	30	2023	\$35,000				\$ 35,000						
8001	20-Ton P&H Omega RT Crane	1	LBFO	1988	√	30	2023	\$300,000				\$ 300,000						
8057	JLG Man Lift	1	TFO	2008		20	2023	\$60,000				\$ 60,000						
2648	Front End Loader	1	LBFO	1993	√	30	2024	\$152,800					\$ 152,800					
8058	Truck/Tractor	1	LBFO	2008	√	15	2024	\$145,000					\$ 145,000					
2627	Bottom Belly Dump Trailer	1	LBFO	1996		30	2025	\$60,000						\$ 60,000				
8050	Lowboy Trailer	1	LBFO	2007		20	2027	\$115,000								\$ 115,000		
8052	Flatbed Tilt Trailer	1	TFO	2007		20	2027	\$45,000								\$ 45,000		
8068	Boom Truck (26 Ton Capacity)	1	TFO	2009	√	20	2028	\$257,000									\$ 257,000	
8082	Dump Truck	1	TFO	2011	√	20	2031	\$178,500										
8078	Flatbed Tilt Trailer	1	LBFO	2011		20	2031	\$45,000										
8083	Truck/Tractor	1	ALL	2012	√	20	2032	\$145,000										
8094	Boom Truck	1	LBFO	2012	√	20	2032	\$257,000										
8090	Compact Tracked Loader	1	TFO	2013	√	20	2033	\$70,000										
8099	Water Truck	1	TFO	2013	√	20	2033	\$152,000										
8100	Dump Truck	1	LBFO	2013	√	20	2033	\$178,500										
8112	Backhoe	1	LBFO	2016	√	20	2036	\$128,700										
8113	Backhoe	1	TFO	2016	√	20	2036	\$128,700										
8126	Water Truck	1	LBFO	2017	√	20	2037	\$152,000										
8125	Excavator	1	TFO	2017	√	20	2037	\$320,000										
8065	Forklift (2.5 Ton Capacity) (LPG)	1	TFO	2009	√	30	2039	\$28,500										
8136	Case Magnum 180 Tractor	1	LBFO	2018	√	20	2039	\$151,500										
8072	12' Heavy Duty Disc	1	TFO	2011		30	2041	\$23,000										
8079	Forklift (4000 Lb Capacity) LBFO SHOP (LPG)	1	LBFO	2011	√	30	2041	\$31,500										
8095	Forklift (4K lb Capacity) WH (Electric)	1	TFO	2013	√	30	2043	\$33,000										
8096	Forklift (7.5 Ton Capacity) TFO YARD (LPG)	1	TFO	2013	√	30	2043	\$89,500										
8097	Forklift (10K lb Capacity) LBFO YARD (LPG)	1	LBFO	2013	√	30	2043	\$62,500										
8109	12' Heavy Duty Disc	1	LBFO	2016		30	2046	\$23,000										
8132	Forklift (4K lb Capacity) JPP (Electric)	1	TFO	2018	√	30	2048	\$38,000										
8133	Forklift (4K lb Capacity) SB&Pnt (LPG)	1	TFO	2018	√	30	2048	\$29,500										
8048	Spray Truck (1 Ton)	1	LBFO	2008		10	2018	\$135,000										
2592	2 Ton Service Truck with 2 Ton Hoist	1	JPP	2000		15	2019	\$70,000										
2617	Lowboy Trailer	1	TFO	1979		20	2019	\$115,000										
Total									\$ 900,000	\$ 586,500	\$ 378,500	\$ 424,000	\$ 297,800	\$ 60,000	\$ -	\$ 160,000	\$ 257,000	\$ -
# of Equipment Replaced									4	4	3	4	2	1	0	2	1	0
3% Inflation Factor per Year									\$ 27,000	\$ 35,718	\$ 35,097	\$ 53,216	\$ 47,432	\$ 11,643	\$ -	\$ 42,683	\$ 78,327	\$ -
Yearly Total									\$ 927,000	\$ 622,200	\$ 413,600	\$ 477,200	\$ 345,200	\$ 71,600	\$ -	\$ 202,700	\$ 335,300	\$ -

√ - Emissions regulated by California Air Resources Board (Off Road has bold font)

√ - Currently CARB Compliant



NOTE: Equipment cost rounded to the nearest \$100.

Grand Total \$ 3,394,800

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
EQUIPMENT PURCHASE JUSTIFICATION FORM
FY2020**

200 KW GENERATOR

ESTIMATE COST: \$130,000

EXISTING EQUIPMENT INFORMATION			
VEHICLE NO:	697 (Sold due to CARB regulations)	YEAR:	AGE (YRS.):
MAKE:		MODEL:	
DEPARTMENT:	JPP/OPP	MAINTENANCE YARD:	TFO
CURRENT HOURS:		PROJECTED HOURS WHEN REPLACED:	
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR:</i>	<i>GOOD:</i>
DESCRIPTION AND JUSTIFICATION			
DESCRIPTION OF EQUIPMENT USE WITHIN THE AUTHORITY:			
<p>A 200 KW, 480 VAC, 3 Phase portable generator will be used as a backup power supply to both the Jones Pumping Plant and the O'Neill Pump/Generating Plant.</p> <ul style="list-style-type: none"> ➤ Provide emergency power to plant during outages to support lighting, sump pumps and other critical equipment 			
REASON FOR PURCHASE:			
<p>The Authority used to have a portable generator that had been turned over from the USBR for emergency functions but due to current Air Board regulations we are not allowed to use it any longer and it has been disposed off. We have been using rental generators to support the facilities during outages.</p> <p>During an incident in 2016 that resulted in a power outage to the JPP, a rental generator was called for but was not delivered until 7 hours later; during this time the butterfly gallery of the plant had flooded which resulted in damage to the butterfly valve air compressors, the butterfly valve high pressure oil pumps, the control valves and the electrical controls for the butterfly valves.</p> <p>The damage that resulted caused the JPP to lose 2 days of pumping in order to repair the damaged equipment. Had a portable generator been immediately available and connected within a few hours the sump pumps would have been able to prevent the damage that occurred.</p> <p>This generator will be portable so that it will also be used for OPP outages and emergencies.</p> <p>Due to the critical nature of maintaining dewatering capability an emergency generator is considered a necessary piece of equipment for the Authority</p> <p>The above cost is for a new generator and the cost of material for electrical equipment to allow for easy connection to the plants. At the time of purchase we will consider buying a used generator with low hours.</p>			

Date Prepared:

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
EQUIPMENT PURCHASE JUSTIFICATION FORM
FY2020**

LONG REACH EXCAVATOR

ESTIMATE COST: \$350,000

EXISTING EQUIPMENT INFORMATION

VEHICLE NO: NEW	YEAR:	AGE (YRS.):
MAKE:	MODEL:	
DEPARTMENT: Maintenance	MAINTENANCE YARD: LBFO	
CURRENT HOURS:	PROJECTED HOURS WHEN REPLACED:	
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR:</i> <i>GOOD:</i>

DESCRIPTION AND JUSTIFICATION

DESCRIPTION OF EQUIPMENT USE WITHIN THE AUTHORITY:

A long reach excavator is used for working on slopes that our regular excavator cannot reach. These include but are not limited to.

- Erosion repair
- Excavation/Digging/Trenching
- Liner repair
- Ditch cleaning
- Back Filling
- Emergency uses to support flooding damage or other natural/man-made problems
- Weed control

This piece of equipment will be used approximately 300 hours per year.

REASON FOR PURCHASE:

The Authority has had to borrow long reach excavators from other districts or renting them to meet the needs. This often results in delays and scheduling issues. Some work has had to be delayed or deferred until funds are available. Over the last few years we have been spending approximately \$40,000 a year for renting a long reach excavator plus we have been borrowing them from other districts. We anticipate the annual work load will increase in the future

We expect that the life span of a long reach excavator to be approximately 20 years, this would result in a rental expense of >\$1,000,000 after adjusting for inflation.

The cost of a new long reach excavator will be approximately \$350,000, the cost of a used long reach (that is compliant with CARB standards) with <2,000 hours of use is approximately \$240,000. Since this piece of equipment is critical to the maintenance of our facilities, the additional cost of purchasing new instead of used is prudent since there is no way to know the actual condition of a used one.

Date Prepared:

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
EQUIPMENT REPLACEMENT JUSTIFICATION FORM
FY2020**

MOTOR GRADER

ESTIMATE COST: \$345,000

EXISTING EQUIPMENT INFORMATION

VEHICLE NO: 2612	YEAR: 1993	AGE (YRS.): 26
MAKE: John Deere	MODEL: 772	
DEPARTMENT: Maintenance	MAINTENANCE YARD: LBFO	
CURRENT HOURS:	PROJECTED HOURS WHEN REPLACED:	
MECHANICS RATING OF VEHICLE:	<i>POOR:</i> X	<i>FAIR:</i> <i>GOOD:</i>

DESCRIPTION AND JUSTIFICATION

DESCRIPTION OF EQUIPMENT USE WITHIN THE AUTHORITY:

The grader is used in work associated with the maintenance and repair of the DMC roads and associated facilities. These include but are not limited to.

- Routine grading of roads
- Repair to roads
- Leveling ground
- Ripping ground
- Laying road base

This piece of equipment is used approximately 600 hours per year.

REASON (S) FOR REPLACEMENT:

This motor grader will be 26 years old at the time of replacement. 2 extremely reliable graders are necessary to ensure the reliability and proper maintenance of the DMC.

This grader is experiencing problems with its transmission and has multiple hydraulic leaks. John Deere will not give us an actual estimate for the repairs since there are too many unknowns that are not detectable until the machine is torn down, they are unofficially telling us that the repairs will be a minimum of \$60,000.

The other grader is scheduled to be replaced in FY21.

Date Prepared:

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
EQUIPMENT PURCHASE JUSTIFICATION FORM
FY2020**

COMPACT TRACK LOADER (BOBCAT)

ESTIMATE COST: \$75,000

EXISTING EQUIPMENT INFORMATION

VEHICLE NO:	NEW	YEAR:		AGE (YRS.):	
MAKE:		MODEL:			
DEPARTMENT:	Los Banos Civil Maintenance		MAINTENANCE YARD:	LBFO	
CURRENT HOURS:		PROJECTED HOURS WHEN REPLACED:			
MECHANICS RATING OF VEHICLE:		<i>POOR:</i>	<i>FAIR:</i>	<i>GOOD:</i>	

DESCRIPTION AND JUSTIFICATION

DESCRIPTION OF EQUIPMENT USE WITHIN THE AUTHORITY:

The Bobcat will be used for various jobs in support of the maintenance of the DMC and associated facilities

- Augering post holes
- Cleaning of the wasteways and SL drain
- Annual cleaning of the domestic water settling pond
- Trenching
- DMC road repair
- Pallet handling at remote locations with uneven ground
- Earthwork
- Sweeping of the parking lots
- Picking up large trash items for putting in dump truck

REASON FOR PURCHASE:

The Authority purchased a Bobcat in FY14. It has become an invaluable tool that sees use constantly for various jobs. Its ability to drill post holes has made that task safe and fast compared to using a two man auger, it is used to transport heavy materials on or off pallets in areas a forklift cannot be used to put less strain on the employee, and cleaning of wasteways are only a few examples of where it has become a great tool that increased the safety and efficiency of the Authority.

Our current Bobcat is shared between the two field offices and is in high demand, as such its availability creates scheduling problems for the Civil Maintenance department. Approximately weekly the Bobcat has to be transported to the other yard to support work, this is highly inefficient as it takes crew members away from a different job to return to the yard, pick up a trailer, drive to the other yard, load the Bobcat and return to their yard.

Purchased along with this requested piece will be a sweeper attachment so that we can sweep the asphalt yards and roads on the compounds, this will extend the life of the sealant that has to be applied by a contractor on a regular basis.

Date Prepared:

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: V1999002

Project Code: D1-2020

Priority: B-6-c

Facility: ALL

Project Title: Vehicle Replacement (Reserve Fund)

Estimated Total Cost: \$161,800.00

CONTRACT COSTS: \$161,800.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$0.00 *Equipment:* \$0.00

Project Description and Discussion:

The San Luis & Delta-Mendota Water Authority vehicles will be replaced or considered for replacement when the criteria for the Authority Vehicle Replacement Policy has been met. The purpose of this Reserve Project is to set-aside funding annually for replacement of the Authority vehicles. The Authority Vehicle Replacement Plan will be presented for approval each year.

The vehicles proposed for replacement this year is as follows:

- 2007 Ford F-350 (Canal Maintenance)
- 2013 Chevy 2500 (Canal Operations)
- 2014 Ford F-150 (Canal Operations)
- 2014 Chevy Traversse (Operations Manager)

Justification:

The San Luis & Delta-Mendota Water Authority Vehicle Replacement Policy objective is to provide safe and efficient operating vehicles in a manner which maximizes the vehicles utilization for the Authority.

Project Status:

See attached Vehicle Replacement 10 Year Plan.

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
VEHICLE REPLACEMENT JUSTIFICATION FORM
FY2020**

1 TON SERVICE TRUCK

ESTIMATE COST: \$60,000

<u>EXISTING VEHICLE INFORMATION</u>			
VEHICLE NO: 8041	YEAR: 2007	AGE (YRS.): 12	
MAKE: Ford	MODEL: F350		
DEPARTMENT: Canal Maintenance	MAINTENANCE YARD: TFO		
CURRENT MILEAGE:	PROJECTED MILEAGE WHEN REPLACED: 145,000		
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR: X</i>	<i>GOOD:</i>
<u>DESCRIPTION AND JUSTIFICATION</u>			
DESCRIPTION OF VEHICLE USE WITHIN THE AUTHORITY:			
This vehicle is used by the Canal Maintenance Department. It is used for routine transportation of personnel and equipment to various work locations along the DMC.			
<ul style="list-style-type: none"> ➤ Routine work along the DMC ➤ Towing trailers ➤ Welding ➤ Facility repair 			
 REASON (S) FOR REPLACEMENT:			
WA policy is to replace vehicles at 150,000 miles or 15 years with the exception of canal operation vehicles which are replaced every 5 to 6 years due to the high mileage.			
<u>INTENDED USE AFTER REPLACEMENT:</u>			
<i>REASSIGNMENT TO:</i>		<i>SURPLUS: XX</i>	
<u>VEHICLE TO BE SURPLUSED:</u>			
VEHICLE NO:	YEAR:	AGE (YRS):	
MAKE:	MODEL:		
DEPARTMENT:	MAINTENANCE YARD:		
CURRENT VEHICLE MILEAGE:			
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR:</i>	<i>GOOD:</i>
GENERAL NOTE:			

Date Prepared:

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
VEHICLE REPLACEMENT JUSTIFICATION FORM
FY2020**

¾ TON PICKUP WITH UTILITY BODY

ESTIMATE COST: \$40,000

<u>EXISTING VEHICLE INFORMATION</u>			
VEHICLE NO: 8092	YEAR: 2013	AGE (YRS.): 6	
MAKE: Chevy	MODEL: 2500		
DEPARTMENT: Canal Operations	MAINTENANCE YARD: LBFO		
CURRENT MILEAGE:	PROJECTED MILEAGE WHEN REPLACED: 172,000		
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR: X</i>	<i>GOOD:</i>
<u>DESCRIPTION AND JUSTIFICATION</u>			
DESCRIPTION OF VEHICLE USE WITHIN THE AUTHORITY:			
This vehicle is assigned to TFO Canal Operations. It is used for routine meter repairs and operations associated with the DMC. These functions include but not limited to:			
<ul style="list-style-type: none"> ➤ Routine servicing meters ➤ Performing flow testing ➤ Routine operation of the DMC 			
REASON (S) FOR REPLACEMENT:			
Due to the high use of vehicles by the Canal Operations department, this vehicle is scheduled for replacement every 5 to 6 years or 150,000 miles. This vehicle will exceed 150,000 miles in FY18			
This vehicle will be reassigned to another department as a secondary vehicle			
<u>INTENDED USE AFTER REPLACEMENT:</u>			
<i>REASSIGNMENT TO:</i> Electric Shop		<i>SURPLUS:</i>	
<u>VEHICLE TO BE SURPLUSED:</u>			
VEHICLE NO: 8070	YEAR: 2018	AGE (YRS.): 9	
MAKE: Ford	MODEL: F250		
DEPARTMENT: Electric Shop	MAINTENANCE YARD: TFO		
CURRENT VEHICLE MILEAGE:			
MECHANICS RATING OF VEHICLE:	<i>POOR: X</i>	<i>FAIR:</i>	<i>GOOD:</i>
GENERAL NOTE:			

Date Prepared:

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
VEHICLE REPLACEMENT JUSTIFICATION FORM
FY2020**

1/2 TON PICKUP

ESTIMATE COST: \$24,000

<u>EXISTING VEHICLE INFORMATION</u>			
VEHICLE NO: 8104	YEAR: 2014	AGE (YRS.): 5	
MAKE: Ford	MODEL: F150		
DEPARTMENT: Canal Operations	MAINTENANCE YARD: LBFO		
CURRENT MILEAGE:	PROJECTED MILEAGE WHEN REPLACED: 174,000		
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR: X</i>	<i>GOOD:</i>
<u>DESCRIPTION AND JUSTIFICATION</u>			
DESCRIPTION OF VEHICLE USE WITHIN THE AUTHORITY:			
<p>This vehicle is used by one of the DMC Canal Operators. The Canal Operator is responsible for the daily operation of the DMC. Duties include:</p> <ul style="list-style-type: none"> ➤ Daily inspection of the DMC ➤ Reading of staff gauges ➤ Locking and unlocking turnout gates ➤ Meter readings ➤ Manual operation of radial gate position <p>The Canal Operators drive over 30,000 miles per year; therefore a highly reliable vehicle is a necessity of this position.</p>			
REASON (S) FOR REPLACEMENT:			
<p>WA policy is to replace vehicles at 150,000 miles or 15 years with the exception of canal operation vehicles which are replaced every 5 to 6 years due to the high mileage.</p> <p>This vehicle will be reassigned to another department as a secondary vehicle.</p>			
<u>INTENDED USE AFTER REPLACEMENT:</u>		<i>REASSIGNMENT TO:</i> Electric Shop	<i>SURPLUS:</i>
<u>VEHICLE TO BE SURPLUSSED:</u>			
VEHICLE NO: 2598	YEAR: 2001	AGE (YRS.): 18	
MAKE: Dodge	MODEL: 1500		
DEPARTMENT: Electric Shop	MAINTENANCE YARD: TFO		
CURRENT VEHICLE MILEAGE:			
MECHANICS RATING OF VEHICLE:	<i>POOR: X</i>	<i>FAIR:</i>	<i>GOOD:</i>
GENERAL NOTE:			

Date Prepared:

**SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
VEHICLE REPLACEMENT JUSTIFICATION FORM
FY2020**

MID-SIZE SUV

ESTIMATE COST: \$33,000

<u>EXISTING VEHICLE INFORMATION</u>			
VEHICLE NO: 8101	YEAR: 2014	AGE (YRS.): 5	
MAKE: Chevy	MODEL: Traverse		
DEPARTMENT: Operations Manager	MAINTENANCE YARD: TFO		
CURRENT MILEAGE:	PROJECTED MILEAGE WHEN REPLACED: 140,000		
MECHANICS RATING OF VEHICLE:	<i>POOR:</i>	<i>FAIR:</i> X	<i>GOOD:</i>
<u>DESCRIPTION AND JUSTIFICATION</u>			
DESCRIPTION OF VEHICLE USE WITHIN THE AUTHORITY:			
This vehicle is used by the Operations Manager. The Operations Manager is responsible for supervising operations and maintenance associated with the routine and emergency operations at the JPP, OPP, DMC and other WA Facilities.			
The Operations Manager is required to be available for call outs on a 24/7 basis. Therefore a highly reliable vehicle is a necessity of this position.			
He also is required to represent the WA at various meetings with other agencies throughout the Central Valley.			
REASON (S) FOR REPLACEMENT:			
This vehicle will exceed our replacement criteria of 150,000 miles during FY20. It will be reassigned for use a secondary vehicle.			
<u>INTENDED USE AFTER REPLACEMENT:</u>			
<i>REASSIGNMENT TO:</i> Engineering		<i>SURPLUS:</i>	
<u>VEHICLE TO BE SURPLUSED:</u>			
VEHICLE NO: 8039	YEAR: 2006	AGE (YRS.): 13	
MAKE: Ford	MODEL: Fusion		
DEPARTMENT: Engineering	MAINTENANCE YARD: TFO		
CURRENT VEHICLE MILEAGE:			
MECHANICS RATING OF VEHICLE:	<i>POOR:</i> X	<i>FAIR:</i>	<i>GOOD:</i>
GENERAL NOTE:			

Date Prepared:

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: C2011001

Project Code: D3-2020

Priority: B-7-c

Facility: ALL

Project Title: Facility Infrastructure Replacement/Rehabilitation Program

Estimated Total Cost: \$137,000.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$137,000.00

Project Description and Scope:

The reserve funds set aside for this project will be utilized for planned repairs/rehabilitation and/or improvements to the facilities the SLDMWA has the responsibility to operate and maintain. The typical type of project to be funded will be associated with facility repairs/rehabilitation and/or improvements in the following areas: Roofing Systems, Building Interior/Exterior Components, Building HVAC Systems, Building Electrical & Communication Systems, Building Plumbing Systems, Building Fire Protections Systems, and Building Pavement & Grounds.

Project Purpose and Background:

The San Luis & Delta-Mendota Water Authority is responsible for the operation, maintenance, rehabilitation and replacement of C.W. "Bill" Jones Pumping Plant, O'Neill Pumping/Generating Plant and all their supporting O&M facilities. The majority of the facilities were constructed in the 1950's and 1960's and the existing buildings on the Tracy Compound were built in 1996. The purpose of this reserve fund is to fund required repairs/rehabilitation projects as they are needed.

Project Status:

See attached Facility Infrastructure 10 Year Plan.

**San Luis & Delta-Mendota Water Authority
Facility Infrastructure 10 Year Plan**

	How Often (Yrs)	Est. Cost (x1000) in 2014\$	Year Last Performed	Forecasted Years	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Tracy Field Office Facilities					\$ 79	\$ 52	\$ 196	\$ 46	\$ 52	\$ 77	\$ 25	\$ 16	\$ -	\$ 45
Entire O&M Compound					\$ 79	\$ -	\$ -	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Asphalt Pavement Areas					\$ -	\$ -	\$ -	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Seal Coat Surfacing & Striping (incl USBR Lot)	5	41	2017	2022				\$ 46						
Alarm & Security Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fire Alarm System Replacement	30	20	2011	2041										
Security System Replacement	20	25	2012	2032										
Wash Water Recycling System					\$ 79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Recycling System Replacement	20	75	1996	2016	\$ 79									
Aboveground Fuel Storage System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Tank Replacement	40	20	1996	2036										\$ 20
Fuel Dispensing System Replacement	15	20	2015	2030										\$ 20
Fuel Management Software Replacement (1995)	15	5	2015	2030										\$ 5
Control Building (67 Years Old)					\$ -	\$ 15	\$ -	\$ -	\$ 15	\$ -	\$ -	\$ 10	\$ -	\$ -
Roofing Systems					\$ -	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roof Re-seal/Overlay/Replacement	20	15	1998	2018		\$ 15								
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ 15	\$ -	\$ -	\$ 10	\$ -	\$ -
Interior Maintenance (Painting)	20	10	2007	2027								\$ 10		
Kitchen Remodel	25	15	1980	2005					\$ 15					
Flooring Replacement (Carpet/Tile)	20	15	2007	2027										
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	10	2011	2031										
Air Conditioning System Replacement	20	30	2011	2031										
Ventilation System Replacement	20	10	2011	2031										
Warehouse Building (23 Years Old)					\$ -	\$ 17	\$ -	\$ -	\$ 20	\$ 27	\$ -	\$ 6	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	1996	2021						\$ 27				
Building Interior/Exterior Components					\$ -	\$ 17	\$ -	\$ -	\$ 20	\$ -	\$ -	\$ 6	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	1996	2036										
Interior Maintenance (Painting)	20	5	2007	2027								\$ 6		
Kitchen Remodel	25	15	1996	2021		\$ 17								
Flooring Replacement (Carpet/Tile)	20	20	2007	2027					\$ 20					
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	15	1996	2016										
Air Conditioning System Replacement	20	18	1996	2016										
Ventilation System Replacement	20	10	1996	2016										
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	50	10	1996	2046										

**San Luis & Delta-Mendota Water Authority
Facility Infrastructure 10 Year Plan**

	How Often (Yrs)	Est. Cost (x1000) in 2014\$	Year Last Performed	Forecasted Years	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Adminstration/Electric Shop Building (23 Years Old)					\$ -	\$ -	\$ -	\$ -	\$ 17	\$ 25	\$ -	\$ -	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	1996	2021						\$ 25				
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	1996	2036										
Interior Maintenance (Painting)	20	10	2013	2033										
Office Partition Replacement	20	25	2013	2033										
Kitchen/Lunch Room Remodel	20	15	1996	2016					\$ 17					
Flooring Replacement (Carpet/Tile)	20	15	2013	2033										
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	35	1996	2016										
Air Conditioning System Replacement	20	35	1996	2016										
Ventilation System Replacement	20	20	1996	2016										
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	50	10	1996	2046										
Civil/Vehicle Maintenance Building (23 Years Old)					\$ -	\$ 20	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	1996	2021						\$ 25				
Building Interior/Exterior Components					\$ -	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	1996	2036										
Interior Maintenance (Painting)	20	10	2014	2034										
Flooring Replacement (Tile)	25	20	1996	2021		\$ 20								
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	10	1996	2016										
Air Conditioning System Replacement	20	10	1996	2016										
Shop Ventilation System Replacement	20	10	1996	2016										
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	50	10	1996	2046										
Sandblast and Paint Building (17 Years Old)					\$ -	\$ -	\$ 196	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	2002	2027							\$ 25			
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	2002	2042										
Blast Room Air Flow System					\$ -	\$ -	\$ 196	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Filter Replacement	10	15	2012	2022			\$ 21							
Air Compressor Replacement	20	50	2002	2022			\$ 50							
Shop Ventilation System Replacement	20	50	2002	2022			\$ 50							
Media Collection System	20	75	2002	2022			\$ 75							
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	30	10	2002	2032										

**San Luis & Delta-Mendota Water Authority
Facility Infrastructure 10 Year Plan**

	How Often (Yrs)	Est. Cost (x1000) in 2014\$	Year Last Performed	Forecasted Years	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Los Banos Field Office & Maintenance Facility					\$ -	\$ -	\$ -	\$ -	\$ 77	\$ -	\$ 37	\$ -	\$ 87	\$ 45
Entire O&M Compound					\$ -	\$ -	\$ -	\$ -	\$ 77	\$ -	\$ -	\$ -	\$ 45	\$ 45
Asphalt Pavement Areas					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Seal Coat Surfacing & Striping (2009)	10	10	2009	2019										
Alarm & Security Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45	\$ -
Fire Alarm System Replacement (2008)	20	20	2008	2028									\$ 20	
Security System Replacement (2008)	20	25	2008	2028									\$ 25	
Wash Water Recycling System					\$ -	\$ -	\$ -	\$ -	\$ 77	\$ -	\$ -	\$ -	\$ -	\$ -
Recycling System Replacement (2004)	20	75	2004	2024					\$ 77					
Aboveground Fuel Storage System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Tank Replacement (1993)	40	20	1993	2033										\$ 20
Fuel Dispensing System Replacement	15	20	2015	2030										\$ 20
Fuel Management Software Replacement (1993)	15	5	2015	2030										\$ 5
Office Building (12 Years Old)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37	\$ -	\$ 42	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement (2008)	25	25	2008	2033										
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	30	2008	2048										
Interior Maintenance (Painting) (2008)	20	10	2008	2028							\$ 10			
Office Partition Replacement (2008)	20	15	2008	2028							\$ 17			
Flooring Replacement (Carpet/Tile)(2008)	20	10	2008	2028							\$ 10			
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42	\$ -
Heater System Replacement (2008)	20	20	2008	2028									\$ 20	
Air Conditioning System Replacement (2008)	20	20	2008	2028									\$ 22	
Los Banos Administration Office Facility					\$ 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -
Office Building					\$ 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -
Offices					\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -
Interior Maintenance (Painting)	20	15	2000	2020	\$ 17									
Office Partition Replacement	20	10	2008	2028								\$ 10		
Flooring Replacement (Carpet/Tile)	20	25	2000	2020	\$ 27									
Alarm & Security Systems					\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Security Alarm System Replacement	20	10	2000	2020	\$ 10									
Building Plumbing System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kitchen/Lunchroom Remodel	20	18	1992	2012										
TOTALS (x \$1000)					\$ 133	\$ 52	\$ 196	\$ 46	\$ 129	\$ 77	\$ 62	\$ 26	\$ 87	\$ 91
3% Inflation Factor per Year (x \$1000)					\$ 4	\$ 3	\$ 18	\$ 6	\$ 20	\$ 15	\$ 14	\$ 7	\$ 27	\$ 31
Yearly Total (x \$1000)					\$ 137	\$ 55	\$ 214	\$ 52	\$ 149	\$ 92	\$ 76	\$ 33	\$ 114	\$ 122
													10 Year Grand Total	\$ 1,044

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: E2000004

Project Code: D0-2020

Priority: C-6-b

Facility: ALL

Project Title: Replace Computer/Network Communication Equip (Reserve Fund)

Estimated Total Cost: \$79,050.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$79,050.00 *Equipment:* \$0.00

CONTRACT COSTS: \$0.00

Project Description and Scope:

The computer/network communication equipment scheduled to be replaced this FY is summarized on the attached 10 year plan.

Project Purpose and Background:

To ensure that our computer equipment is both operational and is of the capacity to operate current versions of application software, the Authority has a proactive plan to upgrade/replace computer communications equipment rather than react to emergency replacement needs and placing business communications at risk. A 10-year plan was developed to estimate future communications & computer equipment replacement needs. Copiers and fax machines are included in this 10 year plan. The planned replacement of these office machines is necessary based on cost and business function. Forecasting this equipment with network systems also provides the ability to explore combining technologies, i.e. copier with network printing, which may reduce maintenance and supply costs. The SCADA network computers, switches and associated components were added to this project starting FY09. The inclusion of this equipment brings all computer network purchases and control into one project with one manager overseeing purchases and ensuring all equipment meets the minimum requirements and is on a schedule for replacements.

Project Status:

Reserve Fund

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
10-Year Network/Information Systems Equipment Replacement Plan

	No. in Use	Life-span (in years)	No. per Year	Cost EA	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	TOTAL
Computers & Peripherals															
Computers - workstations	43	5	Note 1	\$1,700	\$5,100	\$5,100	\$52,700	\$5,100	\$5,100	\$5,100	\$5,100	\$52,700	\$5,100	\$5,100	\$146,200
Computers - laptops	23	4/5		\$2,700	\$16,200	\$16,200	\$10,800	\$10,800	\$21,600	\$16,200	\$5,400	\$5,400	\$16,200	\$18,900	\$137,700
Plotter	1	10		\$10,000	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
Monitors	63	7	Note 2	\$350	\$8,750	\$1,050	\$4,550	\$700	\$1,050	\$4,900	\$1,050	\$8,750	\$1,050	\$4,550	\$36,400
Servers	8	5	Note 3		\$15,000	\$10,000	\$43,500	\$0	\$7,500	\$15,000	\$10,000	\$43,500	\$0	\$7,500	\$152,000
Switches	12	5	Note 4		\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$0	\$30,000
Backup System	3	5	Note 5		\$0	\$19,000	\$0	\$0	\$0	\$0	\$19,000	\$0	\$0	\$0	\$38,000
Anti-virus/spam software/image software	125	3	Note 6	\$70	\$0	\$8,750	\$0	\$0	\$8,750	\$0	\$0	\$8,750	\$0	\$0	\$26,250
Firewall	2	5	Note 7		\$0	\$4,000	\$0	\$9,000	\$0	\$0	\$4,000	\$0	\$9,000	\$0	\$26,000
SCADA computer/network equipment			Note 8												
Computer - workstations	3	5		\$2,300	\$0	\$0	\$2,300	\$4,600	\$0	\$0	\$0	\$2,300	\$4,600	\$0	\$13,800
Computer - mission critical workstns	2	5		\$5,500	\$0	\$0	\$0	\$11,000	\$0	\$0	\$0	\$0	\$11,000	\$0	\$22,000
Workstation with Monitors	2	5		\$3,500	\$0	\$7,000	\$0	\$0	\$0	\$0	\$7,000	\$0	\$0	\$0	\$14,000
Servers	2	5		\$5,000	\$0	\$5,000	\$5,000	\$0	\$0	\$0	\$5,000	\$5,000	\$0	\$0	\$20,000
Laptops	1	4		\$2,200	\$0	\$2,200	\$0	\$0	\$0	\$2,200	\$0	\$0	\$0	\$2,200	\$6,600
Switches	3	5		\$750	\$0	\$0	\$0	\$2,250	\$0	\$0	\$0	\$0	\$2,250	\$0	\$4,500
Firewall	1	5		\$800	\$0	\$800	\$0	\$0	\$300	\$0	\$800	\$0	\$0	\$300	\$2,200
Security Monitors (42")	3	4		\$1,000	\$0	\$3,000	\$0	\$0	\$0	\$3,000	\$0	\$0	\$0	\$3,000	\$9,000
Office Equipment															
Copiers	6	4-7	Note 9		\$34,000	\$5,000	\$0	\$6,000	\$22,000	\$0	\$12,000	\$0	\$27,000	\$0	\$106,000
Fax Machines	4	10	Note 10		\$0	\$500	\$0	\$0	\$0	\$0	\$1,500	\$0	\$0	\$0	\$2,000
Phone System	4	15	Note 11		\$0	\$0	\$0	\$45,000	\$0	\$0	\$0	\$15,000	\$0	\$0	\$60,000
Other Equipment															
Fuel System	1	10			\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$35,000
				TOTAL	\$79,050	\$87,600	\$128,850	\$109,450	\$66,300	\$81,400	\$70,850	\$141,400	\$91,200	\$41,550	\$897,650
				Annual Cost											\$89,765
Note 1: The replacement of 3 PCs per year is predicated on a PC life span of 5 years. Every fifth year, 31 computers will require replacement. The cost of \$1,700 per PC includes software for the workstation (e.g. MS Windows 10 & MS Office).															
Note 2: Replace flat panel monitors as needed.															
Note 3: Replace Oracle WAM servers (2) in 2020. Replace storage server in 2021. Replace mail, file, & sql servers in 2022. The amounts include the operating system software and client access licenses.															
Note 4: All switches will be replaced at the same time.															
Note 5: Replace backup systems at LBAO, Tracy and Sacramento; includes hardware, software, external drives, and technical support.															
Note 6: Support & upgrades are purchased every three years due to the cost savings but not for longer due to the changes in technology.															
Note 7: Purchase 2-year support/update contract in 2021 and replace hardware with 3-year software support/updates in 2023.															
Note 8: This section consists of a servers, switches, PCs, monitors & laptops with varying life cycles for the SCADA network.															
Note 9: Replace the LBAO copiers (one color and one black/white) and TAO copier (color) in 2020. Replace Warehouse copier in 2021.															
Note 10: Replace the TAO fax in 2021.															
Note 11: Replace the Tracy phone system in 2023.															

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: E1999001

Project Code: F4-2020

Priority: B-3-a

Facility: JPP

Project Title: Unit 2 Rewind - Phase 3 (USBR Funds)

Estimated Total Cost: \$5,213,200.00

CONTRACT COSTS: \$5,202,000.00

IN-HOUSE COSTS: **Labor:** \$0.00 **Materials:** \$2,100.00 **Equipment:** \$9,100.00

Project Description and Discussion:

This project involves the refurbishment of JPP Unit 2 per the design prepared in the design phase of this project.

The scope of this project is to manufacture new stator coils, rewind the stator, manufacture new stator laminations and vents, stack the cores and reinsulate the rotor coils. Also, the high-voltage cable from pump motor neutral to the neutral grounding reactor needs to be replaced. Performance testing requirements for each phase of the work are listed in the contract specifications.

IMPORTANT NOTE: Staff recommends the remaining 5 units be completed under one multi-year contract. This will allow one design to be used for the 5 remaining units. This will ultimately reduce the overall cost of the project. Construction costs will be less due to less design & mobilization cost, less spare parts are required and improved construction efficiency due to repetition. O&M costs are reduced because the 5 units will be identical and crews will only need to learn one set of drawings for the 5 units. Also, less spare parts will need to be stored and maintained.

Justification:

The six (6) motor stators at the Jones Pumping Plant (JPP) were refurbished between 1977 and 1984. The typical service life of a unit stator winding is 25 years. In 2015, the age of the existing unit stator windings was between 31 and 38 years old. A condition assessment for all six (6) JPP units was completed in September 2015. The final report concluded that all 6 units are nearing the end of their service life. The recommended refurbishment priority order is Unit 6, 2, 1, 4, 3 & 5.

IMPORTANT NOTE: From June 1998 thru June 2012, the average starts per year per unit was 15. Over the past few years, the JPP pumping restrictions associated with the drought, has forced the units to be cycled (started & shut down) more often than normal. For instance, during July & August 2015, the units were cycled on a daily basis. From June 2013 to June 2015 the average starts per year increased to 21. This poses additional concerns about the reliability of these motors because the additional starts on these aged windings places much greater stress on the windings than does normal running due to higher currents. The SLDMWA rotates the unit starts to minimize the number of starts per unit.

NOTE: The impact of this project if not accomplished is that the Jones Pumping Plant (JPP) unit reliability is decreased and has the potential to cause a unit failure.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2020

E1999001 - JPP Unit No. 2 Rewind Project (NON LABOR)

Total Fully Burdened Labor Cost	\$	-
Total Materials	\$	2,100.00
Total Vehicles & Equipment	\$	9,100.00
Total Contracts	\$	<u>5,202,000.00</u>
Project Grand Total	\$	<u><u>5,213,200.00</u></u>

Date Proposal Completed: 8/14/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
E1999001 JPP Unit No 2 Rewind (FY2020) NON LABOR
EO&M Project
Materials Cost Breakdown

<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
Miscellaneous Consumables (Dissassembly)	1	LS	\$ 1,030.00	\$ 1,030.00
Miscellaneous Consumables (Assembly)	1	LS	\$ 1,030.00	\$ 1,030.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Materials Total: \$ 2,060.00

Note: 3%/year inflation adjustment included in unit cost

San Luis & Delta-Mendota Water Authority
E1999001 JPP Unit No 2 Rewind (FY2020) NON LABOR
EO&M Project
Vehicles & Equipment Cost Breakdown

<i>Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Rate</i>	<i>Total</i>
Recycling Dumpster	1	LS	\$ 824.00	\$ 824.00
Testing Equipment Rental	1	LS	\$ 8,240.00	\$ 8,240.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Vehicles & Equipment Total: \$ 9,064.00

Note: 3%/year inflation adjustment included in unit rate

San Luis & Delta-Mendota Water Authority
E1999001 JPP Unit No 2 Rewind (FY2020) NON LABOR
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Project Management Consulting Services	1	LS	\$ 532,000	\$ 532,000.00
USBR Contract Oversight	1	LS	\$ 105,000	\$ 105,000.00
Rewind Contract	1	LS	\$ 3,900,000	\$ 3,900,000.00
Rewind Contract Contingency (15%)	1	LS	\$ 585,000	\$ 585,000.00
Shaft Alignment Support Services	2	LS	\$ 40,000	\$ 80,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 5,202,000.00

Note: 3%/year inflation adjustment included in cost

FY2021

Extraordinary O&M Projects

Information

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: E2015002

Project Code: F7-2021

Priority: A-1-b

Facility: ONP

Project Title: Arc Flash Study - OPP

Estimated Total Cost: \$98,300.00

CONTRACT COSTS: \$50,000.00

IN-HOUSE COSTS: *Labor:* \$48,300.00 *Materials:* \$0.00 *Equipment:* \$0.00

Project Description and Discussion:

The SLDMWA will hire an electrical engineering consultant or the US Bureau of Reclamation to perform the arc flash study/analysis on the existing electrical equipment at the plant. The consultant with support from the SLDMWA engineering and electrical staff will perform the arc flash analysis per the IEEE 1584 standards and the NFPA 70E code. Per the standards/codes, all possible scenarios will be investigated and the worst case will be chosen. The consultant will provide the Arc Flash report. The report shall include the analysis method, summary of input data, findings, analysis of the complete electrical system, required PPE and recommended component upgrades/changes.

Justification:

The Bureau of Reclamation requires arc flash studies be performed at their hydro facilities every 5 years. The reliability and safety of electric power distribution systems depend on accurate and thorough knowledge of short-circuit fault currents that can be present, and on the ability of the protective devices to satisfactorily interrupt these currents. The study will define the fault loads and provide information for potential changes to circuit breakers and protection equipment that could significantly reduce these fault levels. This study will allow the SLDMWA staff to better analyze the Arc Flash requirements of this equipment. With this testing, the staff can set the necessary Personal Protective Equipment (PPE) required to keep them safe when working any of the electrical equipment. NOTE: Knowledge of the computational methods of power system analysis is essential to engineers responsible for planning, design, operation, and troubleshooting of distribution systems.

Project Status:

FY2020 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

E2015002 ONP Arc Flash Study

Total Fully Burdened Labor Cost	\$ 48,300.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 50,000.00
	<hr/>
Project Grand Total	\$ 98,300.00

Date Proposal Completed: 10/03/2018_BM

NOTE: Labor cost is roundup to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
E2015002 ONP Arc Flash Study (FY2021)
EO&M Project Cost Summary**

FY2021 E2015002 ONP Arc Flash Study	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost	
	A	B	C	D	E	F	G	H	I	J	
						C x D x E		=A x F	=B x G	= sum H + I	
Apprentice Electrician	\$ 120.53	\$ 123.49	27	1	1	27	0	\$ 3,254.43	\$ -	\$ 3,254.43	
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	0	0	1	0	0	\$ -	\$ -	\$ -	
C&I Technician	\$ 134.94	\$ 140.83	0	0	1	0	0	\$ -	\$ -	\$ -	
Canal Operator	\$ 80.14	\$ 74.88	0	0	1	0	0	\$ -	\$ -	\$ -	
Control Operator	\$ 144.84	\$ 152.73	0	0	1	0	0	\$ -	\$ -	\$ -	
Electrical Foreman	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -	
Electrician	\$ 131.94	\$ 137.21	27	1	1	27	0	\$ 3,562.27	\$ -	\$ 3,562.27	
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Junior	\$ 97.48	\$ 95.76	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	240	1	1	240	0	\$ 35,685.89	\$ -	\$ 35,685.89	
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -	
Equipment Operator	\$ 92.99	\$ 90.36	0	0	1	0	0	\$ -	\$ -	\$ -	
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	18	1	1	18	0	\$ 2,649.23	\$ -	\$ 2,649.23	
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	0	1	0	0	\$ -	\$ -	\$ -	
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Foreman	\$ 101.96	\$ 101.15	0	0	1	0	0	\$ -	\$ -	\$ -	
Safety Engineer	\$ 148.69	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Supt., Civil	\$ 117.92	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Worker	\$ 85.97	\$ 81.91	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	0	1	0	0	\$ -	\$ -	\$ -	
Manager, Planning & Engineering	\$ 168.82	\$ -	9	1	1	9	0	\$ 1,519.36	\$ -	\$ 1,519.36	
Manager, Operations & Maintenance	\$ 173.49	\$ -	9	1	1	9	0	\$ 1,561.39	\$ -	\$ 1,561.39	
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	0	1	0	0	\$ -	\$ -	\$ -	
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	0	1	0	0	\$ -	\$ -	\$ -	
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	0	0	1	0	0	\$ -	\$ -	\$ -	
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -	
Project Coordinator	\$ 100.53	\$ 99.42	0	0	1	0	0	\$ -	\$ -	\$ -	
SCADA Engineer	\$ 147.06	\$ 152.02	0	0	1	0	0	\$ -	\$ -	\$ -	
Water Operations Superintendent	\$ 114.92	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Operations Supervisor	\$ 160.33	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Plant	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -	
<i>Hour Totals:</i>							330	0			
								<i>Sum of Overtime Cost</i>	\$	-	
								<i>Sum of Regular Time Cost</i>	\$	48,232.56	
								<i>Tot Fully Burdened Labor Cost</i>	\$	48,232.56	
								<i>Materials</i>	\$	-	
								<i>Vehicles & Equipment</i>	\$	-	
								<i>Contracts</i>	\$	50,000.00	
								<i>Step Total</i>	\$	98,232.56	

**San Luis & Delta-Mendota Water Authority
E2015002 ONP Arc Flash Study (FY2021)
EO&M Project
Contracts Cost Breakdown**

Contract Description	Qty	Unit	Unit Rate	Total
USBR Service Contract	1	LS	\$ 50,000	\$ 50,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 50,000.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: E2020001

Project Code: H2-2021

Priority: B-3-b

Facility: JPP

Project Title: Unit Rewind (Rotor & Stator) (Unit 1 Labor Only)

Estimated Total Cost: \$711,400.00

IN-HOUSE COSTS: ***Labor:*** \$711,400.00 ***Materials:*** \$0.00 ***Equipment:*** \$0.00

CONTRACT COSTS: \$0.00

Project Description and Scope:

The SLDMWA labor required to support this project is associated with the following activities: project management, unit disassembly, shaft centerline verification, 100T gantry crane support for contractor, unit assembly, shaft alignment and performance testing.

Project Purpose and Background:

Since SLDMWA will be financing the project, to reduce the overall loan amount, the labor SLDMWA labor cost is separated from all other costs.

Project Status:

FY2021 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

E2020001 - JPP Unit No. 1 Rewind Project (LABOR ONLY)

Total Fully Burdened Labor Cost	\$ 711,400.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ -
	<hr/>
Project Grand Total	\$ <u>711,400.00</u>

Date Proposal Completed: 8/14/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
E2020001 JPP Unit No 1 Rewind (FY2021) LABOR ONLY
EO&M Project Cost Summary**

FY2021 E2020001 - JPP Unit No. 1 Rewind Project (LABOR ONLY)	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 120.53	\$ 123.49	200	1	1	200	40	\$ 24,106.00	\$ 4,939.60	\$ 29,045.60
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	700	1	1	700	80	\$ 84,371.00	\$ 9,879.20	\$ 94,250.20
C&I Technician	\$ 134.94	\$ 140.83	600	1	1	600	60	\$ 80,964.00	\$ 8,449.80	\$ 89,413.80
Canal Operator	\$ 80.14	\$ 74.88	0	1	1	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 144.84	\$ 152.73	0	1	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 147.18	\$ 155.56	300	1	1	300	40	\$ 44,154.00	\$ 6,222.40	\$ 50,376.40
Electrician	\$ 131.94	\$ 137.21	960	1	1	960	160	\$ 126,662.40	\$ 21,953.60	\$ 148,616.00
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 97.48	\$ 95.76	250	1	1	250	0	\$ 24,370.00	\$ -	\$ 24,370.00
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	160	1	1	160	0	\$ 23,790.40	\$ -	\$ 23,790.40
Equipment Operator	\$ 92.99	\$ 90.36	0	1	1	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 101.96	\$ 101.15	0	1	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 148.69	\$ -	50	1	1	50	0	\$ 7,434.50	\$ -	\$ 7,434.50
Maintenance Supt., Civil	\$ 117.92	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 85.97	\$ 81.91	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	1	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 168.82	\$ -	216	1	1	216	0	\$ 36,465.12	\$ -	\$ 36,465.12
Manager, Operations & Maintenance	\$ 173.49	\$ -	80	1	1	80	0	\$ 13,879.20	\$ -	\$ 13,879.20
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	1200	1	1	1200	120	\$ 158,328.00	\$ 16,465.20	\$ 174,793.20
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	120	1	1	120	8	\$ 17,661.60	\$ 1,244.48	\$ 18,906.08
Project Coordinator	\$ 100.53	\$ 99.42	0	1	1	0	0	\$ -	\$ -	\$ -
SCADA Engineer	\$ 147.06	\$ 152.02	0	1	1	0	0	\$ -	\$ -	\$ -
Water Operations Superintendent	\$ 114.92	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 160.33	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Plant	\$ 148.69	\$ 157.37	0	1	1	0	0	\$ -	\$ -	\$ -

Hour Totals:

4836

508

Sum of Overtime Cost	\$ 69,154.28
Sum of Regular Time Cost	\$ 642,186.22
Tot Fully Burdened Labor Cost	\$ 711,340.50
Materials	\$ -
Vehicles & Equipment	\$ -
Contracts	\$ -
Step Total	\$ 711,340.50

Note: Shaft alignment labor included in estimate

*San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet*

Project No.: M2012004

Project Code: E4-2021

Priority: B-3-b

Facility: ONP

Project Title: Rehabilitate Penstock Interior Coating

Estimated Total Cost: \$714,700.00

IN-HOUSE COSTS: *Labor:* \$226,100.00 *Materials:* \$50,300.00 *Equipment:* \$0.00

CONTRACT COSTS: \$438,300.00

Project Description and Scope:

This project is to remove the existing coating, repair the severely pitted sections of the pipe and recoat the entire steel portion of the interior of the penstocks. The plan is to complete one penstock per year beginning in 2017 until all penstocks have been rehabilitated. The SLDMWA staff will dewater and prepare the penstocks for entry. (NOTE: Prior to any work inside the penstock, the existing coating will be tested for lead and PCB's. If these contaminants are present, all proper handling and disposal procedures will be followed.) The flowmeters will be removed from the penstock interiors. A contractor will then sandblast and remove and properly dispose the existing coating. The SLDMWA staff will assess the condition of the sandblasted steel surface and make the necessary repairs to the steel pipe. After the pitted surfaces have been repaired, the contractor will recoat the penstocks with a Reclamation approved coating. The SLDMWA will reinstall the flowmeters. (NOTE: after installation the flowmeters will be properly aligned by their manufacturer's installation representative) The SLDMWA staff will return the penstock to service and test the flow meters for proper operation.

Project Purpose and Background:

The purpose of this project is to remove and properly dispose of the 50 year old deteriorated coating from the interior of each of the O'Neill P/G Plant penstocks, repair the pitted surfaces and replace the coating with a Reclamation approved coating to restore the penstocks to a like new condition. Over the years, the existing coating on each of the penstocks has been spot repaired. Recent Reclamation RO&M examination reports have identified coating failures in each of the penstocks and recommends a plan be developed to rehabilitate penstock interiors, as soon as possible, to prevent further damage to the steel pipe.

NOTE: PCB's were found in the existing coating of the Unit 6 penstock. As a result, it is assumed that all the penstock existing coatings will contain PCB's. Prior to any work on the interior coating, paint samples will be tested for PCB's. All proper handling/disposal procedures will be followed when working with the PCB contaminated coatings.

Project Status:

FY2021 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

M2012004 OPP Rehabilitate Penstock Interior Coating (Unit 4)

Total Fully Burdened Labor Cost	\$	226,100.00
Total Materials	\$	50,300.00
Total Vehicles & Equipment	\$	-
Total Contracts	\$	438,300.00
		<hr/>
Project Grand Total	\$	<u>714,700.00</u>

Date Proposal Completed: 10/03/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
M2012004 Rehabilitate Penstock Interior Coating (FY2021)
EO&M Project Cost Summary

FY2021 M2012004 OPP Rehabilitate Penstock Interior Coating (Unit 4)	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 120.53	\$ 123.49	80	1	1	80	0	\$ 9,642.40	\$ -	\$ 9,642.40
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	80	1	1	80	0	\$ 9,642.40	\$ -	\$ 9,642.40
C&I Technician	\$ 134.94	\$ 140.83	32	1	1	32	0	\$ 4,318.08	\$ -	\$ 4,318.08
Canal Operator	\$ 80.14	\$ 74.88	0	0	0	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 144.84	\$ 152.73	0	0	0	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 147.18	\$ 155.56	0	0	0	0	0	\$ -	\$ -	\$ -
Electrician	\$ 131.94	\$ 137.21	80	1	1	80	0	\$ 10,555.20	\$ -	\$ 10,555.20
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	418	1	1	418	0	\$ 62,152.42	\$ -	\$ 62,152.42
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 97.48	\$ 95.76	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	40	1	1	40	0	\$ 5,947.60	\$ -	\$ 5,947.60
Equipment Operator	\$ 92.99	\$ 90.36	40	1	1	40	0	\$ 3,719.60	\$ -	\$ 3,719.60
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	18	1	1	18	0	\$ 2,649.24	\$ -	\$ 2,649.24
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	0	0	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	0	0	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 101.96	\$ 101.15	0	0	0	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 148.69	\$ -	44	1	1	44	0	\$ 6,542.36	\$ -	\$ 6,542.36
Maintenance Supt., Civil	\$ 117.92	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 85.97	\$ 81.91	80	2	1	160	0	\$ 13,755.20	\$ -	\$ 13,755.20
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	0	0	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 168.82	\$ -	96	1	1	96	0	\$ 16,206.72	\$ -	\$ 16,206.72
Manager, Operations & Maintenance	\$ 173.49	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	0	0	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	120	2	1	240	0	\$ 31,665.60	\$ -	\$ 31,665.60
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	0	0	0	0	0	\$ -	\$ -	\$ -
Project Coordinator	\$ 100.53	\$ 99.42	490	1	1	490	0	\$ 49,259.70	\$ -	\$ 49,259.70
SCADA Engineer	\$ 147.06	\$ 152.02	0	0	0	0	0	\$ -	\$ -	\$ -
Water Operations Superintendent	\$ 114.92	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 160.33	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Plant	\$ 148.69	\$ 157.37	0	0	0	0	0	\$ -	\$ -	\$ -
<i>Hour Totals:</i>						1818	0			
								<i>Sum of Overtime Cost</i>	\$	-
								<i>Sum of Regular Time Cost</i>	\$	226,056.52
								<i>Tot Fully Burdened Labor Cost</i>	\$	226,056.52
								<i>Materials</i>	\$	50,300.00
								<i>Vehicles & Equipment</i>	\$	-
								<i>Contracts</i>	\$	438,250.00
								<i>Step Total</i>	\$	714,606.52

San Luis & Delta-Mendota Water Authority
M2012004 Rehabilitate Penstock Interior Coating (FY2021)
EO&M Project
Materials Cost Breakdown

<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
Misc. fastening & repair parts (PVC included)	1	LS	\$ 5,000	\$ 5,000.00
PPE	1	LS	\$ 1,200	\$ 1,200.00
Pitted Surface Repair Epoxy	1	LS	\$ 40,000	\$ 40,000.00
Welding Rod for Pitted Surface Repairs	1	LS	\$ 2,600	\$ 2,600.00
Misc. Consumables	1	LS	\$ 1,500	\$ 1,500.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Materials Total: \$ 50,300.00

Note: 3%/year inflation adjustment included in unit cost

San Luis & Delta-Mendota Water Authority
M2012004 Rehabilitate Penstock Interior Coating (FY2021)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Coating removal/disposal & surface preparation and repainting	1	LS	\$ 425,000	\$ 425,000.00
Coating sampling costs	1	LS	\$ 2,500	\$ 2,500.00
HazMat Consulting Fees	1	LS	\$ 3,000	\$ 3,000.00
Contract Advertising Fees	1	LS	\$ 250	\$ 250.00
Accusonic Installation Certification Service	1	LS	\$ 7,500	\$ 7,500.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 438,250.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: M2015006

Project Code: E2-2021

Priority: B-3-b

Facility: ONP

Project Title: Rehabilitate Pump Assemblies - Phase 5

Estimated Total Cost: \$1,293,300.00

IN-HOUSE COSTS: **Labor:** \$782,300.00 **Materials:** \$56,800.00 **Equipment:** \$25,000.00

CONTRACT COSTS: \$429,200.00

Project Description and Scope:

This project will consist of a complete disassembly of the unit mechanical components from the motor/generator assembly to the pump suction piece. All of the internal and external pieces will be transported to the Tracy Office, or to a specialty industrial contractor, for rehabilitation. The rehabilitation work will include sandblasting the deteriorated coatings, repairing the corroded/pitted surfaces and repainting the components with a Reclamation approved coating.

All of the pump internal components will be checked for adequate wall thickness and any weld repairs will be performed by our in-house staff. The erosion/corrosion on the pump vanes will receive weld repairs. The pump bearing carriers will be replaced and the pump bearing mounting assembly will be rehabilitated/repaired at the Tracy Machine Shop.

Upon completion of all the rehabilitation work the unit will be completely reassembled. This project is expected to take 9 months to complete. The plan is to start in April and complete the work in December.

To minimize unit outages, this work is planned to be performed in conjunction with the OPP Rehabilitate Penstock Interiors project on the same unit. In addition, these two projects should be performed in consecutive years until all the units have been completed.

(NOTE: The exterior coating on the external pieces tested positive for Lead. All proper handling/disposal procedures will be followed when working with the Lead contaminated pieces.)

Project Purpose and Background:

The purpose of this project is to completely rehabilitate the mechanical components of the six (6) OPP units to prevent reliability issues and to extend the life of the components. The mechanical components of the pump/generating units at O'Neill are approaching 50 years in age. The units have been reliable and have been functioning satisfactorily, but there are signs of corrosion, minor cavitation and coating failures. Once this project has been completed, these units should perform satisfactorily for another 50 years.

Operational Note: With current operational requirements, having one unit unavailable during this planned period should not impact our ability to make all deliveries and move any excess water into San Luis Reservoir for storage. Having the DCI (Delta Mendota-California Aqueduct-Intertie) available will ensure that even at maximum pumping at the Jones Pumping Plant (JPP) no water will be lost.

Project Status:

FY2021Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

M2015006 OPP Rehabilitate Pump Assemblies

Total Fully Burdened Labor Cost	\$ 782,300.00
Total Materials	\$ 56,800.00
Total Vehicles & Equipment	\$ 25,000.00
Total Contracts	\$ 429,200.00
	<hr/>
Project Grand Total	\$ 1,293,300.00

Date Proposal Completed: 10/03/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
M2015006 Rehabilitate Pump Assemblies (FY2021)
EO&M Project Cost Summary**

FY2021 M2015006 OPP Rehabilitate Pump Assemblies	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost	
	A	B	C	D	E	F	G	H	I	J	
						C x D x E		=A x F	=B x G	= sum H + I	
Apprentice Electrician	\$ 120.53	\$ 123.49	580	1	1	580	0	\$ 69,907.40	\$ -	\$ 69,907.40	
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	580	1	1	580	0	\$ 69,907.40	\$ -	\$ 69,907.40	
C&I Technician	\$ 134.94	\$ 140.83	160	1	1	160	0	\$ 21,590.40	\$ -	\$ 21,590.40	
Canal Operator	\$ 80.14	\$ 74.88	0	0	0	0	0	\$ -	\$ -	\$ -	
Control Operator	\$ 144.84	\$ 152.73	0	0	0	0	0	\$ -	\$ -	\$ -	
Electrical Foreman	\$ 147.18	\$ 155.56	0	0	0	0	0	\$ -	\$ -	\$ -	
Electrician	\$ 131.94	\$ 137.21	660	1	1	660	0	\$ 87,080.40	\$ -	\$ 87,080.40	
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	120	1	1	120	0	\$ 17,842.80	\$ -	\$ 17,842.80	
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Junior	\$ 97.48	\$ 95.76	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	800	1	1	800	0	\$ 118,952.00	\$ -	\$ 118,952.00	
Equipment Operator	\$ 92.99	\$ 90.36	250	2	1	500	0	\$ 46,495.00	\$ -	\$ 46,495.00	
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	400	1	1	400	0	\$ 58,872.00	\$ -	\$ 58,872.00	
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	0	0	0	0	\$ -	\$ -	\$ -	
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	0	0	0	0	\$ -	\$ -	\$ -	
Maintenance Foreman	\$ 101.96	\$ 101.15	0	1	1	0	0	\$ -	\$ -	\$ -	
Safety Engineer	\$ 148.69	\$ -	40	1	1	40	0	\$ 5,947.60	\$ -	\$ 5,947.60	
Maintenance Supt., Civil	\$ 117.92	\$ -	40	1	1	40	0	\$ 4,716.80	\$ -	\$ 4,716.80	
Maintenance Worker	\$ 85.97	\$ 81.91	120	2	1	240	0	\$ 20,632.80	\$ -	\$ 20,632.80	
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	160	1	1	160	0	\$ 15,009.60	\$ -	\$ 15,009.60	
Manager, Planning & Engineering	\$ 168.82	\$ -	120	1	1	120	0	\$ 20,258.40	\$ -	\$ 20,258.40	
Manager, Operations & Maintenance	\$ 173.49	\$ -	120	1	1	120	0	\$ 20,818.80	\$ -	\$ 20,818.80	
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	0	0	0	0	\$ -	\$ -	\$ -	
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	0	0	0	0	\$ -	\$ -	\$ -	
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	660	2	1	1320	0	\$ 174,160.80	\$ -	\$ 174,160.80	
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	40	1	1	40	0	\$ 5,887.20	\$ -	\$ 5,887.20	
Project Coordinator	\$ 100.53	\$ 99.42	240	1	1	240	0	\$ 24,127.20	\$ -	\$ 24,127.20	
SCADA Engineer	\$ 147.06	\$ 152.02	0	0	0	0	0	\$ -	\$ -	\$ -	
Water Operations Superintendent	\$ 114.92	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	
Operations Supervisor	\$ 160.33	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -	
Engineer, Plant	\$ 148.69	\$ 157.37	0	0	0	0	0	\$ -	\$ -	\$ -	
<i>Hour Totals:</i>						6120	0	<i>Sum of Overtime Cost</i>			\$ -
								<i>Sum of Regular Time Cost</i>			\$ 782,206.60
								<i>Tot Fully Burdened Labor Cost</i>			\$ 782,206.60
								<i>Materials</i>			\$ 56,710.00
								<i>Vehicles & Equipment</i>			\$ 25,000.00
								<i>Contracts</i>			\$ 429,160.00
								<i>Step Total</i>			\$ 1,293,076.60

San Luis & Delta-Mendota Water Authority
M2015006 Rehabilitate Pump Assemblies (FY2021)
EO&M Project
Materials Cost Breakdown

<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
Sandblast & Painting & Supplies (In house work)	1	LS	\$ 7,500	\$ 7,500.00
Misc. Steel & Supplies	1	LS	\$ 20,000	\$ 20,000.00
Misc Parts & Materials	1	LS	\$ 20,000	\$ 20,000.00
PPE (Lead paint issue)	1	LS	\$ 2,060	\$ 2,060.00
Metal Epoxy Repair Kit (Belzona)	1	LS	\$ 5,150	\$ 5,150.00
Misc. Consumables	1	LS	\$ 2,000	\$ 2,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Materials Total: \$ 56,710.00

Note: 3%/year inflation adjustment included in unit cost

San Luis & Delta-Mendota Water Authority
M2015006 Rehabilitate Pump Assemblies (FY2021)
EO&M Project
Vehicles & Equipment Cost Breakdown

<i>Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Rate</i>	<i>Total</i>
Scaffold Rental	1	LS	\$ 25,000	\$ 25,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Vehicles & Equipment Total: \$ 25,000.00

Note: 3%/year inflation adjustment included in unit rate

San Luis & Delta-Mendota Water Authority
M2015006 Rehabilitate Pump Assemblies (FY2021)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Sandblast & Painting Contract (Elbow, Tapered & Bowl Sections)	1	LS	\$ 60,000	\$ 60,000.00
Discharge bowl machining	1	LS	\$ 35,000	\$ 35,000.00
Dresser coupling fabrication	1	LS	\$ 6,180	\$ 6,180.00
Upper enclosure tube fabrication	1	LS	\$ 20,600	\$ 20,600.00
Shaft Sleeve Rehabilitation Services (2 upper & 1 lower)	1	LS	\$ 36,050	\$ 36,050.00
Engineering Services (Weld Testing & USBR Insp/Tech Services)	1	LS	\$ 10,300	\$ 10,300.00
Transportation Permits & Fee's	1	LS	\$ 1,030	\$ 1,030.00
Lead Abatement Services (Testing & Abatement Exterior Coatings)	1	LS	\$ 120,000	\$ 120,000.00
Shaft Alignment Services	2	EA	\$ 40,000	\$ 80,000.00
Shaft Evaluation and Machining	1	LS	\$ 60,000	\$ 60,000.00

Contracts Total: \$ 429,160.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: E1995005

Project Code: G3-2021

Priority: B-3-c

Facility: ONP

Project Title: Main Transformer Rehabilitation - Phase 1

Estimated Total Cost: \$240,600.00

IN-HOUSE COSTS: *Labor:* \$62,200.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$178,400.00

Project Description and Scope:

The O'Neill plant is fed via a PG&E 69 KV line, through a WAPA circuit breaker, to 69KV to 4.16KV transformers. These are the original transformers from 1968 and the spare transformer has never been placed into service. These transformers are critical to the operation of the plant and should have a major servicing on a regular basis. In 2000, the oil in all four transformers was serviced by cleaning and testing. This type of service should be performed again starting in 2019, running through 2022.

Each phase will rehabilitate one (1) transformer.

Project Purpose and Background:

The transformers are critical to the plant and the oil in the transformers have a defined service life. By cleaning and replenishing the necessary additives on a regular basis, the service lives can be extended and the transformers can remain reliable. By doing one transformer a year, we hope that we can do this service with minimum downtime, and allow us to bring the 'spare' transformer into service, so that all transformers are confirmed to be operational and have equal lives.

Project Status:

FY2021Project - Awaiting approval/funding.

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY 2021

E1995005 - Main Transformer Rehabilitation

Total Fully Burdened Labor Cost	\$ 62,200.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 178,400.00
	<hr/>
Project Grand Total	\$ 240,600.00

Date Proposal Completed: 10/03/2018_BM

NOTE: Labor cost is roundup to the nearest \$100.

San Luis & Delta-Mendota Water Authority
E1995005 ONP Main Transformer Rehabilitation (FY2021)
EO&M Project Cost Summary

FY 2021 E1995005 - Main Transformer Rehabilitation	a	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 120.53	\$ 123.49	16	1	1	16	0	\$ 1,928.55	\$ -	\$ 1,928.55
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	0	0	0	0	0	\$ -	\$ -	\$ -
C&I Technician	\$ 134.94	\$ 140.83	0	0	0	0	0	\$ -	\$ -	\$ -
Canal Operator	\$ 80.14	\$ 74.88	0	0	0	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 144.84	\$ 152.73	0	0	0	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 147.18	\$ 155.56	0	0	0	0	0	\$ -	\$ -	\$ -
Electrician	\$ 131.94	\$ 137.21	16	1	1	16	0	\$ 2,110.98	\$ -	\$ 2,110.98
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	8	1	1	8	0	\$ 1,189.53	\$ -	\$ 1,189.53
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 97.48	\$ 95.76	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	160	1	1	160	0	\$ 23,790.59	\$ -	\$ 23,790.59
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	0	0	0	0	0	\$ -	\$ -	\$ -
Equipment Operator	\$ 92.99	\$ 90.36	0	0	0	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	16	1	1	16	0	\$ 2,354.87	\$ -	\$ 2,354.87
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	0	0	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	0	0	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 101.96	\$ 101.15	0	0	0	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 148.69	\$ -	36	1	1	36	0	\$ 5,352.88	\$ -	\$ 5,352.88
Maintenance Supt., Civil	\$ 117.92	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 85.97	\$ 81.91	0	0	0	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	0	0	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 168.82	\$ -	40	1	1	40	0	\$ 6,752.70	\$ -	\$ 6,752.70
Manager, Operations & Maintenance	\$ 173.49	\$ -	16	1	1	16	0	\$ 2,775.81	\$ -	\$ 2,775.81
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	0	0	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	0	0	0	0	0	\$ -	\$ -	\$ -
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	0	0	0	0	0	\$ -	\$ -	\$ -
Project Coordinator	\$ 100.53	\$ 99.42	146	1	1	146	0	\$ 14,677.56	\$ -	\$ 14,677.56
SCADA Engineer	\$ 147.06	\$ 152.02	8	1	1	8	0	\$ 1,176.45	\$ -	\$ 1,176.45
Water Operations Superintendent	\$ 114.92	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 160.33	\$ -	0	0	0	0	0	\$ -	\$ -	\$ -
Engineer, Plant	\$ 148.69	\$ 157.37	0	0	0	0	0	\$ -	\$ -	\$ -
						<i>Hour Totals:</i>	462	0		
								<i>Sum of Overtime Cost</i>	\$ -	
								<i>Sum of Regular Time Cost</i>	\$ 62,109.91	
								<i>Tot Fully Burdened Labor Cost</i>	\$ 62,109.91	
								<i>Materials</i>	\$ -	
								<i>Vehicles & Equipment</i>	\$ -	
								<i>Contracts</i>	\$ 178,350.00	
								<i>Step Total</i>	\$ 240,459.91	

San Luis & Delta-Mendota Water Authority
E1995005 ONP Main Transformer Rehabilitation (FY2021)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Oil Testing/Analysis	1	LS	\$ 2,500	\$ 2,500.00
HazMat Testing	1	LS	\$ 850	\$ 850.00
Transformer Rehabilitation Contract	1	LS	\$ 175,000	\$ 175,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 178,350.00

Note: 3%/year inflation adjustment included in cost

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: C1997002

Project Code: E6-2021

Priority: B-4-b

Facility: DMC

Project Title: O&M Road Maintenance Program - Phase 10 of 10

Estimated Total Cost: \$158,600.00

CONTRACT COSTS: \$125,000.00

IN-HOUSE COSTS: *Labor:* \$33,600.00 *Materials:* \$0.00 *Equipment:* \$0.00

Project Description and Discussion:

This phase will install 8.85 miles of a chipseal coat to the 12' wide O&M Road between MP 81.69 and 90.54.

Justification:

The entire length of the O&M road of the Delta-Mendota Canal is traveled daily by operations and maintenance personnel and, in some areas the general public. To extend the life of the O&M road and reduce overall maintenance and/or repair costs, the O&M Technical Committee approved the O&M Road Repair and Maintenance Program in 1998. The Program was organized in three categories: 1. Repair; 2. Rehabilitation, and 3. Maintenance. The O&M Road Repair category work began in 1998 and was completed in 2000. The O&M Road Rehabilitation category work began in 2001 and was completed in 2007. The O&M Road Maintenance Program began in the Summer of 2009 (FY2010). The objective of the O&M Road Maintenance Program is to apply a wearing surface (or chipseal) on approximately one tenth of the DMC roadway annually. The actual lengths and locations will be determined annually based on roadway use and condition.

Project Status:

Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

**C1997002 DMC O&M Road Maintenance Program
MP 81.69 to MP 90.54**

Total Fully Burdened Labor Cost	\$ 33,600.00
Total Materials	\$ -
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 125,000.00
	<hr/>
Project Grand Total	\$ 158,600.00

Date Proposal Completed: 10/03/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
C1997002 DMC O&M Road Maintenance Program (FY2021)
EO&M Project Cost Summary**

FY2021 C1997002 DMC O&M Road Maintenance Program MP 81.69 to MP 90.54	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 120.53	\$ 123.49	0	1	1	0	0	\$ -	\$ -	\$ -
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	0	1	1	0	0	\$ -	\$ -	\$ -
C&I Technician	\$ 134.94	\$ 140.83	0	1	1	0	0	\$ -	\$ -	\$ -
Canal Operator	\$ 80.14	\$ 74.88	0	1	1	0	0	\$ -	\$ -	\$ -
Control Operator	\$ 144.84	\$ 152.73	0	1	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 147.18	\$ 155.56	0	1	1	0	0	\$ -	\$ -	\$ -
Electrician	\$ 131.94	\$ 137.21	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	120	1	1	120	0	\$ 17,842.80	\$ -	\$ 17,842.80
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 97.48	\$ 95.76	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	0	1	1	0	0	\$ -	\$ -	\$ -
Equipment Operator	\$ 92.99	\$ 90.36	0	1	1	0	0	\$ -	\$ -	\$ -
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	1	1	0	0	\$ -	\$ -	\$ -
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Foreman	\$ 101.96	\$ 101.15	0	1	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 148.69	\$ -	16	1	1	16	0	\$ 2,379.04	\$ -	\$ 2,379.04
Maintenance Supt., Civil	\$ 117.92	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker	\$ 85.97	\$ 81.91	0	1	1	0	0	\$ -	\$ -	\$ -
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	1	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 168.82	\$ -	18	1	1	18	0	\$ 3,038.76	\$ -	\$ 3,038.76
Manager, Operations & Maintenance	\$ 173.49	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	1	1	0	0	\$ -	\$ -	\$ -
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	0	1	1	0	0	\$ -	\$ -	\$ -
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	0	1	1	0	0	\$ -	\$ -	\$ -
Project Coordinator	\$ 100.53	\$ 99.42	102	1	1	102	0	\$ 10,254.06	\$ -	\$ 10,254.06
SCADA Engineer	\$ 147.06	\$ 152.02	0	1	1	0	0	\$ -	\$ -	\$ -
Water Operations Superintendent	\$ 114.92	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Operations Supervisor	\$ 160.33	\$ -	0	1	1	0	0	\$ -	\$ -	\$ -
Engineer, Plant	\$ 148.69	\$ 157.37	0	1	1	0	0	\$ -	\$ -	\$ -
<i>Hour Totals:</i>						256	0			
								<i>Sum of Overtime Cost</i>	\$ -	
								<i>Sum of Regular Time Cost</i>	\$ 33,514.66	
								<i>Tot Fully Burdened Labor Cost</i>	\$ 33,514.66	
								<i>Materials</i>	\$ -	
								<i>Vehicles & Equipment</i>	\$ -	
								<i>Contracts</i>	\$ 125,000.00	
								<i>Step Total</i>	\$ 158,514.66	

San Luis & Delta-Mendota Water Authority
C1997002 DMC O&M Road Maintenance Program (FY2021)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Chip & Seal Contract	1	LS	\$ 125,000	\$ 125,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 125,000.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: V1999001

Project Code: D2-2021

Priority: B-5-b

Facility: ALL

Project Title: Heavy Equipment Replacement Program (Reserve Fund)

Estimated Total Cost: \$622,200.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$622,200.00

Project Description and Scope:

The San Luis & Delta-Mendota Water Authority equipment will be replaced or considered for replacement when the equipment is no longer economical to operate and/or maintain. The purpose of this Reserve Project is to set-aside funding annually for replacement of the Authority critical heavy equipment. The Equipment Replacement Plan will be presented for approval each year.

Project Purpose and Background:

The San Luis & Delta-Mendota Water Authority Equipment Replacement Plan objective is to provide safe and efficient equipment in a manner which maximizes the equipments utilization for the Authority.

Project Status:

See attached Heavy Equipment Replacement 10 Year Plan.

Equip #	Equipment	Category	RESP OFC	YEAR	ARB Regulate	Authority Service Life	Forecasted Replacement Year	EQUIPMENT REPLACEMENT COST(FY19\$)	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
2642	Dozer (w/rippers)	1	LBFO	1976	√	40	2020	\$300,000										
697	200 kW Emergency Generator - Trailer Mounted	1	TFO	1999	√	40	2020	\$130,000	\$ 130,000									
NEW	Long Reach Excavator	1	LBFO		√	20	2020	\$350,000	\$ 350,000									
2612	Grader (John Deere)	1	LBFO	1993	√	30	2020	\$345,000	\$ 345,000									
NEW	Bobcat	1	LBFO		√	20	2040	\$75,000	\$ 75,000									
8045	Genie Man Lift (Electric)	1	TFO	1998		20	2021	\$55,000		\$ 55,000								
664	Forklift (4K lb Capacity) JPP (LPG)	1	ONP	1989	√	30	2021	\$35,000		\$ 35,000								
2613	Grader (John Deere)	1	TFO	1993	√	20	2021	\$345,000		\$ 345,000								
2659	Case MX 150 Tractor	1	TFO	1999	√	20	2021	\$151,500		\$ 151,500								
2630	Dump Truck	1	LBFO	2000	√	20	2022	\$178,500			\$ 178,500							
P-799	10" Pump	1	LBFO	1966	√	40	2022	\$60,000			\$ 60,000							
2633	Spray Truck (2.5 Ton)	1	LBFO	2000	√	20	2022	\$140,000			\$ 140,000							
666	Forklift (4K lb Capacity) Pigeon Roost (LPG)	1	ONP	1989	√	30	2022	\$29,000				\$ 29,000						
662	Forklift (5K lb Capacity) ONP SHOP (DSL)	1	ONP	1988	√	30	2023	\$35,000				\$ 35,000						
8001	20-Ton P&H Omega RT Crane	1	LBFO	1988	√	30	2023	\$300,000				\$ 300,000						
8057	JLG Man Lift	1	TFO	2008		20	2023	\$60,000				\$ 60,000						
2648	Front End Loader	1	LBFO	1993	√	30	2024	\$152,800					\$ 152,800					
8058	Truck/Tractor	1	LBFO	2008	√	15	2024	\$145,000					\$ 145,000					
2627	Bottom Belly Dump Trailer	1	LBFO	1996		30	2025	\$60,000						\$ 60,000				
8050	Lowboy Trailer	1	LBFO	2007		20	2027	\$115,000								\$ 115,000		
8052	Flatbed Tilt Trailer	1	TFO	2007		20	2027	\$45,000								\$ 45,000		
8068	Boom Truck (26 Ton Capacity)	1	TFO	2009	√	20	2028	\$257,000									\$ 257,000	
8082	Dump Truck	1	TFO	2011	√	20	2031	\$178,500										
8078	Flatbed Tilt Trailer	1	LBFO	2011		20	2031	\$45,000										
8083	Truck/Tractor	1	ALL	2012	√	20	2032	\$145,000										
8094	Boom Truck	1	LBFO	2012	√	20	2032	\$257,000										
8090	Compact Tracked Loader	1	TFO	2013	√	20	2033	\$70,000										
8099	Water Truck	1	TFO	2013	√	20	2033	\$152,000										
8100	Dump Truck	1	LBFO	2013	√	20	2033	\$178,500										
8112	Backhoe	1	LBFO	2016	√	20	2036	\$128,700										
8113	Backhoe	1	TFO	2016	√	20	2036	\$128,700										
8126	Water Truck	1	LBFO	2017	√	20	2037	\$152,000										
8125	Excavator	1	TFO	2017	√	20	2037	\$320,000										
8065	Forklift (2.5 Ton Capacity) (LPG)	1	TFO	2009	√	30	2039	\$28,500										
8136	Case Magnum 180 Tractor	1	LBFO	2018	√	20	2039	\$151,500										
8072	12' Heavy Duty Disc	1	TFO	2011		30	2041	\$23,000										
8079	Forklift (4000 Lb Capacity) LBFO SHOP (LPG)	1	LBFO	2011	√	30	2041	\$31,500										
8095	Forklift (4K lb Capacity) WH (Electric)	1	TFO	2013	√	30	2043	\$33,000										
8096	Forklift (7.5 Ton Capacity) TFO YARD (LPG)	1	TFO	2013	√	30	2043	\$89,500										
8097	Forklift (10K lb Capacity) LBFO YARD (LPG)	1	LBFO	2013	√	30	2043	\$62,500										
8109	12' Heavy Duty Disc	1	LBFO	2016		30	2046	\$23,000										
8132	Forklift (4K lb Capacity) JPP (Electric)	1	TFO	2018	√	30	2048	\$38,000										
8133	Forklift (4K lb Capacity) SB&Pnt (LPG)	1	TFO	2018	√	30	2048	\$29,500										
8048	Spray Truck (1 Ton)	1	LBFO	2008		10	2018	\$135,000										
2592	2 Ton Service Truck with 2 Ton Hoist	1	JPP	2000		15	2019	\$70,000										
2617	Lowboy Trailer	1	TFO	1979		20	2019	\$115,000										
Total									\$ 900,000	\$ 586,500	\$ 378,500	\$ 424,000	\$ 297,800	\$ 60,000	\$ -	\$ 160,000	\$ 257,000	\$ -
# of Equipment Replaced									4	4	3	4	2	1	0	2	1	0
3% Inflation Factor per Year									\$ 27,000	\$ 35,718	\$ 35,097	\$ 53,216	\$ 47,432	\$ 11,643	\$ -	\$ 42,683	\$ 78,327	\$ -
Yearly Total									\$ 927,000	\$ 622,200	\$ 413,600	\$ 477,200	\$ 345,200	\$ 71,600	\$ -	\$ 202,700	\$ 335,300	\$ -

√ - Emissions regulated by California Air Resources Board (Off Road has bold font)

√ - Currently CARB Compliant

NOTE: Equipment cost rounded to the nearest \$100.

Grand Total \$ 3,394,800

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: V1999002

Project Code: D1-2021

Priority: B-6-c

Facility: ALL

Project Title: Vehicle Replacement (Reserve Fund)

Estimated Total Cost: \$306,700.00

CONTRACT COSTS: \$306,700.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$0.00 *Equipment:* \$0.00

Project Description and Discussion:

The San Luis & Delta-Mendota Water Authority vehicles will be replaced or considered for replacement when the criteria for the Authority Vehicle Replacement Policy has been met. The purpose of this Reserve Project is to set-aside funding annually for replacement of the Authority vehicles. The Authority Vehicle Replacement Plan will be presented for approval each year.

Justification:

The San Luis & Delta-Mendota Water Authority Vehicle Replacement Policy objective is to provide safe and efficient operating vehicles in a manner which maximizes the vehicles utilization for the Authority.

Project Status:

See attached Vehicle Replacement 10 Year Plan.

Veh No.	FRONT LINE VEHICLE DESCRIPTION	2019	Vehicle User	Model Year	Assigned To:	B	C	D	E				2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
						Est. MILEAGE ON 3/1/2019	Average Miles Per Year	Calculated Years to Replacement (150K or 15 yrs) ^{1,2}	Calculated FY for Replacement (Mileage or Age)	Est. Mileage at Replacement	Proposed FY for Replacement	Estimated Replacement Cost (FY2019\$)										
8092	3/4 Ton Pickup w/Utility Body ²		M. Costa	2013	LBFO Canal Operations	171,697	30,176	-1	2018	171,697	2020	\$40,000	\$40,000				\$40,000					
8104	1/2 Ton Pickup		S. Posey	2014	LBFO Canal Operations	171,750	38,598	0	2019	171,750	2020	\$24,000	\$24,000				\$24,000					
8101	Mid Size SUV 4WD		P. Stearns	2014	Operations Manager	137,386	26,403	1	2020	137,386	2020	\$33,000	\$33,000					\$33,000				
8041	1 Ton Pickup w/Utility Body - Diesel		CMT	2007	TFO Civil Maint.	143,592	9,995	1	2020	143,592	2020	\$60,000	\$60,000							\$2,020		
2601	3/4 Ton Pickup		JPP	2001	JPP Machine Shop	72,189	2,919	15	2016	75,108	2021	\$24,000		\$24,000								
2606	3/4 Ton Pickup w/Utility Body		M. Izoco	2002	Oneill PP	58,723	1,997	15	2017	60,720	2021	\$40,000		\$40,000								
8077	1/2 Ton Pickup		J. McNeil	2011	Civil Engineer	146,043	6,941	1	2020	152,984	2021	\$24,000		\$24,000								
8033	3/4 Ton Pickup		J. Miller	2006	JPP Machine Shop	75,330	1,462	15	2021	76,792	2021	\$27,000		\$27,000								
8074	3/4 Ton Pickup w/Utility Body ²		L. Simonich	2011	TFO Canal Operations	142,585	23,473	-3	2016	166,058	2021	\$40,000		\$40,000						\$40,000		
8032	3/4 Ton Pickup		M. Garcia	2006	LBFO Civil Maint.	91,902	5,441	11	2021	97,343	2021	\$27,000		\$27,000								
8034	3/4 Ton Pickup w/Utility Body		ESHOP	2006	TFO Electric Shop	69,319	2,338	15	2021	71,657	2021	\$40,000		\$40,000								
8035	3/4 Ton Pickup w/Utility Body		ESHOP	2006	TFO Civil Maint.	76,566	2,204	15	2021	78,770	2021	\$40,000		\$40,000								
8076	1/2 Ton Pickup		B. Soares	2011	LBFO Civil Maint.	135,960	15,592	1	2020	151,552	2021	\$27,000		\$27,000								
8091	Small SUV		J. Lenhardt	2013	Safety Engineer	67,891	12,563	8	2027	93,017	2022	\$29,000			\$29,000							
8107	3/4 Ton Pickup w/Utility Body ²		G. Dingman	2016	TFO Canal Operations	41,018	9,954	11	2030	60,926	2022	\$40,000			\$2,022						\$40,000	
8102	Mid Sized Sedan		T. Boardman	2014	WR Engineer	89,607	19,048	4	2023	146,751	2023	\$26,500				\$26,500						
8062	1/2 Ton Pickup		J. Amaya	2009	TFO Electric Shop	76,448	3,080	15	2024	85,688	2023	\$24,000				\$2,023						
8073	3/4 Ton 4x4 Pickup		N. Barletta	2011	TFO Civil Maint.	56,193	6,175	15	2026	74,718	2023	\$32,000				\$32,000						
8086	1/2 Ton Pickup		R. Nazabel	2012	TFO Civil Maint.Foreman	74,249	9,544	8	2027	102,881	2023	\$24,000				\$2,023						
8129	1/2 Ton Ext Cab 4X4 ²		P. Nacci	2018	LBFO Canal Operations	26,475	35,300	4	2023	132,375	2023	\$30,500				\$30,500					\$2,023	
8108	Small SUV		B. Martin	2016	Engineering Manager	59,886	24,178	4	2023	132,420	2023	\$30,000				\$2,023						\$2,023
8122	1/2 Ton Pickup ²		K. Silva	2017	TFO Canal Operations	40,042	23,978	3	2022	135,954	2024	\$24,000					\$2,024					\$2,024
8127	Toyota Prius ¹		F. Mizuno	2017	Asst Executive Director	21,518	20,348	2	2021	102,910	2024	\$28,000					\$28,000					\$2,024
8124	1/2 Ton Pickup		J. Oxenrider	2017	Operations Supervisor	36,684	22,577	6	2025	126,992	2024	\$24,000					\$2,024					\$2,024
8123	1/2 Ton Pickup ²		Rodney Huff	2017	LBFO Canal Operations	42,806	26,820	3	2022	150,086	2024	\$24,000					\$2,024					\$2,024
8119	1/2 Ton Ext Cab 4X4 ²		Walsh	2017	LBFO Eng. HT3	45,188	27,061	3	2022	153,432	2024	\$36,000					\$36,000					\$2,024
8069	3/4 Ton Pickup		Equip. Oper	2010	TFO Civil Maint.	80,042	16,274	5	2024	161,412	2025	\$27,000					\$27,000					
8131	1/2 Ton Pickup		C. Lee	2018	Watermaster	13,667	20,500	7	2026	116,167	2025	\$24,000					\$24,000					
8103	3/4 Ton Pickup. 4WD		Robert Huff	2014	LBFO Civil Maint	62,727	12,134	8	2027	123,397	2025	\$32,000					\$32,000					
8120	Mid Sized Sedan		S. Davis	2017	IT	39,022	22,515	5	2024	151,597	2025	\$26,500					\$2,025					
	1/2 Ton Pickup		C. Hackett	2018	LBFO Canal Operations				2019		2025	\$24,000					\$2,025					
8118	1/2 Ton Pickup		A. Singh	2017	Mechanical Engineer	21,063	12,023	11	2030	105,224	2027	\$24,000									\$24,000	
8061	1 Ton Pickup w/Utility Body		JPP	2009	JPP Machine Shop	14,070	1,193	15	2024	22,421	2027	\$46,000									\$2,027	
8081	Small SUV		D. Lakey	2012	SCADA Integrator	43,064	6,686	15	2027	89,866	2027	\$27,000									\$2,027	
8110	3/4 Ton Pickup w/Utility Body		A. Jorge	2016	LBFO Civil Maint	26,945	6,217	15	2031	70,464	2027	\$40,000									\$2,027	
8098	Minivan-Service Van		Y. Suarez	2013	OPP C&I	28,709	5,145	15	2028	69,869	2028	\$26,000									\$26,000	
8105	1 Ton Utility Truck-Diesel		CMLB	2014	LBFO Civil Maint.	55,450	11,782	9	2028	161,488	2029	\$60,000										\$2,029
8106	1 Ton Utility Truck - Diesel		T. Romero	2014	TFO Civil Maint.	13,870	1,727	15	2029	29,413	2029	\$60,000										\$2,029
8111	1 Ton Pickup w/Utility Body		R. Bertao	2016	LBFO Civil Maint	12,840	5,272	15	2031	65,560	2030	\$45,000										
8067	Full Size Sedan ¹		LBAO	2010	Executive Director	104,810	11,646	-4	2015	93,164	2019	\$37,000							\$2,019			
8137	3/4 Ton Pickup w/Flat Bed (Spray Truck)		CMLB	2018	LBFO Civil Maint.	10,000	10,000	14	2033	140,000	2033	\$34,000										
8036	1 Ton Pickup w/Utility Body - Diesel		CMT	2006	TFO Civil Maint.	154,404	11,877	-1	2018	142,527	2019	\$55,000										
8049	1 Ton Pickup w/Utility Body - Diesel		CMLB	2008	LBFO Civil Maint.	159,049	14,459	-1	2018	144,590	2019	\$55,000										

Notes:

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- Exec. Director & Asst. Exec. Director vehicles to be replaced every 5 years and reassigned to another Department.
- TFO & LBFO Canal Operations high mileage vehicles shall be replaced every 5 or 6 years and reassigned to another Department.
- Vehicle mileage reflects partial year use.

Total	\$ 157,000	\$ 289,000	\$ 31,022	\$ 95,069	\$ 70,072	\$ 151,050	\$ 35,019	\$ 72,101	\$ 68,023	\$ 14,177	
# of Vehicles Replaced	4	9	2	6	5	7	2	6	3	7	
3% Inflation Factor per Year	\$ 4,710	\$ 17,600	\$ 2,877	\$ 11,932	\$ 11,161	\$ 29,312	\$ 8,050	\$ 19,234	\$ 20,732	\$ 4,876	
Total Dollar Amount	\$ 161,800	\$ 306,700	\$ 33,900	\$ 107,100	\$ 81,300	\$ 180,400	\$ 43,100	\$ 91,400	\$ 88,800	\$ 19,100	
NOTE: Vehicle replacement costs rounded up to the nearest \$500.										Grand Total	\$ 1,094,500

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: C2011001

Project Code: D3-2021

Priority: B-7-c

Facility: ALL

Project Title: Facility Infrastructure Replacement/Rehabilitation Program

Estimated Total Cost: \$55,000.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$0.00 *Equipment:* \$0.00

CONTRACT COSTS: \$55,000.00

Project Description and Scope:

The reserve funds set aside for this project will be utilized for planned repairs/rehabilitation and/or improvements to the facilities the SLDMWA has the responsibility to operate and maintain. The typical type of project to be funded will be associated with facility repairs/rehabilitation and/or improvements in the following areas: Roofing Systems, Building Interior/Exterior Components, Building HVAC Systems, Building Electrical & Communication Systems, Building Plumbing Systems, Building Fire Protections Systems, and Building Pavement & Grounds.

Project Purpose and Background:

The San Luis & Delta-Mendota Water Authority is responsible for the operation, maintenance, rehabilitation and replacement of C.W. "Bill" Jones Pumping Plant, O'Neill Pumping/Generating Plant and all their supporting O&M facilities. The majority of the facilities were constructed in the 1950's and 1960's and the existing buildings on the Tracy Compound were built in 1996. The purpose of this reserve fund is to fund required repairs/rehabilitation projects as they are needed.

Project Status:

See attached Facility Infrastructure 10 Year Plan.

**San Luis & Delta-Mendota Water Authority
Facility Infrastructure 10 Year Plan**

	How Often (Yrs)	Est. Cost (x1000) in 2014\$	Year Last Performed	Forecasted Years	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Tracy Field Office Facilities					\$ 79	\$ 52	\$ 196	\$ 46	\$ 52	\$ 77	\$ 25	\$ 16	\$ -	\$ 45
Entire O&M Compound					\$ 79	\$ -	\$ -	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Asphalt Pavement Areas					\$ -	\$ -	\$ -	\$ 46	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Seal Coat Surfacing & Striping (incl USBR Lot)	5	41	2017	2022				\$ 46						
Alarm & Security Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Fire Alarm System Replacement	30	20	2011	2041										
Security System Replacement	20	25	2012	2032										
Wash Water Recycling System					\$ 79	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Recycling System Replacement	20	75	1996	2016	\$ 79									
Aboveground Fuel Storage System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Tank Replacement	40	20	1996	2036										\$ 20
Fuel Dispensing System Replacement	15	20	2015	2030										\$ 20
Fuel Management Software Replacement (1995)	15	5	2015	2030										\$ 5
Control Building (67 Years Old)					\$ -	\$ 15	\$ -	\$ -	\$ 15	\$ -	\$ -	\$ 10	\$ -	\$ -
Roofing Systems					\$ -	\$ 15	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roof Re-seal/Overlay/Replacement	20	15	1998	2018		\$ 15								
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ 15	\$ -	\$ -	\$ 10	\$ -	\$ -
Interior Maintenance (Painting)	20	10	2007	2027							\$ 10			
Kitchen Remodel	25	15	1980	2005					\$ 15					
Flooring Replacement (Carpet/Tile)	20	15	2007	2027										
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	10	2011	2031										
Air Conditioning System Replacement	20	30	2011	2031										
Ventilation System Replacement	20	10	2011	2031										
Warehouse Building (23 Years Old)					\$ -	\$ 17	\$ -	\$ -	\$ 20	\$ 27	\$ -	\$ 6	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 27	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	1996	2021						\$ 27				
Building Interior/Exterior Components					\$ -	\$ 17	\$ -	\$ -	\$ 20	\$ -	\$ -	\$ 6	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	1996	2036										
Interior Maintenance (Painting)	20	5	2007	2027							\$ 6			
Kitchen Remodel	25	15	1996	2021		\$ 17								
Flooring Replacement (Carpet/Tile)	20	20	2007	2027					\$ 20					
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	15	1996	2016										
Air Conditioning System Replacement	20	18	1996	2016										
Ventilation System Replacement	20	10	1996	2016										
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	50	10	1996	2046										

**San Luis & Delta-Mendota Water Authority
Facility Infrastructure 10 Year Plan**

	How Often (Yrs)	Est. Cost (x1000) in 2014\$	Year Last Performed	Forecasted Years	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Adminstration/Electric Shop Building (23 Years Old)					\$ -	\$ -	\$ -	\$ -	\$ 17	\$ 25	\$ -	\$ -	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	1996	2021						\$ 25				
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ 17	\$ -	\$ -	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	1996	2036										
Interior Maintenance (Painting)	20	10	2013	2033										
Office Partition Replacement	20	25	2013	2033										
Kitchen/Lunch Room Remodel	20	15	1996	2016					\$ 17					
Flooring Replacement (Carpet/Tile)	20	15	2013	2033										
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	35	1996	2016										
Air Conditioning System Replacement	20	35	1996	2016										
Ventilation System Replacement	20	20	1996	2016										
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	50	10	1996	2046										
Civil/Vehicle Maintenance Building (23 Years Old)					\$ -	\$ 20	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	1996	2021						\$ 25				
Building Interior/Exterior Components					\$ -	\$ 20	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	1996	2036										
Interior Maintenance (Painting)	20	10	2014	2034										
Flooring Replacement (Tile)	25	20	1996	2021		\$ 20								
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Heater System Replacement	20	10	1996	2016										
Air Conditioning System Replacement	20	10	1996	2016										
Shop Ventilation System Replacement	20	10	1996	2016										
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	50	10	1996	2046										
Sandblast and Paint Building (17 Years Old)					\$ -	\$ -	\$ 196	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 25	\$ -	\$ -	\$ -
Roof Repair/Replacement	25	25	2002	2027							\$ 25			
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	15	2002	2042										
Blast Room Air Flow System					\$ -	\$ -	\$ 196	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Filter Replacement	10	15	2012	2022			\$ 21							
Air Compressor Replacement	20	50	2002	2022			\$ 50							
Shop Ventilation System Replacement	20	50	2002	2022			\$ 50							
Media Collection System	20	75	2002	2022			\$ 75							
Building Fire Protection System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Component Replacement (Sprinklers & Detectors)	30	10	2002	2032										

**San Luis & Delta-Mendota Water Authority
Facility Infrastructure 10 Year Plan**

	How Often (Yrs)	Est. Cost (x1000) in 2014\$	Year Last Performed	Forecasted Years	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Los Banos Field Office & Maintenance Facility					\$ -	\$ -	\$ -	\$ -	\$ 77	\$ -	\$ 37	\$ -	\$ 87	\$ 45
Entire O&M Compound					\$ -	\$ -	\$ -	\$ -	\$ 77	\$ -	\$ -	\$ -	\$ 45	\$ 45
Asphalt Pavement Areas					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Seal Coat Surfacing & Striping (2009)	10	10	2009	2019										
Alarm & Security Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45	\$ -
Fire Alarm System Replacement (2008)	20	20	2008	2028									\$ 20	
Security System Replacement (2008)	20	25	2008	2028									\$ 25	
Wash Water Recycling System					\$ -	\$ -	\$ -	\$ -	\$ 77	\$ -	\$ -	\$ -	\$ -	\$ -
Recycling System Replacement (2004)	20	75	2004	2024					\$ 77					
Aboveground Fuel Storage System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 45
Tank Replacement (1993)	40	20	1993	2033										\$ 20
Fuel Dispensing System Replacement	15	20	2015	2030										\$ 20
Fuel Management Software Replacement (1993)	15	5	2015	2030										\$ 5
Office Building (12 Years Old)					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37	\$ -	\$ 42	\$ -
Roofing Systems					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Roof Repair/Replacement (2008)	25	25	2008	2033										
Building Interior/Exterior Components					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 37	\$ -	\$ -	\$ -
Exterior Maintenance (Painting)	40	30	2008	2048										
Interior Maintenance (Painting) (2008)	20	10	2008	2028							\$ 10			
Office Partition Replacement (2008)	20	15	2008	2028							\$ 17			
Flooring Replacement (Carpet/Tile)(2008)	20	10	2008	2028							\$ 10			
Building HVAC					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 42	\$ -
Heater System Replacement (2008)	20	20	2008	2028									\$ 20	
Air Conditioning System Replacement (2008)	20	20	2008	2028									\$ 22	
Los Banos Administration Office Facility					\$ 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -
Office Building					\$ 54	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -
Offices					\$ 44	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ 10	\$ -	\$ -
Interior Maintenance (Painting)	20	15	2000	2020	\$ 17									
Office Partition Replacement	20	10	2008	2028								\$ 10		
Flooring Replacement (Carpet/Tile)	20	25	2000	2020	\$ 27									
Alarm & Security Systems					\$ 10	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Security Alarm System Replacement	20	10	2000	2020	\$ 10									
Building Plumbing System					\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
Kitchen/Lunchroom Remodel	20	18	1992	2012										
TOTALS (x \$1000)					\$ 133	\$ 52	\$ 196	\$ 46	\$ 129	\$ 77	\$ 62	\$ 26	\$ 87	\$ 91
3% Inflation Factor per Year (x \$1000)					\$ 4	\$ 3	\$ 18	\$ 6	\$ 20	\$ 15	\$ 14	\$ 7	\$ 27	\$ 31
Yearly Total (x \$1000)					\$ 137	\$ 55	\$ 214	\$ 52	\$ 149	\$ 92	\$ 76	\$ 33	\$ 114	\$ 122
													10 Year Grand Total	\$ 1,044

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: C2006001

Project Code: I1-2021

Priority: C-4-c

Facility: DMC

Project Title: DMC Conveyance Capacity Test

Estimated Total Cost: \$130,200.00

IN-HOUSE COSTS: ***Labor:*** \$116,700.00 ***Materials:*** \$12,000.00 ***Equipment:*** \$0.00

CONTRACT COSTS: \$1,500.00

Project Description and Scope:

The San Luis & Delta-Mendota Water Authority will perform a capacity test on the Delta-Mendota Canal (DMC) system. The DMC is 116.5 miles long with 21 check structures spaced approximately 4-6 miles apart. It includes: 11 siphons, 83 +/- bridges, approximately 250 turnouts, and four wasteway structures (checks 6, 10, 13, 20). Since construction, the capacity of the DMC has been impacted by land subsidence. The capacity test will be performed utilizing in-house staff during a period of time when there is high pumping and low canal-side demand.

Project Purpose and Background:

The purpose of the test will be to determine the current conveyance capacity of the DMC. This information can be used to determine the areas where the local subsidence has reduced the canal conveyance capacity.

Project Status:

FY2021 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

C2006001 DMC Conveyance Capacity Test

Total Fully Burdened Labor Cost	\$ 116,700.00
Total Materials	\$ 12,000.00
Total Vehicles & Equipment	\$ -
Total Contracts	\$ 1,500.00
	<hr/>
Project Grand Total	\$ <u>130,200.00</u>

Date Proposal Completed: 7/24/2018_BM

NOTE: Labor cost is roundup to the nearest \$100.

**San Luis & Delta-Mendota Water Authority
C2006001 DMC Conveyance Capacity Test (FY2021)
EO&M Project Cost Summary**

FY2021 C2006001 DMC Conveyance Capacity Test	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost
	A	B	C	D	E	F	G	H	I	J
						C x D x E		=A x F	=B x G	= sum H + I
Apprentice Electrician	\$ 120.53	\$ 123.49	40	1	1	40	0	\$ 4,821.38	\$ -	\$ 4,821.38
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	40	1	1	40	0	\$ 4,821.38	\$ -	\$ 4,821.38
C&I Technician	\$ 134.94	\$ 140.83	40	2	1	80	0	\$ 10,795.01	\$ -	\$ 10,795.01
Canal Operator	\$ 80.14	\$ 74.88	40	2	1	80	0	\$ 6,410.88	\$ -	\$ 6,410.88
Control Operator	\$ 144.84	\$ 152.73	0	0	1	0	0	\$ -	\$ -	\$ -
Electrical Foreman	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -
Electrician	\$ 131.94	\$ 137.21	40	2	1	80	0	\$ 10,554.88	\$ -	\$ 10,554.88
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	40	2	1	80	0	\$ 11,895.30	\$ -	\$ 11,895.30
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	0	1	0	0	\$ -	\$ -	\$ -
Engineer, Junior	\$ 97.48	\$ 95.76	40	1	1	40	0	\$ 3,899.39	\$ -	\$ 3,899.39
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	18	1	1	18	0	\$ 2,676.44	\$ -	\$ 2,676.44
Equipment Operator	\$ 92.99	\$ 90.36	27	1	1	27	0	\$ 2,510.83	\$ -	\$ 2,510.83
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	40	2	1	80	0	\$ 6,679.68	\$ -	\$ 6,679.68
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	40	2	1	80	0	\$ 6,955.65	\$ -	\$ 6,955.65
Maintenance Foreman	\$ 101.96	\$ 101.15	18	0	1	0	0	\$ -	\$ -	\$ -
Safety Engineer	\$ 148.69	\$ -	8	1	1	8	0	\$ 1,189.53	\$ -	\$ 1,189.53
Maintenance Supt., Civil	\$ 117.92	\$ -	18	1	1	18	0	\$ 2,122.65	\$ -	\$ 2,122.65
Maintenance Worker	\$ 85.97	\$ 81.91	40	3	1	120	0	\$ 10,316.54	\$ -	\$ 10,316.54
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	0	1	0	0	\$ -	\$ -	\$ -
Manager, Planning & Engineering	\$ 168.82	\$ -	10	1	1	10	0	\$ 1,688.18	\$ -	\$ 1,688.18
Manager, Operations & Maintenance	\$ 173.49	\$ -	10	1	1	10	0	\$ 1,734.88	\$ -	\$ 1,734.88
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	40	1	1	40	0	\$ 3,776.19	\$ -	\$ 3,776.19
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	18	1	1	18	0	\$ 2,180.91	\$ -	\$ 2,180.91
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	18	2	1	36	0	\$ 4,749.70	\$ -	\$ 4,749.70
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -
Project Coordinator	\$ 100.53	\$ 99.42	40	1	1	40	0	\$ 4,021.25	\$ -	\$ 4,021.25
SCADA Engineer	\$ 147.06	\$ 152.02	27	1	1	27	0	\$ 3,970.51	\$ -	\$ 3,970.51
Water Operations Superintendent	\$ 114.92	\$ -	40	1	1	40	0	\$ 4,596.93	\$ -	\$ 4,596.93
Operations Supervisor	\$ 160.33	\$ -	27	1	1	27	0	\$ 4,328.86	\$ -	\$ 4,328.86
Engineer, Plant	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -
<i>Hour Totals:</i>										1039
										0
										0
										\$ -
										\$ 116,696.92
										\$ 116,696.92
										\$ 12,000.00
										\$ -
										\$ 1,500.00
										\$ 130,196.92

San Luis & Delta-Mendota Water Authority
C2006001 DMC Conveyance Capacity Test (FY2021)
EO&M Project
Materials Cost Breakdown

<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
Battery powered level sensor	30	ea	\$ 300	\$ 9,000.00
Mounting brackets	30	ea	\$ 50	\$ 1,500.00
Cellular device or data collector	30	ea	\$ 50	\$ 1,500.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Materials Total: \$ 12,000.00

Note: 3%/year inflation adjustment included in unit cost

San Luis & Delta-Mendota Water Authority
C2006001 DMC Conveyance Capacity Test (FY2021)
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Cellular Contract (1 month)	30	ea	\$ 50	\$ 1,500.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 1,500.00

Note: 3%/year inflation adjustment included in cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: E2014006

Project Code: I2-2021

Priority: C-4-c

Facility: JPP

Project Title: SCADA System Modernization - Phase 1

Estimated Total Cost: \$187,200.00

IN-HOUSE COSTS: *Labor:* \$47,200.00 *Materials:* \$140,000.00 *Equipment:* \$0.00

CONTRACT COSTS: \$0.00

Project Description and Scope:

This phase will involve the installation, modification, and test of new RTU's (Remote Terminal Unit) and telecommunication equipment for the Jones Pumping Plant. This technology, will be PLC (Programmable Logic Controller) based with IP (Internet Protocol) based telecommunications. This design upgrade will include a new PLC per Pump Unit, as well as, the use of modern communications to other major unit components (i.e. annunciation, unit protection, excitation, and power monitoring). The existing control program will be modified and/or converted to work with the new hardware as much as possible as to limit the program development time.

Project Purpose and Background:

The existing Jones Pumping Plant SCADA network was designed and installed over 15 years ago, the hardware components and program software are no longer being manufactured, or supported. In addition, many other Unit features have been replaced or updated with more modern equipment that can't be fully utilized until the SCADA hardware base has been replaced or updated.

Project Status:

FY2021 Project - Awaiting approval/funding

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

E2014006 JPP SCADA System Modernization

Total Fully Burdened Labor Cost	\$ 47,200.00
Total Materials	\$ 140,000.00
Total Vehicles & Equipment	\$ -
Total Contracts	\$ -
	<hr/>
Project Grand Total	\$ <u>187,200.00</u>

Date Proposal Completed: 7/31/2018_BM

NOTE: Labor cost is roundup to the nearest \$100.

San Luis & Delta-Mendota Water Authority
E2014006 JPP SCADA System Modernization (FY2021)
EO&M Project Cost Summary

FY2021 E2014006 JPP SCADA System Modernization	FY21 Fully Burdened Production Hourly Rate (current highest total rate per craft w/benefits)	FY21 Fully Burdened OT Rate (includes PR tax & W/Comp)	No. Of Hours	No. In Craft	No. Per Phase	Total Regular Hours	Total Overtime Hours	Regular Direct Labor	Overtime Labor	Total Labor Cost	
	A	B	C	D	E	F	G	H	I	J	
						C x D x E		=A x F	=B x G	= sum H + I	
Apprentice Electrician	\$ 120.53	\$ 123.49	0	0	1	0	0	\$ -	\$ -	\$ -	
Apprentice Plant Mechanic	\$ 120.53	\$ 123.49	0	0	1	0	0	\$ -	\$ -	\$ -	
C&I Technician	\$ 134.94	\$ 140.83	120	2	1	240	0	\$ 32,385.02	\$ -	\$ 32,385.02	
Canal Operator	\$ 80.14	\$ 74.88	0	0	1	0	0	\$ -	\$ -	\$ -	
Control Operator	\$ 144.84	\$ 152.73	0	0	1	0	0	\$ -	\$ -	\$ -	
Electrical Foreman	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -	
Electrician	\$ 131.94	\$ 137.21	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Civil -Associate	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Civil Assistant	\$ 119.67	\$ 119.78	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Junior	\$ 97.48	\$ 95.76	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Electrical - Associate	\$ 148.69	\$ 157.37	40	1	1	40	0	\$ 5,947.65	\$ -	\$ 5,947.65	
Engineer, Mechanical - Associate	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -	
Equipment Operator	\$ 92.99	\$ 90.36	0	0	1	0	0	\$ -	\$ -	\$ -	
Foreman, O'Neill Pumping Plant	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -	
Hydrotech-1, (Was Meter Maint./Relief Canal Op)	\$ 83.50	\$ 78.93	0	0	1	0	0	\$ -	\$ -	\$ -	
Hydrotech-2 (Was Hydrographer)	\$ 86.95	\$ 83.08	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Foreman	\$ 101.96	\$ 101.15	0	0	1	0	0	\$ -	\$ -	\$ -	
Safety Engineer	\$ 148.69	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Supt., Civil	\$ 117.92	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Worker	\$ 85.97	\$ 81.91	0	0	1	0	0	\$ -	\$ -	\$ -	
Maintenance Worker, Painter	\$ 93.81	\$ 91.34	0	0	1	0	0	\$ -	\$ -	\$ -	
Manager, Planning & Engineering	\$ 168.82	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Manager, Operations & Maintenance	\$ 173.49	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Planner, Civil Maintenance	\$ 94.40	\$ 92.06	0	0	1	0	0	\$ -	\$ -	\$ -	
Planner, Hydro-Electric Maintenance	\$ 121.16	\$ 124.24	0	0	1	0	0	\$ -	\$ -	\$ -	
Plant Mech. 2, HE	\$ 131.94	\$ 137.21	0	0	1	0	0	\$ -	\$ -	\$ -	
Plant Mech. Foreman, HE	\$ 147.18	\$ 155.56	0	0	1	0	0	\$ -	\$ -	\$ -	
Project Coordinator	\$ 100.53	\$ 99.42	0	0	1	0	0	\$ -	\$ -	\$ -	
SCADA Engineer	\$ 147.06	\$ 152.02	60	1	1	60	0	\$ 8,823.36	\$ -	\$ 8,823.36	
Water Operations Superintendent	\$ 114.92	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Operations Supervisor	\$ 160.33	\$ -	0	0	1	0	0	\$ -	\$ -	\$ -	
Engineer, Plant	\$ 148.69	\$ 157.37	0	0	1	0	0	\$ -	\$ -	\$ -	
<i>Hour Totals:</i>						340	0				
								<i>Sum of Overtime Cost</i>	\$ -		
								<i>Sum of Regular Time Cost</i>	\$ 47,156.03		
								<i>Tot Fully Burdened Labor Cost</i>	\$ 47,156.03		
								<i>Materials</i>	\$ 140,000.00		
								<i>Vehicles & Equipment</i>	\$ -		
								<i>Contracts</i>	\$ -		
								<i>Step Total</i>	\$ 187,156.03		

San Luis & Delta-Mendota Water Authority
E2014006 JPP SCADA System Modernization (FY2021)
EO&M Project
Materials Cost Breakdown

<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
SCADA Parts & Materials	1	LS	\$ 140,000	\$ 140,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Materials Total: \$ 140,000.00

Note: 3%/year inflation adjustment included in unit cost

***San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet***

Project No.: E2000004

Project Code: D0-2021

Priority: C-6-b

Facility: ALL

Project Title: Replace Computer/Network Communication Equip (Reserve Fund)

Estimated Total Cost: \$87,600.00

IN-HOUSE COSTS: *Labor:* \$0.00 *Materials:* \$87,600.00 *Equipment:* \$0.00

CONTRACT COSTS: \$0.00

Project Description and Scope:

The computer/network communication equipment scheduled to be replaced this FY is summarized on the attached 10 year plan.

Project Purpose and Background:

To ensure that our computer equipment is both operational and is of the capacity to operate current versions of application software, the Authority has a proactive plan to upgrade/replace computer communications equipment rather than react to emergency replacement needs and placing business communications at risk. A 10-year plan was developed to estimate future communications & computer equipment replacement needs. Copiers and fax machines are included in this 10 year plan. The planned replacement of these office machines is necessary based on cost and business function. Forecasting this equipment with network systems also provides the ability to explore combining technologies, i.e. copier with network printing, which may reduce maintenance and supply costs. The SCADA network computers, switches and associated components were added to this project starting FY09. The inclusion of this equipment brings all computer network purchases and control into one project with one manager overseeing purchases and ensuring all equipment meets the minimum requirements and is on a schedule for replacements.

Project Status:

Reserve Fund

SAN LUIS & DELTA-MENDOTA WATER AUTHORITY
10-Year Network/Information Systems Equipment Replacement Plan

	No. in Use	Life-span (in years)	No. per Year	Cost EA	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	TOTAL
Computers & Peripherals															
Computers - workstations	43	5	Note 1	\$1,700	\$5,100	\$5,100	\$52,700	\$5,100	\$5,100	\$5,100	\$5,100	\$52,700	\$5,100	\$5,100	\$146,200
Computers - laptops	23	4/5		\$2,700	\$16,200	\$16,200	\$10,800	\$10,800	\$21,600	\$16,200	\$5,400	\$5,400	\$16,200	\$18,900	\$137,700
Plotter	1	10		\$10,000	\$0	\$0	\$10,000	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$10,000
Monitors	63	7	Note 2	\$350	\$8,750	\$1,050	\$4,550	\$700	\$1,050	\$4,900	\$1,050	\$8,750	\$1,050	\$4,550	\$36,400
Servers	8	5	Note 3		\$15,000	\$10,000	\$43,500	\$0	\$7,500	\$15,000	\$10,000	\$43,500	\$0	\$7,500	\$152,000
Switches	12	5	Note 4		\$0	\$0	\$0	\$15,000	\$0	\$0	\$0	\$0	\$15,000	\$0	\$30,000
Backup System	3	5	Note 5		\$0	\$19,000	\$0	\$0	\$0	\$0	\$19,000	\$0	\$0	\$0	\$38,000
Anti-virus/spam software/image software	125	3	Note 6	\$70	\$0	\$8,750	\$0	\$0	\$8,750	\$0	\$0	\$8,750	\$0	\$0	\$26,250
Firewall	2	5	Note 7		\$0	\$4,000	\$0	\$9,000	\$0	\$0	\$4,000	\$0	\$9,000	\$0	\$26,000
SCADA computer/network equipment			Note 8												
Computer - workstations	3	5		\$2,300	\$0	\$0	\$2,300	\$4,600	\$0	\$0	\$0	\$2,300	\$4,600	\$0	\$13,800
Computer - mission critical workstns	2	5		\$5,500	\$0	\$0	\$0	\$11,000	\$0	\$0	\$0	\$0	\$11,000	\$0	\$22,000
Workstation with Monitors	2	5		\$3,500	\$0	\$7,000	\$0	\$0	\$0	\$7,000	\$0	\$0	\$0	\$0	\$14,000
Servers	2	5		\$5,000	\$0	\$5,000	\$5,000	\$0	\$0	\$0	\$5,000	\$5,000	\$0	\$0	\$20,000
Laptops	1	4		\$2,200	\$0	\$2,200	\$0	\$0	\$0	\$2,200	\$0	\$0	\$0	\$2,200	\$6,600
Switches	3	5		\$750	\$0	\$0	\$0	\$2,250	\$0	\$0	\$0	\$0	\$2,250	\$0	\$4,500
Firewall	1	5		\$800	\$0	\$800	\$0	\$0	\$300	\$0	\$800	\$0	\$0	\$300	\$2,200
Security Monitors (42")	3	4		\$1,000	\$0	\$3,000	\$0	\$0	\$0	\$3,000	\$0	\$0	\$0	\$3,000	\$9,000
Office Equipment															
Copiers	6	4-7	Note 9		\$34,000	\$5,000	\$0	\$6,000	\$22,000	\$0	\$12,000	\$0	\$27,000	\$0	\$106,000
Fax Machines	4	10	Note 10		\$0	\$500	\$0	\$0	\$0	\$0	\$1,500	\$0	\$0	\$0	\$2,000
Phone System	4	15	Note 11		\$0	\$0	\$0	\$45,000	\$0	\$0	\$0	\$15,000	\$0	\$0	\$60,000
Other Equipment															
Fuel System	1	10			\$0	\$0	\$0	\$0	\$0	\$35,000	\$0	\$0	\$0	\$0	\$35,000
				TOTAL	\$79,050	\$87,600	\$128,850	\$109,450	\$66,300	\$81,400	\$70,850	\$141,400	\$91,200	\$41,550	\$897,650
				Annual Cost											\$89,765
Note 1: The replacement of 3 PCs per year is predicated on a PC life span of 5 years. Every fifth year, 31 computers will require replacement. The cost of \$1,700 per PC includes software for the workstation (e.g. MS Windows 10 & MS Office).															
Note 2: Replace flat panel monitors as needed.															
Note 3: Replace Oracle WAM servers (2) in 2020. Replace storage server in 2021. Replace mail, file, & sql servers in 2022. The amounts include the operating system software and client access licenses.															
Note 4: All switches will be replaced at the same time.															
Note 5: Replace backup systems at LBAO, Tracy and Sacramento; includes hardware, software, external drives, and technical support.															
Note 6: Support & upgrades are purchased every three years due to the cost savings but not for longer due to the changes in technology.															
Note 7: Purchase 2-year support/update contract in 2021 and replace hardware with 3-year software support/updates in 2023.															
Note 8: This section consists of a servers, switches, PCs, monitors & laptops with varying life cycles for the SCADA network.															
Note 9: Replace the LBAO copiers (one color and one black/white) and TAO copier (color) in 2020. Replace Warehouse copier in 2021.															
Note 10: Replace the TAO fax in 2021.															
Note 11: Replace the Tracy phone system in 2023.															

San Luis & Delta-Mendota Water Authority
Extraordinary O&M Projects
Project Description and Justification Sheet

Project No.: E1999001

Project Code: F4-2021

Priority: B-3-a

Facility: JPP

Project Title: Unit 1 Rewind - Phase 4 (USBR Funds)

Estimated Total Cost: \$5,375,200.00

CONTRACT COSTS: \$5,363,600.00

IN-HOUSE COSTS: **Labor:** \$0.00 **Materials:** \$2,200.00 **Equipment:** \$9,400.00

Project Description and Discussion:

This project involves the refurbishment of JPP Unit 1 per the design prepared in the design phase of this project.

The scope of this project is to manufacture new stator coils, rewind the stator, manufacture new stator laminations and vents, stack the cores and reinsulate the rotor coils. Also, the high-voltage cable from pump motor neutral to the neutral grounding reactor needs to be replaced. Performance testing requirements for each phase of the work are listed in the contract specifications.

IMPORTANT NOTE: Staff recommends the remaining 5 units be completed under one multi-year contract. This will allow one design to be used for the 5 remaining units. This will ultimately reduce the overall cost of the project. Construction costs will be less due to less design & mobilization cost, less spare parts are required and improved construction efficiency due to repetition. O&M costs are reduced because the 5 units will be identical and crews will only need to learn one set of drawings for the 5 units. Also, less spare parts will need to be stored and maintained.

Justification:

The six (6) motor stators at the Jones Pumping Plant (JPP) were refurbished between 1977 and 1984. The typical service life of a unit stator winding is 25 years. In 2015, the age of the existing unit stator windings was between 31 and 38 years old. A condition assessment for all six (6) JPP units was completed in September 2015. The final report concluded that all 6 units are nearing the end of their service life. The recommended refurbishment priority order is Unit 6, 2, 1, 4, 3 & 5.

IMPORTANT NOTE: From June 1998 thru June 2012, the average starts per year per unit was 15. Over the past few years, the JPP pumping restrictions associated with the drought, has forced the units to be cycled (started & shut down) more often than normal. For instance, during July & August 2015, the units were cycled on a daily basis. From June 2013 to June 2015 the average starts per year increased to 21. This poses additional concerns about the reliability of these motors because the additional starts on these aged windings places much greater stress on the windings than does normal running due to higher currents. The SLDMWA rotates the unit starts to minimize the number of starts per unit.

NOTE: The impact of this project if not accomplished is that the Jones Pumping Plant (JPP) unit reliability is decreased and has the potential to cause a unit failure.

Project Status:

Awaiting approval/funding.

**San Luis & Delta-Mendota Water Authority
EO&M Project Cost Summary**

FY2021

E1999001 - JPP Unit No. 1 Rewind Project (NON LABOR)

Total Fully Burdened Labor Cost	\$	-
Total Materials	\$	2,200.00
Total Vehicles & Equipment	\$	9,400.00
Total Contracts	\$	<u>5,363,600.00</u>
Project Grand Total	\$	<u><u>5,375,200.00</u></u>

Date Proposal Completed: 8/14/2018_BM

NOTE: Labor cost is rounded up to the nearest \$100.

San Luis & Delta-Mendota Water Authority
E1999001 JPP Unit No 1 Rewind (FY2021) NON LABOR
EO&M Project
Materials Cost Breakdown

<i>Item Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Cost</i>	<i>Total Cost</i>
Miscellaneous Consumables (Disassembly)	1	LS	\$ 1,061.00	\$ 1,061.00
Miscellaneous Consumables (Assembly)	1	LS	\$ 1,061.00	\$ 1,061.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Materials Total: \$ 2,122.00

Note: 3%/year inflation adjustment included in unit cost

San Luis & Delta-Mendota Water Authority
E1999001 JPP Unit No 1 Rewind (FY2021) NON LABOR
EO&M Project
Vehicles & Equipment Cost Breakdown

<i>Description</i>	<i>Qty</i>	<i>Unit</i>	<i>Unit Rate</i>	<i>Total</i>
Recycling Dumpster	1	LS	\$ 850.00	\$ 850.00
Testing Equipment Rental	1	LS	\$ 8,500.00	\$ 8,500.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Vehicles & Equipment Total: \$ 9,350.00

Note: 3%/year inflation adjustment included in unit rate

San Luis & Delta-Mendota Water Authority
E1999001 JPP Unit No 1 Rewind (FY2021) NON LABOR
EO&M Project
Contracts Cost Breakdown

Contract Description	Qty	Unit	Unit Rate	Total
Project Management Consulting Services	1	LS	\$ 550,000	\$ 550,000.00
USBR Contract Oversight	1	LS	\$ 110,000	\$ 110,000.00
Rewind Contract	1	LS	\$ 4,017,000	\$ 4,017,000.00
Rewind Contract Contingency (15%)	1	LS	\$ 602,550	\$ 602,550.00
Shaft Alignment Support Services	2	LS	\$ 42,000	\$ 84,000.00
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -
			\$ -	\$ -

Contracts Total: \$ 5,363,550.00

Note: 3%/year inflation adjustment included in cost