



# **LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY OPERATING AND CAPITAL BUDGET**

**FISCAL YEAR 2022/23**

**Approved by the LAVWMA Board June 29, 2022**

# LAVWMA FY2022/23 Budget

## LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY OPERATING AND CAPITAL BUDGETS FISCAL YEAR 2022/23

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# LAVWMA FY2022/23 Budget

## LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY OPERATING AND CAPITAL BUDGETS FISCAL YEAR 2022/23

### EXECUTIVE SUMMARY

#### OPERATING BUDGET

The proposed operating budget of \$3,740,346 is a 3.60% increase from the FY2021/22 budget. The total revenue requirement of \$10,786,046 is a 10.19% decrease from the FY2021/22 budget. Debt service payments consist of \$2,024,280 for the Repair Project and \$4,621,420 for the Expansion Project for a total of \$7,045,700. Debt service has decreased by 16.12% due to the refunding that was completed last year. The DSRSD budget for LAVWMA includes an increase in labor costs to account for a 4.0% COLA adjustment as well as a 10.76% increase in their overhead factor. DSRSD estimated costs are typically well below actual expenses and this budget reflects actual costs. DSRSD's labor estimate includes costs for the pipeline inspection, which will be charged to a capital project and not O&M. As a consequence, the labor projections are not that different.

The FY2021/22 Budget includes a few items that varied from the approved budget including:

- PG&E power will be above budget based on total actual costs for the fiscal year. Despite DSRSD staff's outstanding efforts at managing pump operation to coincide with the new time of use schedule, costs will exceed the budget by 13.5%. This is primarily due to the ever increasing rates from PG&E. For the full fiscal year, the average cost was slightly less than \$.20/kWh. This compares favorably with EBDA and DSRSD who average \$0.24-\$0.25/kWh. Had there been any significant wet weather this year the costs would have been substantially higher.
- Labor is below budget and the proposed budget reflects that trend.
- Management expenses will be below budget as major projects such as the NPDES permit renewal, EBDA agreement renewal, and the debt refunding have been completed.

The total EBDA O&M budget of \$837,923 is effectively the same as last year. With the new Master Agreement the fixed cost increased 18.6% to 26.1%. Costs for EBDA are based on fixed and variable (flow based) percentages. The flow-based percentage is currently 15.3% as compared to 16.24% last year. It is in LAVWMA's best interests to reduce variable costs through a combination of reducing flows through water recycling and flow management during wet weather. An Amended and Revised Master Agreement was approved by both Boards in May 2021. The agreement was retroactive to July 1, 2021. EBDA costs for FY2022/23 are now based on the new Master Agreement.

The proposed FY2022/23 operating budget considers projected FY2021/22 expenditures and is largely based on the detailed budget, copy attached, prepared by DSRSD pursuant to the Maintenance Agreement. FY2021/22 O&M expenditures are projected to be below the approved budget by approximately 5.57%, due to lower than budgeted labor costs.

# LAVWMA FY2022/23 Budget

DSRSD's costs reflect a 4.0% cost of living adjustment. Other Fixed costs have been adjusted based on actual expenditures and anticipated needs for next year. Additional information is included in the remainder of the budget report.

Items that are increasing in the FY2022/23 Budget include the following:

- PG&E power costs are increasing 20% to account for rate increases and actual costs.
- Monitoring/Testing is increasing to account for the priority pollutant monitoring of the effluent and both emergency receiving water stations. This testing must be done once during the permit cycle and it is best to complete it early to avoid having to rush things like in the last renewal.
- Permits and insurance are increasing since insurance will be nearly \$100,000 this year.

Items that are decreasing in the FY2022/23 Budget include the following:

- Labor costs are decreasing as noted above.
- Contract services for the General Manager and General Counsel are decreasing as noted above.
- Debt Service is decreasing due to the successful refunding process.

## CAPITAL BUDGET

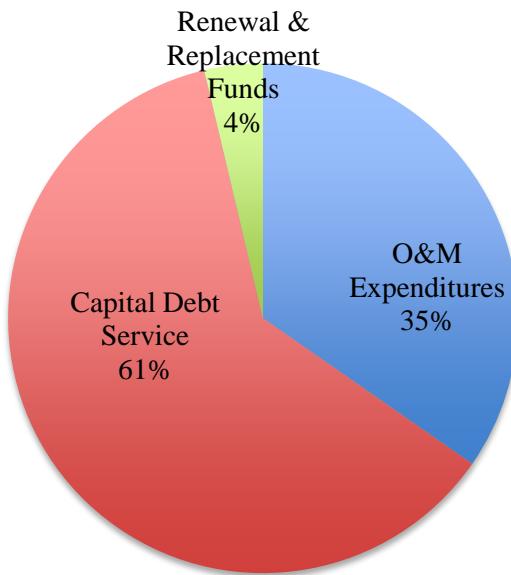
The FY2021/22 capital budget was \$4,220,000, of which approximately \$2,568,630 is projected to be spent this fiscal year. Much of this is due to delays associated with continued COVID-19 issues, as well as hiring of new staff by DSRSD. In addition several of the projects are intended to span more than one fiscal year. The FY2022/23 capital budget of \$2,326,000 is for the renewal and replacement of LAVWMA and EBDA facilities and includes the purchase of three new pumps and rebuilding two motors, design improvements at the San Leandro Sample Station (SLSS), cathodic protection improvements, replacement of valve actuators at the pump station, replacement of the flow meters at the junction structure, and pipeline inspection. Pipeline inspection will now be an annual project with the intent of completing inspection of the entire system within five years. All of these major projects have been recommended by DSRSD staff. Please refer to the tables below which provide descriptions and summarize the costs.

## REVENUE REQUIREMENTS

The FY2022/23 budget also includes the debt service (repair and expansion) for the 2021 Bonds. Although repair and expansion of the existing pipeline is a capital cost, the associated debt service is tabulated in the operating budget to assist member agencies with their rate and fee calculations. The projected debt service includes payment of principal and interest. The refunding of the debt results in a savings of more than \$1.35 million. This year's budget recommends that the annual deposit to the Joint Use Renewal Replacement Fund be continued at the \$400,000 level that was approved five years ago. The fund value remains at an acceptable level. The following pie chart illustrates the allocation of the \$10,786,046 in total revenue requirements for FY2022/23, which is a decrease of 10.19% from last year.

# LAVWMA FY2022/23 Budget

## Revenue Requirements FY2022/23



## 1.0 GENERAL

Livermore-Amador Valley Water Management Agency (LAVWMA) is a Joint Powers Agency comprised of the Cities of Livermore and Pleasanton, and Dublin San Ramon Services District (DSRSD). The City of Livermore collects and treats all City wastewater. DSRSD delivers water to the City of Dublin and the Dougherty Valley, and it collects and treats wastewater for Dublin and southern San Ramon, and treats additional wastewater under a contract with the City of Pleasanton. LAVWMA exports treated effluent from the LAVWMA Pumping Station west over the Dublin Grade, through Castro Valley, and the City of San Leandro, to a pipeline operated by the East Bay Dischargers Authority (EBDA). EBDA dechlorinates the effluent and discharges it through a deepwater outfall into San Francisco Bay. A significant portion of member agency flows are kept within their service areas for water recycling purposes.

### 1.1 Mission & Goals

#### LAVWMA'S MISSION

LAVWMA's mission is to support its member agencies: Dublin San Ramon Services District, City of Pleasanton, and City of Livermore by providing cost effective operation and maintenance of all of the Agency export facilities in full compliance with federal, state, and local requirements. LAVWMA supports its member agencies in their efforts to implement comprehensive water recycling programs.

# LAVWMA FY2022/23 Budget

We will complete our work primarily through consultants. We will invest in this diverse project team and promote a work ethic that recognizes and promotes teamwork and a positive work environment. We will practice fairness, provide challenges, and allow freedom of communication and thought to enable team members to make meaningful contributions to LAVWMA, the industry and our community.

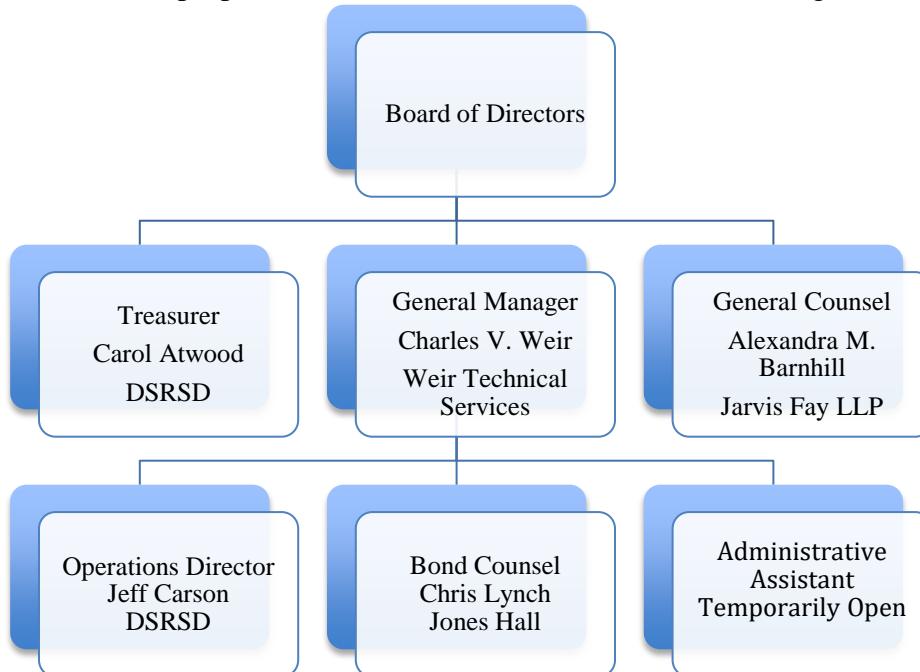
## Agency Goals & Objectives

To carry out our Mission, LAVWMA will pursue the following goals:

- **Environmental Compliance.** Continue efficient operations of facilities to prevent wastewater overflows. Meet all CEQA mitigation requirements for new construction. Exceed requirements pertaining to community impacts.
- **Cost Effectiveness.** Continue to perform routine maintenance on existing facilities in a manner that promotes cost savings over the projected life of the facilities.
- **Technical Soundness.** Provide technically sound solutions that use the newest available technology without incurring excessive risk.
- **Customer Service.** Continue to comply with the 1997 Joint Exercise of Powers Agreement (JPA) and the October 2011 Sewer Service Contract with the LAVWMA member agencies.

## **1.2 ORGANIZATION**

The LAVWMA team proposed for FY2021/22 is shown in the following chart.



# LAVWMA FY2022/23 Budget

## **2.0 OPERATING BUDGET**

### **2.1 Description of Services Provided**

The Operations and Maintenance (O&M) budget includes all costs required to operate and maintain existing LAVWMA facilities. LAVWMA's existing facilities include the sole-use and dual-use interceptors, junction structure, Export and Livermore pumping stations, storage basins, export pipeline including appurtenances, and two emergency dechlorination stations.

LAVWMA's facilities are operated and maintained by DSRSD pursuant to a Maintenance Agreement initially executed in 1979.

The FY2022/23 Operating Budget on the following pages includes costs for the following: O&M Variable Costs, O&M Fixed Costs, Admin/Mgmt. Costs, Total O&M Costs, Capital Program Funding, and Total Revenue Requirements.

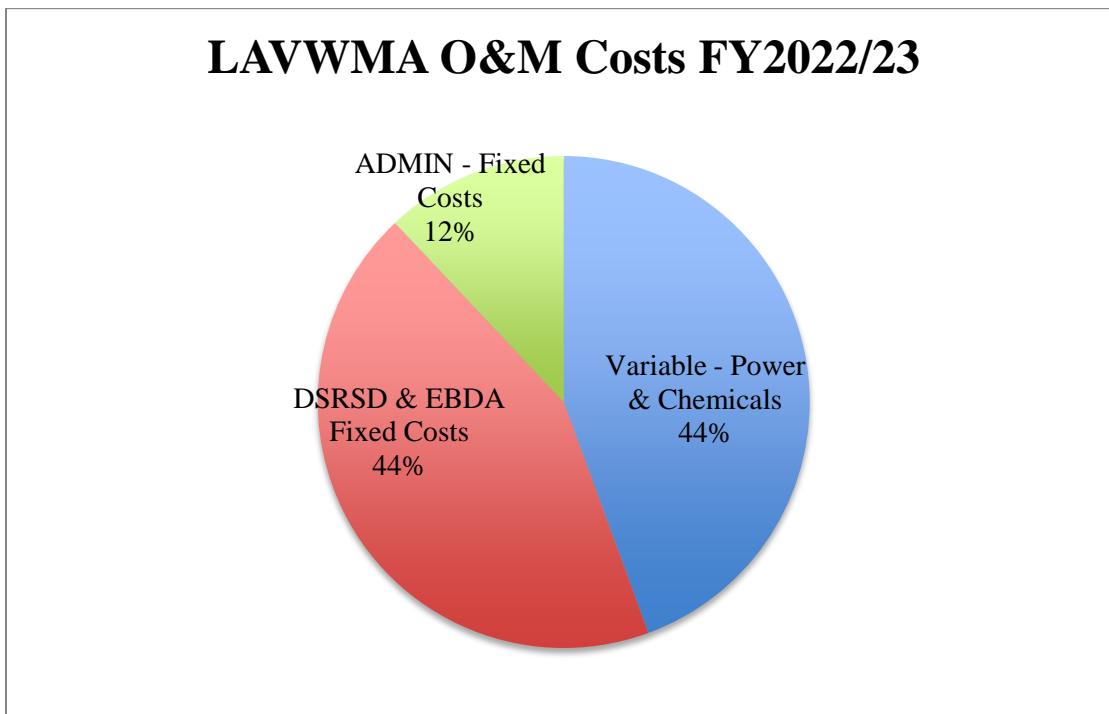
# LAVWMA FY2022/23 Budget

| FY2022/23 OPERATIONS BUDGET SUMMARY |                     | FY2021/22           | FY2021/22           | FY2022/23       |                               |
|-------------------------------------|---------------------|---------------------|---------------------|-----------------|-------------------------------|
|                                     |                     | Adopted Budget      | Projected Actual    | Proposed Budget | Change From Adopted FY2021/22 |
| <b>OPERATIONS AND MAINTENANCE</b>   |                     |                     |                     |                 |                               |
| <b>VARIABLE COSTS</b>               |                     |                     |                     |                 |                               |
| DSRSD Maintenance Agreement (Power) | \$ 1,250,000        | \$ 1,419,359        | \$ 1,500,000        | 20.00%          |                               |
| EBDA O&M (See Table, Section 2.2.1) | 150,828             | 150,828             | 160,959             | 6.72%           |                               |
| Subtotal - O&M Variable Costs       | 1,400,828           | 1,570,187           | 1,660,959           | 18.57%          |                               |
| <b>FIXED COSTS</b>                  |                     |                     |                     |                 |                               |
| DSRSD Maintenance Agreement         |                     |                     |                     |                 |                               |
| Labor                               | 886,500             | 670,693             | 795,000             | -10.32%         |                               |
| Materials/Supplies                  | 50,000              | 46,003              | 50,000              | 0.00%           |                               |
| Contractual                         | 50,000              | 41,439              | 50,000              | 0.00%           |                               |
| Monitoring/Testing                  | 35,000              | 31,224              | 42,000              | 20.00%          |                               |
| Utilities (fixed)                   | 7,000               | 7,293               | 7,500               | 7.14%           |                               |
| Non Routine                         | 8,000               | -                   | 8,000               | 0.00%           |                               |
| EBDA O&M (See Table, Section 2.2.3) | 689,051             | 686,789             | 676,965             | -1.75%          |                               |
| EBDA Total                          | 839,880             | 837,617             | 837,923             | -0.23%          |                               |
| Subtotal - O&M Fixed Costs          | 1,725,551           | 1,483,441           | 1,629,465           | -5.57%          |                               |
| <b>ADMIN/MGMT</b>                   |                     |                     |                     |                 |                               |
| Mgr/Treas/Counsel/Board             | 312,600             | 238,059             | 257,817             | -17.52%         |                               |
| Services/Supplies/Misc              | 67,500              | 16,931              | 72,100              | 6.81%           |                               |
| Permits/Insurance                   | 104,000             | 100,876             | 120,004             | 15.39%          |                               |
| Subtotal Admin/Mgmt                 | 484,100             | 355,865             | 449,921             | -7.06%          |                               |
| Subtotal All Fixed Costs            | 2,209,651           | 1,839,307           | 2,079,386           | -5.90%          |                               |
| <b>TOTAL O&amp;M COSTS</b>          | <b>\$ 3,610,480</b> | <b>\$ 3,409,494</b> | <b>\$ 3,740,346</b> | <b>3.60%</b>    |                               |
|                                     |                     |                     |                     |                 |                               |
|                                     |                     | FY2021/22           | FY2020/21           | FY2021/22       | Change From                   |
|                                     |                     | Proposed Budget     | Projected Actual    | Proposed Budget | Adopted FY2020/21             |
| <b>CAPITAL PROGRAM FUNDING</b>      |                     |                     |                     |                 |                               |
| Replacement Fund                    | 400,000             | 400,000             | 400,000             | 0.00%           |                               |
| Repair Debt Service                 | 2,436,792           | 2,436,792           | 2,024,280           | -16.93%         |                               |
| Expansion Debt Service              | 5,563,183           | 5,563,183           | 4,621,420           | -16.93%         |                               |
| <b>SUBTOTAL</b>                     | <b>\$ 8,399,975</b> | <b>\$ 8,399,975</b> | <b>\$ 7,045,700</b> | <b>-16.12%</b>  |                               |
| <b>TOTAL REVENUE REQUIREMENTS</b>   | <b>\$12,010,455</b> | <b>\$11,809,469</b> | <b>\$10,786,046</b> | <b>-10.19%</b>  |                               |

# LAVWMA FY2022/23 Budget

## 2.2 Operating Budget Summaries

The following pie chart depicts the allocation of operating costs:



### 2.2.1 Variable Costs – Power and Chemicals

Variable costs for power (DSRSD/EBDA) and chemicals (EBDA) are directly tied to the volume of flow that LAVWMA discharges. They total \$1,660,959 and make up approximately 44.7% of LAVWMA's total operating budget. Pumping and chemical costs for FY2022/23 are projected to be 18.57% more than last year. Although DSRSD has done an excellent job of managing the PG&E time of use schedule, the actual rates have increased such that those efforts have not kept costs below budget. LAVWMA's kWh costs averaged slightly under \$0.20 this year. As a comparison DSRSD's treatment plant averaged \$0.24 in 2021 and likely higher in 2022. EBDA has been averaging \$0.24-0.25. PG&E rates are expected to increase 5.2% per their documentation and that has been factored into the budget. The FY2022/23 Budget is based on actual costs for the current year. The following table details the variable costs for EBDA.

| Facility                  | Variable Cost      | LAVWMA Cost,<br>15.3% |
|---------------------------|--------------------|-----------------------|
| General Administration    | \$66,000           | \$10,098              |
| Outfall & Force mains     | \$176,300          | \$6,016 (22.3%)       |
| Marina Dechlor Facility   | \$381,000          | \$61,551              |
| Oro Loma Pump Station     | \$520,000          | \$82,818              |
| Bay & Effluent Monitoring | \$120,000          | \$18,360              |
| <b>Total</b>              | <b>\$1,263,400</b> | <b>\$178,843</b>      |

# LAVWMA FY2022/23 Budget

The total estimate for EBDA Variable O&M Costs is 90% of the above total, or \$160,949 for a 6.72% increase from last year. One of the increases is LAVWMA's share of sodium hypochlorite to meet bacteriological limits in EBDA's effluent. Due to the long travel time in the pipeline the chlorine residual in LAVWMA's effluent when it reaches EBDA is just slightly above zero. In order to ensure that bacteriological limits are met at the EBDA outfall, sodium hypochlorite is added at the Oro Loma Pump Station to ensure an adequate residual at the Marina Dechlorination Facility, and LAVWMA pays a 5% premium on those costs, or approximately \$5,000. This is far less expensive than DSRSD and Livermore increasing their sodium bisulfite dosage at their treatment plants.

## 2.2.2 Fixed Costs - DSRSD Maintenance Agreement

Operation and maintenance of LAVWMA facilities for FY2022/23 is estimated by DSRSD to require 5,800 fully burdened labor hours. This is the same as last year. Costs for these items are based on projected costs for FY2021/22 and anticipated needs for FY2022/23. DSRSD's budget shows \$1,161,350 for labor, which is much greater than this year's project costs of \$670,693. The proposed budget includes \$795,000 for DSRSD labor, which includes a 4.0% COLA and a 10.76% increase in the overhead rate. DSRSD's budget includes time for the pipeline inspection and new pump installation, which will be a capital expense and not O&M. Accounting for this, the labor needs projections between DSRSD and LAVWMA are comparable.

## 2.2.3 Fixed Costs - EBDA Agreement

This item covers EBDA's fixed operational and maintenance costs that are billed to LAVWMA. It also covers costs to EBDA for various Special Projects including the Regional Monitoring Program (RMP) and LAVWMA's share of EBDA's permit fees. Some of these costs are shared on different percentages than LAVWMA's fixed cost percentage in the agreement with EBDA. As an example, the RMP cost is based on the mass of four metals: copper, chromium, nickel, and selenium. LAVWMA's share is 17.58% for a total of \$51,395. LAVWMA's share of the permit fee (\$656,019) is based on the permitted average dry weather flows for each agency that is part of the EBDA system. LAVWMA's share of this cost is 26.62%, or \$174,654. There is also a nutrient surcharge that provides funds to BACWA for studies related to nutrient control. LAVWMA's share of this fee is 20.3%, or \$48,108. Lastly there is an Alternative Monitoring and Reporting fee related to Regional Board studies. LAVWMA's share of this is 33.3% (2 LAVWMA plants/6 total plants in the EBDA system), or \$10,781.

LAVWMA is responsible for a portion of the forcemain system and will be billed accordingly. With the new Master Agreement LAVWMA is responsible for 26.1% of the fixed costs for "shared" EBDA facilities. The new Master Agreement was retroactive to July 1, 2020. The following table summarizes the Fixed and Special Projects costs for EBDA.

| Facility and Total Variable Cost | Fixed Cost  | LAVWMA Percent Cost | LAVWMA Estimated Cost |
|----------------------------------|-------------|---------------------|-----------------------|
| General Administration           | \$1,317,713 | 26.1%               | \$338,509             |
| Outfall & Force mains            | \$5,000     | 26.1%*22.3% = 5.8%  | \$291                 |

# LAVWMA FY2022/23 Budget

| Facility and Total Variable Cost     | Fixed Cost         | LAVWMA Percent Cost | LAVMWA Estimated Cost |
|--------------------------------------|--------------------|---------------------|-----------------------|
| Marina Dechlor Facility              | \$8,000            | 26.1%               | \$2,088               |
| Oro Loma Pump Station                | \$11,000           | 26.1%               | \$2,871               |
| Bay & Effluent Monitoring            | \$473,450          | 26.1%               | \$123,570             |
| NPDES Permit Fee                     | \$656,019          | 26.62%              | \$174,654             |
| RMP Fee                              | \$292,320          | 17.58%              | \$51,395              |
| Nutrients Fee                        | \$237,114          | 20.29%              | \$48,108              |
| Alternative Monitoring and Reporting | \$32,155           | 33.33%              | \$10,718              |
| <b>Total</b>                         | <b>\$3,032,771</b> |                     | <b>\$752,183</b>      |

Historically, EBDA has averaged approximately 90% of budget for the fixed costs listed above. Accordingly, \$676,965 is included in the FY22/23 Budget.

## 2.2.4 Fixed Costs - Administration & Management

This section includes general administration, program management, legal and financial services, consulting services, permits, insurance, etc. The proposed budget is \$449,921 as compared with \$484,100 last year or a decrease of 7.06%. The decrease is due to the following: the NPDES permit renewal and renewal of the EBDA agreement have been completed. The total includes costs for a new DSRSD administrative staff person to provide assistance to LAVWMA, DERWA, and DSRSD's Assistant General Manager. Costs for travel expenses for the General Manager for two CASA Conferences and other required training for the General Manager and Administrative Assistant are included in these costs.

## 2.2.5 Capital Program Funding

This category includes the projected FY2022/23 debt service (repair and expansion) for the 2021 bonds. Although repair and expansion of the existing pipeline are capital costs, the associated debt service and funding program costs are tabulated in the operating budget to assist member agencies with their rate and fee calculations. The projected debt service includes payment of both principal and interest. It is recommended that the annual \$400,000 deposit to LAVWMA's capital facilities Joint renewal replacement account be continued to help cover the \$2,236,000 cost of capital projects in FY2022/23. It is acknowledged that it may not be possible to complete all of the capital projects this fiscal year. However, it is best to get them on the list so that proper planning and scheduling can occur. Dual Use facilities are minimal and have adequate replacement funds.

The first table below lists the capital projects that will be completed by the end of FY2021/22. The second table lists all recommended projects for FY2022/23. All projects have been recommended and vetted by DSRSD staff.

# LAVWMA FY2022/23 Budget

| <b><u>FY2021/22 Capital Program Expenditures</u></b> |                    |
|--|--------------------|
| Purchase three new pumps and rebuild motors          | \$0                |
| Resealing of all Three Storage Basins                | \$150,000          |
| San Leandro Sample Station Design Improvements       | \$93,986           |
| MCCs and Soft Starters                               | \$2,286,741        |
| Cathodic Protection Projects                         | \$6,299            |
| PLC / SCADA Upgrade at the Pump Station              | \$0                |
| Pipeline Inspection                                  | \$0                |
| Electrical Improvements to the Main Switchgear       | \$0                |
| Smart Detectors on Ari/Vac and Air Release Valves    | \$2,618            |
| Other Misc. LAVWMA                                   | \$20,000           |
| Other Misc. EBDA                                     | \$34,574           |
| Cip Planning / Management Contingency                | \$3,986            |
| <b>Total Expenditures</b>                            | <b>\$2,598,204</b> |

| <b><u>FY2022/23 Capital Program Expenditures</u></b>        |  |             |
|---|--|-------------|
| <b>Project</b>  | <b>Description</b>   | <b>Cost</b> |
| Purchase three new pumps and rebuild two associated motors. | This project has been delayed from FYE21. The costs include \$357,000 for the new pumps, rebuilding two motors, engineering services, and DSRSD staff time to remove the old pumps and install the new pumps and rebuilt motors. The projected delivery date for the new pumps is December 16, 2022  | \$510,000   |
| San Leandro Sample Station (SLSS) Design Improvements       | This project has evolved from what was described for last year's budget and is being carried over. It also now includes:<br>1. 24-inch flow control valve<br>2. 20-inch flow control valve<br>3. Two 30-inch flow meters<br>4. Two chlorine residual analyzers<br>5. Miscellaneous piping and fittings to accommodate different pipe sizes<br>6. Improvements to the Programmable Logic Controller (PLC), Human Machine Interface (HMI), Supervisory Control and Data Acquisition System (SCADA), networking and programming<br>The SLSS station has to be designed to measure chlorine residual and monitor pH continuously. These parameters have to | \$900,000   |

# LAVWMA FY2022/23 Budget

| FY2022/23 Capital Program Expenditures |  |           |
|--|--|-----------|
| Project                                | Description  | Cost      |
|  | <p>be measured both when effluent is going to EBDA and when effluent is dechlorinated and diverted to San Lorenzo Creek during wet weather events or during system testing. Composite samples of LAVWMA's effluent need to be taken when its directed to both EBDA and San Lorenzo Creek. Grab samples of LAVWMAs Effluent also need to be collected for Bacteriological analysis in both situations. The design of the SLSS is complicated by the following factors: 1) The discharge to San Lorenzo Creek wet weather outfall is rare; 2) During normal daily operations the LAVWMA pumps shut off during peak demand periods and therefore the pipeline is not full during those times; 3) The station is not staffed continuously. The goal of this project is to work with operational staff and the RWQCB to design the station to meet operational, maintenance and regulatory expectations in a manner which creates as little day to day maintenance as possible. The project will now also address probable sea level rise at the discharge point and provide a design to ensure discharge will always be possible.</p> <p>Approximately \$90,000 has been spent on design through the end of the fiscal year. The 75% plans and specifications have been received and are under review.</p> |           |
| Cathodic Protection Projects           | <p>This project is being carried over from FYE21. Corrpro is proceeding with this project. There were eleven tasks and the simplest eight have been completed.</p> <p>Three tasks require permitting, excavation and traffic control and are in development. Total Coat = \$135,000.</p> <p>This project has been delayed and is carried over from last year.</p>  | \$135,000 |
| PLC Upgrade at the Pump Station        | <p>This project is being carried over from FYE21. The existing Programmable Logic Controller (PLC) at the pump</p>   | \$300,000 |

# LAVWMA FY2022/23 Budget

| FY2022/23 Capital Program Expenditures                             |   |           |
|--|---|-----------|
| Project  | Description   | Cost      |
|  | station is almost 20 years old and is near the end of its useful life. It is an OPTO22 system and needs to be upgraded to Allen Bradley PLC to match the PLCs used by DSRSD. An upgrade to the OPTO22 system at the San Leandro Pump Station is already complete. This is a complex project that requires engineering design, equipment, installation, and construction support. Upon completion the system will be consistent with that of DSRSD improving operation and performance.                                      |           |
| Pipeline Inspection  | One of the recommendations from the risk analysis project was to inspect portions of the pipeline and provide a report with future recommendations. The report recommended repairs on one section that will cost approximately \$35-40,000. The report also recommends continuing to inspect portions of the forcemains annually such that the entire pipeline will have been inspected within about five years. Much of this cost is for DSRSD staff. DSRSD staff has developed a plan that will be implemented this fall. | \$100,000 |
| Electrical Improvements to the Main Switchgear at the Pump Station | This project is being carried over from FYE21. This project will improve the original equipment at the pump station. It includes upgrading to multi-function relays at the main service switch gear, which will require some design and interfacing with PG&E. It also includes adding time delay/remote close/trip switches for the main breakers to reduce the arc flash hazard to staff. Both of these items were recommended by the 2016 Pump Station Evaluation Report.  | \$50,000  |
| Replace seventeen valve actuators at the pump station              | There are seventeen valves that have electric actuators at the pump station. All of the valves actuators were installed when the pump station was upgraded twenty years ago and they are at the end of their useful lives. The actuators will be replaced with the newest technology and  | \$255,555 |

# LAVWMA FY2022/23 Budget

| <b>FY2022/23 Capital Program Expenditures</b>       |  |                    |
|---|--|--------------------|
| <b>Project</b>                                      | <b>Description</b>   | <b>Cost</b>        |
|   | will match the style that are commonly used at DSRSD. The actuators cost approximately \$9,000 each and will be installed by DSRSD staff. The total cost includes staff time for the installation.   |                    |
| Replace three flow meters at the junction structure | The three flowmeters at the junction structure are at the end of their useful lives and are no longer as accurate as required for reporting purposes. The project will include replacing all three and then determine if further modifications, such as, snorkels, are required for the flow measurement accuracy required. The cost of the project includes the three meters plus installation and testing costs. | \$250,000          |
| Other Misc. LAVWMA Renewal/Replacements             | As needed  | \$50,000           |
| Other Misc. EBDA Renewal/Replacements               | As needed  | \$50,000           |
| CIP Planning/Mgmt./Contingency                      | As needed  | \$50,000           |
| <b>Total Expenditures</b>                           |  | <b>\$2,650,000</b> |

## 2.3 Changes from FY2021/22 Budget

FY2021/22 expenditures are projected to come in approximately 5.57% below budget due to labor and management activities. The annual reconciliation process will resolve any over or under payments. The FY2022/22 Budget is 10.19% less than FY2021/22 in Total Revenue Requirement. Total O&M costs are 3.60% more than was budgeted last year.

## 3.0 CAPITAL BUDGET

### 3.1 Description of Budget

The Capital budget includes all costs associated with renewal and replacement of existing capitalized facilities. From 2001 to 2010 the 2001 Series A bond funds were the primary source of LAVWMA's capital expenditures. The bond funds were closed out in June 2011. As of July 2011 and for the foreseeable future the only source of capital funding will be the Renewal & Replacement Funds that have been established for Joint Use, Dual Use and Sole Use Facilities. The table below depicts the projected fund balances during FY2022/23.

As discussed previously, it is recommended that the annual contribution to the R&R Fund be continued at the \$400,000 level. The following table for the last several years plus the estimated data for FY2021/22 and recommendations for FY2022/23 show that LAVWMA maintaining the

## LAVWMA FY2022/23 Budget

Joint Use R&R Fund at a sustainable level since FY2010/11. Due to the total project costs and the low interest rates, the annual contribution should be reviewed annually.

| <b>R &amp; R Fund Balances,<br/>6/30/22</b> | <b>Joint</b> | <b>Dual</b> | <b>Sole</b> | <b>Total</b> |
|---|--------------|-------------|-------------|--------------|
| <b>Start of year</b>                        | 13,585,505   | 431,863     | 1,615,786   | 15,633,154   |
| <b>Deposits</b>                             | 400,000      | 0           | 0           | 400,000      |
| <b>Interest Earnings</b>                    | 46,152       | 1,425       | 5,332       | 52,909       |
| <b>Projected Expenditures</b>               | 2,650,000    | 0           | 0           | 2,650,000    |
| <b>End of Year</b>                          | 11,381,657   | 433,288     | 1,621,118   | 13,436,063   |

| <b>R&amp;R Joint Use History</b> |                      |                  |                    |                    |
|----------------------------------|----------------------|------------------|--------------------|--------------------|
| <b>Fiscal Year</b>               | <b>Contributions</b> | <b>Interest</b>  | <b>Expenses</b>    | <b>Net</b>         |
| FY2010/11                        | 0                    | 84,873           | (245,065)          | (160,192)          |
| FY2011/12                        | 300,000              | 51,626           | (411,885)          | (60,259)           |
| FY2012/13                        | 300,000              | 45,064           | (353,404)          | (8,340)            |
| FY2013/14                        | 300,000              | 36,396           | (119,955)          | 216,441            |
| FY2016/17                        | 400,000              | 109,563          | (600,000)          | (90,437)           |
| FY2017/18                        | 400,000              | 225,160          | (154,000)          | 471,160            |
| FY2018/19                        | 400,000              | 494,626          | (309,115)          | 585,511            |
| FY2020/21                        | 400,000              | 65,407           | (768,000)          | (302,593)          |
| FY2021/22                        | 400,000              | 64,317           | (2,598,204)        | (2,133,887)        |
| FY2022/23                        | 400,000              | 64,317           | (2,650,000)        | (2,185,683)        |
| <b>Total</b>                     | <b>3,300,000</b>     | <b>1,241,349</b> | <b>(8,209,628)</b> | <b>(3,668,279)</b> |

### 3.2 Discussion of Capital Expenditures Proposed for FY2021/22

The following table summarizes 2,326,000 of anticipated FY2022/22 capital expenditures on the renewal and replacement of LAVWMA and EBDA facilities. More detailed descriptions are included in Section 2.2.5, Capital Program Funding.

| <b>FY2022/23 Capital Program Expenditures *Carryover</b> |           |
|--|-----------|
| *Purchase three new pumps and rebuild two motors         | \$510,000 |
| *San Leandro Sample Station Design Improvements          | \$900,000 |
| *Cathodic Protection Projects                            | \$135,000 |
| *PLC Upgrade at the Pump Station                         | \$300,000 |
| *Electrical Improvements to Main Switchgear              | \$50,000  |
| *Pipeline Inspection                                     | \$100,000 |
| Replace 17 Valve Actuators at Pump Station               | \$255,000 |
| Replace three flow meters at Junction Structure          | \$250,000 |

# LAVWMA FY2022/23 Budget

|   |                    |
|---|--------------------|
| Other Misc. LAVWMA Renewal/Replacements | \$50,000           |
| Other Misc. EBDA Renewal/Replacements   | \$50,000           |
| CIP Planning/Mgmt/Contingency           | \$50,000           |
| Total Expenditures                      | <b>\$2,650,000</b> |

## 4.0 FY2022/23 Member Agency Cost Sharing & Schedule

| <b>Member Agency Costs FY2022/23</b> |                      |                     |                         |              |                   |  |
|--------------------------------------|----------------------|---------------------|-------------------------|--------------|-------------------|--|
|                                      | <b>Total</b>         | <b>Livermore</b>    | <b>DSRSD/Pleasanton</b> | <b>DSRSD</b> | <b>Pleasanton</b> |  |
| Variable O&M                         | \$ 1,660,959         | \$ 581,336          | \$ 1,079,623            |              |                   |  |
| Fixed O&M                            | 2,054,386            | 618,371             | 1,436,016               |              |                   |  |
| Sole Use Fixed O&M                   | 25,000               | 25,000              |                         |              |                   |  |
| Total O&M                            | 3,740,346            | 1,224,706           | 2,515,639               |              |                   |  |
| Replacement Fund                     | 400,000              | 120,400             | 279,600                 |              |                   |  |
| Repair Debt                          | 2,024,280            | 808,700             | 1,215,580               |              |                   |  |
| Expansion Debt                       | 4,621,420            | 1,040,743           | 3,580,676               |              |                   |  |
| EBDA Debt                            | -                    | -                   | -                       |              |                   |  |
| Total Capital Costs                  | 7,045,700            | 1,969,843           | 5,075,857               |              |                   |  |
| <b>Total Revenue Required</b>        | <b>\$ 10,786,046</b> | <b>\$ 3,194,549</b> | <b>\$ 7,591,496</b>     |              |                   |  |
| Semi Annual O&M Advance              | 1,870,173            | 612,353             | 1,257,820               |              |                   |  |
| Semi Annual Replacement Fund Advance | 200,000              | 60,200              | 139,800                 |              |                   |  |
| July 1 Bond Debt Service Advance     | 5,640,800            | 1,569,788           | 4,071,012               | 2,194,051    | 1,876,961         |  |
| Jan 1 Bond Debt Service Advance      | 1,004,900            | 279,655             | 725,245                 | 390,867      | 334,378           |  |
| Total July 1 Advance                 | \$ 7,710,973         | 2,242,342           | 5,468,631               |              |                   |  |
| Total January 1 Advance              | \$ 3,075,073         | \$ 952,208          | \$ 2,122,864            |              |                   |  |
| <b>Percentages</b>                   |                      |                     |                         |              |                   |  |
| Variable O&M                         |                      | 35.00%              | 65.00%                  |              |                   |  |
| Fixed O&M                            |                      | 30.10%              | 69.90%                  |              |                   |  |
| Replacement Fund                     |                      | 30.10%              | 69.90%                  |              |                   |  |
| Repair Debt                          |                      | 39.95%              | 60.05%                  |              |                   |  |
| Expansion Debt                       |                      | 22.52%              | 77.48%                  |              |                   |  |

## 5.0 Budget Trends FY2013/14 – FY2022/23

The following charts show expense trends from FY2013/14 through FY2022/23. The charts show the following:

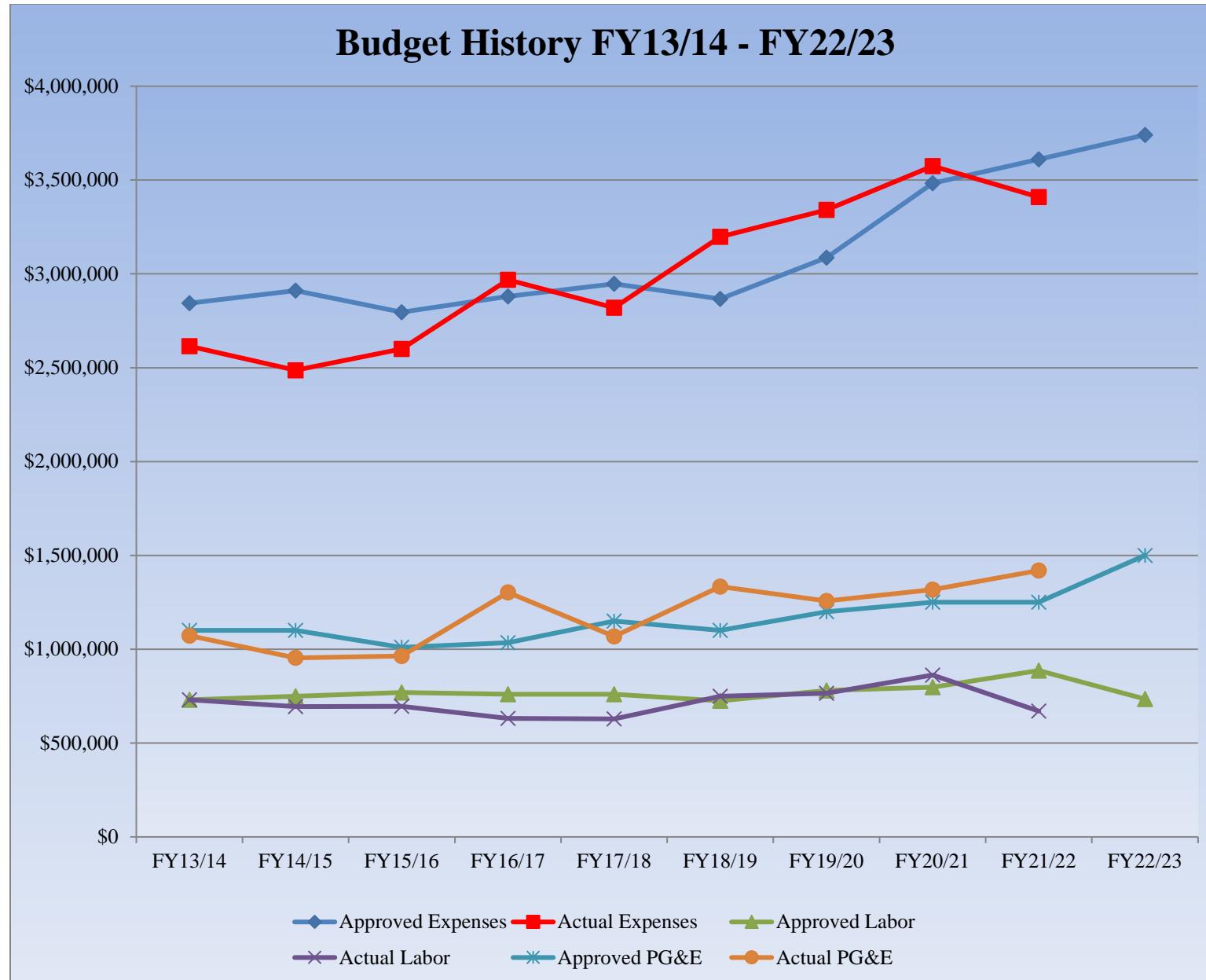
- Approved versus actual expenses for total expenses, labor costs, and PG&E power
- Estimated versus actual export flow
- Estimated versus actual cost per million gallons

Beginning with the FY2019/20 budget, these charts have been modified from previous presentations. The costs shown are total costs as in the approved budgets, which also include costs for EBDA. Previously, EBDA costs were not included. As a consequence, the cost per million gallons is going to be higher than the costs shown in DSRSD's Quarterly reports. The

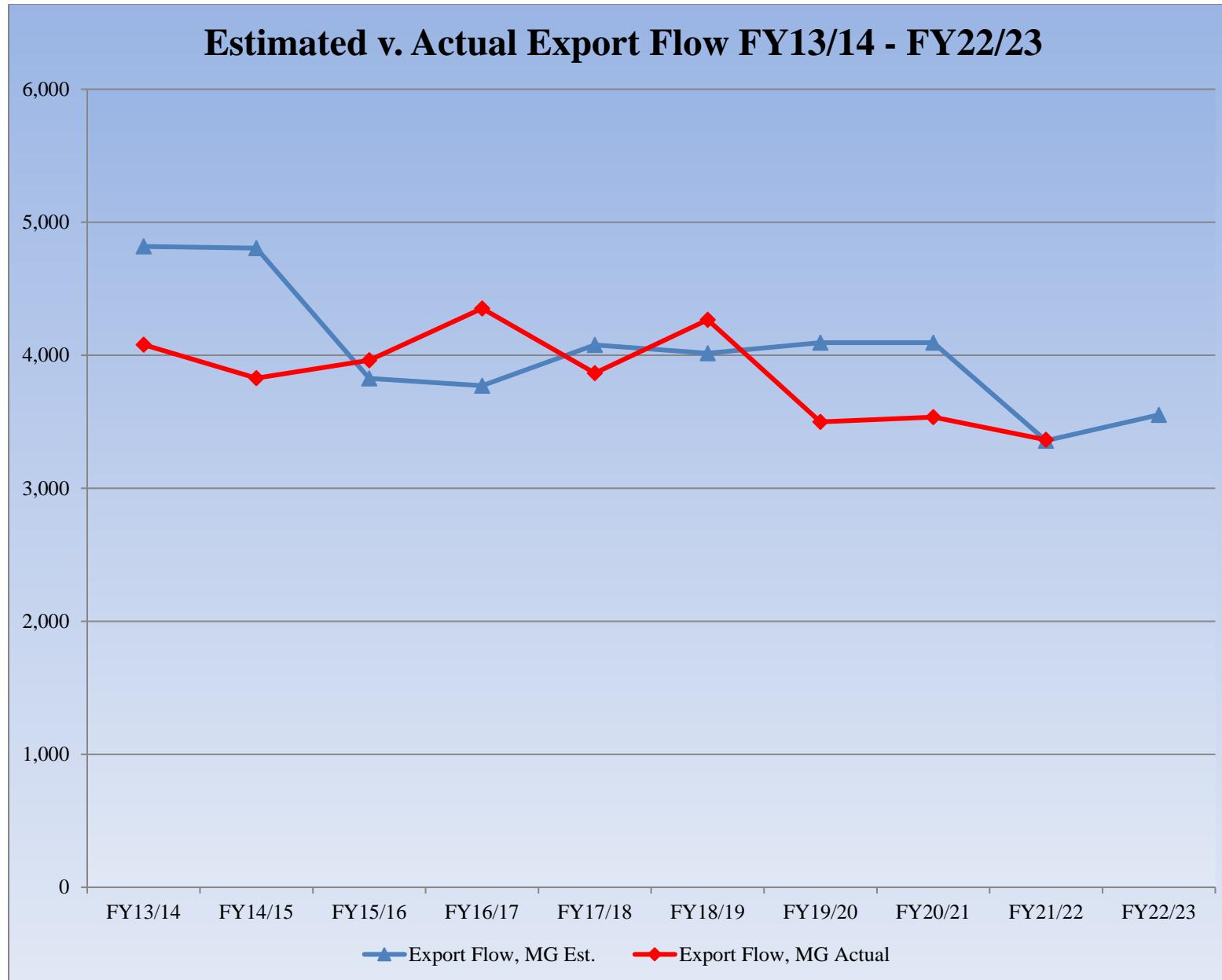
## LAVWMA FY2022/23 Budget

electrical cost for just pumping over the Dublin Grade is approximately \$422/MG as compared with \$373/MG last year, while the full disposal cost, including EBDA costs is approximately \$1,053 versus \$1,075 last year. Although flow and PG&E costs are directly linked, other factors such as fixed costs for labor and equipment repair generally increase at the rate of inflation or CPI, resulting in increasing cost curves. Export flow is decreasing over time due to water recycling efforts.

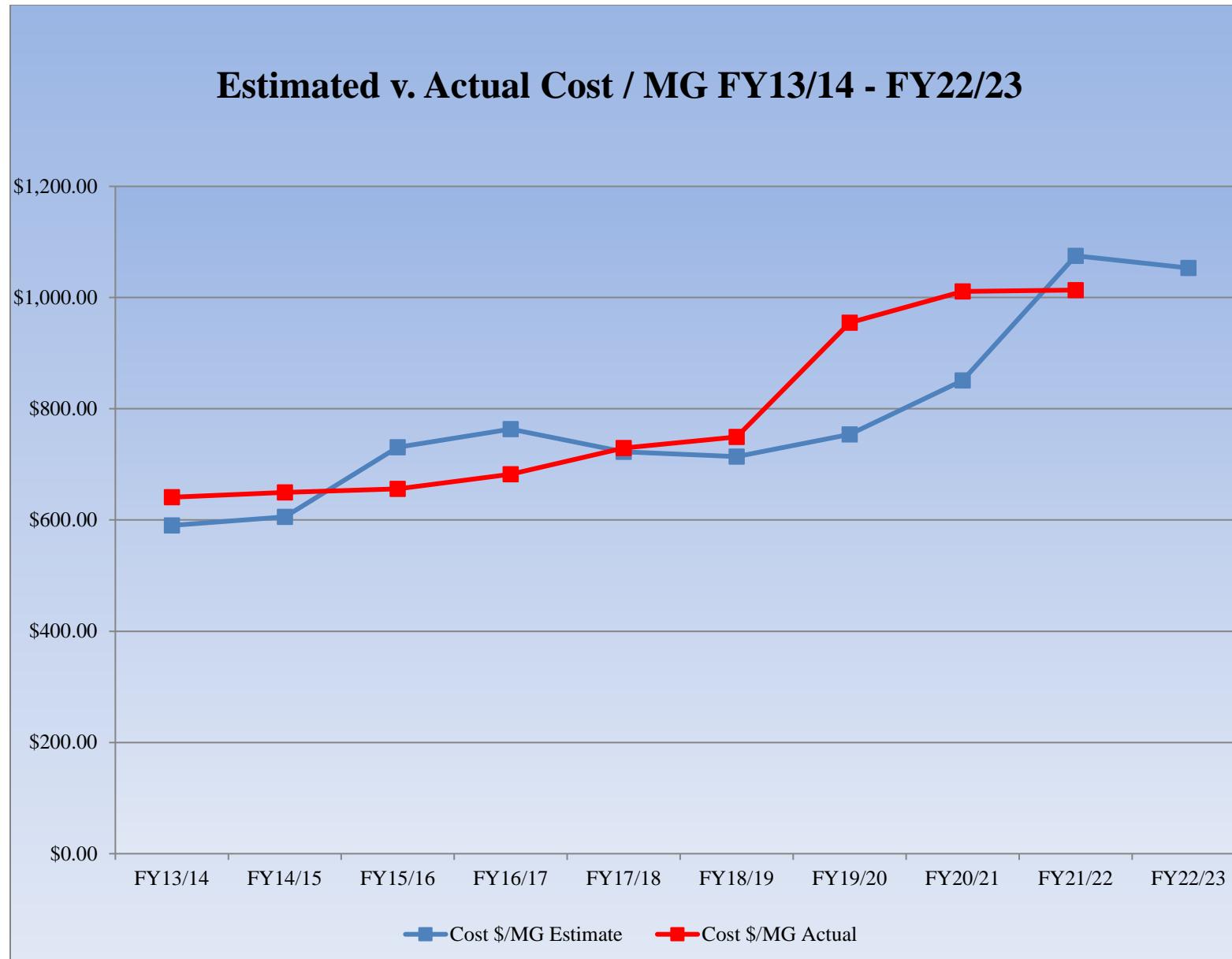
## LAVWMA FY2022/23 Budget



## LAVWMA FY2022/23 Budget



## LAVWMA FY2022/23 Budget



March 22, 2022

Mr. Chuck Weir  
LAVWMA General Manager  
7501 Dublin Blvd  
Dublin, CA 94568

**Subject: UPDATED Proposed LAVWMA Operations & Maintenance Budget for Fiscal Year Ending 6/30/2023 (FYE 2023)**

Dear Chuck:

As you know, DSRSD previously submitted on April 13, 2021 the proposed budgets for the operation and maintenance (O&M) of the LAVWMA facilities for the two fiscal year periods of July 1, 2021 – June 30, 2022 (FY 2022) and July 1, 2022 – June 30, 2023 (FY 2023) to coincide with the District's two-year budget cycle. There has been no significant operational change over the past year as far as impacting budget. However, the District has made adjustments to the original proposed budget for the upcoming FYE 2023 and is hereby proposing an updated budget to address primarily the cost of inflation in labor and materials that have significantly gone up.

The original proposed budget used a 2.75% CPI increase in burden labor rates. The updated budget now has the District's published 2022 billing rates and is increased by \$167,290 from the original proposed labor budget. The District's general overhead factor for its 2022 billings rates increased from 139.44% to 154.44%. Also, to meet the cost of materials and services that has increased at an inflation rate higher than what was anticipated when the original 2-year budget was prepared, the updated budget includes \$80,950 increase (5% adjustment) to the materials and services budget.

Flows were updated to reflect actual 2021 data instead of estimates that were used in the preparation of the original budget. The updated estimated export flow for FYE 2023 is 3,552 MG compared to the original estimated flow of 3,340 MG.

Attachment 1 shows the updated proposed FYE 2023 budget of \$2,861,289. This amount will convey treated wastewater to the discharge point in San Francisco Bay for Livermore, Pleasanton, Dublin, and San Ramon customers at a rate of approximately \$805 per million gallons (MG) based on the revised estimated export flow of 3,552 MG. For your convenience, the expenses are separated by pumping costs (\$2,211,234 or \$622/MG) and pipeline maintenance costs (\$650,055 or \$183/MG).

These are “not-to-exceed” budgets submitted in accordance with the Maintenance Agreement, and the total budget for each fiscal year cannot be increased without the approval of the LAVWMA Board. However, per the terms of the Maintenance Agreement, the “not-to-exceed” amount applies only to District labor, materials and supplies; but does not apply to utilities, laboratory analysis, and contractual services (Article 3, paragraph F). Utility rates and costs, in particular, are essentially beyond the control

of the District and could vary substantially depending on utility rate initiatives and higher than normal flows resulting from above normal wet weather conditions.

Not included in the proposed O&M budget amount are EBDA charges, permit fees, insurance, debt service, Director's fees and expenditures for the LAVWMA General Manager, Treasurer, Counsel, Auditor, and administrative staff.

Attachment 2 provides detail on the 5,800 labor hours or equivalent to 2.5 full-time employees (FTE) that were used for the FYE 2022 budget and is the same for FYE 2023 budget. Labor costs are based on DSRSD's burden labor rates, which are adjusted annually.

Figure 1 shows the projected flow for FY 2022-2023 compared to the amount of recycled water for Pleasanton, EBMUD, and DSRSD.

Figure 2 shows a five-year historic variation in LAVWMA export flows from 2017 to 2021.

DSRSD staff is available at your convenience to discuss the proposed operating and maintenance budgets.

Sincerely,

Jeff Carson  
Operations Manager

/gzl

Attachments

cc: Dan McIntyre, DSRSD General Manager  
Jan Lee, DSRSD Assistant General Manager  
Steve Delight, DSRSD Engineering Services Director  
Carol Atwood, DSRSD Administrative Services Director  
Virgil Sevilla, DSRSD Wastewater Treatment Plant Operations Superintendent  
Maurice Atendido, DSRSD Principal Electrical Engineer, Supervisory  
Shawn Quinlan, DSRSD Maintenance Superintendent  
Diane Griffin, DSRSD Operations Support Services Manager  
Gemma Lathi, Management Analyst II

**FY 2022-2023 LAVWMA OPERATION & MAINTENANCE BUDGET**

| <b>SUMMARY:</b>      |  | <b>Total</b>       | <b>Pumping</b>     | <b>Pipeline</b>  |
|----------------------|--|--------------------|--------------------|------------------|
| DSRSD Labor          |  | \$1,161,350        | \$662,589          | \$498,760        |
| Materials & Supplies |  | \$89,397           | \$56,910           | \$32,487         |
| Laboratory Analysis  |  | \$37,800           | \$8,400            | \$29,400         |
| Contractual Services |  | \$134,243          | \$54,075           | \$80,168         |
| Utilities            |  | \$1,438,500        | \$1,429,260        | \$9,240          |
| Non-Routine          |  | \$0                | \$0                | \$0              |
| <b>Total</b>         |  | <b>\$2,861,289</b> | <b>\$2,211,234</b> | <b>\$650,055</b> |

| <b>Assumptions:</b>      |  | <b>Total</b> | <b>Pumping</b> | <b>Pipeline</b> |
|--------------------------|--|--------------|----------------|-----------------|
| Days of operation =      |  | 365          |                |                 |
| Annual acre feet =       |  | 10,902       |                |                 |
| Annual million gallons = |  | <b>3,552</b> |                |                 |
| <b>Unit Costs:</b>       |  |              |                |                 |
| Cost/AF =                |  | \$262        | \$203          | \$60            |
| Cost/MG=                 |  | <b>\$805</b> | \$622          | \$183           |

**Detailed Breakdown:**

| <b>LABOR</b>                          | <b>Hours</b> | <b>Rate</b> | <b>Labor</b>       | <b>Pumping</b>   | <b>Pipeline</b>  |
|---------------------------------------|--------------|-------------|--------------------|------------------|------------------|
| <b>DIVISION 51 - Field Operations</b> |              |             |                    |                  |                  |
| Water-Wastewater Sys Senior Operator  | 30           | \$206       | \$6,175            | \$0              | \$6,175          |
| Water-Wastewater Sys OP II            | 10           | \$182       | \$1,822            | \$0              | \$1,822          |
| Subtotal                              | 40           |             | \$7,997            | \$0              | \$7,997          |
| <b>DIVISION 52 - WWTP</b>             |              |             |                    |                  |                  |
| Senior Process Operator               | 150          | \$228       | \$34,184           | \$34,184         | \$0              |
| Senior WWTP Operator                  | 720          | \$207       | \$148,824          | \$148,824        | \$0              |
| Operator II                           | 1,700        | \$188       | \$319,495          | \$159,748        | \$159,748        |
| Operator in Training                  | 400          | \$149       | \$59,578           | \$29,789         | \$29,789         |
| Supervisor                            | 110          | \$355       | \$39,074           | \$19,537         | \$19,537         |
| Subtotal                              | 3,080        |             | \$601,156          | \$392,082        | \$209,074        |
| <b>DIVISION 53 - Mechanical</b>       |              |             |                    |                  |                  |
| Mechanic II - Crane Certified         | 60           | \$212       | \$12,691           | \$6,345          | \$6,345          |
| Senior Mechanic                       | 80           | \$227       | \$18,154           | \$1,815          | \$16,339         |
| Mechanic II                           | 980          | \$206       | \$202,179          | \$48,523         | \$153,656        |
| Maintenance Worker II                 | 60           | \$179       | \$10,728           | \$5,364          | \$5,364          |
| Supervisor                            | 50           | \$338       | \$16,882           | \$8,441          | \$8,441          |
| Subtotal                              | 1,230        |             | \$260,634          | \$70,489         | \$190,145        |
| <b>DIVISION 54 - Electrical</b>       |              |             |                    |                  |                  |
| Senior Instrument/Controls Tech       | 30           | \$226       | \$6,793            | \$3,397          | \$3,397          |
| Instrument Tech                       | 300          | \$193       | \$57,860           | \$28,930         | \$28,930         |
| OPS Control Sys Spec                  | 300          | \$206       | \$61,754           | \$46,316         | \$15,439         |
| Senior Electrician                    | 30           | \$208       | \$6,254            | \$6,254          | \$0              |
| Electrician II                        | 440          | \$189       | \$83,013           | \$83,013         | \$0              |
| Supervisor                            | 30           | \$328       | \$9,825            | \$4,913          | \$4,913          |
| Subtotal                              | 1,130        |             | \$225,500          | \$172,822        | \$52,678         |
| <b>DIVISION 56 - Safety</b>           |              |             |                    |                  |                  |
| Safety Officer                        | 60           | \$129       | \$7,711            | \$3,856          | \$3,856          |
| Subtotal                              | 60           |             | \$7,711            | \$3,856          | \$3,856          |
| <b>DIVISION 40 - Engineering</b>      |              |             |                    |                  |                  |
| Senior Civil Engineer-SME             | 100          | \$286       | \$28,633           | \$11,453         | \$17,180         |
| Construction Inspector I              | 80           | \$168       | \$13,458           | \$5,383          | \$8,075          |
| Engineering Technician II             | 40           | \$174       | \$6,975            | \$2,790          | \$4,185          |
| GIS Analyst II                        | 40           | \$232       | \$9,285            | \$3,714          | \$5,571          |
| Subtotal                              | 260          |             | \$58,351           | \$23,340         | \$35,010         |
| <b>Total Labor</b>                    | <b>5,800</b> |             | <b>\$1,161,350</b> | <b>\$662,589</b> | <b>\$498,760</b> |
| <b>FTE's</b>                          | <b>2.8</b>   |             |                    |                  |                  |

Note: FYE 2023 estimated labor rates is based on actual 2022 billing rates.

**FY 2022-2023 LAVWMA OPERATION & MAINTENANCE BUDGET**

|   | <u>Expense</u>     | <u>Pumping</u>     | <u>Pipeline</u>  |
|---|--------------------|--------------------|------------------|
| <b>MATERIALS &amp; SUPPLIES</b>                               |                    |                    |                  |
| <b>Operations Supplies</b>                                    |                    |                    |                  |
| Calcium Thiosulfate dechlorinating agent                      | \$12,600           | \$6,300            | \$6,300          |
| Supplies/Expenses (misc)                                      | \$1,050            | \$525              | \$525            |
| Subtotal  | \$13,650           | \$6,825            | \$6,825          |
| <b>Mechanical Supplies</b>                                    |                    |                    |                  |
| Materials and supplies  | \$11,550           | \$10,500           | \$1,050          |
| Pump & equip repair parts                                     | \$7,875            | \$7,875            | \$0              |
| Air relief valve parts  | \$5,250            | \$0                | \$5,250          |
| Oils, lubricants  | \$2,625            | \$2,625            | \$0              |
| Subtotal  | \$27,300           | \$21,000           | \$6,300          |
| <b>Electrical Supplies</b>                                    |                    |                    |                  |
| Instrument parts  | \$4,830            | \$2,415            | \$2,415          |
| Analyzer parts  | \$18,060           | \$13,125           | \$4,935          |
| MCC equipment/parts   | \$11,645           | \$4,830            | \$6,815          |
| SCADA parts   | \$8,085            | \$6,300            | \$1,785          |
| Soft-starter parts and repairs                                | \$5,828            | \$2,415            | \$3,413          |
| Subtotal  | \$48,447           | \$29,085           | \$19,362         |
| <b>Total Materials &amp; Supplies</b>                         | <b>\$89,397</b>    | <b>\$56,910</b>    | <b>\$32,487</b>  |
| <b>LABORATORY ANALYSIS</b>                                    |                    |                    |                  |
| Compliance Testing  | \$10,500           | \$8,400            | \$2,100          |
| Operational Support Testing                                   | \$4,200            | \$0                | \$4,200          |
| Special Sampling  | \$23,100           | \$0                | \$23,100         |
| <b>Total Laboratory Analysis</b>                              | <b>\$37,800</b>    | <b>\$8,400</b>     | <b>\$29,400</b>  |
| <b>CONTRACTUAL SERVICES</b>                                   |                    |                    |                  |
| Sub-surface and Surface Repairs                               | \$15,750           | \$0                | \$15,750         |
| Street Sweeping   | \$5,250            | \$5,250            | \$0              |
| Cathodic Protection Survey and Repairs                        | \$31,500           | \$0                | \$31,500         |
| Underground Service Alert                                     | \$4,725            | \$0                | \$4,725          |
| SCADA software maintenance contract and support services      | \$17,850           | \$12,495           | \$5,355          |
| Remote monitoring annual service for PS and Rectifier Panels  | \$5,250            | \$1,050            | \$4,200          |
| HVAC Maintenance/Repairs                                      | \$788              | \$525              | \$263            |
| Termit/Pest Control   | \$945              | \$945              | \$0              |
| Landscape/weed maintenance                                    | \$10,500           | \$7,875            | \$2,625          |
| Janitorial Service  | \$9,975            | \$9,975            | \$0              |
| Fire Extinguisher Maint                                       | \$210              | \$210              | \$0              |
| Professional Services, misc                                   | \$31,500           | \$15,750           | \$15,750         |
| <b>Total Contractual Services</b>                             | <b>\$134,243</b>   | <b>\$54,075</b>    | <b>\$80,168</b>  |
| <b>UTILITIES</b>  |                    |                    |                  |
| Electricity (PG&E)  | \$1,430,205        | \$1,424,115        | \$6,090          |
| Water & Sewer (Pleasanton)                                    | \$945              | \$945              | \$0              |
| Water (EBMUD)   | \$1,050            | \$1,050            | \$0              |
| Telephone/communications/T-1                                  | \$6,300            | \$3,150            | \$3,150          |
| <b>Total Utilities</b>  | <b>\$1,438,500</b> | <b>\$1,429,260</b> | <b>\$9,240</b>   |
| <b>TOTAL O&amp;M BUDGET (LABOR, MATERIALS &amp; SERVICES)</b> | <b>\$2,861,289</b> | <b>\$2,211,234</b> | <b>\$650,055</b> |

**Attachment 2****LAVWMA LABOR HOURS ESTIMATES**

**USED FOR BOTH  
FYE 2022 & FYE 2023**

**PERSONNEL****Division 51 - Field Operations (Distribution)**

|                              |   |           |
|------------------------------|---|-----------|
| Water-Wastewater Sys OP IV   | TV inspection of export pipe, 1/2 day/year, 2 Operators | <b>40</b> |
| Water-Wastewater Sys OP IV   | Traffic control for vault entries, misc                 | 10        |
| Water-Wastewater Sys OP IV   | Vacuum cleaning assistance at basins                    | 10        |
| Water/Wastewater Operator II | General tasks   | 10        |

**Division 52 - Treatment Plant Operations**

|                           |  |             |
|---------------------------|--|-------------|
| Process Lead Operator V   | Pump efficiency testing and SOP's, planning, inspections           | <b>3080</b> |
| Senior WWTP Operator III  | Spot checks on off-shifts and weekends + hours for storms          | 150         |
| Senior WWTP Operator III  | Daily pump station operation/monitoring, 3 hrs/day 5 days per week | 100         |
| WWTP Operator II          | General tasks  | 620         |
| WWTP Operator in Training | General tasks  | 1700        |
| Supervisor                | Inspections/direction of staff and activities, 2 hours/week        | 400         |
|                           |  | 110         |

**Division 53 - Mechanical Maintenance**

|                            |   |             |
|----------------------------|---|-------------|
| Senior Mechanic-Crane Cert | Regular maintenance, 4 hrs/day, 2 days per week             | <b>1230</b> |
| Senior Mechanic (USA)      | USA Marking, when other trained employees are not available | 60          |
| Mechanic II                | PM's and misc repairs, as needed                            | 80          |
| Mechanic II (USA)          | PM's and misc repairs, as needed                            | 320         |
| Mechanic II                | USA Marking, 1 hour per day, 5 days per week                | 260         |
| Mechanic II                | Confined space entries, 4 weeks/year, 2 employees           | 400         |
| Maintenance Worker         | General tasks   | 60          |
| Supervisor                 | Inspections/direction of staff and activities, 1 hour/week  | 60          |
|                            |   | 50          |

**Division 54 - Electrical & Instrumentation Maintenance**

|                                 |  |             |
|---------------------------------|--|-------------|
| Senior Instrument/Controls Tech | Instrument replacement/SCADA troubleshooting   | <b>1130</b> |
| Instrument Tech                 | Instrument checks/calibration                  | 30          |
| OPS Control Sys Spec            | SCADA system repairs/programming               | 300         |
| Senior Electrician              | Switchgear & electrical inspections and repair | 300         |
| Electrician                     | Switchgear & electrical inspection/repairs     | 30          |
| Supervisor                      | General tasks                                  | 440         |
|                                 | Inspections/direction of staff and activities  | 30          |

**Division 56 - Safety**

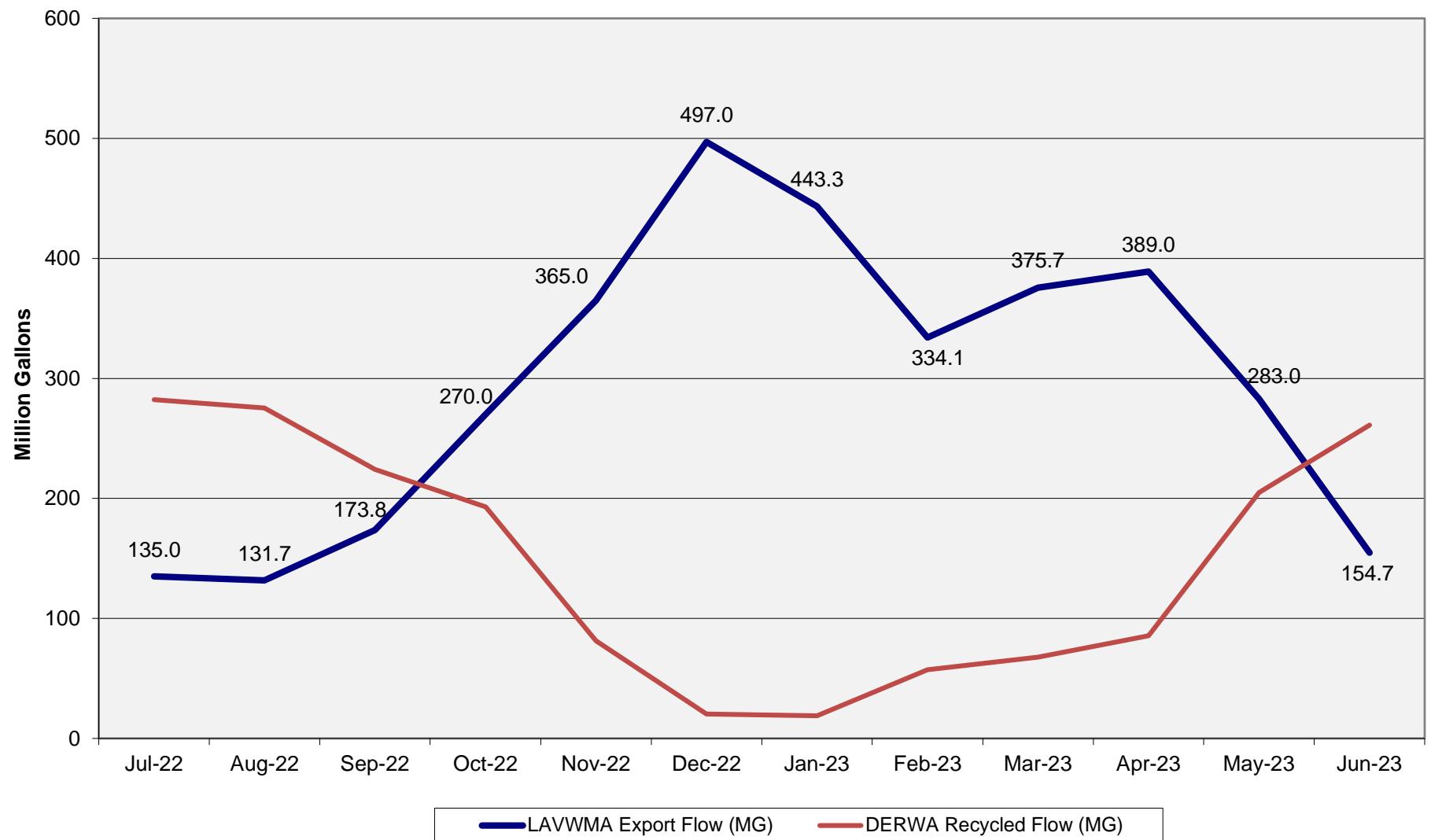
|                |   |           |
|----------------|---|-----------|
| Safety Officer | Special safety inspections of LAVWMA facilities | <b>60</b> |
|                |   | 60        |

**Division 40 - Engineering**

|                           |  |            |
|---------------------------|--|------------|
| Senior Civil Engineer-SME | Assistance with engineering, maintenance, and bidding issues | <b>260</b> |
| Construction Inspector I  | Project construction inspection                              | 100        |
| Engineering Tech II       | Plan checks on LAVWMA lines                                  | 80         |
| GIS Analyst II            | Plan checks on LAVWMA lines                                  | 40         |

|                                   |             |
|-----------------------------------|-------------|
| <b>TOTAL BILLABLE LABOR HOURS</b> | <b>5800</b> |
| FTE's                             | 2.79        |

**Figure 1**  
**FY 2022-2023 Flow Projection**  
**Total 3552.23 MG**



Sum of Flow in MG

Figure 2: LAVWMA Monthly Export Flow 5-Year History

