



**SPECIAL MEETING
OF THE BOARD OF DIRECTORS
OF THE LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY**

Wednesday, June 29, 2022, 6:00 p.m.

Due to State of Emergency related to Covid-19 and the need to maintain social distancing, this meeting will be conducted via teleconference.

Meeting participants and the public may participate through computer video and audio by clicking on the following link:

<https://us02web.zoom.us/j/88291918853>

We recommend using your full name to log in for the meeting for ease of identification and recordkeeping purposes.

Meeting ID: 882 9191 8853

**One tap mobile if using audio only from a telephone and not a computer
+1 669 900 9128 - 88291918853# US (San Jose)**

See below for additional info on participation procedures.

- 1. Call to Order**
- 2. Pledge of Allegiance**
- 3. Roll Call**
- 4. Order of Agenda/Acknowledgement of Posting**
(The agenda may be re-ordered by motion of the Board. The agenda has been posted virtually on the Agency's website and, to the extent possible under the circumstances, physically in the display case outside the DSRSD Building, Pleasanton City Hall and Livermore City Hall at least 72 hours prior to a regular meeting and 24 hours prior to a special meeting.)
- 5. Public Comment**
(See text in box below for information on how to observe and submit public comments.)
- 6. Consent Calendar**
(All items on the Consent Calendar will be considered together by one or more action(s) of the Board unless a Board member pulls an item.)

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| Action
Pages 5 – 9 | 6.a. Board Meeting Minutes for the February 16, 2022 meeting
(The Board will consider approving the minutes from the February 16, 2022 Board meeting.) |
| Action
Page 10 | 7. Annual Board Rotation – Elect Chair and Vice Chair for FY2022/23
(The Board will elect a Chair and Vice Chair for FY2022/23.) |
| Resolution

Pages 11 – 17 | 8. Consider Adopting a Resolution Authorizing Continued Remote Teleconference Meetings of the Legislative Bodies of the Livermore-Amador Valley Water Management Agency Pursuant to Brown Act Provisions
(The Board will consider how the State of Emergency impacts the ability of the LAVWMA Board and its legislative bodies to meet safely in person due to COVID-19, the strong recommendation by local health authorities to hold public meetings online, and/or the imminent health and safety risks of meeting in person, and the limitations of the meeting spaces available to LAVWMA to maintain social distancing or hold meetings outdoors, and consider whether to adopt a resolution to continue remote meetings for the next 30 days in compliance with AB 361 to better ensure the health and safety of the public.) |
| Resolution
Pages 18 – 20 | 9. Approval of a Resolution Changing the Official Regular Meeting Location
(The Board will consider approving a Resolution changing the official regular meeting location from City of Pleasanton to the Dublin San Ramon Services District.) |
| Information
Pages 21 – 26 | 10. Financial Reporting for the Fiscal Year Ending June 30, 2022
(The Board will review the Financial Reports for the Fiscal Year ending June 30, 2022.) |
| Action

Pages 27– 40 | 11. Approval of Engagement Letter with Maze & Associates to Provide Financial Audit Services for the Fiscal Year Ending June 30, 2022
(The Board will consider authorizing the General Manager to sign the Engagement Letter with Maze & Associates for Financial Audit Services for the Fiscal Year Ending June 20, 2022.) |
| Information
Pages 41 – 64 | 12. LAVWMA Quarterly Report of Operations, 3rd Quarter, FY2021-2022
(The Board will review the Quarterly Report of Operations, 3rd Quarter, FY2021-2022.) |
| Action
Pages 65 – 94 | 13. Proposed Operating and Capital Budget for Fiscal Year 2022/23
(The Board will consider approving the Proposed Operating and Capital Budget for Fiscal Year 2022/23.) |
| Information

Pages 95– 86 | 14. Project Status Reports - Motor Control Center Replacement Project, Purchase of Three Vertical Turbine Pumps, and the San Leandro Sample Station Improvements Project
(The Board will receive status reports on projects at the Export Pump Station and the San Leandro Sample Station.) |
| Information
Pages 97– 124 | 15. Regional Purified Water Pilot Project
(The Board will review the status of a proposed Regional Purified Water Pilot Project being studied by Dublin San Ramon Services District and Alameda County Water Project.) |
| Information
Page 125 | 16. Biennial Review of the Conflict of Interest Code
(As required by the Fair Political Practices Commission, the Board will conduct its biennial review of the Conflict of Interest Code.) |

- Information** **17. Update and Response to Various Legal and Legislative Issues**
Pages 126 – 165 (The Board will receive a report regarding proposed legislation and legal developments affecting LAVWMA and its member agencies.)
- Information** **18. General Manager’s Report**
Pages 166 – 179 (The Board will review the General Manager’s Report regarding the operations and maintenance of the Agency and its facilities.)
- Information** **19. Matters From/For Board Members**
 (Board members may make brief announcements or reports on his or her own activities, pose questions for clarification, and/or request that items be placed on a future agenda. Except as authorized by law, no other discussion or action may be taken.)
- 20. Next Regular Board Meeting, Wednesday, August 17, 2022, 6:00 p.m.**
- 21. Adjournment**

IMPORANT NOTICE REGARDING COVID-19 AND TELECONFERENCED MEETINGS:

Due to the State of Emergency declared by the Governor and the recommendation by the County Public Health Officer to maintain social distancing, to minimize the spread of the coronavirus, please note the following changes to LAVWMA’s ordinary meeting procedures:

- LAVWMA’s facilities are not open to the public during this emergency.
- The meeting will be conducted via teleconference.
- All members of the public seeking to observe and/or to address the Board may participate in the meeting telephonically in the manner described below.

HOW TO PARTICIPATE IN THE MEETING:

For both audio and video through a computer, click on the following link:

<https://us02web.zoom.us/j/86327092058> Meeting ID: 863 2709 2058

For audio only via telephone, dial 1 669 900 9128 then enter the following code 86327092058#

NOTE: This is a public meeting that can be heard live by any member of the public. It may be recorded to facilitate taking meeting minutes.

HOW TO SUBMIT PUBLIC COMMENTS:

Written / Read Aloud: Please email your comments to info@lavwma.com, write “Public Comment” in the subject line. In the body of the email, include the agenda item number and title, as well as your comments. If you would like your comment to be read aloud at the meeting (not to exceed three (3) minutes at staff’s cadence), prominently write “Read Aloud at Meeting” at the top of the email. All comments received before 12:00 PM the day of the meeting will be included as an agenda supplement on LAVWMA’s website under the relevant meeting date and provided to the Directors at the meeting. Comments received after this time will be treated as concurrent comments.

Live Comments: During the meeting, the Board President or designee will announce the opportunity to make public comments. Members of the public may submit a live remote public comment via Zoom. Speakers will be asked to provide their name and city of residence, although providing this is not required for participation. Each speaker will be afforded up to 3 minutes to speak. Speakers will be muted until their opportunity to provide public comment. When the Board President opens a public comment period on an item on which you would like to comment, please use the “raise hand” feature (or press *9 if connecting via telephone) which will alert staff that you have a comment to provide

ACCESSIBILITY INFORMATION:

Board Meetings are accessible to people with disabilities and others who need assistance. Individuals who need special assistance or a disability-related modification or accommodation (including auxiliary aids or services) to observe and/or participate in this meeting and access meeting-related materials should contact Chuck Weir, General Manager, as soon as possible but at least 72 hours before the meeting at (925)-875-2202 or info@lavwma.com. Advanced notification will enable LAVWMA to swiftly resolve such requests to ensure accessibility.

PUBLIC RECORDS:

Public records that relate to any item on the open session agenda for a meeting are available for public inspection. Those records that are distributed after the agenda posting deadline for the meeting are available for public inspection at the same time they are distributed to all or a majority of the members of the Board. The Board has designated LAVWMA's website located at http://lavwma.com/agency_meetings.php as the place for making those public records available for inspection. The documents may also be obtained by contacting the General Manager.

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LAVWMA
Livermore-Amador Valley Water Management Agency

Draft

Minutes

Regular Meeting of Board of Directors

Wednesday, February 16, 2022

**Pursuant to AB 361, this was a web meeting available to participants and the public
through the following link: <https://us02web.zoom.us/j/86327092058>
6:00 p.m.**

1. Call to Order

Chair Ann Marie Johnson called the meeting to order at 6:01 p.m.

2. Pledge of Allegiance

The Pledge of Allegiance was recited.

3. Roll Call

Board Members Present: Chair Ann Marie Johnson; Vice Chair Julie Testa; and Directors Valerie Arkin, Gina Bonanno, Bob Carling (arrived at 6:03 p.m.), and Arun Goel

Board Members Absent: None

Staff Present: General Counsel Alexandra Barnhill, Treasurer Carol Atwood, DSRSD Operations Director Jeff Carson, and General Manager Chuck Weir

Staff Absent: None

4. Order of Agenda/Acknowledgement of Posting

There were no changes to the order of the agenda.

5. Comments from the Public

There were no comments from the public.

6. Consent Calendar

a. Minutes of the November 17, 2021 LAVWMA Board Meetings

Director Arkin motioned, seconded by Director Bonanno, to approve Consent Calendar Item No. 6.a.

There were no comments from the public. The Motion passed unanimously (6 – 0) by a roll call vote.

7. Consider Adopting a Resolution Authorizing Continued Remote Teleconference Meetings of the Legislative Bodies of the Livermore-Amador Valley Water Management Agency Pursuant to Brown Act Provisions

General Counsel Barnhill previously described this issue, including the expiration of the Governor's Executive Order that temporarily allowed remote meetings, the passage of AB 361 allowing public agencies to continue to meet remotely provided that certain findings (describing the health and safety reasons justifying remote participation) can be made, and an order from the Contra Costa County Public Health Department, which was updated on February 2, 2022, recommending that public meetings be held remotely to reduce the spread of COVID-19. The end result is that, so long as the findings can continue to be made, remote meetings will be allowed until January 1, 2024, when AB 361 will sunset. A resolution similar to the one proposed making the necessary findings will need to be approved at each regular meeting.

Director Carling motioned, seconded by Director Arkin, to approve Resolution No. 22-01 Authorizing Continued Remote Teleconference Meetings of the Legislative Bodies of the Livermore-Amador Valley Water Management Agency Pursuant to Brown Act Provisions.

There were no comments from the public. The Motion passed unanimously (6 – 0) by a roll call vote.

8. Financial Reporting for the Fiscal Year Ending June 30, 2021

Treasurer Atwood provide a summary of the financial reports and noted two items. The first item is that the credit from PG&E for over \$89,000 due to a billing error has been received. The second item is that insurance premiums continue to rise for all public agencies due the huge losses suffered by insurance companies due to the wildfires throughout the state. This was an information item only requiring no action by the Board.

9. LAVWMA Quarterly Report of Operations, 2nd Quarter, FY2021-2022

General Manager Weir provided an overview of the report and noted the various charts showing pump performance, electrical usage, and maintenance activities. Director Arkin asked about the lower pump efficiency in October 2021. General Manager Weir stated that it was likely due to the MCC replacement project that required operating pumps during different times than normal.

10. Project Status Reports – Motor Control Center Replacement Project, Purchase of Three Vertical Turbine Pumps, and the San Leandro Sample Station Improvements Project

General Manager Weir discussed the status of the Motor Control Center (MCC) project and noted that it was nearing completion. All equipment has been installed, is in service, and is operating as designed. He noted that remaining work includes making sure the settings in the control system are set as designed. There is also some training on the new switchgear that is required.

General Manager Weir then discussed the status of pump replacement project. The contract with Trillium was fully executed on December 9, 2021. This took longer than expected since Trillium changed the signatories on the agreement twice during the DocuSign process. Trillium's pump submittal package was received on January 21, 2022 and LAVWMA's engineer provided his review on February 16, 2022. There were still some issues regarding Trillium's insurance documentation, but as of February 16, all issues have been resolved.

Lastly General Manager Weir discussed the San Leandro Sample Station (SLSS) project and indicated that due to the increased project costs, the design costs have also increased. The design engineer, Hydro Science, has submitted a request to increase the total of their cost ceiling by \$44,800, or 24.2% above the original cost of \$185,000. The amendment to the agreement is Agenda Item No. 11. Since the project will extend into the next fiscal year there is no need to modify this year's budget.

This was an information item only requiring no action by the Board.

11. Amendment No. 1 to Agreement for Consultant Services with HydroScience for the Design of the San Leandro Sample Station Improvement Project

General Manager Weir stated that this item is based on the previous agenda item and has been reviewed by DSRSD staff and the member agencies. Director Bonanno asked for a brief summary of the purpose of the project. General Manager Weir responded that it is to improve the operation of the San Leandro Sample Station (SLSS) such that it can be efficiently operated remotely. The SLSS has been in service for thirty years and most of the equipment is nearing the end of its useful life and is based on outdated technology.

Director Bonanno motioned, seconded by Director Arkin, to approve Amendment No. 1 to Agreement with HydroScience for the Design of the San Leandro Sample Station Improvements Project.

There were no comments from the public. The Motion passed unanimously (6 – 0) by a roll call vote.

12. Proposed South Livermore Sewer Expansion Project into Unincorporated Areas

General Manager Weir and General Counsel Barnhill provided a summary of the proposed project and the fact that it will require unanimous approval by the LAVWMA Board once it is fully presented to the Board for consideration. This is pursuant to the JPA and Resolution No. 17-01. The project must first be approved by the voters in the City of Livermore (City). The potential flows from the project do not present any issues for LAVWMA operations. The purpose of the project is to allow existing businesses, primarily wineries, tasting rooms, and large houses on the winery properties to connect to the collection system and eliminate existing sewer systems. They noted that these facilities will need to pay a connection fee to be part of the system.

Director Arkin asked if this project would require a tax increase that must be approved by the voters. Directors Bonanno and Carling stated that the City's South Livermore Plan required that the voters must approve all development projects, including utility extensions, outside the urban growth boundary. They stated that there will not be a tax increase, just the connection fee and ongoing service fees once the facilities are connected. They further stated that the wineries requested the project as some of them are currently paying fines to the state for adding nitrate to the groundwater basin via the septic systems. Connecting to the collection system will allow the wineries to generate more revenue since they could provide additional services to customers.

The Board reviewed the list of proposed questions from LAVWMA that would be part of a letter responding to the City's letter to LAVWMA. Information that would be requested include timing, number of ultimate connections, and environmental benefits. The Board expressed support for the list of questions. General Counsel Barnhill noted that if the Board has additional questions over the next week of so that they can forward them to the General Manager.

12. Update and Response to Various Legal and Legislative Issues

General Manager Weir provide an overview of the February 2022 updates from CASA and BACWA. He noted that the blanket permit amendment for chlorine residual has been approved by the Regional Board. He also noted that the State Board is issuing an update to the requirements for the Sanitary Sewer System General Order that is being watched closely by both CASA and BACWA. Director Arkin inquired about PFAS and biosolids. General Manager Weir noted that there was a study that showed that the groundwater below farmland where biosolids are applied is virtually the same as farmland without biosolids application, which indicates that PFAS in biosolids are not leaching into groundwater.

General Counsel Barnhill discussed AB 602 and its potential impact on nexus fee studies often used to develop mitigation fees, which are designed to offset the impact of new development on public agency services and infrastructure. The legislation requires nexus studies be updated every 8 years and that prior to implementing a mitigation fee, an agency will need to meet certain substantive and procedural requirements to justify the cost imposed on payors. Member agencies should expect to see updates to their existing and proposed fee studies in the coming years and potentially more scrutiny in this area of municipal revenue.

This was an information item only requiring no action by the Board.

13. General Manager's Report

General Manager Weir highlighted several areas of his report, including asset management, records management, succession planning, and Form 700 submission. Board members asked if it would be possible for LAVWMA to use an electronic system similar to what is used by Cities. Treasurer Atwood stated that she would look into it. Director Goel noted that Netfile works well. This was an information item only requiring no action by the Board.

14. Matters From/For Board Members

There were no matters from the Board.

15. Next Regular Board Meeting, Wednesday, May 18, 2022 at 6:00 p.m.

There was discussion concerning an in person or Zoom meeting in February. The official location is currently City of Pleasanton Council Chambers. Board members felt that remote meetings are preferred to be more efficient and cut down on travel time as well as to reach a broader public audience. Following discussion it was agreed that the May 18, 2022 meeting would be a Zoom meeting unless conditions dictate otherwise. In that case the meeting could be set up as a hybrid meeting using both Pleasanton facilities and Zoom.

There were no comments from the public.

16. Adjournment

There being no further action, Chair Johnson adjourned the meeting at 7:05 p.m.

Minutes Approved by the Board _____.

Charles V. Weir
General Manager

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Agenda Explanation
 Livermore-Amador Valley
 Water Management Agency
 Board of Directors
 June 29, 2022

ITEM NO. 7 ANNUAL BOARD ROTATION – ELECT CHAIR AND VICE CHAIR FOR FY2022/23

Action Requested

Nominate and Elect a Chair and Vice Chair for FY2022/23.

Summary

At the start of each fiscal year, the LAVWMA Board has traditionally rotated each member agency through the Chair and Vice Chair positions. During FY2021/22, Ann Marie Johnson, DSRSD, is serving as Chair and Julie Testa, Pleasanton, is serving as Vice Chair. During FY2020/21, Bob Woerner, Livermore, began as Chair and Ann Marie Johnson completed his term when he left the Board having been elected Mayor. Julie Testa completed the term of Vice Chair. In following with this rotation, it would be appropriate for the next Chair to be from Pleasanton and the Vice Chair to be from Livermore.

Following is a list of LAVWMA's Past Officers:

Fiscal Year	Chair	Vice Chair
2013/14	Pleasanton – Thorne	Livermore – Marchand
2014/15	Livermore – Marchand	DSRSD – Halket
2015/16	DSRSD – Benson/Duarte	Pleasanton – Pentin
2016/17	Pleasanton – Pentin	Livermore – Woerner
2017/18	Livermore – Woerner	DSRSD – Misheloff
2018/19	DSRSD – Misheloff	Pleasanton – Pentin
2019/20	Pleasanton – Pentin	Livermore – Woerner
2020/21	Livermore – Woerner	DSRSD, Johnson
2021/22	DSRSD, Johnson	Pleasanton, Testa
2022/23	Pleasanton	Livermore

Recommendation

Nominate and elect a Chair and Vice Chair for FY2021/23. This action requires a majority vote of the Directors present pursuant to Section 7.5 of the LAVWMA Joint Powers Agreement. The new positions will be effective July 1, 2022.

Attachments

None

ITEM NO. 8 CONSIDER ADOPTING A RESOLUTION AUTHORIZING CONTINUED REMOTE TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF THE LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY PURSUANT TO BROWN ACT PROVISIONS

Action Requested

Approve Resolution No. 22-01 Authorizing Continued Remote Teleconference Meetings of the Legislative Bodies of the Livermore-Amador Valley Water Management Agency Pursuant to Brown Act Provisions.

Background

On March 4, 2020, Governor Newsom declared a State of Emergency to make additional resources available, formalize emergency actions already underway across multiple State agencies and departments, and help the State prepare for a broader spread of COVID-19.

On March 17, 2020, the Governor issued Executive Order N-29-20 which authorized meetings of local legislative bodies to be held by teleconference as long as specified notice and comment provisions were followed. Given the state of emergency and authority to meet remotely, on April 3, 2020 the Board President issued a declaration altering the regular meeting location to be held via teleconference only. The Board ratified this declaration at its regular meeting on May 20, 2020. For the past year and a half, LAVWMA has been meeting remotely via Zoom. Meeting remotely has allowed LAVWMA to ensure the public's continued access to government meetings while also ensuring the public's safety.

On June 11, 2021, Governor Newsom issued Executive Order N-08-21, which rescinded his prior Executive Order N-29-20 and set a date of October 1, 2021 for agencies to transition back to public meetings held in full compliance with the Brown Act. However, the Delta variant has emerged, causing a spike in cases throughout the State. As a result, the Alameda and Contra Costa County Public Health Departments have issued a Health Order requiring masks indoors in public places, regardless of vaccination status.

On September 16, 2021, the Governor approved AB 361, which allowed local legislative bodies to continue to meet remotely after October 1 under certain circumstances. The Board adopted Resolution No. 21-08 finding that a proclaimed state of emergency existed due to coronavirus and unanimously voted that as a result of that emergency, meeting in person would present imminent risks to the health and safety of attendees. In order to continue to meet remotely, the Board must reevaluate and adopt new findings every 30 days.

Discussion

Under AB 361, if the state of emergency remains active for more than 30 days, a local agency must make the following findings by majority vote every 30 days to continue using the bill's exemption to the Brown Act teleconferencing rules. The findings are that:

- The legislative body has reconsidered the circumstances of the emergency; and
- Either of the following circumstances exist: The state of emergency continues to directly impact the ability of members to meet safely in person, or State or local officials continue to impose or recommend social distancing measures.

Staff is recommending that Resolution No. 22-01 be adopted as these findings can be made. Specifically, LAVWMA meets the requirements to continue holding meetings remotely in order to ensure the health and safety of the public because:

- LAVWMA is still under a state of emergency as declared by the Governor.
- Due to the recent surge of cases, County Health Orders require that all individuals 2 years of age and older wear a mask in most indoor public spaces. Not all individuals can be vaccinated due to health status or age.
- County Public Health officers as well as state and federal officials have issued various health orders, recommendations, and updates designed to slow the spread of COVID-19, including strongly recommending social distancing and that public meetings continue to be held remotely to protect public health.¹
- LAVWMA cannot maintain social distancing requirements for the public, staff, and Directors in its limited meeting space.

LAVWMA staff is concerned about protecting the health and safety of attendees, particularly given that even fully vaccinated people have contracted the Omicron variant, people may have and transmit the virus before knowing they are infected and/or if they are asymptomatic, meetings can last several hours, and LAVWMA meeting facilities are limited in space and jointly used by other agencies, with seats close together and limited air circulation.

For these reasons, if the pandemic continues, the Board will be asked to approve a resolution on every agenda making findings regarding the circumstances of the emergency and vote to continue using the law's exemptions. AB 361 sunsets on January 1, 2024.

¹ See, e.g. Contra Costa County Public Health Officer's "Recommendations for Safely Holding Public Meetings" (revised 6-14-2022) which provides that online meetings are strongly recommended as those meetings present the lowest risk of transmission of SARS-CoV-2, the virus that causes COVID-19. Available online at <https://cchealth.org/covid19/pdf/recommendations-for-safe-public-meetings.pdf>

Agenda Explanation
Livermore-Amador Valley
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Holding meetings remotely does not compromise the level of transparency or engagement that the Brown Act was designed to ensure. Studies have shown that remote meetings maintain and/or enhance the transparency and accessibility of public agency meetings. The Little Hoover Commission has prepared a white paper which recommends that remote meetings be allowed on a permanent basis because of the evidence gathered showing that bringing meetings to the public, rather than the other way around, promotes public participation and engagement.²

Recommendation

Consider Adopting Resolution No. 22-02 Authorizing Continued Remote Teleconference Meetings of the Legislative Bodies of the Livermore-Amador Valley Water Management Agency Pursuant to Brown Act Provisions

Attachments

Resolution No. 22-02 Authorizing Continued Remote Teleconference Meetings of the Legislative Bodies of the Livermore-Amador Valley Water Management Agency Pursuant to Brown Act Provisions.

² Available online at The Government of Tomorrow: Online Meetings <https://lhc.ca.gov/sites/lhc.ca.gov/files/Reports/261/Report261.pdf>

**LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
RESOLUTION NO. 22-02**

**A RESOLUTION OF THE LIVERMORE-AMADOR VALLEY WATER
MANAGEMENT AGENCY AUTHORIZING CONTINUED REMOTE
TELECONFERENCE MEETINGS OF THE LEGISLATIVE BODIES OF THE
LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY PURSUANT
TO BROWN ACT PROVISIONS**

WHEREAS, on March 4, 2020, the Governor of the State of California issued a Proclamation of a State of Emergency due to COVID-19. Such Proclamation remains and is in effect as of the date of this Resolution, as are the facts, circumstances, and emergency under which it was issued; and

WHEREAS, LAVWMA ordinarily holds its regular meetings on the third Wednesday in February, May, August, and November at 6 p.m. at the Pleasanton City Council Chambers, 200 Old Bernal Avenue, Pleasanton, California 94566; and

WHEREAS, the City of Pleasanton officially closed its public facilities as of March 20, 2020 due to the coronavirus pandemic, making the Council Chambers unavailable to the public; and

WHEREAS, on April 3, 2020 the Livermore-Amador Valley Water Management Agency (“Agency”) Board President issued a Declaration altering the regular meeting location to be held via teleconference only pursuant to Executive Order N-29-20. The Board ratified this Declaration at its regular meeting on May 20, 2020; and

WHEREAS, the Health Officers of the County of Alameda and Contra Costa (“Health Officers”) have issued various health orders and updates designed to slow the spread of COVID-19 (including variants thereof) such as vaccinations, quarantines, face covering requirements, and social distancing recommendations designed to protect public health; and

WHEREAS, on September 20, 2021, the Health Officer issued recommendations for safely holding public meetings, including strongly recommending teleconferencing meetings as those meetings present the lowest risk of transmission of SARS-CoV-2, the virus that causes COVID-19, and further recommended social distancing and face masking of all attendees; and

WHEREAS, as of November 10, 2021, 22.5% of Alameda County and 25% of Contra Costa County residents ages 5 and up remain unvaccinated or partially vaccinated. The Health Officers recommend social distancing for those who are not fully vaccinated and further recommend avoiding crowded places, close contact settings, and confined places with poor airflow; and

WHEREAS, COVID-19 continues to spread, the Omicron variant (a highly-infectious COVID-19 strain) is prevalent in the Bay Area. COVID-19 poses imminent health and safety concerns. The risk of exposure to COVID-19 depends on the likelihood of coming into close physical contact with people who may be infected and through contact with contaminated surfaces and objects. The severity of the illness varies. Per the US Centers for Disease Control and Prevention

some of the cases are severe (meaning, they required hospitalization), with an infection that affects both lungs and has the potential to lead to severe medical complications (such as respiratory failure, shock, or multiorgan dysfunction) that can cause death in some people. The number of cases of infections and deaths occurring locally can be determined by viewing the dashboards of the Health Officers; and

WHEREAS, on June 11, 2021, the Governor issued Executive Order N-08-21, which placed an end date of September 30, 2021 on such authority; and

WHEREAS, due the rise in COVID-19 cases, including due to the Delta and Omicron variant, the Agency continues to be deeply concerned about protecting the health and safety of attendees, particularly given that even fully vaccinated people have contracted the Delta variant, people may contract and transmit the virus before knowing they are infected and/or if they are asymptomatic; meetings of the Agency can last several hours, and the Agency's meeting facilities are shared spaces with member agencies, limited in space with seats that are close together, and have restricted air flow; and

WHEREAS, the California State legislature adopted AB 361 as an urgency measure that was signed by the Governor on September 16, 2021. AB 361 amends the Brown Act to allow local governments to use teleconferencing and virtual meeting technology as long as there is a gubernatorial "proclaimed state of emergency" upon the local legislative body finding that State or local officials have imposed or recommended measures to promote social distancing or that meeting in person would present imminent risks to the health or safety of attendees; and

WHEREAS, the Board desires to continue holding public meetings of LAVWMA using teleconferencing and virtual meeting technology in order to avoid the imminent risk to the health and safety of attendees; and

WHEREAS, the Board found that conducting its meetings using virtual meeting technology allowed the equivalent, if not improved, access to the meetings for officials, staff, and the public based on the ease of use and flexibility of technology. This experience has been confirmed by the Little Hoover Commission, which evaluated the effectiveness of remote meetings statewide; and

WHEREAS, the Board held a duly noticed public meeting on September 29, 2021 and considered all pertinent oral and written information, exhibits, testimony, and comments received during the public review process, including, without limitation, information received at the public hearing, the oral report from staff, the written report from staff, draft of Resolution 21-08, and all other information on which each of the Directors has based their decision (collectively, "Remote Meeting Information"); and

WHEREAS, the Board found that a state of emergency remained active due to the coronavirus pandemic, which affects the ability of attendees to meet safely in person and adopted Resolution 21-08; and

WHEREAS, the Board found that a state of emergency continued to exist at its next regular meeting on November 17, 2021 and authorized the continuation of remote meetings by adopting Resolution 21-09; and

WHEREAS, the Board found that a state of emergency continued to exist at its next regular meeting on February 16, 2022 and authorized the continuation of remote meetings by adopting Resolution 22-01; and

WHEREAS, more than 30 days has passed since the adoption of those Resolutions and the Board desires to make the findings necessary to continue to meet remotely in light of the fact that there remains a significant portion of the population that is at high risk of infection having severe consequences, county health officers strongly recommend that public agency meetings be held remotely to avoid unnecessary exposure during the current surge of cases, that even fully vaccinated people may contract, and transmit the virus and it is not possible to socially distance within the Board meeting room.

NOW, THEREFORE, BE IT RESOLVED by the Board of Directors of LAVWMA as follows:

Section 1. Recitals. The Board hereby finds and determines that the foregoing recitals are true and correct; the recitals are hereby incorporated by reference into each of the findings as though fully set forth therein. The recitals and the information below constitute findings in this matter, and together with the Remote Meeting Information, serve as an adequate and appropriate evidentiary basis for the findings and actions set forth herein.

Section 2. AB 361 Findings. The Board, on behalf of itself and its legislative bodies, hereby further finds the following: A state of emergency in California remains active due to the coronavirus pandemic, which continues to directly impact the ability of attendees to meet safely in person. Federal, state, and/or local officials have imposed and/or recommended measures to promote social distancing and use face coverings in indoor settings to help stop the spread of the virus. They have strongly recommended public agencies hold their meetings online because doing so presents the lowest risk of transmission of SARS-CoV-2, the virus that causes COVID-19. COVID-19 continues to pose an imminent risk to the health and safety of attendees to meet in person because it can be contracted and transmitted by people without symptoms and regardless of vaccination status and has the potential to lead to severe disease and death.

Section 4. Remote Meetings. Meetings of LAVWMA and its legislative bodies will continue to be conducted remotely using teleconferencing for the next 30 days in compliance with AB 361.

Section 5. CEQA. This action does not constitute a “project” within the meaning of Public Resources Code Section 21065, 14 Cal Code Reg. Section 15060(c)(2), 15060(c)(3), and/or 15378 because it has no potential for resulting in either a direct physical change in the environment, or a reasonably foreseeable indirect physical change in the environment. In addition, this action is categorically exempt pursuant to Section 15061(b)(3), “Review for Exemptions” of the CEQA Guidelines because there is no possibility that it may have a

significant effect on the environment, and no further environmental review is required. No unusual circumstances exist and none of the exceptions under CEQA Guidelines Section 15300.2 apply. This determination reflects the Board's independent judgment and analysis.

DULY AND REGULARLY ADOPTED by the LAVWMA's Board of Directors this 26th day of June, 2022 by the following vote:

AYES: Directors

NOES:

ABSENT:

Ann Marie Johnson, Chair

ATTEST: _____
Charles V. Weir, General Manager

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Agenda Explanation
 Livermore-Amador Valley
 Water Management Agency
 Board of Directors
 June 29, 2022

ITEM NO. 9 APPROVAL OF A RESOLUTION CHANGING THE OFFICIAL REGULAR MEETING LOCATION

Action Requested

Approve Resolution No. 22-03, Resolution Changing the Official Regular Meeting Location.

Summary

Per Resolution No. 17-03, LAVWMA used to hold its Board of Directors meetings at the Dublin San Ramon Services District (DSRSD) Boardroom located at 7051 Dublin Boulevard in Dublin on the third Wednesday in February, May, August, and November at 6 p.m. The DSRSD Office became unavailable to host Board meetings due to the discovery, on November 11, 2018, of a fire service line leaking and causing flooding, water damage, and an inoperable fire suppression system rendering the facility unsafe for holding public meetings. Resolution No. 19-01 established a new regular Board meeting location at the City of Pleasanton Council Chambers, and reaffirmed the same meeting dates and starting time of 6 p.m. It should also be noted that the staff report at that time stated the following:

A resolution will be presented to the Board at a future meeting to reestablish the DSRSD Boardroom as LAVWMA's regular meeting location when repairs are completed, and staff and the Board are cleared to move back to the facility.

The Board continued to meet at the City of Pleasanton until May 2020 when COVID-19 made holding public meetings in person unsafe. As a consequence the Board has been meeting via Zoom since then as is allowed under AB 361. Depending on the case rates and other circumstances, public agencies can safely hold public meetings in person so the Board should consider moving back to DSRSD. Note, however, that approving this change in official meeting location would not preclude the Board from having remote meetings or hybrid meetings, to protect high risk individuals and/or in the event that COVID transmission remains high.

During the pandemic, LAVWMA's Administrative Assistant, Sue Montague, retired and the position has been open since that time. This has been reported several times in the General Manager's reports to the Board. Ms. Montague also provided services to DERWA. DERWA did have someone providing administrative services, but that situation has also changed. DSRSD has approved a new administrative position to provide services to DERWA, LAVWMA, and DSRSD. The new person will be starting in the new fiscal year.

Having a new administrative assistant at DSRSD will make it more convenient to hold Board meetings at DSRSD. As a consequence, staff is recommending that the Board approve Resolution No 22-03, Resolution Changing the Official Meeting Location. The dates and times of LAVWMA meetings will not change.

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Agenda Explanation
Livermore-Amador Valley
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Many agencies, including DSRSD are holding public Board meetings, but are also allowing the public to attend either in person or via teleconference. This is consistent with the County Health Officer's recommendation to offer the public opportunities to participate remotely. The concept of a hybrid meeting may also allow Board members to attend remotely if they at higher risk of COVID-19 or their schedules do not allow attendance in person. General Counsel can provide direction on how to post the meeting information to comply with the Brown Act.

Recommendation

Approve Resolution No. 22-03, Resolution Changing the Official Regular Meeting Location.

Attachments

Resolution No. 22-03, Resolution Changing the Official Regular Meeting Location.

Livermore-Amador Valley Water Management Agency

RESOLUTION NO. 22-03

A RESOLUTION OF THE LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY CHANGING THE OFFICIAL REGULAR MEETING LOCATION

WHEREAS, the Livermore-Amador Valley Water Management Agency (“LAVWMA”) is a joint powers agency comprised of the cities of Livermore and Pleasanton and the Dublin San Ramon Services District (DSRSD);

WHEREAS, LAVWMA requires regular meetings to conduct its business;

WHEREAS, the Joint Exercise of Powers Agreement requires the Board establish the frequency, date, hour, and location of Regular Meetings;

WHEREAS, LAVWMA currently holds its regular meetings on the third Wednesday in February, May, August, and November at 6 p.m. at the Pleasanton City Council Chambers, 200 Old Bernal Avenue, Pleasanton, California 94566;

WHEREAS, LAVWMA desires to change the location of regular meetings of the Board of Directors now that the DSRSD offices have been renovated following a flood in November 2018;

NOW, THEREFORE, BE IT RESOLVED by the Livermore-Amador Valley Water Management Agency that Regular Board meetings shall be at 6:00 p.m. on the third Wednesday of February, May, August, and November of each calendar year and shall be held at the Dublin San Ramon Services District Board Room, 7501 Dublin Boulevard, Dublin, California 94568.

BE IT FURTHER RESOLVED that this Resolution shall supersede all prior resolutions establishing Regular Board meeting locations and render null and void the provisions of any other prior resolutions which are inconsistent.

DULY AND REGULARLY ADOPTED by LAVWMA’s Board of Directors this 26th day of June 2022 by the following vote:

AYES:

NOES:

ABSENT:

Ann Marie Johnson, Chair

ATTEST: _____
Charles V. Weir, General Manager

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Agenda Explanation
Livermore-Amador Valley
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Board of Directors
June 29, 2022

ITEM NO. 10 FINANCIAL REPORTING FOR THE FISCAL YEAR ENDING JUNE 30, 2021

Action Requested

None at this time. This is an information item only.

To: LAVWMA Board of Directors

From: Carol Atwood, LAVWMA Treasurer

Subject: Financial Reporting for FYE 2022

Summary

Attached are the financial statements for the period July 1, 2021 through March 31, 2022.

Attachments

Schedule of Sub Fund Account Balance Sheets – Shows the assets and liabilities of LAVWMA in each of its funds.

Schedule of Sub Fund Account Activity – Shows the income and expense transactions for LAVWMA in each fund. Most of LAVWMA's activity will be in the Operations & Maintenance fund.

O&M Fund Budget vs. Actual – Shows the status of the budget to actual expenses for the O&M Fund for the period July 1, 2021 through March 31, 2022 and the period July 1, 2020 through March 31, 2022.

Treasurer's Report – A report showing how LAVWMA's available cash is invested.

General Management Expenses Listing – All general LAVWMA invoices are approved by the LAVWMA GM and Treasurer prior to payment by DSRSD. Those invoices are summarized and are billed to LAVWMA on a monthly basis via the DSRSD bill to LAVWMA. This listing is supplemental information requested by the LAVWMA General Manager to show the vendor, description, and amount of each invoice in more detail.

Recommendation

None at this time. This is an information item only.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT BALANCE SHEETS
July 2021 through March 2022

	Operation & Maintenance	EBDA Capacity	2021 Debt Service	Repair and Replacement Reserve			Total
				Joint-use Replacement	Dual-use Replacement	Sole-use Replacement	
ASSETS							
Cash and equivalents	\$ 1,007,797	\$ -	\$ 26,844	\$ (516,559)	\$ 12,057	\$ 8,925	\$ 539,063
Investments	493,410	-	30,509	14,759,910	432,789	1,619,156	17,335,774
Investments (LAIF FMV Adj)	3,391	-	12,470	(12,346)	(433)	(1,563)	1,518
Due from members	390,348	-	-	-	-	-	390,348
Advances to members	-	-	-	-	-	-	-
Capital Assets, net of accumulated depreciation	-	2,727,275	-	98,366,761	45,360	3,322,450	104,461,846
Bond Issuance Cost	-	-	428,361	-	-	-	428,361
Total assets	1,894,946	2,727,275	498,184	112,597,766	489,772	4,948,968	123,156,911
LIABILITIES							
Accounts payable	203,975	-	-	221,397	-	-	425,373
Due To Members	2,825	-	-	-	-	-	2,825
Interest payable	-	-	949,693	-	-	-	949,693
Bond issuance premium, net of amortization	-	-	10,490,675	-	-	-	10,490,675
Due in more than one year	-	-	54,790,000	-	-	-	54,790,000
Total liabilities	206,801	-	66,230,368	221,397	-	-	66,658,566
NET ASSETS							
Invested in capital assets, net of related debt	-	2,727,275	(65,280,675)	98,366,761	45,360	3,322,450	39,181,171
Unrestricted net assets	1,688,146	-	(451,510)	14,009,607	444,413	1,626,518	17,317,174
Total net assets	\$ 1,688,146	\$ 2,727,275	\$ (65,732,185)	\$ 112,376,368	\$ 489,773	\$4,948,968	\$56,498,345

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
SCHEDULE OF SUB FUND ACCOUNT ACTIVITY
July 2021 through March 2022

	Operation & Maintenance	EBDA Capacity	2021 Debt Service	Repair and Replacement Reserve			Total
				Joint-use Replacement	Dual-use Replacement	Sole-use Replacement	
OPERATING REVENUES							
Service charges - DSRSD	\$ 1,110,917 (1)	\$ -	\$ 2,909,985	\$ 139,800	\$ -	\$ -	\$ 4,160,702
Service charges - City of Pleasanton	1,517,331 (1)	-	2,489,425	139,800	-	-	4,146,556
Service charges - City of Livermore	1,369,754 (1)	-	2,082,021	120,400	-	-	3,572,175
Total operating revenues	3,998,002	-	7,481,431	400,000	-	-	11,879,433
OPERATING EXPENSES							
Power	1,058,577	-	-	-	-	-	1,058,577
LAVWMA share of EBDA O&M - Fixed	732,771	-	-	-	-	-	732,771 (2)
LAVWMA share of EBDA O&M - Variable	116,432	-	-	-	-	-	116,432 (2)
Operations agreement	566,192	-	-	-	-	-	566,192
Professional services	181,655	-	-	-	-	-	181,655 (2)
Livermore sole use O&M	15,310	-	-	-	-	-	15,310
Insurance	100,888	-	-	-	-	-	100,888 (2)
Repairs and Maintenance	34,574	-	-	-	-	-	34,574 (2)
Miscellaneous	297	-	9	2,632	75	276	3,290
Total operating expenses	2,806,694	-	9	2,632	75	276	2,809,687
Capital outlay	-	-	-	2,432,604	-	-	2,432,604
Total operating expenses and capital outlay	2,806,694	-	9	2,435,236	75	276	5,242,291
Operating income (loss)	1,191,308	-	7,481,421	(2,035,236)	(75)	(276)	6,637,142
NON-OPERATING REVENUES (EXPENSES)							
Bond interest expense	-	-	1,661,719	-	-	-	1,661,719
Interest income	2,126	-	69	18,637	538	1,967	23,336
Total non-operating revenues (expenses)	2,126	-	1,661,788	18,637	538	1,967	1,685,056
Changes in net assets	1,193,434	0	9,143,210	(2,016,599)	462	1,691	8,322,198
NET ASSETS							
Net assets, beginning of period	494,712	2,727,275	(74,875,395)	114,392,967	489,311	4,947,277	48,176,148
Prior Period adjustment							
Net assets, beginning of period restated	494,712	2,727,275	(74,875,395)	114,392,967	489,311	4,947,277	48,176,148
Net asset transfers							
Net assets, end of period	\$ 1,688,146	\$ 2,727,275	\$ (65,732,185)	\$ 112,376,368	\$ 489,773	\$ 4,948,968	\$ 56,498,346

(1) Included FYE21 O&M reconciliation true-up.

(2) Total of the noted expenses is \$1,166,318. Details see General Management Expenses Listing.

LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY
Operations and Maintenance - Budget vs Actual
July - March, 2021 & July - March, 2022

	FYE 2021 Budget	FYE 2021 Actual	Variance	FYE 2022 Budget	FYE 2022 Actual	Variance
OPERATING REVENUES						
Service charges - DSRSD	\$ 1,022,075	\$ 945,680	\$ (76,394)	\$ 1,113,743	\$ 1,110,917 (1)	\$ (2,824)
Service charges - City of Pleasanton	1,230,725	1,407,892	177,167	1,323,867	1,517,331 (1)	193,465
Service charges - City of Livermore	1,092,599	1,209,140	116,540	1,172,870	1,369,754 (1)	196,883
Total operating revenues	3,345,400	3,562,712	217,313	3,610,480	3,998,002	387,524
OPERATING EXPENSES						
Power	1,250,000	989,869	(260,131)	1,250,000	1,058,577	(191,423)
LAVWMA share of EBDA O&M - Fixed	523,000	493,345	(29,655)	689,052	732,771 (2)	43,719
LAVWMA share of EBDA O&M - Variable	141,000	102,869	(38,131)	150,828	116,432 (2)	(34,396)
Operations agreement	938,000	829,704	(108,296)	1,011,500	566,192	(445,308)
Professional services	405,500	283,060	(122,440)	380,100	181,655 (2)	(198,445)
Livermore sole use O&M	25,000	28,394	3,394	25,000	15,310	(9,690)
Insurance	55,508	76,396	20,888	84,000	100,888 (2)	16,888
Permits	7,392	-	(7,392)	20,000	-	(20,000)
Repairs and Maintenance	-	45,949	45,949	-	34,574 (2)	34,574
Miscellaneous	-	324	324	-	297	297
Total operating expenses	3,345,400	2,849,909	(495,491)	3,610,480	2,806,694	(803,786)
Capital outlay	-	-	-	-	-	-
Total operating expenses and capital outlay	3,345,400	2,849,909	(495,491)	3,610,480	2,806,694	(803,786)
Operating income (loss)	-	712,803	712,804	-	1,191,308	1,191,310
NON-OPERATING REVENUES (EXPENSES)						
Interest income	-	5,764	5,764	-	2,126	2,126
Total non-operating revenues (expenses)	-	5,764	5,764	-	2,126	2,126
Net Income	\$ -	\$ 718,566	\$ 718,568	\$ -	\$ 1,193,434	\$ 1,193,436

(1) Included FYE21 O&M reconciliation true-up.

(2) Total of the noted expenses is \$1,166,318. Details see General Management Expenses Listing.

Investments	Par Value	Market Value	Book Value	% of Portfolio	Avg. Term	Avg. Days to Maturity	YTM
LAIF- Operating	\$ 17,335,774	\$ 17,335,774	\$ 17,335,774	100.00	1	1	0.23%
	\$ 17,335,774	\$ 17,335,774	\$ 17,335,774	100.00	1	1	0.23%

Average Daily Balance	\$ 17,335,774
Effective Rate of Return	0.23%

I certify that this report reflects all Government Agency pooled investments and is in conformity with the investment policy of Livermore-Amador Valley Water Management Agency.

The investment program herein shown provides sufficient cash flow liquidity to meet the next six month's expenses.

Carol Atwood, Treasurer

Date _____

Livermore-Amador Valley Water Management Agency
General Management Expenses Listing
July - March, 2022

Item No. 10

Invoice Date	Vendor Name	Invoice#	Description	Check#	Date Paid	Total Amount
6/3/2021	SDRMA	70396	MEMBER #7119 PROPERTY/LIABILITY PROGRAM 2021-22	108198	7/22/2021	\$80,887.50
7/1/2021	EAST BAY DISCHARGERS AUTHORITY	3259	O&M ASSESSMENT - JULY 1, 2021 - 1ST QTR	108362	8/12/2021	\$465,342.96
7/31/2021	JARVIS, FAY & GIBSON, LLP	15520	GENERAL COUNSEL SVCS - JULY 2020	108479	8/26/2021	\$6,681.50
8/2/2021	WEIR TECHNICAL SERVICES	LAVWMA_07-21	MANAGEMENT SERVICES - JULY 2021	108569	8/26/2021	\$13,575.75
8/18/2021	ARKIN, VALERIE	072121 meeting	REGULAR BOARD MTG ATTENDANCE - 07/21/21	108375	8/19/2021	\$50.00
8/18/2021	BONANNO, GINA	072121 meeting	REGULAR BOARD MTG ATTENDANCE - 07/21/21	108378	8/19/2021	\$50.00
8/18/2021	TESTA, JULIE	072121 meeting	REGULAR BOARD MTG ATTENDANCE - 07/21/21	108403	8/19/2021	\$50.00
8/31/2021	JARVIS, FAY & GIBSON, LLP	15620	GENERAL COUNSEL SVCS - AUGUST 2021	108839	9/30/2021	\$11,671.00
8/31/2021	MAZE & ASSOCIATES	42335	LAVWMA AUDIT SVCS - JUNE 2021 (WORK IN AUGUST 2021)	108778	9/22/2021	\$4,495.00
9/1/2021	WEIR TECHNICAL SERVICES	LAVWMA_08-21	MANAGEMENT SERVICES - AUGUST 2021	108752	9/22/2021	\$15,976.89
9/13/2021	CARLING, ROBERT	090821 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/08/21	108701	9/16/2021	\$50.00
9/13/2021	CARLING, ROBERT	081821 meeting	REGULAR BOARD MTG ATTENDANCE - 08/18/21	108701	9/16/2021	\$50.00
9/13/2021	TESTA, JULIE	090821 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/08/21	108729	9/16/2021	\$50.00
9/13/2021	TESTA, JULIE	081821 meeting	REGULAR BOARD MTG ATTENDANCE - 08/18/21	108729	9/16/2021	\$50.00
9/13/2021	ARKIN, VALERIE	090821 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/08/21	108693	9/16/2021	\$50.00
9/13/2021	ARKIN, VALERIE	081821 meeting	REGULAR BOARD MTG ATTENDANCE - 08/18/21	108693	9/16/2021	\$50.00
9/13/2021	BONANNO, GINA	090821 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/08/21	108698	9/16/2021	\$50.00
9/13/2021	BONANNO, GINA	081821 meeting	REGULAR BOARD MTG ATTENDANCE - 08/18/21	108698	9/16/2021	\$50.00
9/30/2021	JARVIS, FAY & GIBSON, LLP	15727	GENERAL COUNSEL SVCS - SEPTEMBER 2021	108992	10/21/2021	\$9,101.00
10/5/2021	WEIR TECHNICAL SERVICES	LAVWMA_09-21	MANAGEMENT SERVICES - SEPT. 2021	109055	10/28/2021	\$12,070.10
10/11/2021	BONANNO, GINA	092921 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/29/2021	108935	10/14/2021	\$50.00
10/11/2021	CARLING, ROBERT	092921 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/29/2021	108936	10/14/2021	\$50.00
10/11/2021	ARKIN, VALERIE	092921 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/29/2021	108932	10/14/2021	\$50.00
10/11/2021	TESTA, JULIE	092921 meeting	SPECIAL BOARD MTG ATTENDANCE - 09/29/2021	108957	10/14/2021	\$50.00
10/19/2021	EAST BAY DISCHARGERS AUTHORITY	3286	O&M ASSESSMENT - FINAL FY 2020/21	109873	1/27/2022	(\$46,910.21)
10/31/2021	JARVIS, FAY & GIBSON, LLP	15844	GENERAL COUNSEL SVCS - OCTOBER 2021	109282	11/18/2021	\$7,272.00
10/31/2021	MAZE & ASSOCIATES	42995	LAVWMA AUDIT SVCS - JUNE 2021 (WORK IN OCTOBER 2021)	109284	11/18/2021	\$899.00
11/2/2021	WEIR TECHNICAL SERVICES	LAVWMA_10-21	MANAGEMENT SERVICES - OCT. 2021	109244	11/18/2021	\$6,944.49
11/30/2021	JARVIS, FAY & GIBSON, LLP	15952	GENERAL COUNSEL SVCS - NOVEMBER 2021	109653	12/30/2021	\$18,351.00
12/3/2021	WEIR TECHNICAL SERVICES	LAVWMA_11-21	MANAGEMENT SERVICES - NOV. 2021	109622	12/16/2021	\$11,178.91
12/31/2021	JARVIS, FAY & GIBSON, LLP	16062	GENERAL COUNSEL SVCS - DECEMBER 2021	109829	1/20/2022	\$372.00
1/1/2022	EAST BAY DISCHARGERS AUTHORITY	3292	O&M ASSESSMENT - 2021/2022 SEMI-ANNUAL INVOICE	109873	1/27/2022	\$465,342.96
1/5/2022	SWRCB - ATTN: ACCT OFFICE	WD-0196567	LAVWMA - FY 22 PERMIT (FAC ID 2 019129001)	109915	1/27/2022	\$20,000.00
1/12/2022	MAZE & ASSOCIATES	43488	LAVWMA AUDIT SVCS - JUNE 2021 (WORK IN JANUARY 2022)	109951	2/3/2022	\$1,045.00
1/14/2022	WEIR TECHNICAL SERVICES	LAVWMA_12-21	MANAGEMENT SERVICES - DEC. 2021	109974	2/3/2022	\$4,737.69
1/31/2022	JARVIS, FAY & GIBSON, LLP	16172	GENERAL COUNSEL SVCS - JANUARY 2022	110127	2/24/2022	\$3,342.00
2/1/2022	WEIR TECHNICAL SERVICES	LAVWMA_01-22	MANAGEMENT SERVICES - JAN. 2022	110166	2/24/2022	\$8,999.58
2/28/2022	JARVIS, FAY & GIBSON, LLP	16275	GENERAL COUNSEL SVCS - FEBRUARY 2022	110430	3/24/2022	\$5,196.00
3/4/2022	WEIR TECHNICAL SERVICES	LAVWMA_02-22	MANAGEMENT SERVICES - FEB. 2022	110495	3/31/2022	\$11,147.92
						<u>\$1,138,470.04</u>

Expenses from journal entry and payroll:
Postage
DSRSD Board Members
Admin Support
Accounting

\$0.00
\$400.00
\$1,949.54
\$25,498.57
\$27,848.11

TOTAL: \$1,166,318.15

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Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
June 29, 2022

ITEM NO. 11 APPROVAL OF ENGAGEMENT LETTER WITH MAZE & ASSOCIATES TO PROVIDE FINANCIAL AUDIT SERVICES FOR THE FISCAL YEAR ENDING JUNE 30, 2022

Action Requested

Authorize the General Manager to sign the Engagement Letter with Maze & Associates to Provide Financial Audit Services for the Fiscal Year Ending June 30, 2022.

Summary

For many years DSRSD has provided financial services to LAVWMA, which includes providing a Treasurer. Historically, the firm that conducts DSRSD's annual financial audit has also conducted the LAVWMA financial audit. This ensures consistency and efficiency since the same DSRSD staff is responsible for the financials of both agencies. Maze & Associates has been providing financial audit services for both agencies for the last five years.

Earlier this year, DSRSD approved a one-year extension to the contract with Maze & Associates for FYE 2022. Once completed, DSRSD will be issuing a request for proposal (RFP) for audit services over the next five years. To keep continuity, the attached Engagement Letter from Maze & Associates outlines the services and costs for them to conduct the financial audit for the Fiscal Year ending June 30, 2022. Staff has reviewed the letter and recommends that the Board authorize the General Manager to sign the Engagement Letter. The fee for Maze's services is \$10,256.

Recommendation

Authorize the General Manager to sign the Engagement Letter with Maze & Associates to Provide Financial Audit Services for the Fiscal Year Ending June 30, 2022.

Attachment

Engagement Letter with Maze & Associates to Provide Financial Audit Services for the Fiscal Year Ending June 30, 2022.



May 18, 2022

Livermore Amador Valley Waste Management Agency
 Attn: Carol Atwood
 7051 Dublin Boulevard
 Dublin, CA 94568

Dear Carol:

We are pleased to confirm our understanding of the services we are to provide for the Livermore Amador Valley Waste Management Agency for the year ended June 30, 2022.

Audit Scope and Objectives

The services we have been engaged to provide are outlined below, but we are also available to provide additional services at your request:

- 1) Audit of the Basic Financial Statements, and preparation of our Memorandum on Internal Control.
- 2) Preparation of the Agency's Annual Report of Financial Transactions (Controller's Report) and issuance of a compilation report. (See Compilation Attachment for Our Responsibilities and Your Responsibilities related to the compilation report)

Accounting standards generally accepted in the United States of America (GAAP) provide for certain required supplementary information (RSI), such as management's discussion and analysis, to supplement the Agency's basic financial statements. Such information, although not a part of the basic financial statements, is required by the Governmental Accounting Standards Board who considers it to be an essential part of financial reporting for placing the basic financial statements in an appropriate operational, economic, or historical context. As part of our engagement, we will apply certain limited procedures to the Agency's RSI in accordance with auditing standards generally accepted in the United States of America (GAAS). These limited procedures will consist of inquiries of management regarding the methods of preparing the information and comparing the information for consistency with management's responses to our inquiries, the basic financial statements, and other knowledge we obtained during our audit of the basic financial statements. We will not express an opinion or provide any assurance on the information because the limited procedures do not provide us with sufficient evidence to express an opinion or provide any assurance.

If the Agency's financial statements are accompanied by supplementary information other than RSI, we will subject the supplementary information to the auditing procedures applied in our audit of the financial statements and certain additional procedures, including comparing and reconciling such information directly to the underlying accounting and other records used to prepare the financial statements or to the financial statements themselves, and other additional procedures in accordance with GAAS, and we will provide an opinion on it in relation to the financial statements as a whole, in a report combined with our auditor's report on the financial statements.

In connection with our audit of the basic financial statements, we will read the other information accompanying the financial statements and consider whether a material inconsistency exists between the other information and the basic financial statements, or the other information otherwise appears to be materially misstated. If, based on the work performed, we conclude that an uncorrected material misstatement of the other information exists, we are required to describe it in our report.

The objectives of our audit are to obtain reasonable assurance as to whether the financial statements as a whole are free from material misstatement, whether due to fraud or error; issue an auditor's report that includes our opinion about whether your financial statements are fairly presented, in all material respects, in conformity with generally accepted accounting principles (GAAP); and report on the fairness of the accompanying supplementary information when considered in relation to the financial statements as a whole. Reasonable assurance is a high level of assurance, but is not absolute assurance and therefore is not a guarantee that an audit conducted in accordance with GAAS will always detect a material misstatement when it exists. Misstatements, including omissions, can arise from fraud or error and are considered material if there is a substantial likelihood that, individually or in the aggregate, they would influence the judgment of a reasonable user made based on the financial statements.

Auditor's Responsibilities for the Audit of the Financial Statements

We will conduct our audit in accordance with GAAS and will include tests of the accounting records and other procedures we consider necessary to enable us to express such opinions. As part of an audit in accordance with GAAS, we exercise professional judgment and maintain professional skepticism throughout an audit.

We will evaluate the appropriateness of accounting policies used and the reasonableness of significant accounting estimates made by management. We will also evaluate the overall presentation of the financial statements, including the disclosures, and determine whether the financial statements represent the underlying transactions and events in a manner that achieves fair presentation. We will plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement, whether from (1) errors, (2) fraudulent financial reporting, (3) misappropriation of assets, or (4) violations of laws or governmental regulations that are attributable to the Agency or to acts by management or employees acting on behalf of the Agency.

Because of the inherent limitations of an audit, combined with the inherent limitations of internal control, and because we will not perform a detailed examination of all transactions, there is an unavoidable risk that some material misstatements may not be detected by us, even though the audit is properly planned and performed in accordance with GAAS. In addition, an audit is not designed to detect immaterial misstatements or violations of laws or governmental regulations that do not have a direct and material effect on the financial statements. However, we will inform the appropriate level of management of any material errors, fraudulent financial reporting, or misappropriation of assets that comes to our attention. We will also inform the appropriate level of management of any violations of laws or governmental regulations that come to our attention, unless clearly inconsequential. Our responsibility as auditors is limited to the period covered by our audit and does not extend to any later periods for which we are not engaged as auditors.

We will also conclude, based on the audit evidence obtained, whether there are conditions or events, considered in the aggregate, that raise substantial doubt about the government's ability to continue as a going concern for a reasonable period of time.

Our procedures will include tests of documentary evidence supporting the transactions recorded in the accounts, and may include tests of physical existence of inventories, and direct confirmation of cash, investments and certain other assets and liabilities by correspondence with selected customers, creditors and financial institutions. We will also request written representations from your attorneys as part of the engagement, and they may bill the Agency for responding to this inquiry.

We may from time to time, and depending on the circumstances, use third-party service providers in serving your account. We may share confidential information about you with these service providers, but remain committed to maintaining the confidentiality and security of your information. Accordingly, we maintain internal policies, procedures, and safeguards to protect the confidentiality of your personal information. In addition, we will secure confidentiality agreements with all service providers to maintain the confidentiality of your information and we will take reasonable precautions to determine that they have appropriate procedures in place to prevent the unauthorized release of your confidential information to others. In the event that we are unable to secure an appropriate confidentiality agreement, you will be asked to provide your consent prior to the sharing of your confidential information with the third-party service provider. Furthermore, we will remain responsible for the work provided by any such third-party service providers.

Audit Procedures - Internal Control

We will obtain an understanding of the Agency and its environment, including internal control relevant to the audit, sufficient to identify and assess the risks of material misstatement of the financial statements, whether due to error or fraud, and to design and perform audit procedures responsive to those risks and obtain evidence that is sufficient and appropriate to provide a basis for our opinions. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentation, or the override of internal control. An audit is not designed to provide assurance on internal control or to identify deficiencies in internal control. Accordingly, we will express no such opinion. However, during the audit, we will communicate to management and the Board internal control related matters that are required to be communicated under AICPA professional standards.

Audit Procedures - Compliance

As part of obtaining reasonable assurance about whether the financial statements are free of material misstatement, we will perform tests of the Agency's compliance with provisions of applicable laws, regulations, contracts, and agreements. However, the objective of our audit will not be to provide an opinion on overall compliance, and we will not express such an opinion.

Other Services

We will also assist in preparing the financial statements and related notes in conformity with GAAP based on information provided by you.

We will perform the services in accordance with applicable professional standards. The other services are limited to the financial statement services previously defined. We, in our sole professional judgment, reserve the right to refuse to perform any procedures or take any action that could be construed as assuming management responsibilities.

Responsibilities of Management for the Financial Statements

Our audit will be conducted on the basis that you acknowledge and understand your responsibility for designing, implementing, and maintaining internal controls relevant to the preparation and fair presentation of financial statements that are free from material misstatement, whether due to fraud or error, including monitoring ongoing activities; for the selection and application of accounting principles; and for the preparation and fair presentation of the financial statements in conformity with GAAP.

Management is responsible for making drafts of financial statements, all financial records and related information available to us and for the accuracy and completeness of that information (including information from outside of the general and subsidiary ledgers). We understand that the Agency will provide us with the Closing Checklist information required for our audit and that the Agency is responsible for the accuracy and completeness of that information. Management is also responsible for providing us with (1) access to all information of which you are aware that is relevant to the preparation and fair presentation of the financial statements, such as records, documentation, identification of all related parties and all related-party relationships and transactions, and other matters, (2) additional information that we may request for the purpose of the audit; and (3) unrestricted access to persons within the government from whom we determine it necessary to obtain audit evidence. At the conclusion of our audit, we will require certain written representations from management about the financial statements and related matters.

Management's responsibilities include adjusting the financial statements to correct material misstatements and confirming to us in the management representation letter that the effects of any uncorrected misstatements aggregated by us during the current engagement and pertaining to the latest period presented are immaterial, both individually and in the aggregate, to the financial statements of each opinion unit taken as a whole.

Management is responsible for the design and implementation of programs and controls to prevent and detect fraud, and for informing us about all known or suspected fraud affecting the Agency involving (1) management, (2) employees who have significant roles in internal control, and (3) others where the fraud could have a material effect on the financial statements. Management's responsibilities include informing us of its knowledge of any allegations of fraud or suspected fraud affecting the Agency received in communications from employees, former employees, regulators, or others. In addition, management is responsible for identifying and ensuring that the Agency complies with applicable laws and regulations.

With regard to including the auditor's report in an exempt offering document, you agree that the aforementioned auditor's report, or reference to Maze & Associates, will not be included in any such offering document without our prior permission or consent. Any agreement to perform work in connection with an exempt offering document, including an agreement to provide permission or consent will be a separate engagement. With regard to an exempt offering document with which Maze & Associates is not involved, you agree to clearly indicate in the exempt offering document that Maze & Associates is not involved with the contents of such offering document.

Management is responsible for the preparation of the supplementary information in conformity with GAAP. Management agrees to include our report on the supplementary information in any document that contains and indicates that we have reported on the supplementary information. Management also agrees to include the audited financial statements with any presentation of the supplementary information that includes our report thereon. Management's responsibilities include acknowledging to us in the representation letter that: (1) management is responsible for presentation of supplementary information in accordance with GAAP; (2) that management believes the supplementary information, including its form and content, is fairly presented in accordance with GAAP; (3) that the methods of measurement or presentation have not changed from those used in the prior period (or, if they have changed, the reasons for such changes); and (4) management has disclosed to us any significant assumptions or interpretations underlying the measurement or presentation of the supplementary information.

With regard to the electronic dissemination of audited financial statements, including financial statements published electronically on your website, you understand that electronic sites are a means to distribute information and, therefore, we are not required to read the information contained in these sites or to consider the consistency of other information in the electronic site with the original document.

Management agrees to assume all management responsibilities for financial statement preparation services and any other nonattest services we provide; oversee the services by designating an individual, preferably from senior management with suitable skill, knowledge, or experience; evaluate the adequacy and results of the services; and accept responsibility for them.

In connection with this engagement, we may communicate with you or others via email transmission. As emails can be intercepted and read, disclosed, or otherwise communicated by an unintended third party, or may not be delivered to each of the parties to whom they are directed and only to such parties, we cannot guarantee or warrant that emails from us will be properly delivered and read only by the addressee. Therefore, we specifically disclaim and waive any liability or responsibility whatsoever for interception or unintentional disclosure of emails transmitted by us in connection with the performance of this engagement. In that regard, you agree that we shall have no liability for any loss or damage to any person or entity resulting from the use of email transmissions, including any consequential, incidental, direct, indirect or special damages, such as loss of revenues or anticipated profits, or disclosure or communication of confidential or proprietary information.

Engagement Administration, Fees, and Other

The audit documentation for this engagement is our property and constitutes confidential information. However, subject to applicable laws and regulations, audit documentation and appropriate individuals will be made available upon request and in a timely manner to a federal agency providing direct or indirect funding, or the U.S. Government Accountability Office for purposes of a quality review of the audit, to resolve audit findings, or to carry out oversight responsibilities. We will notify you of any such request. If requested, access to such audit documentation will be provided under the supervision of Maze & Associates personnel. Furthermore, upon request, we may provide copies of selected audit documentation to the aforementioned parties. These parties may intend, or decide, to distribute the copies or information contained therein to others, including other governmental agencies. We will retain audit documentation for this engagement for seven years after the report release date pursuant to state regulations.

We expect to begin our audit in April 2022 and to issue our reports no later than December 31, 2022. David Alvey is the engagement partner and is responsible for supervising the engagement and signing the report or authorizing another individual to sign it.

To ensure that Maze & Associates' independence is not impaired under the AICPA *Code of Professional Conduct*, you agree to inform the engagement partner before entering into any substantive employment discussions with any of our personnel.

Our fees for these services are billed based on our contract with the Agency. Our standard hourly rates vary according to the degree of responsibility involved and the experience level of the personnel assigned to your audit. Our invoices for these fees will be rendered each month as work progresses and are payable on presentation. In accordance with our firm policies, work may be suspended if the Agency's account becomes thirty days or more overdue and may not be resumed until the Agency's account is paid in full. If we elect to terminate our services for nonpayment, our engagement will be deemed to have been completed upon written notification of termination, even if we have not completed our report(s). You will be obligated to compensate us for all time expended and to reimburse us for all out-of-pocket costs through the date of termination.

These fees are based on anticipated cooperation from Agency personnel, the completion of schedules and data requested on our Checklists by Agency personnel, preparation of audit confirmations we request by Agency personnel, location of any documents selected by us for testing, and the assumption that there will be no unexpected increases in work scope, such as new debt issues, etc., or delays which are beyond our control, as discussed on the Fees Attachment to this letter. If significant additional time is necessary, we will discuss it with Agency management and arrive at a new fee before we incur any additional costs.

We understand you will provide us with basic workspace sufficient to accommodate the audit team assigned to your audit. We understand the basic workspace will be equipped with a telephone and direct Internet access, preferably a temporary network outside of your network, a public IP address and a wired connection. We understand you will also provide us with access to a fax machine and read only access to your general ledger system.

You may request that we perform additional services not addressed in this engagement letter. If this occurs, we will communicate with you regarding the scope of the additional services and the estimated fees. We also may issue a separate engagement letter covering the additional services. In the absence of any other written communication from us documenting such additional services, our services will continue to be governed by the terms of this engagement letter.

Our most recent peer review report accompanies this letter.

Reporting

We will issue a written report upon completion of our audit of the Agency's financial statements, which, if the financial statements include information other than RSI and supplemental information, will also address other information in accordance with AU-C 720, *The Auditor's Responsibilities Relating to Other Information Included in Annual Reports*. Our reports will be addressed to the Agency's Board of Directors. Circumstances may arise in which our report may differ from its expected form and content based on the results of our audit. Depending on the nature of these circumstances, it may be necessary for us to modify our opinions, add a separate section, or add an emphasis-of-matter or other-matter paragraph to our auditor's report, or if necessary, withdraw from this engagement. If our opinions are other than unmodified, we will discuss the reasons with Agency management in advance. If, for any reason, we are unable to complete the audit or are unable to form or have not formed opinions, we may decline to express opinions or may withdraw from this engagement.

You have engaged us to include in our report a section that discusses key audit matters, if any, identified during our audit. Key audit matters are matters that are communicated or required to be communicated to those charged with governance that were, in the auditor's professional judgment of most significance to the audit of the financial statements of the current period. Key audit matters may involve, among other things, areas of higher assessed risk of material misstatement or significant identified risks; areas that required significant auditor judgment, such as accounting estimates or other areas subject to a high degree of estimation uncertainty; or the effect of significant events or transactions in the current period. For each key audit matter identified in our report, our report will describe the primary reason(s) we designated it as a key audit matter, how it was addressed in the audit, and refer to the financial statement account(s) or disclosure(s) related to it. The communication of key audit matters does not alter in any way our opinion on the financial statements, taken as a whole. If our audit does not identify any key audit matters, your audit report will state that conclusion.

We appreciate the opportunity to be of service to the Agency and believe this letter accurately summarizes the significant terms of our engagement. If you have any questions, please let us know. If you agree with the terms of our engagement as described in this letter, please sign the enclosed copy and return the entire copy to us.

Maze + Associates

Maze & Associates

RESPONSE:

This letter correctly sets forth the understanding of the Agency.

By: _____

Title: _____

Date: _____

**Livermore Amador Valley Water Management Agency
Engagement Letter
Fees Attachment
June 30, 2022**

Our fees for the work described in the attached engagement letter will be as follows, unless they are adjusted for one or more of the items below.

Item	Fees
Basic Financial Statements Report and Memorandum on Internal Control	\$9,188
SCO Report	1,068
Total	<u>\$10,256</u>

2022 Fees – Our recurring fees have been adjusted only for the change in the services component of the Bay Area Cost of Living Index for the San Francisco Bay Area of 2.2%.

PDF Copies of Reports – print to PDF copies of the above reports are provided at no charge. These report copies are high quality, but do not include any bookmarks or hyperlinks and the file sizes may be large, depending on the length of the report. If you would like a higher quality PDF file with bookmarks and hyperlinks in the table of contents, we have listed three options below. Please contact us for more information on the specifics of these options. **Please contact us if you would like us to prepare one of the following three options** for your FS, or if you'd like a quote for the preparation of a file for another type of report. In addition, should you decide on one of the following options, please let us know at least a week in advance.

1. INDIVIDUAL PDF FS PAGES - \$150
2. WEB PDF FS - \$275
3. CAMERA READY PDF FS - \$450

Additional Services - The above fees are for audit and assurance services described in the accompanying engagement letter. They do not include fees for assisting with closing the books nor providing other accounting services. Should the Agency require assistance beyond audit services we will provide an estimate before proceeding.

Report Finalization - Our fee is based on our understanding that all information and materials necessary to finalize all our reports will be provided to us before we complete our year-end fieldwork in your offices. In the case of financial statements, this includes all the materials and information required to print the financial statements. As in the past, we will provide final drafts of all our reports before we leave your offices. We will schedule a Final Changes Meeting with you for a date no more than two weeks after we complete our fieldwork. At that meeting, we will finalize all reports for printing. After that date, report changes you make, and changes required because information was not received timely, will be billed at our normal hourly rates.

Post-Closing Client Adjusting Entries - The first step in our year-end audit is the preparation of financial statement drafts from your final closing trial balance. That means any entries you make after handing us your closing trial balance must be handled as audit adjustments, or in extreme cases, by re-inputting the entire trial balance, even if the amounts are immaterial. If you make such entries and the amounts are in fact immaterial, we will bill you for the costs of the adjustments or re-input at our normal hourly rates.

Recurring Audit Adjustments - Each year we include the prior year's adjusting entries as new steps in our Closing Checklist, so that you can incorporate these entries in your closing. If we are required to continue to make these same adjustments as part of this year's audit, we will bill for this service at our normal hourly rates.

Annual Comprehensive Financial Report Printing - As a convenience, we can send your Annual Comprehensive Financial Report to a printer we use locally. We do not charge for delivering camera-ready print masters to any printer of your choice and delivering the Annual Comprehensive Financial Reports or BFS to you. However, we will bill you for any additional time spent on the Annual Comprehensive Financial Report printing at our normal hourly rates. This includes changes after the report goes to the printer, obtaining, reviewing and / or delivering printer's proofs, etc.

We can also help with Annual Comprehensive Financial Report design, including covers, tabs, dividers, color choices, bindings, Agency charts, maps, etc. We will estimate these costs for you before proceeding.

Grant Programs Requiring Separate Audit - Grant programs requiring separate audits represent a significant increase in work scope, and fees for these audits vary based on the grant requirements. If you wish us to determine and identify which programs are subject to audit, we will bill you for that time at our normal hourly rates.

Changes in Agency Personnel - Our experience is that changes and /or reductions in Finance Department staff can have a pronounced impact on costs of performing the audit. If such changes occur, we will meet with you to assess their impact and arrive at a new fee before we begin the next phase of our work. However, we reserve the right to revisit this subject at the conclusion of the audit, based on your actual performance and our actual costs.

**Livermore Amador Valley Waste Management Agency
Engagement Letter
Compilation Attachment
June 30, 2022**

The services we have been engaged to provide are outlined below.

- Prepare and Electronically File the following Reports for the Agency:
 - Annual Report of Financial Transactions for the Agency

We will prepare and electronically file the Annual Financial Transactions Report(s) for the year ended June 30, 2022 in accordance with the requirements of Government Code Section 53891 and the California State Controller's Office's Financial Transactions Report Instructions dated 10/2021 and perform a compilation engagement with respect to the Financial Transactions Report. Agency staff will provide us with a detailed trial balance and any supporting general ledger reports or schedules required to prepare the Report(s).

The supplementary information accompanying the Report(s), including the U.S. Bureau of the Census Survey and any others required by the California State Controller's Office, will be presented for purposes of additional analysis. Such supplementary information is the responsibility of management and will not be subject to our compilation engagement.

Our Responsibilities

The objective of our engagement is to-

1. prepare the Report(s) in accordance with the format prescribed by the California State Controller's Office based on information provided by you and is not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America, and
2. apply accounting and financial reporting expertise to assist you in the presentation of the Report(s) without undertaking to obtain or provide any assurance that there are no material modifications that should be made to the Report(s) in order for them to be in accordance with the format prescribed by the California State Controller's Office.

We will conduct our compilation engagement in accordance with Statements on Standards for Accounting and Review Services (SSARS) promulgated by the Accounting and Review Services Committee of the AICPA and comply with applicable professional standards, including the AICPA's *Code of Professional Conduct*, and its ethical principles of integrity, objectivity, professional competence, and due care, when performing the preparation and electronic filing of the Report(s), and performing the compilation engagement.

We are not required to, and will not, verify the accuracy or completeness of the information you will provide to us for the engagement or otherwise gather evidence for the purpose of expressing an opinion or a conclusion. Accordingly, we will not express an opinion, a conclusion, nor provide any assurance on the Report(s).

Our engagement cannot be relied upon to identify or disclose any Report misstatements, including those caused by fraud or error, or to identify or disclose any wrongdoing within the entity or noncompliance with laws and regulations.

We, in our sole professional judgment, reserve the right to refuse to perform any procedure or take any action that could be construed as assuming management responsibilities since taking such action would impair our independence.

Your Responsibilities

The engagement to be performed is conducted on the basis that you acknowledge and understand that our role is to prepare the Report(s) in accordance with the format prescribed by the California State Controller's Office and assist you in the presentation of the Report(s) in accordance with the format prescribed by the California State Controller's Office. You have the following overall responsibilities that are fundamental to our undertaking the engagement in accordance with SSARS:

1. The selection of the format prescribed by the California State Controller's Office as the financial reporting framework to be applied in the preparation of the Report(s).
2. The preparation and fair presentation of the Report(s) in accordance with the format prescribed by the California State Controller's Office.
3. The design, implementation, and maintenance of internal control relevant to the preparation and fair presentation of the Report(s) that are free from material misstatement, whether due to fraud or error.
4. The prevention and detection of fraud.
5. To ensure that the Agency complies with the laws and regulations applicable to its activities.
6. The accuracy and completeness of the records, documents, explanations, and other information, including significant judgments, you provide to us for the engagement.
7. To provide us with-
 - a. access to all information of which you are aware that is relevant to the fair presentation of the Report(s), such as records, documentation, and other matters.
 - b. additional information that we may request from you for the purpose of the compilation engagement.
 - c. unrestricted access to persons within the entity of whom we determine it necessary to make inquiries.

You are also responsible for all management decisions and responsibilities and for designating an individual with suitable skills, knowledge, and experience to oversee our preparation and electronic filing of your Report(s). You are responsible for evaluating the adequacy and results of the services performed and accepting responsibility for such services.

Our Report

As part of our engagement, we will issue a report that will state that we did not audit or review the Report(s) and that, accordingly, we do not express an opinion, a conclusion, or provide any assurance on it(them). There may be circumstances in which the Report(s) differ from the expected form and content. If, for any reason, we are unable to complete the compilation of your Report(s), we will not issue a report on such Report(s) as a result of this engagement.

Our report will disclose that the Report(s) are presented in a prescribed form in accordance with the requirements of the California State Controller's Office and are not intended to be a presentation in accordance with accounting principles generally accepted in the United States of America.

You agree to include our accountant's compilation report in any document containing the Report(s) that indicates we have performed a compilation engagement on such Report(s) and, prior to inclusion of the report, to obtain our permission to do so.

Grace Zhang is the engagement partner and is responsible for supervising the compilation portion of the engagement and signing the report or authorizing another individual to sign it.



Report on the Firm's System of Quality Control

February 9, 2021

To Maze & Associates Accountancy Corporation and the Peer Review
Committee of the California Society of CPAs

We have reviewed the system of quality control for the accounting and auditing practice of Maze & Associates Accountancy Corporation (the firm) in effect for the year ended May 31, 2020. Our peer review was conducted in accordance with the Standards for Performing and Reporting on Peer Reviews established by the Peer Review Board of the American Institute of Certified Public Accountants (Standards).

A summary of the nature, objectives, scope, limitations of, and the procedures performed in a System Review as described in the Standards may be found at www.aicpa.org/prsummary. The summary also includes an explanation of how engagements identified as not performed or reported in conformity with applicable professional standards, if any, are evaluated by a peer reviewer to determine a peer review rating.

Firm's Responsibility

The firm is responsible for designing a system of quality control and complying with it to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. The firm is also responsible for evaluating actions to promptly remediate engagements deemed as not performed or reported in conformity with professional standards, when appropriate, and for remediating weaknesses in its system of quality control, if any.

Peer Reviewer's Responsibility

Our responsibility is to express an opinion on the design of the system of quality control and the firm's compliance therewith based on our review.

190 Camino Oruga, Suite 1 • Napa, CA 94558 • telephone: 707.255.0677 • fax: 707.255.0687
Member: American Institute of CPAs • California, Hawaii, & Oregon Societies of CPAs

Required Selections and Considerations

Engagements selected for review included engagements performed under *Government Auditing Standards*, including compliance audits under the Single Audit Act.

As a part of our peer review, we considered reviews by regulatory entities as communicated by the firm, if applicable, in determining the nature and extent of our procedures.

Opinion

In our opinion, the system of quality control for the accounting and auditing practice of Maze & Associates Accountancy Corporation in effect for the year ended May 31, 2020, has been suitably designed and complied with to provide the firm with reasonable assurance of performing and reporting in conformity with applicable professional standards in all material respects. Firms can receive a rating of *pass*, *pass with deficiency(ies)* or *fail*. Maze & Associates Accountancy Corporation has received a peer review rating of *pass*.

Coughlan Napa CPA Company, Inc.

Coughlan Napa CPA Company, Inc.

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Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
June 29, 2022

ITEM NO. 12 QUARTERLY REPORT OF OPERATIONS FOR 3rd QUARTER FY2021-2022

Action Requested

None at this time. This is an information item only.

Summary

LAVWMA's Quarterly Report of Operations for the 3rd Quarter, FY 2021-2022 is attached for the Board's review. These quarterly reports are prepared by DSRSD staff and summarize all LAVWMA operations and maintenance activity for each quarter. Jeff Carson, DSRSD Operations Manager, will be available to answer any questions from the Board. The report includes graphs showing Flows and Pumping Efficiency, Energy Consumption, Budget Variance, and Work Order History. Per the Board's request, the Executive Summary includes a section for Items of Interest. Total expenses are running at 64.1% of the year to date budget. Apart from storms in October and December, this season's rainfall has been below normal.

Recommendation

None at this time. This is an information item only.

Attachments

LAVWMA Quarterly Report of Operations, 3rd Quarter, FY2021-2022.

LAVWMA

QUARTERLY REPORT OF OPERATIONS

FY 2021-2022, 3rd Quarter



Prepared by

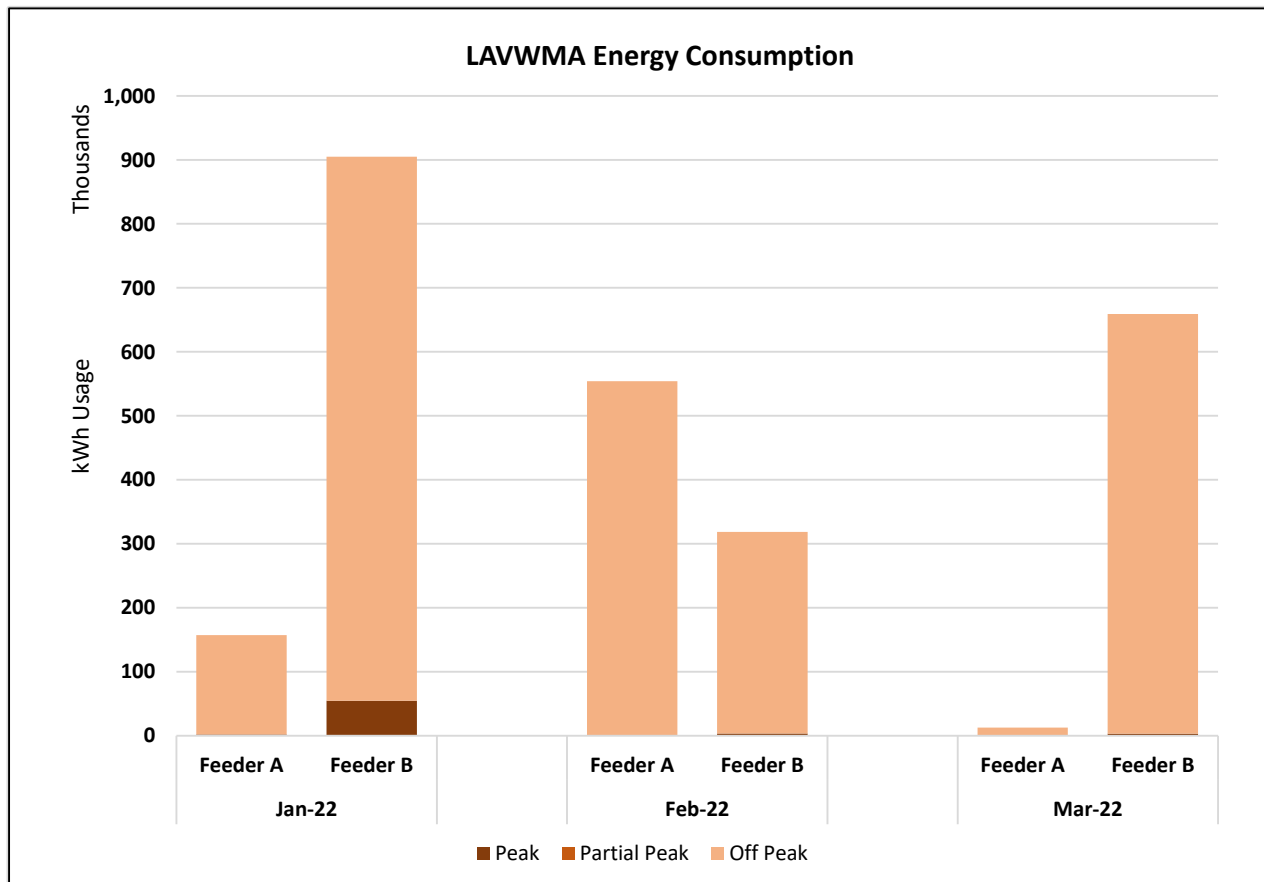
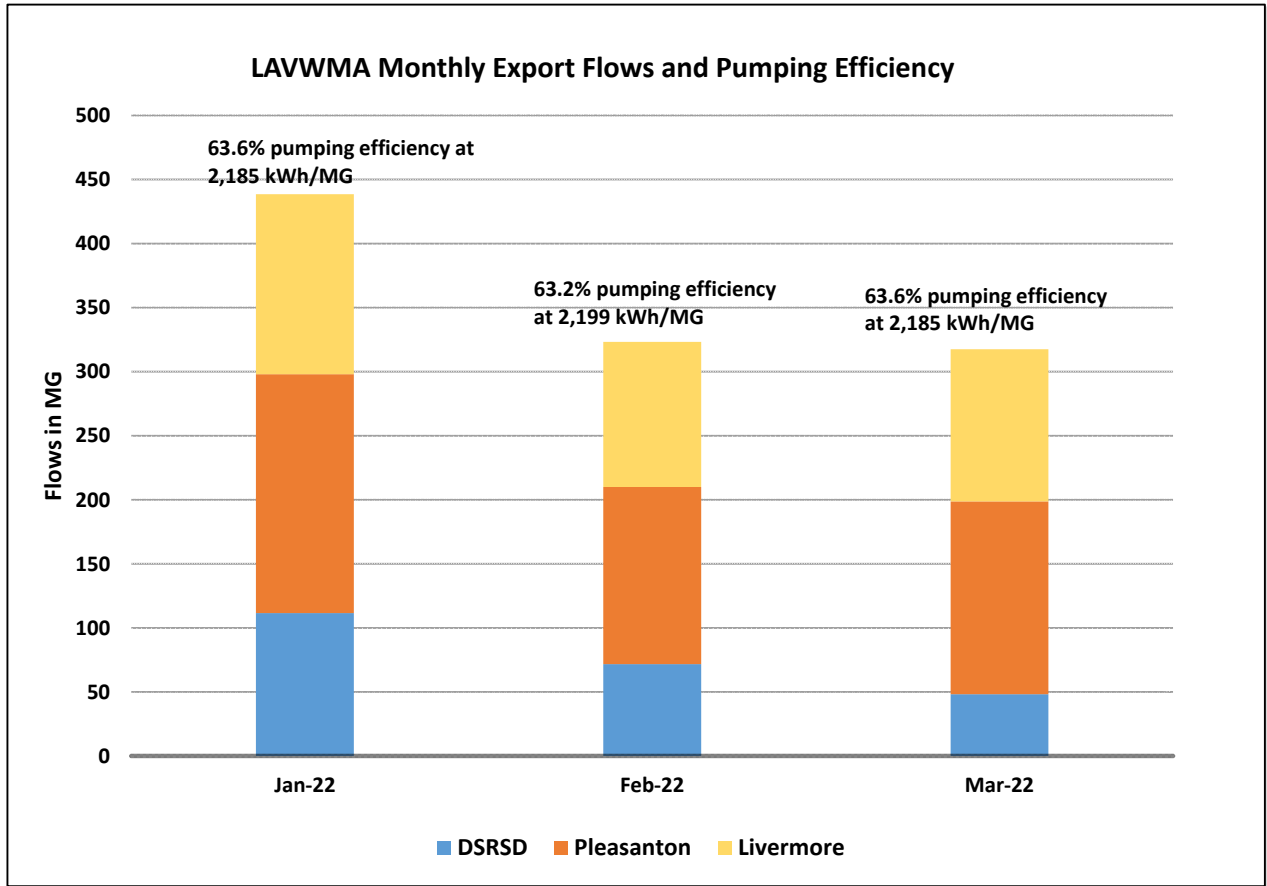


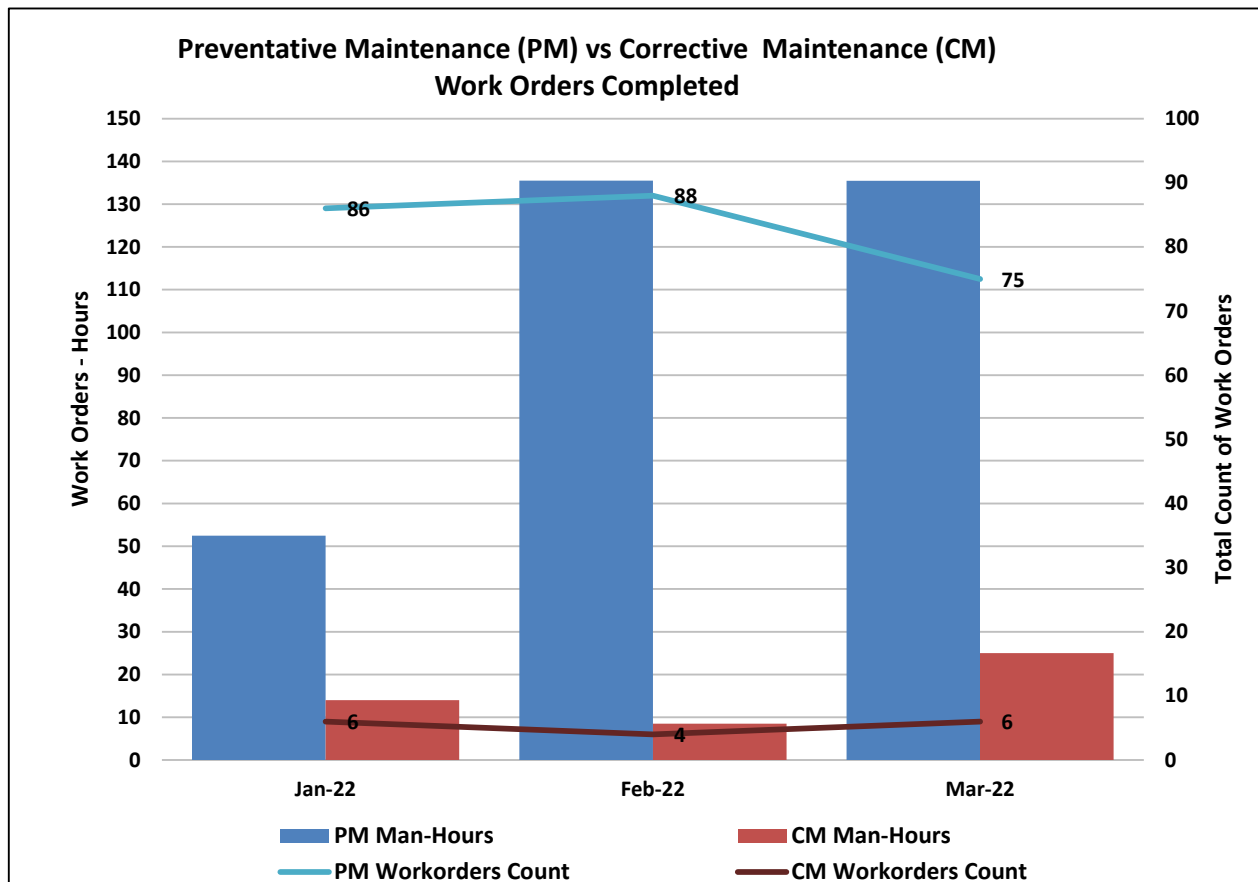
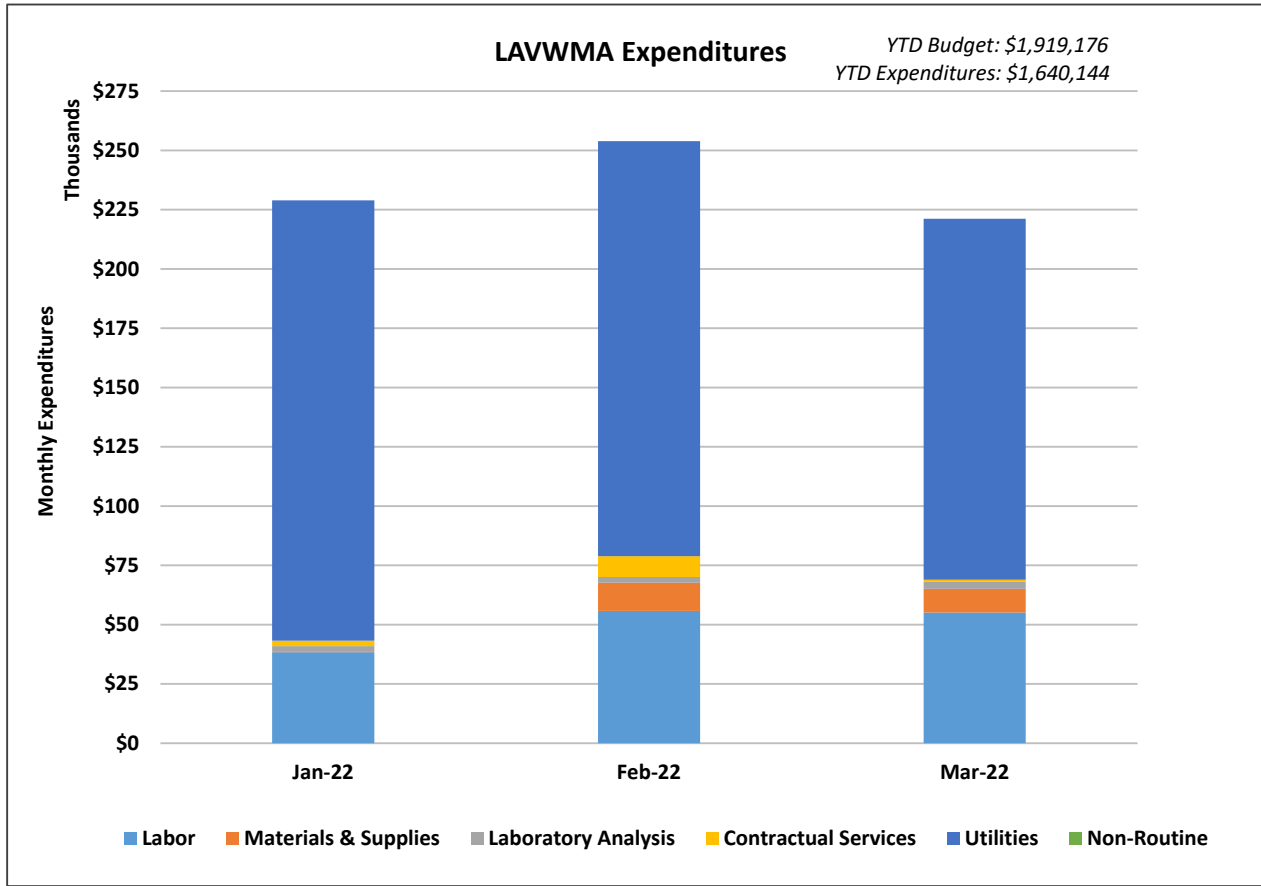
**Dublin San Ramon
Services District**

Water, wastewater, recycled water

**QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
3rd Quarter FY 2021-2022: January to March 2022**

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**QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
3rd Quarter FY 2021-2022: January to March 2022**

1. EXECUTIVE SUMMARY

The Livermore-Amador Valley Water Management Agency (LAVWMA) pumping and effluent conveyance system operated normally during the third quarter of FY 2021-2022. During the quarter, a total of 1,079.31 million gallons of fully treated secondary effluent were pumped to San Francisco Bay via the East Bay Dischargers Authority (EBDA) outfall diffuser and San Leandro Sample Station (SLSS); the overall efficiency of the pumping system averaged 64%, with an average electrical cost of \$421 per million gallons, or \$137 per acre-foot.

Total year-to-date operations and maintenance (O&M) expense is \$1,640,144 or 64.1% of the O&M annual budget amount of \$2,558,901 and the overall cost of operation is \$604 per million gallons pumped or \$197 per acre-foot.

2. OPERATIONS

Of the 1,079.31 million gallons of effluent conveyed through the LAVWMA system, approximately 373 million gallons was from the City of Livermore, 475 million gallons from City of Pleasanton and 232 million gallons from DSRSD. Monthly export flow summary is shown on Table 4. Monthly reports sent to EBDA which detail daily export flows and monitoring analysis of the treated effluent during the quarter are shown on Table 9.

Throughout the reporting period, staff endeavored to plan efficient pumping and to avoid pumping during partial peak and peak PG&E energy periods where feasible. LAVWMA's energy consumption in the third quarter reflects use of PG&E's seasonal "super off peak" rate, which is available during the spring months of March, April, and May between the hours of 9 AM and 2 PM.

During the months of February and March, staff observed fluctuating levels of energy use at both Feeder A and B (as evidenced by the LAVWMA Energy Consumption table on page 2). This is attributed to electrical upgrades performed on the feeders throughout the period, which required Operations staff to alternate relying upon one primary feeder at a time for the duration of the project.

In January, a third-party auditor conducted an audit of the Lab's quality system and all State accredited methods. The Lab received good feedback from the auditor and complimentary remarks on Lab staff and traceability. Audits are a part of maintaining State Certification and grant DSRSD the ability to analyze and submit regulatory data to the State. Certification is dependent on the lab's ability to pass proficiency tests and participate in State approved audits.

3. MAINTENANCE

During the quarter, 323 hours were spent to complete 249 preventative maintenance work orders and 48 hours to complete 16 corrective maintenance work orders on LAVWMA equipment and systems.

The following are some noteworthy maintenance activities during the quarter:

Electrical:

- Assisted with SLSS Rehab design field investigations
- Assisted with LAVWMA MCC SOR's, project closeout, punch list items, and training
- Assisted with Gate 34 actuator and valve replacement

Instrumentation and Controls:

- Completed Rectified P-10 as a test site to upgrade remote monitoring devices for all remote rectifier panels.
- Completed the power monitoring data mapping into iFIX for the new MCC upgrades
- Ongoing work with consultant for the new OSI PI installation
- Completed upgrade of the LAVWMA pump deck wet well level instruments to radar-type sensors
- Re-scaled the LAVWMA junction structure Cl2 analyzer per Ops request to make all analyzers the same scale
- Ongoing vibration sensor and monitoring equipment upgrades

Mechanical:

- Provided continued support for the LAVWMA San Leandro Sample Station (SLSS) rehabilitation design
- Installed Smart Detectors at three locations in the LAVWMA line prior to SLSS
- Began air valve maintenance on the pipeline between Livermore and SLSS
- Inspected LAVWMA pipelines located within residential properties

5. **BUDGET VARIANCE AND EXPENSES**

Third quarter labor expenses totaled \$149,279 for 736 man-hours of effort, an average of 1.4 full time equivalents (FTEs). O&M expenses for the quarter including labor, supplies, laboratory analysis, contractual services, and utilities totaled \$703,987 for an average cost of \$652 per million gallons pumped or \$213 per acre-foot. The total expense for the Livermore sole use pipeline for the quarter was \$605.

Operation and maintenance (O&M) expenses and budget utilization details are shown on Tables 5, 6, 7, and 8.

6. **ITEMS OF INTEREST**

There were no PG&E peak day pricing events that affected the LAVMWA facilities during the quarter. Additionally, January through March 2022 were unseasonably dry, with no significant storms taking place and an accumulated rainfall of 1.0 inches throughout the reporting period.

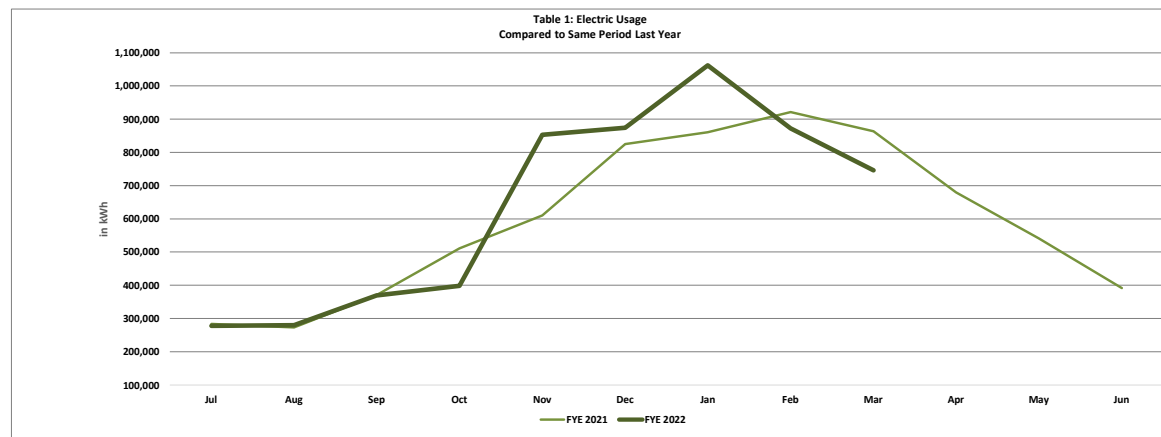
7. **CAPITAL PROJECTS**

As additional information, Table 11 provides a status summary of the capital projects that are primarily managed by the LAVWMA General Manager. The O&M budget and expenditures discussed in this quarterly report do not include capital projects.

TABLE 1 - Electric Usage, Efficiency and Costs

LAVVMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

PG&E Service Accounts: Rate Schedule B20 starting March 2021																Total Export Flow ¹	Pumping			
Acct # 8482061923-1 Service A						Acct # 8440395259-5 Service B						Billing	Total			MG	Energy	Cost		Efficiency
Month	kWh	Peak	Partial Peak	Off Peak	\$	kWh	Peak	Partial Peak	Off Peak	Super Off Peak	\$	Days	kWh	\$/kWh	\$		kWh/MG	\$/MG	\$/AF	%
Jul-21	121,614	0	0	121,614	\$30,679	156,361	9,910	19,424	127,027		\$43,366	30	277,975	\$0.27	\$74,045	108	2,565	\$683	\$223	54.2%
Aug-21	121,695	0	52	121,643	\$26,843	158,567	10,283	22,241	126,043		\$43,175	32	280,262	\$0.25	\$70,019	105	2,667	\$666	\$217	52.1%
Sep-21	300,902	0	300	300,602	\$60,010	68,264	6,492	12,791	48,981		\$31,359	30	369,166	\$0.25	\$91,368	160	2,312	\$572	\$186	60.1%
Oct-21	389,192	0	0	389,192	\$67,279	9,593	1,768	828	6,997		\$8,793	29	398,785	\$0.19	\$76,072	182	2,191	\$418	\$136	63.5%
Nov-21	179,241	7,458	0	171,783	\$55,673	673,504	19,663	0	653,841		\$115,688	30	852,745	\$0.20	\$171,361	412	2,071	\$416	\$136	67.1%
Dec-21	93,222	0	0	93,222	\$36,104	780,566	11,465	0	769,101		\$125,342	31	873,788	\$0.18	\$161,446	413	2,117	\$391	\$127	65.7%
Jan-22	157,258	1,885	0	155,373	\$38,041	904,903	54,826	0	850,077		\$148,618	31	1,062,161	\$0.18	\$186,659	486	2,185	\$384	\$125	63.6%
Feb-22	553,887	144	0	553,743	\$111,751	318,562	3,510	0	315,052		\$60,750	28	872,449	\$0.20	\$172,501	397	2,199	\$435	\$142	63.2%
Mar-22	12,788	0	0	12,788	\$19,798	733,311	3,353	0	655,642	74,316	\$131,520	31	746,099	\$0.20	\$151,318	342	2,185	\$443	\$144	63.6%
Apr-22																				
May-22																				
Jun-22																				
Quarter																				
Average	241,311				\$56,530	652,259					\$113,629	30	893,570	\$0.19	\$170,159	408	2,190	\$421	\$137	63.5%
Total	723,933				\$169,589	1,956,776					\$340,888	90	2,680,709		\$510,477	1,224	6,569			
Minimum	12,788				\$19,798	318,562					\$60,750	28	746,099	\$0.18	\$151,318	342	2,185	\$384	\$125	63.2%
Maximum	553,887				\$111,751	904,903					\$148,618	31	1,062,161	\$0.20	\$186,659	486	2,199	\$443	\$144	63.6%
YTD																				
Average	214,422				\$49,575	422,626					\$78,735	30	637,048	\$0.21	\$128,310	289	2,277	\$490	\$160	61.5%
Total	1,929,799				\$446,178	3,803,631					\$708,611	272	5,733,430		\$1,154,788	2,604	20,492			
Minimum	12,788				\$19,798	9,593					\$8,793	28	277,975	\$0.18	\$70,019	105	2,071	\$384	\$125	52.1%
Maximum	553,887				\$111,751	904,903					\$148,618	32	1,062,161	\$0.27	\$186,659	486	2,667	\$683	\$223	67.1%

**NOTES:**

1) This Table 1 does not reflect what was the actual expenditures paid for the month and may not match what is in Table 8 Expenditures. The primary purpose of Table 1 is to show the electric usage and efficiency for the month it actually occurred.

2) To calculate pumping efficiency, read dates, electric usage, and export flows are **matched to PG&E billing periods**: 12/14 - 1/11 for January, 1/12 - 2/10 for February, and 2/11 - 3/14 for March.

3) Pumping efficiency is based on continuous average flows and a TDH of 442.8 feet, including static lift of 408.8 feet and piping losses of 34 feet (per Charlie Joyce, B&C, 2/12/07).

TABLE 2 - Pump Run Time Hours

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

Month	Pump No. 1	Pump No. 2	Pump No. 3	Pump No. 4	Pump No. 5	Pump No. 6	Pump No. 7	Pump No. 8	Pump No. 9	Pump No. 10	TOTAL	
	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Hours	Run Hours	Pump Utilization %
Jul-21	0	29	87	204	0	0	0	200	84	26	631	8.5%
Aug-21	0	220	81	1	91	62	0	29	81	219	783	10.5%
Sep-21	0	2	110	3	359	240	1	352	1	0	1,067	14.8%
Oct-21	0	184	47	161	333	245	163	359	192	0	1,685	22.7%
Nov-21	0	481	90	367	37	55	481	38	369	32	1,951	27.1%
Dec-21	0	522	97	551	0	0	551	113	546	0	2,380	32.0%
Jan-22	0	376	230	105	233	236	355	357	235	223	2,349	31.6%
Feb-22	0	374	153	218	151	156	242	0	327	6	1,628	24.2%
Mar-22	0	444	0	459	0	0	165	0	440	0	1,508	20.3%
Apr-22											0	0.0%
May-22											0	0.0%
Jun-22											0	0.0%
Quarter												
Average	0	398	128	261	128	131	254	119	334	77	1,828	25.4%
Total	0	1,193	383	783	384	392	762	357	1,002	230	5,485	
Minimum	0	374	0	105	0	0	165	0	235	0	1,508	20.3%
Maximum	0	444	230	459	233	236	355	357	440	223	2,349	31.6%
YTD												
Average	0	292	100	230	134	110	218	161	253	56	1,165	16.0%
Total	0	2,632	896	2,069	1,204	994	1,959	1,448	2,273	507	13,982	
Minimum	0	2	0	1	0	0	0	0	1	0	0	0.0%
Maximum	0	522	230	551	359	245	551	359	546	223	2,380	32.0%

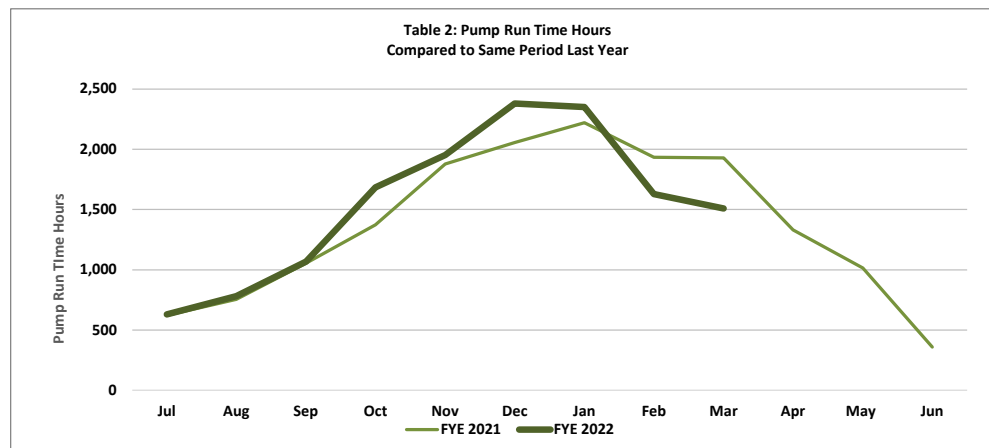


TABLE 3 - Monthly Average Storage Basin Levels and Volume

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

Month	Average Daily Volume			Average Volume Stored MG	Average Storage Available MG	Storage Basin Utilization %
	Basin No. 1	Basin No. 2	Basin No. 3			
	Feet	Feet	Feet			
Jul-21	2.17	0.22	3.19	2.65	18	14.7%
Aug-21	4.97	3.44	0.53	4.78	18	26.6%
Sep-21	4.19	2.35	1.08	3.97	18	22.1%
Oct-21	3.09	1.98	2.96	3.86	18	21.4%
Nov-21	1.56	1.78	5.97	4.90	18	27.2%
Dec-21	3.89	1.49	4.24	4.85	18	26.9%
Jan-22	3.81	0.32	3.47	3.71	18	20.6%
Feb-22	2.07	0.19	3.69	2.94	18	16.3%
Mar-22	2.95	0.20	2.98	3.00	18	16.7%
Apr-22					18	0.0%
May-22					18	0.0%
Jun-22					18	0.0%
<u>Quarter</u>						
Average	2.94	0.24	3.38	3.22		0.18
Minimum	2.07	0.19	2.98	2.94		0.16
Maximum	3.81	0.32	3.69	3.71		0.21
<u>YTD</u>						
Average	3.19	1.33	3.12	3.85		16.0%
Minimum	1.56	0.19	0.53	2.65		0.0%
Maximum	4.97	3.44	5.97	4.90		27.2%

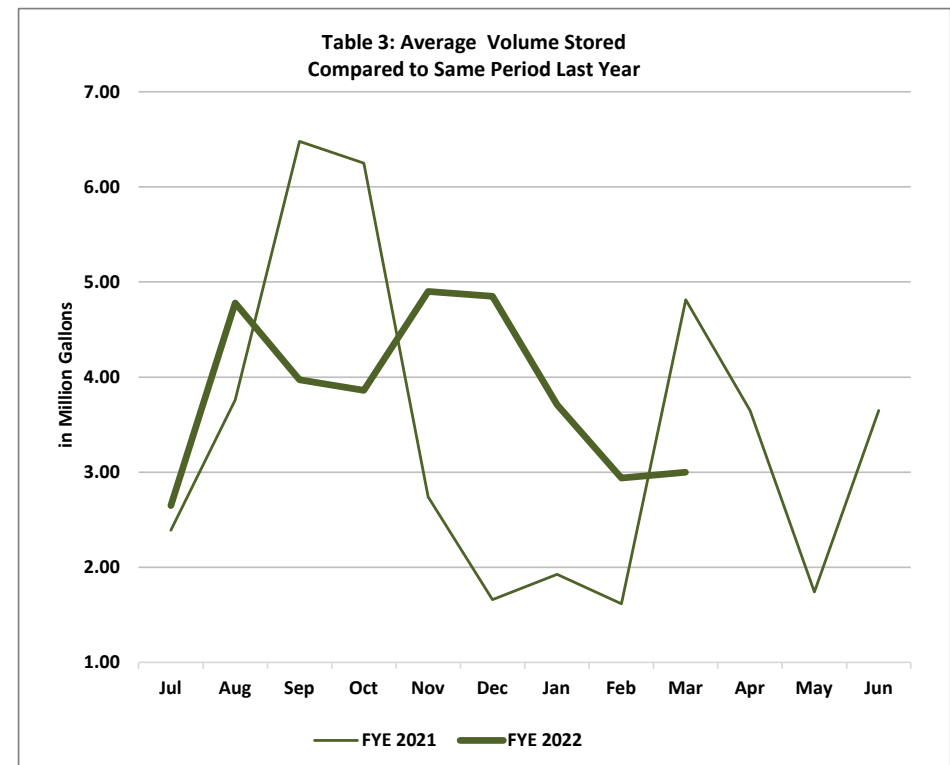
**Note:** Total available storage volume is 18 million gallons.

TABLE 4 - Monthly Export Flow

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report
 Estimated Flow: 3,358 MG

	Dublin San Ramon	Pleasanton	Livermore	Combined Export	
	Flow *	Flow *	Flow	Flow	Total for
Month	MG	MG	MG	MG	Quarter
Jul-21	0.00	9.24	88.11	97.35	403.69
Aug-21	0.00	39.90	95.49	135.39	
Sep-21	0.00	77.99	92.97	170.96	
Oct-21	35.96	172.01	120.69	328.65	1,233.19
Nov-21	115.46	169.49	129.52	414.47	
Dec-21	122.90	221.07	146.09	490.06	
Jan-22	111.59	186.52	140.47	438.58	1,079.31
Feb-22	71.73	138.22	113.30	323.25	
Mar-22	48.25	150.44	118.79	317.48	
Apr-22	0.00	0.00			0.00
May-22	0.00	0.00			
Jun-22	0.00	0.00			
Quarter					
Total	231.58	475.17	372.56	1,079.31	
Average	77.19	158.39	124.19	359.77	
Minimum	48.25	138.22	113.30	317.48	
Maximum	111.59	186.52	140.47	438.58	
YTD					
Total	505.89	1,164.87	1,045.42	2,716.19	Budgeted Flow: 3,358 MG
Average	42.16	97.07	116.16	301.80	
Minimum	0.00	0.00	88.11	97.35	
Maximum	122.90	221.07	146.09	490.06	

* Monthly totals do not include flows diverted for recycling use by DERWA and Pleasanton.

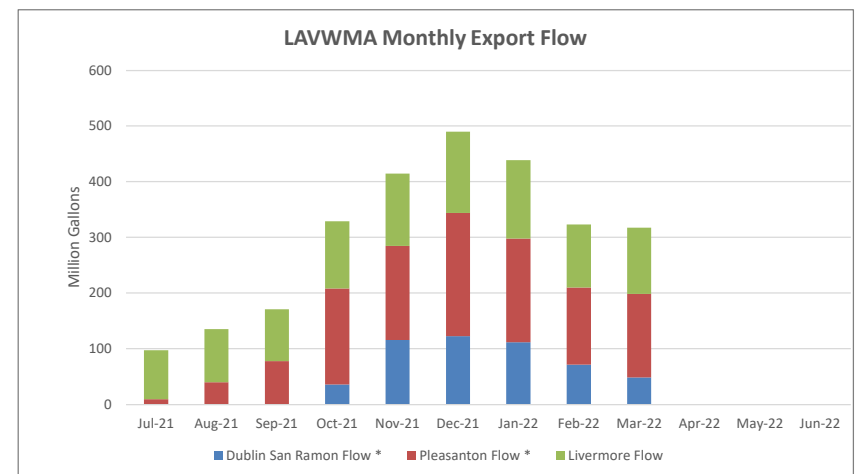
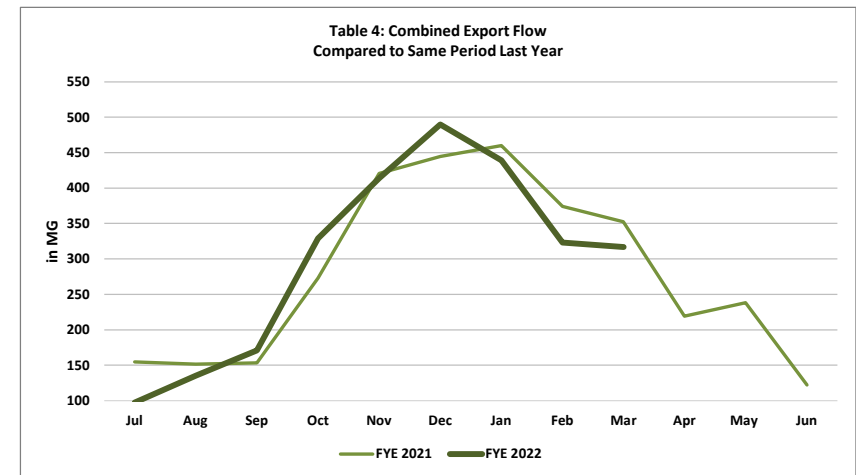


TABLE 5 - Labor Effort, Expenditures, and Budget Utilization

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

FY Labor Budget \$968,151

	Billed			YTD		Labor	Export	
	Labor	FTE	Labor	Labor	Budget	Budget	Flow	
Month	Hours	Equiv	Invoice	Expense	Utilization	Remaining	MG	AF
-----	-----	-----	-----	-----	-----	-----	-----	-----
Jul-21	353.5	2.0	\$59,266	\$59,266	6.1%	\$908,885	97.35	299
Aug-21	279.5	1.6	\$48,140	\$107,406	11.1%	\$860,745	135.39	416
Sep-21	256.2	1.5	\$43,940	\$151,346	15.6%	\$816,805	170.96	525
Oct-21	436.0	2.5	\$75,273	\$226,619	23.4%	\$741,532	328.65	1,009
Nov-21	323.5	1.9	\$55,760	\$282,379	29.2%	\$685,772	414.47	1,272
Dec-21	273.0	1.6	\$47,017	\$329,396	34.0%	\$638,755	490.06	1,504
Jan-22	189.0	1.1	\$38,367	\$367,763	38.0%	\$600,388	438.58	1,346
Feb-22	272.0	1.6	\$55,773	\$423,536	43.7%	\$544,615	323.25	992
Mar-22	274.5	1.6	\$55,139	\$478,675	49.4%	\$489,476	317.48	974
Apr-22								
May-22								
Jun-22								
<u>QUARTER</u>								
Total	735.5		\$149,279				1,079.31	3,313
Average	245.2	1.4	\$49,760				359.77	1,104
Minimum	189.0	1.1	\$38,367				317.48	974
Maximum	274.5	1.6	\$55,773				438.58	1,346
<u>YTD</u>								
Total YTD	2,657.2		\$478,675		49.4%	\$489,476	2,716.19	8,336
Average YTD	295.2	1.7	\$53,186				301.80	926
Minimum	189.0	1.1	\$38,367				97.35	299
Maximum	436.0	2.5	\$75,273				490.06	1,504

Notes:

TABLE 6 - O&M Expenditures and Budget Utilization

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

Total O&M Budget: **\$2,558,901**

Month	Labor Expenses	A/P Expenses	Total O&M Expenses	YTD O&M Expenses	Budget Utilization	O&M Budget Remaining	Overall O&M Cost		Export Flow	
							\$/MG	\$/AF	MG	AF
Jul-21	\$59,266	\$51,654	\$110,921	\$110,921	4.3%	\$2,447,980	\$1,139	\$371	97.35	299
Aug-21	\$48,140	\$102,505	\$150,645	\$261,566	10.2%	\$2,297,335	\$1,113	\$363	135.39	416
Sep-21	\$43,940	\$96,666	\$140,606	\$402,171	15.7%	\$2,156,730	\$822	\$268	170.96	525
Oct-21	\$75,273	\$75,803	\$151,076	\$553,247	21.6%	\$2,005,654	\$460	\$150	328.65	1,009
Nov-21	\$55,760	\$181,762	\$237,522	\$790,769	30.9%	\$1,768,132	\$573	\$187	414.47	1,272
Dec-21	\$47,017	\$98,370	\$145,388	\$936,156	36.6%	\$1,622,745	\$297	\$97	490.06	1,504
Jan-22	\$38,367	\$190,537	\$228,904	\$1,165,061	45.5%	\$1,393,840	\$522	\$170	438.58	1,346
Feb-22	\$55,773	\$198,131	\$253,904	\$1,418,965	55.5%	\$1,139,936	\$785	\$256	323.25	992
Mar-22	\$55,139	\$166,040	\$221,179	\$1,640,144	64.1%	\$918,757	\$697	\$227	317.48	974
Apr-22										
May-22										
Jun-22										
<u>QUARTER</u>										
Total	\$149,279	\$554,708	\$703,987				\$652	\$213	1,079.31	3,313
Average	\$49,760	\$184,903	\$234,662						359.77	1,104
Minimum	\$38,367	\$166,040	\$221,179				\$522	\$170	317.48	974
Maximum	\$55,773	\$198,131	\$253,904				\$785	\$256	438.58	1,346
<u>YTD</u>										
Total YTD	\$478,675	\$1,161,468	\$1,640,144		64.1%	\$918,757	\$604	\$197	2,716.19	8,336
Average YTD	\$53,186	\$129,052	\$182,238							
Minimum	\$38,367	\$51,654	\$110,921				\$297	\$97	97.35	299
Maximum	\$75,273	\$198,131	\$253,904				\$1,139	\$371	490.06	1,504

Notes:

a) A/P expenses dipped in December due to applied credit of \$89,058.20 to PG&E bill.

TABLE 7 - O&M Expenditures and Budget Utilization for Livermore Sole Use Facilities

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

Livermore Sole Use Facilities			
Month	Labor	A/P	Total
-----	Expenses	Expenses	Expenses
-----	-----	-----	-----
Jul-21	\$0	\$167	\$167
Aug-21	\$0	\$151	\$151
Sep-21	\$0	\$166	\$166
Oct-21	\$0	\$196	\$196
Nov-21	\$0	\$168	\$168
Dec-21	\$0	\$186	\$186
Jan-22	\$0	\$194	\$194
Feb-22	\$0	\$215	\$215
Mar-22	\$0	\$196	\$196
Apr-22			
May-22			
Jun-22			
<u>Quarter</u>			
Total	\$0	\$605	\$605
Average	\$0	\$202	\$202
Minimum	\$0	\$194	\$194
Maximum	\$0	\$215	\$215
<u>YTD</u>			
YTD Total	\$0	\$1,639	\$1,639
YTD Average	\$0	\$182	\$182
YTD Minimum	\$0	\$151	\$151
YTD Maximum	\$0	\$215	\$215

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES: GOODS & SERVICES

Current FY Period: 9

ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M																
	Budget	July	August	September	October	November	December	January	February	March	April	May	June	YTD	YTD	
	FY 2021-2022	2021	2021	2021	2021	2021	2021	2022	2022	2022	2022	2022	2022	TOTAL	Budget	
Labor																
Staff	\$968,151	\$59,266	\$48,140	\$43,940	\$75,273	\$55,760	\$47,017	\$38,367	\$55,773	\$55,139				\$478,675	\$726,113	
Subtotal	\$968,151	\$59,266	\$48,140	\$43,940	\$75,273	\$55,760	\$47,017	\$38,367	\$55,773	\$55,139	\$0	\$0	\$0	\$478,675	\$726,113	
Materials & Supplies																
Operations Supplies	\$13,000	\$10	\$47	\$10	\$7	\$10	\$0	\$70	\$10	\$10				\$174	\$9,750	
Mechanical Supplies	\$25,000		\$1,039			\$3,723	\$724		\$524					\$6,011	\$18,750	
Electrical Supplies	\$59,400		\$3,177	\$540	\$1,776	\$2,398	\$12,097	\$52	\$11,347	\$9,956				\$41,343	\$44,550	
Subtotal	\$97,400	\$10	\$4,263	\$550	\$1,783	\$6,131	\$12,821	\$122	\$11,881	\$9,966	\$0	\$0	\$0	\$47,528	\$73,050	
Laboratory Analysis																
Compliance Testing	\$10,000	\$792	\$792	\$990	\$792	\$792	\$990	\$792	\$792	\$990				\$7,722	\$7,500	
Operational Support Testing	\$4,000	\$366	\$366	\$366	\$366	\$366	\$366	\$366	\$366	\$366				\$3,294	\$3,000	
Special Sampling	\$22,000	\$1,288	\$1,610	\$1,288	\$1,288	\$1,610	\$1,288	\$1,288	\$1,288	\$1,610				\$12,558	\$16,500	
Subtotal	\$36,000	\$2,446	\$2,768	\$2,644	\$2,446	\$2,768	\$2,644	\$2,446	\$2,446	\$2,966	\$0	\$0	\$0	\$23,574	\$27,000	
Contractual Services																
Sub-surface Repairs	\$15,000													\$0	\$11,250	
Street Sweeping	\$5,000		\$500	\$400	\$400	\$500	\$300		\$1,000					\$3,100	\$3,750	
Cathodic Protection Survey & Repairs	\$30,000													\$0	\$22,500	
Underground Service Alert	\$4,500		\$896											\$896	\$3,375	
SCADA software maintenance contract	\$17,000	\$5,029												\$5,029		
Remote monitoring annual service for PS and Rec	\$5,000													\$0		
Med voltage switchgear 3-yr PM (FY22, \$18k)	\$20,000													\$0		
HVAC Maintenance/Repairs	\$750													\$0	\$563	
Termite/Pest Control	\$900													\$0	\$675	
Landscape/weed maintenance	\$10,000				\$2,941				\$6,862					\$9,802	\$7,500	
Janitorial Service	\$9,500		\$1,220		\$425			\$1,275		\$850				\$3,770	\$7,125	
Fire Extinguisher Maintenance	\$200													\$0	\$150	
Postage/Shipping Charges	\$0													\$0	\$0	
Professional Services, misc	\$30,000			\$876			\$922	\$1,005	\$922					\$3,726	\$22,500	
Subtotal	\$147,850	\$5,029	\$2,616	\$1,276	\$3,766	\$500	\$1,222	\$2,280	\$8,784	\$850	\$0	\$0	\$0	\$26,324	\$110,888	
Utilities																
Electricity (PG&E)	\$1,301,600	\$43,818	\$92,858	\$91,816	\$67,808	\$171,817	\$81,683	\$185,245	\$175,020	\$151,847				\$1,061,911	\$976,200	
Water & Sewer (Pleasanton)	\$900	\$154		\$163		\$341		\$238		\$199				\$1,094	\$675	
Water (EBMUD)	\$1,000	\$197		\$217		\$206		\$206		\$212				\$1,038	\$750	
Telephone/communications	\$6,000													\$0	\$4,500	
WW Treatment (DSRSD)	\$0													\$0	\$0	
Subtotal	\$1,309,500	\$44,169	\$92,858	\$92,196	\$67,808	\$172,363	\$81,683	\$185,689	\$175,020	\$152,257	\$0	\$0	\$0	\$1,064,043	\$982,125	
Non-Routine																
	\$0													\$0	\$0	
Subtotal	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
Monthly Total		\$110,921	\$150,645	\$140,606	\$151,076	\$237,522	\$145,388	\$228,904	\$253,904	\$221,179	\$0	\$0	\$0	\$1,640,144	\$1,919,176	
YTD Total	\$2,558,901	\$110,921	\$261,566	\$402,171	\$553,247	\$790,769	\$936,156	\$1,165,061	\$1,418,965	\$1,640,144	\$1,640,144	\$1,640,144	\$1,640,144			
Combined Export Flow, mg	3358	97	135	171	329	414	490	439	323	317				2,716	2,519	
Pumping Efficiency		54.2%	52.1%	60.1%	63.5%	67.1%	65.7%									
Monthly Cost, \$/mg		\$1,139	\$1,113	\$822	\$460	\$351	\$485	\$522	\$785	\$697						
YTD Running Cost, \$/mg	\$762							\$589	\$617	\$626				\$604		

Q2 Notes:

a) December PG&E bill for Feeder B includes \$89,058.20 credit

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES: LABOR

Current FY Period: 9

ACTUAL EXPENSES BILLED TO LAVWMA FOR REGULAR O&M														
FY 2021-2022	Jul 2021	Aug 2021	Sep 2021	Oct 2021	Nov 2021	Dec 2021	Jan 2022	Feb 2022	Mar 2022	Apr 2022	May 2022	Jun 2022	YTD TOTAL	YTD Budget
<i>Estimated Personnel Hours</i>														
Division 50 - Ops Admin	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	0	-	-	-	-	-	-	-	-	-	-	-	-	-
Division 51 - FOD	40	-	-	-	-	-	-	-	-	-	-	-	-	30.00
Water/Wastewater Sys Lead Op	0												-	-
Water/Wastewater Sys OP IV-On Call	0												-	-
Water/Wastewater Sys OP IV	30												-	22.50
Water/Wastewater Sys OP III	0												-	-
Water/Wastewater Sys OP II	10												-	7.50
Maintenance Worker	0												-	-
Supervisor	0												-	-
Division 52 - WWTP	3,080	180.50	123.50	127.19	283.00	144.50	93.50	59.00	130.00	72.00	-	-	1,213.19	2,310.00
Process Lead Operator IV/V	150				2.50				8.00				10.50	112.50
Senior WWTP Operator III	720	22.50	22.00	23.00	126.00	39.00	29.50	29.00	55.50	22.00			368.50	540.00
Operator In Training	400												-	300.00
Operator II	1,700	158.00	101.50	104.19	154.50	105.50	64.00	30.00	66.50	50.00			834.19	1,275.00
Operator II (SLSS)	0												-	-
Operations Superintendent	110												-	82.50
Division 53 - MECH	1,230	129.50	126.50	95.50	124.00	142.50	113.00	76.50	131.50	178.50	-	-	1,117.50	922.50
Senior Mechanic-Crane Cert	60	43.50	47.50	32.00	28.00	42.00	35.50	44.50	57.50				353.50	45.00
Senior Mechanic - USA	80	1.50		1.00	7.00		7.50	9.50	4.00				30.50	60.00
Maintenance Worker	60												-	45.00
Mechanic I/II	980	18.00			12.00	23.00	11.00	4.00	9.00	30.50			107.50	735.00
Mechanic II-Crane Cert	0	44.50	50.00	48.50	54.00	57.50	18.50	59.50	72.50				450.50	-
Mechanic I/II - USA	0						4.00		1.00				5.00	-
Mechanic II-Crane Cert - USA	0	22.00	29.00	14.00	23.00	20.00	26.00	5.00	14.50	17.00			170.50	-
Supervisor	50												-	37.50
Division 54 - ELEC	1,130	43.50	28.00	31.00	24.50	34.00	57.00	51.50	8.00	23.50	-	-	301.00	847.50
Senior Instrument/Controls Tech	30					15.00	8.00	4.00	4.00				31.00	22.50
Instrumentation & Controls Tech I/II	300	2.50	28.00	20.00	24.50	32.00	42.00	43.50	4.00	2.50			199.00	225.00
OPS Control Sys Spec	300												-	225.00
Senior Electrician	30	13.00		4.00					8.00				25.00	22.50
Electrician I/II	440	27.00		5.00		2.00			8.00				42.00	330.00
Principal Electrical Engineer	30	1.00		2.00					1.00				4.00	22.50
Division 26 - SAFETY	60	-	-	-	-	-	-	-	-	-	-	-	-	45.00
Safety Officer	60	-	-	-	-	-	-	-	-	-	-	-	-	45.00
Division 40 - ENG	260	-	1.50	2.50	4.50	2.50	9.50	2.00	2.50	0.50	-	-	25.50	195.00
Senior Engineer-Supervisory	0												-	-
Associate/Senior Civil Engineer-SME	100		1.50	2.50	4.50	2.50	9.50	2.00	2.50	0.50			25.50	75.00
Construction Inspector I	80												-	60.00
Engineering Technician II	40												-	30.00
GIS Analyst	40												-	30.00
<i>Total Estimated Personnel Hours</i>	5,800													
<i>FTE</i>	2.8													
Total Monthly Hours		353.50	279.50	256.19	436.00	323.50	273.00	189.00	272.00	274.50	-	-	2,657.19	4,350.00

Notes: Senior Mechanic position is missing under Division 53. Hours charged to this position are entered under Senior Mechanic-Crane Cert

LAVWMA	January	2022
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SELECT FIRST

Enter only numerical data in the result columns and only qualifiers in the qualifier columns. Any other comments should go in the corresponding cell on the Comments tab.

Parameter	Flow	CBOD	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Coliforms	Enterococci
Units	MGD	mg/L	mg/L	SU	SU	mg/L	mg/L	MPN/100mL	MPN/100mL
Test Method	Daily Average (M)	SM 5210 B-2011	SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (N)	Daily Average	SM 9221 C,E-2006	Enterolert
MDL									
RL		3.0	4.5					2	10
Location	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS	SLSS	SLSS
1/1/2022	16.42			7.46	7.56	9.378	0.001		
1/2/2022	17.75			7.44	7.56	7.712	0.001		
1/3/2022	15.73			7.48	7.56	6.092	0.001		
1/4/2022	17.04			7.48	7.56	8.808	0.001	<2	<10
1/5/2022	14.15	10	10.7	7.46	7.59	8.167	0.001		
1/6/2022	15.59			7.46	7.53	5.765	0.001		
1/7/2022	13.73			7.48	7.55	2.974	0.001		
1/8/2022	16.96			7.49	7.57	2.763	0.001		
1/9/2022	13.07			7.49	7.57	2.812	0.001		
1/10/2022	17.38			7.44	7.56	2.845	0.001		
1/11/2022	11.44			7.48	7.61	3.288	0.001	50	<10
1/12/2022	13.15	7.4	9.4	7.49	7.62	4.585	0.001		
1/13/2022	13.89			7.53	7.61	3.755	0.001		
1/14/2022	13.61			7.53	7.63	3.610	0.001		
1/15/2022	15.22			7.53	7.65	3.573	0.001		
1/16/2022	16.84			7.55	7.62	4.015	0.001		
1/17/2022	14.34			7.51	7.63	4.134	0.001		
1/18/2022	13.98			7.53	7.66	4.886	0.001	2	<10
1/19/2022	14.23	15.8	16.6	7.49	7.66	5.619	0.001		
1/20/2022	13.61			7.49	7.63	5.563	0.001		
1/21/2022	13.28			7.49	7.60	4.500	0.001		
1/22/2022	12.90			7.49	7.59	4.684	0.001		
1/23/2022	13.75			7.44	7.60	4.621	0.001		
1/24/2022	11.95			7.47	7.60	3.944	0.001		
1/25/2022	13.42			7.49	7.58	3.642	0.046	7	10
1/26/2022	12.91	7.4	8.7	7.51	7.61	3.707	0.040		
1/27/2022	13.95			7.53	7.63	3.167	0.022		
1/28/2022	12.21			7.53	7.65	3.596	0.011		
1/29/2022	12.15			7.51	7.65	3.763	0.002		
1/30/2022	12.06			7.51	7.65	3.519	0.001		
1/31/2022	11.86			7.55	7.65	3.515	0.001		

Note:

Column E - pH Minimum; online

Column F - pH Maximum; online

LAVWMA	February	2022
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SELECT FIRST

Enter only numerical data in the result columns and only qualifiers in the qualifier columns. Any other comments should go in the corresponding cell on the Comments tab.

Parameter	Flow	CBOD	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Coliforms	Enterococci
Units	MGD	mg/L	mg/L	SU	SU	mg/L	mg/L	MPN/100mL	MPN/100mL
Test Method	Daily Average (M)	SM 5210 B-2011	SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (N)	Daily Average	SM 9221 C,E-2006	Enterolert
MDL									
RL		3.0	4.5					2	10
Location	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS	SLSS	SLSS
2/1/2022	13.21			7.56	7.67	4.462	0.001		
2/2/2022	13.80	10.2	9.7	7.56	7.72	4.455	0.005	<2	<10
2/3/2022	11.81			7.53	7.65	3.363	0.021		
2/4/2022	13.12			7.55	7.66	2.482	0.009		
2/5/2022	14.49			7.58	7.69	1.947	0.005		
2/6/2022	12.12			7.56	7.70	1.987	0.004		
2/7/2022	11.49			7.54	7.67	2.349	0.005		
2/8/2022	13.74			7.54	7.66	2.564	0.004	<2	<10
2/9/2022	13.01	6.5	9.7	7.55	7.71	2.931	0.004		
2/10/2022	10.60			7.47	7.64	2.686	0.001		
2/11/2022	11.16			7.45	7.61	2.971	0.001		
2/12/2022	12.31			7.49	7.61	3.328	0.002		
2/13/2022	10.81			7.47	7.58	4.648	0.002		
2/14/2022	11.55			7.51	7.61	3.967	0.002		
2/15/2022	12.83			7.55	7.64	3.935	0.003	<2	<10
2/16/2022	10.86	9.5	9.7	7.47	7.62	2.671	0.003		
2/17/2022	9.49			7.45	7.57	3.245	0.002		
2/18/2022	11.09			7.47	7.60	4.265	0.004		
2/19/2022	9.98			7.47	7.60	3.929	0.005		
2/20/2022	8.36			7.50	7.60	3.125	0.003		
2/21/2022	10.01			7.48	7.60	2.740	0.004		
2/22/2022	11.84			7.49	7.60	2.650	0.005	<2	<10
2/23/2022	11.75	8.8	11.0	7.51	7.61	3.160	0.005		
2/24/2022	12.74			7.47	7.62	4.504	0.004		
2/25/2022	10.90			7.44	7.60	3.075	0.004		
2/26/2022	8.37			7.46	7.60	3.738	0.003		
2/27/2022	8.60			7.44	7.57	3.128	0.003		
2/28/2022	13.21			7.39	7.55	3.024	0.003		

Note:

Column E - pH Minimum; online

Column F - pH Maximum; online

LAVWMA	March	2022
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 SELECT FIRST

Enter only numerical data in the result columns and only qualifiers in the qualifier columns. Any other comments should go in the corresponding cell on the Comments tab.

Parameter	Flow	CBOD	TSS	pH	pH	Total Residual Chlorine	Total Residual Chlorine	Fecal Coliforms	Enterococci
Units	MGD	mg/L	mg/L	SU	SU	mg/L	mg/L	MPN/100mL	MPN/100mL
Test Method	Daily Average (M)	SM 5210 B-2011	SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (N)	Daily Average	SM 9221 C,E-2006	Enterolert
MDL									
RL		3.0	4.5					2	10
Location	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS	SLSS	SLSS
3/1/2022	11.77			7.42	7.56	2.452	0.003	50	<10
3/2/2022	8.61	6.6	8.4	7.44	7.56	2.864	0.002		
3/3/2022	11.47			7.48	7.56	3.063	0.002		
3/4/2022	9.33			7.49	7.61	2.480	0.002		
3/5/2022	9.71			7.51	7.60	2.585	0.002		
3/6/2022	11.71			7.49	7.61	2.660	0.001		
3/7/2022	12.47			7.34	7.65	2.398	0.001		
3/8/2022	11.14			7.47	7.60	3.134	0.001	13	<10
3/9/2022	9.35	6.0	9.4	7.51	7.64	4.919	0.001		
3/10/2022	9.57			7.46	7.61	4.015	0.001		
3/11/2022	11.25			7.48	7.62	4.297	0.001		
3/12/2022	10.94			7.49	7.64	4.882	0.001		
3/13/2022	8.15			7.46	7.59	5.163	0.001		
3/14/2022	10.17			7.47	7.68	5.304	0.001		
3/15/2022	10.59			7.44	7.55	5.215	0.001	4	<10
3/16/2022	9.96	6.3	10.7	7.42	7.61	4.726	0.001		
3/17/2022	9.28			7.47	7.56	4.261	0.001		
3/18/2022	9.87			7.45	7.57	4.467	0.001		
3/19/2022	9.53			7.44	7.56	4.110	0.001		
3/20/2022	9.55			7.48	7.57	3.892	0.001		
3/21/2022	11.18			7.44	7.61	3.567	0.001		
3/22/2022	11.08			7.37	7.50	3.175	0.001	22	<10
3/23/2022	11.97	5.5	8.7	7.37	7.59	2.691	0.001		
3/24/2022	10.59			7.40	7.58	2.666	0.001		
3/25/2022	8.30			7.47	7.57	2.464	0.001		
3/26/2022	8.43			7.48	7.61	2.614	0.001		
3/27/2022	9.27			7.47	7.56	2.461	0.001		
3/28/2022	9.24			7.44	7.59	1.829	0.001		
3/29/2022	11.01			7.47	7.58	2.699	0.001	30	<10
3/30/2022	11.06	10.7	9.5	7.42	7.60	2.597	0.001		
3/31/2022	10.90			7.41	7.52	2.148	0.001		

Note:

Column E - pH Minimum; online

Column F - pH Maximum; online

*DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY*

LAVWMA - 1st Quarter 2022

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH (Actual)	pH Saturation	Langlier Index
01/11/22	754	19.6	128	372	7.5	7.2	0.2
02/08/22	728	18.7	126	376	7.4	7.2	0.2
03/22/22	732	20.6	116	328	7.4	7.3	0.1
MAXIMUM	754	20.6	128	376	7.5	7.3	0.2
MINIMUM	728	18.7	116	328	7.4	7.2	0.1
AVERAGE	738	19.6	123	359	7.4	7.3	0.2

*DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY*

DSRSD - 1st Quarter 2022

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH (Actual)	pH Saturation	Langlier Index
01/11/22	772	19.3	150	380	7.6	7.2	0.4
02/08/22	819	19.8	153	388	7.2	7.1	0.1
03/22/22	774	21.4	132	358	7.5	7.2	0.3
MAXIMUM	819	21.4	153	388	7.6	7.2	0.4
MINIMUM	772	19.3	132	358	7.2	7.1	0.1
AVERAGE	788	20.2	145	375	7.4	7.2	0.3

TABLE 10

CITY OF LIVERMORE
LIVERMORE WATER RECLAMATION PLANT

Langlier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (°C)	Ca Hardness (mg/L CaCO ₃)	Alkalinity (mg/L CaCO ₃)	pH (Actual)	pH Saturation	Langlier Index
01/06/22	633	19.0	79	351	7.6	7.6	0.0
02/02/22	650	18.0	83	369	7.6	7.5	0.0
03/04/22	630	19.0	82	333	7.6	7.6	0.0
MAXIMUM	650	19.0	83	369	7.6	7.6	0.0
MINIMUM	630	18.0	79	333	7.6	7.5	0.0
AVERAGE	638	18.7	81	351	7.6	7.6	0.0

LAVWMA Action Item List

Month: May-22

SAG Task	Responsible Party	Due Date	Status	Completion Date
Items for May/June 2022 LAVWMA Board Meeting.	SAG	NA	May 18, 2022 Meeting cancelled due to COVID issues and will be rescheduled. May 11, 2022 SAG meeting also cancelled and will be rescheduled. Primary items the FY2022/23 O&M and Capital Project Budget and updates on current capital projects.	
Operations Coordination Committee Task	Responsible Party	Due Date	Status	Completion Date
FYE21 Replacement Projects: See Items Below	Weir/Zavadil/Delight	Various dates	Refer to information below.	
MCC and Soft Starter Replacement Project. Carryover from FYE20 and into FYE21. Estimated design cost \$250,000. Project now includes Electrical Improvements to the Main Switchgear at the Pump Station. Total estimated cost \$2,300,000 - \$2,500,000.	Weir/Atendido	12/31/2021	Project is nearly complete. Remaining items are all punch list related and include some programming of instrumentation and controls. Anticipate completion before the end of this fiscal year.	Expected by 6/30/22
Purchase Three New Pumps and Rebuild Two Associated Motors. Estimated cost has increased to \$460,000	Weir/Quinlan	9/30/2022	A second submittal was received and reviewed by the design engineer. The last item to be included is the testing procedure. Once that is received the actual manufacture of the pumps can proceed.	9/30/2022
Resealing of all Three Storage Basins. Estimated cost \$200,000	Quinlan	12/31/2020	Project is complete. Some issues due to water getting under some of the seal areas. Area has been cleaned and all three basins are in service and will be fine through the winter. Solutions will be reevaluated after wet weather.	6/30/2021
San Leandro Sample Station Design Improvements. Estimated cost \$1,000,000 plus engineering costs of \$230,000 for a total of \$1,230,000	Weir	10/30/2022	The 75% design drawings, revised cost estimate, and technical specs were received May 9, 2022 and are under review by DSRSD staff. Livermore and Pleasanton are also welcome to review and comment.	10/30/2022
Road Drainage Improvements at the Pump Station. Estimated cost \$35,000	TBD	12/31/2020	To be combined with similar projects at DSRSD.	
Cathodic Protection Projects. Estimated cost \$185,000	Weir/Atendido	12/31/2020	Corrpro has completed most items that did not require any excavation. Permits have been received for three projects needing excavation and were provided to Corrpro. No word from Corrpro in the last several months.	
PLC Upgrade at the Pump Station. Estimated cost \$300,000	TBD	6/30/2021	Will be included in DSRSD SCADA project, which is design build. Project has begun. Scoping meetings with staff have been held and the project is still in development.	
Pipeline Inspection. Estimated cost \$100,000	TBD	6/30/2021	Scope will be based on the results and recommendations of the HydroScience (National Plant Services) inspection project. Inspection site selection will begin soon. A planning meeting with DRSD staff was held in early November. The project will likely occur after the rainy season.	
Smart Detectors on High Maintenance Air/Vac and Air Release Valves. Estimated cost \$40,000	TBD	6/30/2021	The smart detectors are intended to help prevent leaks from the valves along the forcemain system. Three have been installed for testing and have proven to be beneficial. Three additional units have been installed.	
Rewiring the actuators on the pump deck. Estimated cost \$50,000.	Atendido	12/31/2021	Royal Electric provided a change order estimate of \$10,500, which has been issued.	
Other Items				
Wet Weather Issues	Sevilla	10/31/2020	DSRSD Operations successfully managed the storm on October 24 and 25, 2021. The basins were emptied in advance of the storm. Both MCCs happened to be available. A maximum of seven pumps were run to send flow to EBDA. Operations has indicated that had MCC-P1 not been available they still would have been able to manage the storm through a combination of pumping and storage.	
Live test of SLSS system	Sevilla/Atendido	TBD	A test was conducted on November 3, 2021. There were no significant issues encountered during the test. The SLSS design engineer was on site and gathered valuable information that will assist in the upgrade design.	
Live test of Alamo Canal discharge during wet weather	Carson/Sevilla	TBD	Test postponed due to COVID-19. Was planning on this winter, but will likely be delayed until 2022 due to COVID-19.	
Wet Well Isolation Gates	Quinlan	6/30/2019	Gate is in good shape but won't fully close. No date set, perhaps this winter.	
EBDA Enterococcus Issue	Sevilla		No issues at this time.	
YTD O&M Expenses compared to budget	Carson, Weir	Ongoing	No issues at this time. PG&E switched Feeder B back to the old rate schedule and overcharged \$89,000, which has been credited back to LAVWMA.	

ITEM NO. 13 PROPOSED OPERATING AND CAPITAL BUDGET FOR FISCAL YEAR 2022/23

Action Requested

Approve the proposed Operating and Capital Budget for Fiscal Year 2022/23.

Summary

LAVWMA is required to adopt its fiscal year budget by June 30 each year. The proposed operating budget of \$3,680,345 is a 1.94% increase from the FY2021/22 budget. The total revenue requirement of \$10,726,455 is a 1.02% increase 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. Debt service for the Repair Project and the Expansion Project are a decrease of 10.69%. This decrease is due to the successful refunding process that was completed last year.

The annual deposit of \$400,000 to the Renewal & Replacement Fund (R&R) remains the same as last year. R&R Projects total \$2,326,000 and several are being carried over from last year. They are related to the purchase of three pumps and rebuilding their motors, design improvements to the San Leandro Sample Station, cathodic protection projects on the pipelines, replacement of valve actuators and flow meters, and additional pipeline inspection. Projects are based on recommendations from DSRSD staff. Additional detail is contained in the proposed budget document. The R&R Fund balance is slowly decreasing due the magnitude of projects and low interest rates. Once the major projects are completed a more thorough review of the R&R Fund will be undertaken. This is part of a larger Asset Management analysis that continues at an acceptable pace. The program will be matched to DSRSD's program that is concurrently being developed.

Like last year, this year's budget document includes Section 5.0 on Budget Trends based on past requests from the Board. The actual expenses for FY2022/23 are estimates based on data through April 30, 2022 and the approved expenses for FY2022/23 are as proposed in the budget. PG&E electrical costs at the pump station are for the full fiscal year. The Proposed Operating and Capital Budget for Fiscal Year 2022/23 is included as **Attachment No. 13.a**. The operating budget is largely based on DSRSD's detailed O&M Budget, which is included as **Attachment No. 13.b**. Staff will highlight budget items and answer questions at the Board meeting. The proposed budget has been discussed with the LAVWMA Staff Advisory Group.

Recommendation

It is recommended that the Board approve the proposed Operating and Capital Budget for Fiscal Year 2022/23.

Page 2

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
June 29, 2022

Attachments

13.a Proposed Operating and Capital Budget for Fiscal Year 2022/23.

13.b DSRSD Updated Proposed Operations & Maintenance Budget for Fiscal Year Ending 6/30/2023.



LIVERMORE-AMADOR VALLEY WATER MANAGEMENT AGENCY OPERATING AND CAPITAL BUDGET

FISCAL YEAR 2022/23

Approved by the LAVWMA Board _____

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 \$3,680,345 is a 1.94% increase from the FY2021/22 budget. The total revenue requirement of \$10,726,045 is a 10.69% 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 2.75% 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 7.52%, due to lower than budgeted labor costs.

LAVWMA FY2022/23 Budget

DSRSD's costs reflect a 2.75% 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.

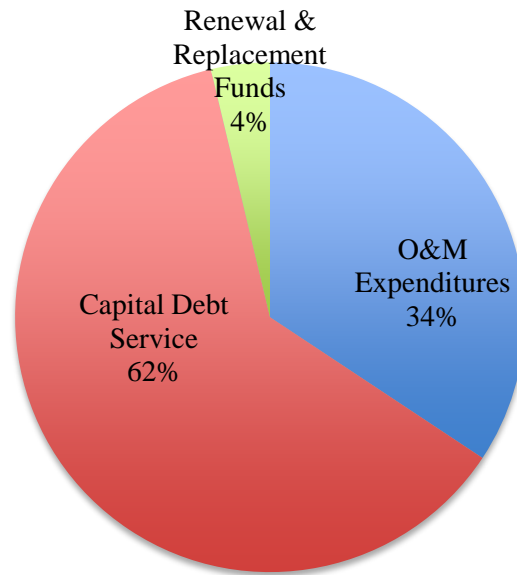
CAPITAL BUDGET

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 \$10,726,045 in total revenue requirements for FY2022/23, which is a decrease of 10.69% 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.

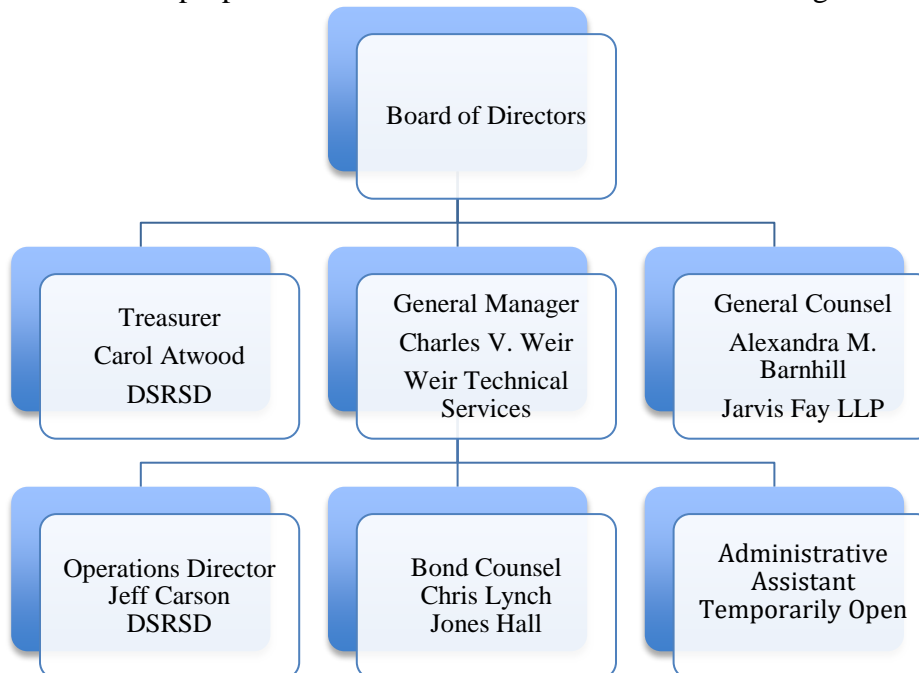
Agency Goals & Objectives

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.

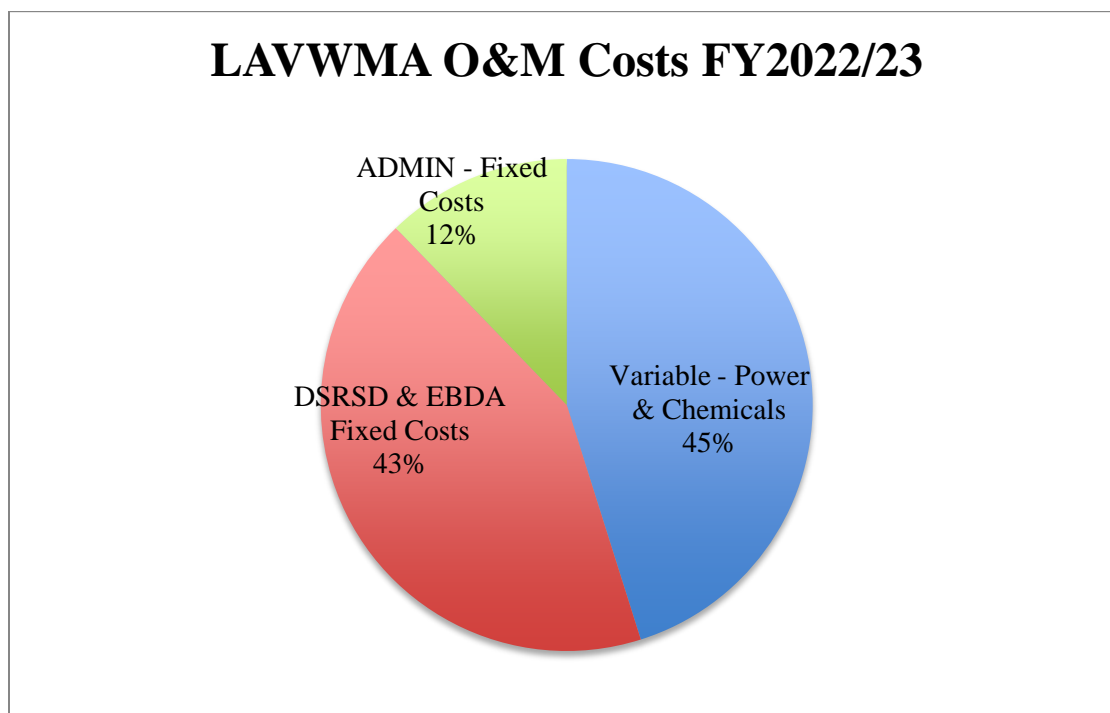
LAVWMA FY2022/23 Budget

FY2022/23 OPERATIONS BUDGET SUMMARY							
			FY2021/22 Adopted Budget	FY2021/22 Projected Actual	FY2022/23 Proposed Budget	Change From Adopted FY2021/22	
OPERATIONS AND MAINTENANCE							
VARIABLE COSTS							
		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%	
FIXED COSTS							
		DSRSD Maintenance Agreement					
		Labor	886,500	624,602	735,000	-17.09%	
		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	1,437,350	1,569,465	-9.05%	
ADMIN/MGMT							
		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	1,793,216	2,019,386	-8.61%	
TOTAL O&M COSTS			\$ 3,610,480	\$ 3,363,403	\$ 3,680,345	1.94%	
			FY2021/22 Proposed Budget	FY2020/21 Projected Actual	FY2021/22 Proposed Budget	Change From Adopted FY2020/21	
CAPITAL PROGRAM FUNDING							
		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%	
		SUBTOTAL	\$ 8,399,975	\$ 8,399,975	\$ 7,045,700	-16.12%	
TOTAL REVENUE REQUIREMENTS			\$12,010,455	\$11,763,378	\$10,726,045	-10.69%	

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, 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
Total	\$1,263,400	\$178,843

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 \$624,600. The proposed budget includes \$735,000 for DSRSD labor, which includes a 2.75% COLA and a 10.76% increase in the overhead rate. DSRSD's budget includes time for the pipeline inspection 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	LAVMWA Estimated Cost
General Administration	\$1,317,713	26.1%	\$338,509
Outfall & Forcemains	\$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
Total	\$3,032,771		\$752,183

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 \$484,100 as compared with \$468,400 last year or an increase of 3.65%. The increases are due to the following: 1) numerous capital projects requiring management and contract preparation; 2) review and probable negotiation for both the DSRSD maintenance agreement and the Joint Powers Agreement; 3) and a projected 20% increase in insurance costs. The overall increase is modest and is primarily related to the fact the DSRSD will be hiring an 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

FY2021/22 Capital Program Expenditures	
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
Total Expenditures	\$2,598,204

FY2022/23 Capital Program Expenditures		
Project	Description	Cost
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	<p>This project has evolved from what was described for last year's budget and is being carried over. It also now includes:</p> <ol style="list-style-type: none"> 1. 24-inch flow control valve 2. 20-inch flow control valve 3. Two 30-inch flow meters 4. Two chlorine residual analyzers 5. Miscellaneous piping and fittings to accommodate different pipe sizes 6. Improvements to the Programmable Logic Controller (PLC), Human Machine Interface (HMI), Supervisory Control and Data Acquisition System (SCADA), networking and programming <p>The SLSS station has to be designed to measure chlorine residual and monitor pH continuously. These parameters have to</p>	\$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. 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. Three tasks require permitting, excavation and traffic control and are in development. Total Coat = \$135,000. 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

FY2022/23 Capital Program Expenditures		
Project	Description	Cost
	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
Total Expenditures		\$2,650,000

2.3 Changes from FY2021/22 Budget

FY2021/22 expenditures are projected to come in approximately 6.84% below budget due to labor and management activities. The annual reconciliation process will resolve any over or under payments. The FY2022/22 Budget is 10.69% less than FY2021/22 in Total Revenue Requirement. Total O&M costs are 1.94% 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.

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

R&R Joint Use History				
Fiscal Year	Contributions	Interest	Expenses	Net
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)
Total	3,300,000	1,241,349	(8,209,628)	(3,668,279)

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.

FY2022/23 Capital Program Expenditures *Carryover	
*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	\$2,650,000

4.0 FY2022/23 Member Agency Cost Sharing & Schedule

Member Agency Costs FY2022/23					
	Total	Livermore	DSRSD/Pleasanton	DSRSD	Pleasanton
Variable O&M	\$ 1,660,959	\$ 581,336	\$ 1,079,623		
Fixed O&M	1,994,386	600,310	1,394,076		
Sole Use Fixed O&M	25,000	25,000			
Total O&M	3,680,345	1,206,646	2,473,699		
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		
Total Revenue Required	\$ 10,726,045	\$ 3,176,489	\$ 7,549,556		
Semi Annual O&M Advance	1,840,173	603,323	1,236,850		
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	\$ 7,680,973	2,233,311	5,447,661		
Total January 1 Advance	\$ 3,045,073	\$ 943,178	\$ 2,101,894		
Percentages					
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 – FY2021/22

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

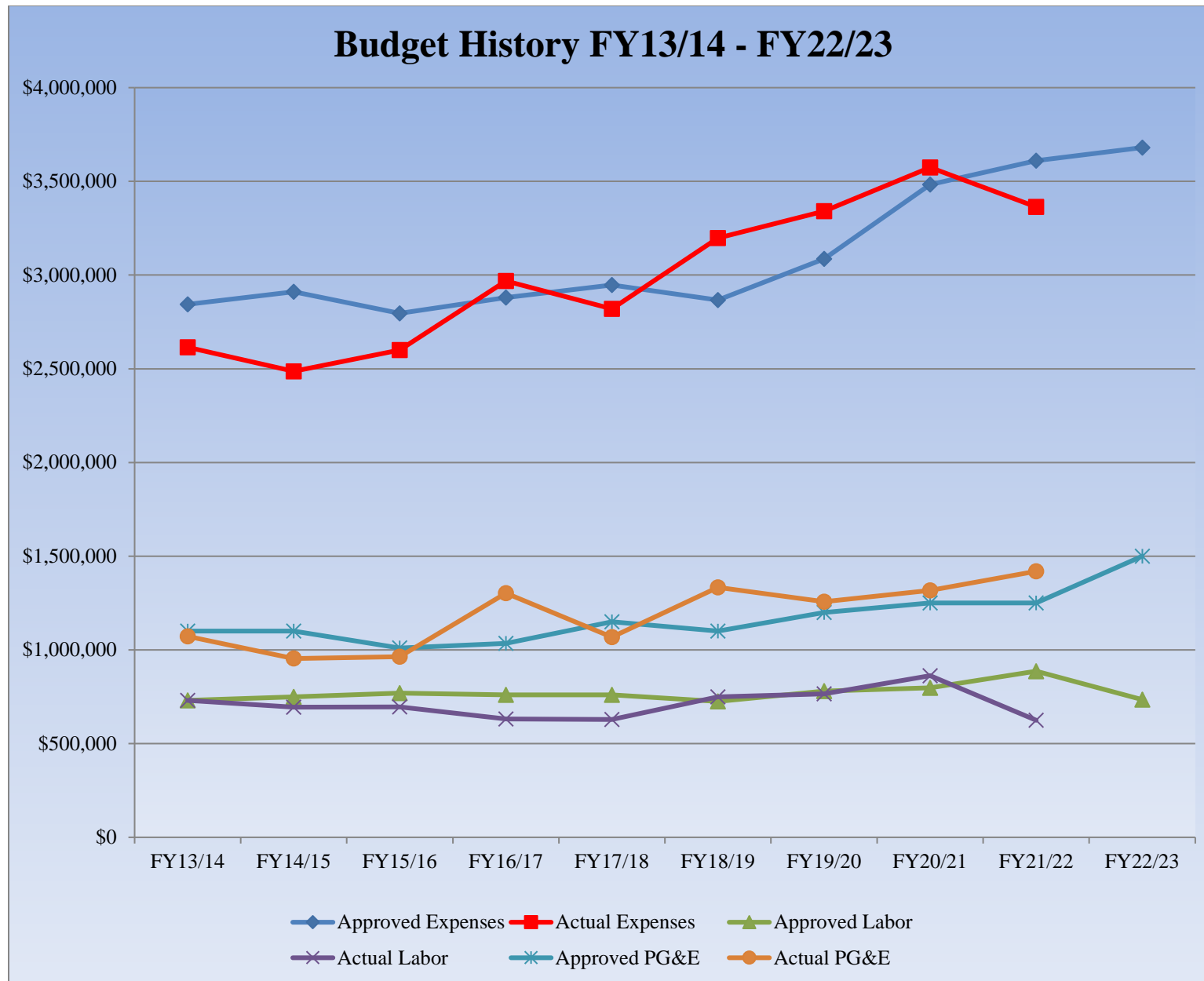
- Approved versus actual expenses for total expenses, labor costs, and PG&E power
- Estimated versus actual export flow
- Estimated versus actual cost per million gallons

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

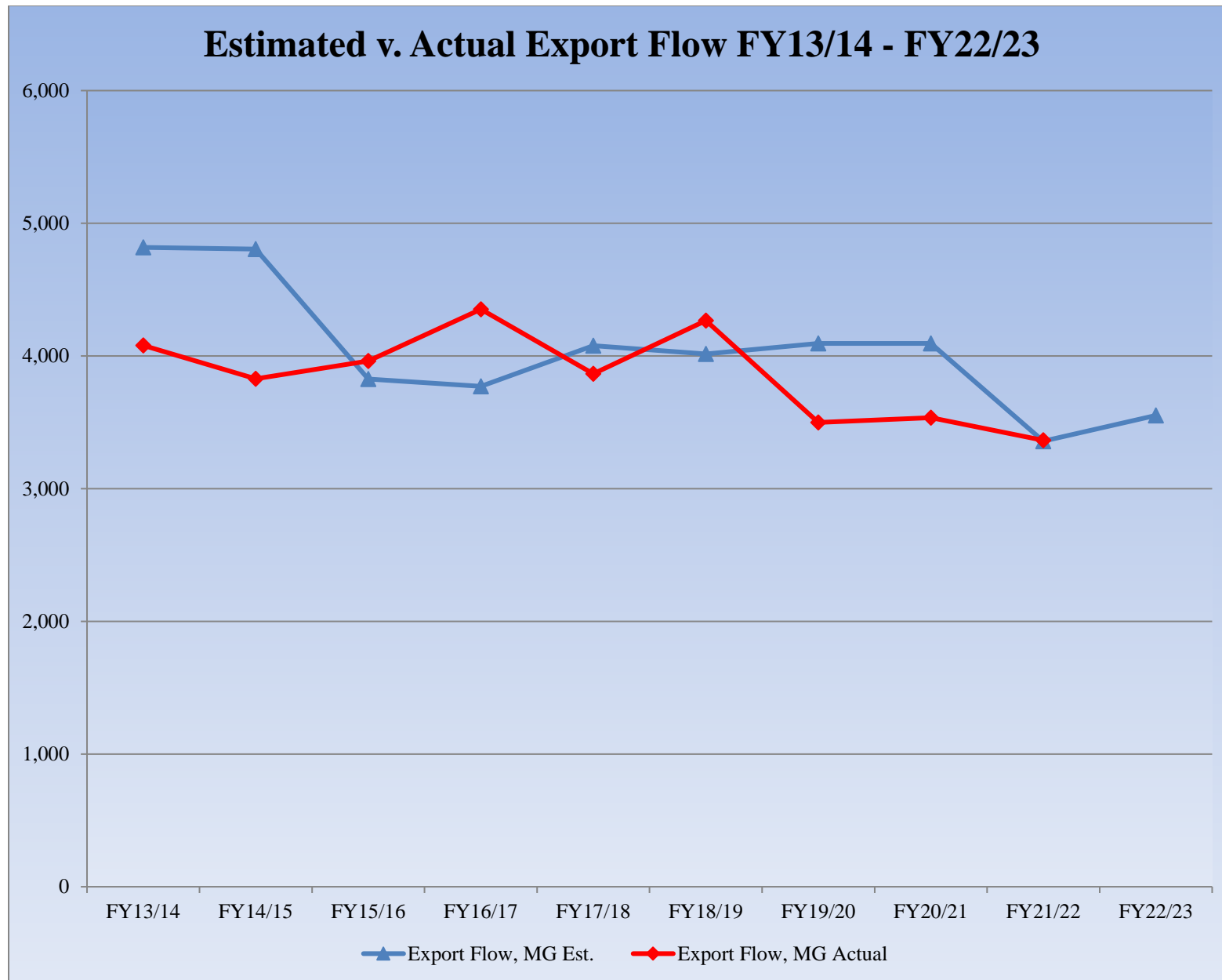
LAVWMA FY2022/23 Budget

electrical cost for just pumping over the Dublin Grade is approximately \$373/MG, while the full disposal cost, including EBDA costs is approximately \$1,100. 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.

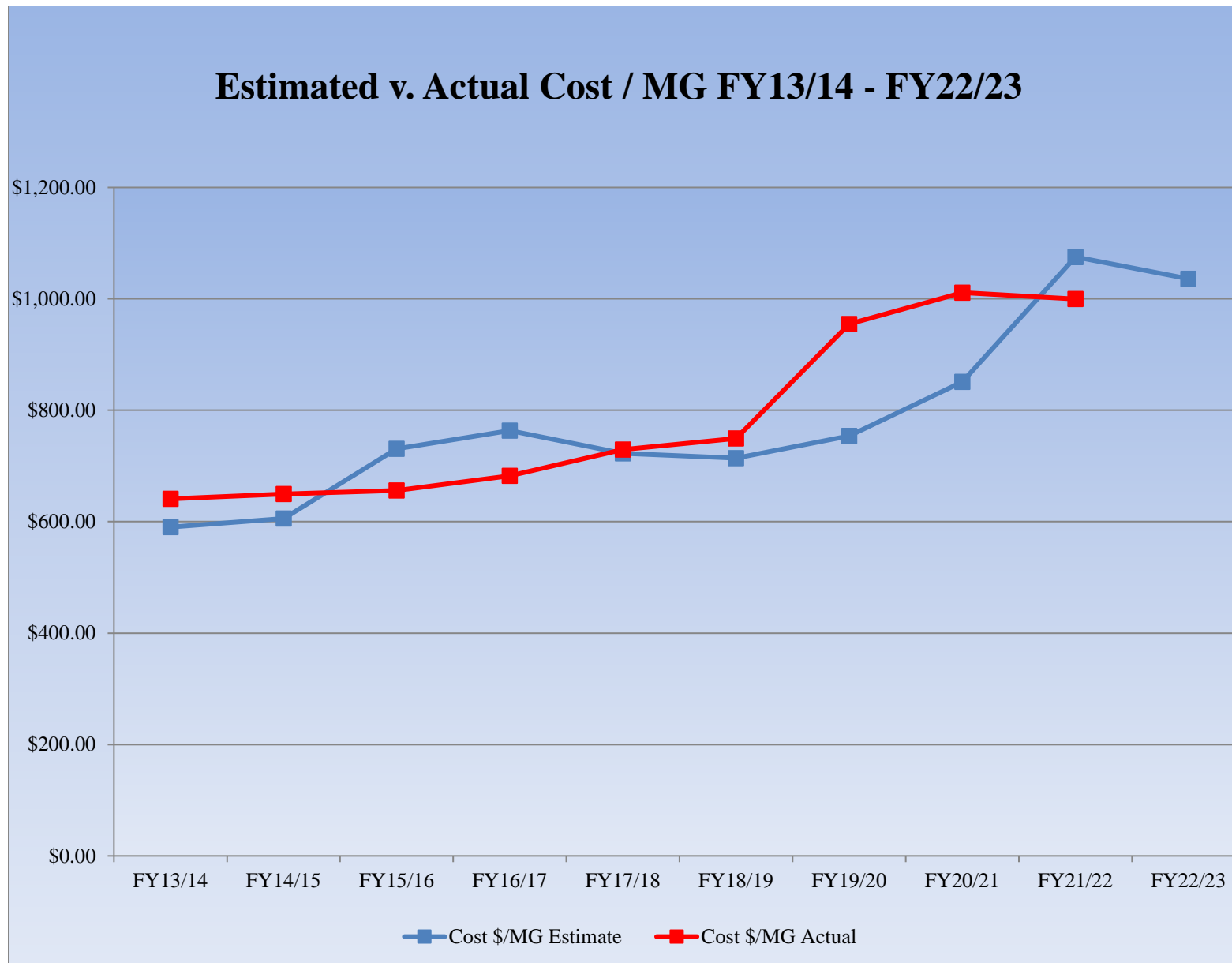
LAVWMA FY2022/23 Budget



LAVWMA FY2022/23 Budget



LAVWMA FY2022/23 Budget





Regional Wastewater Treatment Facility
7399 Johnson Drive
Pleasanton, CA 94588-3862

main (925) 846-4565
fax (925) 462-0658
www.dsrds.com

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 (FYE 2022) and July 1, 2022 – June 30, 2023 (FYE 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

LAVWMA Proposed FYE 2021 O&M Budget
 March 22, 2022
 Page 2 of 2

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

[https://dsrsd-my.sharepoint.com/personal/lathi_dsrsd_com/Documents/LAVWMA BUDGET \(copy\)/FYE 2023 Update/Proposed LAVWMA O&M Budget FYE 2023 update - cover letter.docx](https://dsrsd-my.sharepoint.com/personal/lathi_dsrsd_com/Documents/LAVWMA%20BUDGET%20(copy)/FYE%2023%20Update/Proposed%20LAVWMA%20O&M%20Budget%20FYE%2023%20update%20-%20cover%20letter.docx)

FY 2022-2023 LAVWMA OPERATION & MAINTENANCE BUDGET

SUMMARY:			
	Total	Pumping	Pipeline
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
Total	\$2,861,289	\$2,211,234	\$650,055

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

Detailed Breakdown:

	Hours	Rate	Labor	Pumping	Pipeline
LABOR					
DIVISION 51 - Field Operations					
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
DIVISION 52 - WWTP					
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
DIVISION 53 - Mechanical					
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
DIVISION 54 - Electrical					
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
DIVISION 56 - Safety					
Safety Officer	60	\$129	\$7,711	\$3,856	\$3,856
Subtotal	60		\$7,711	\$3,856	\$3,856
DIVISION 40 - Engineering					
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
Total Labor FTE's	5,800		\$1,161,350	\$662,589	\$498,760
	2.8				

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

Attachment 1

2-YEAR MID-CYCLE UPDATE

FY 2022-2023 LAVWMA OPERATION & MAINTENANCE BUDGET

	<u>Expense</u>	<u>Pumping</u>	<u>Pipeline</u>
<u>MATERIALS & SUPPLIES</u>			
Operations Supplies			
Calcium Thiosulfate dechlorinating agent	\$12,600	\$6,300	\$6,300
Supplies/Expenses (misc)	\$1,050	\$525	\$525
Subtotal	\$13,650	\$6,825	\$6,825
Mechanical Supplies			
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
Electrical Supplies			
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
Total Materials & Supplies	\$89,397	\$56,910	\$32,487
<u>LABORATORY ANALYSIS</u>			
Compliance Testing	\$10,500	\$8,400	\$2,100
Operational Support Testing	\$4,200	\$0	\$4,200
Special Sampling	\$23,100	\$0	\$23,100
Total Laboratory Analysis	\$37,800	\$8,400	\$29,400
<u>CONTRACTUAL SERVICES</u>			
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
Termite/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
Total Contractual Services	\$134,243	\$54,075	\$80,168
<u>UTILITIES</u>			
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
Total Utilities	\$1,438,500	\$1,429,260	\$9,240
TOTAL O&M BUDGET (LABOR, MATERIALS & SERVICES)	\$2,861,289	\$2,211,234	\$650,055

Attachment 2

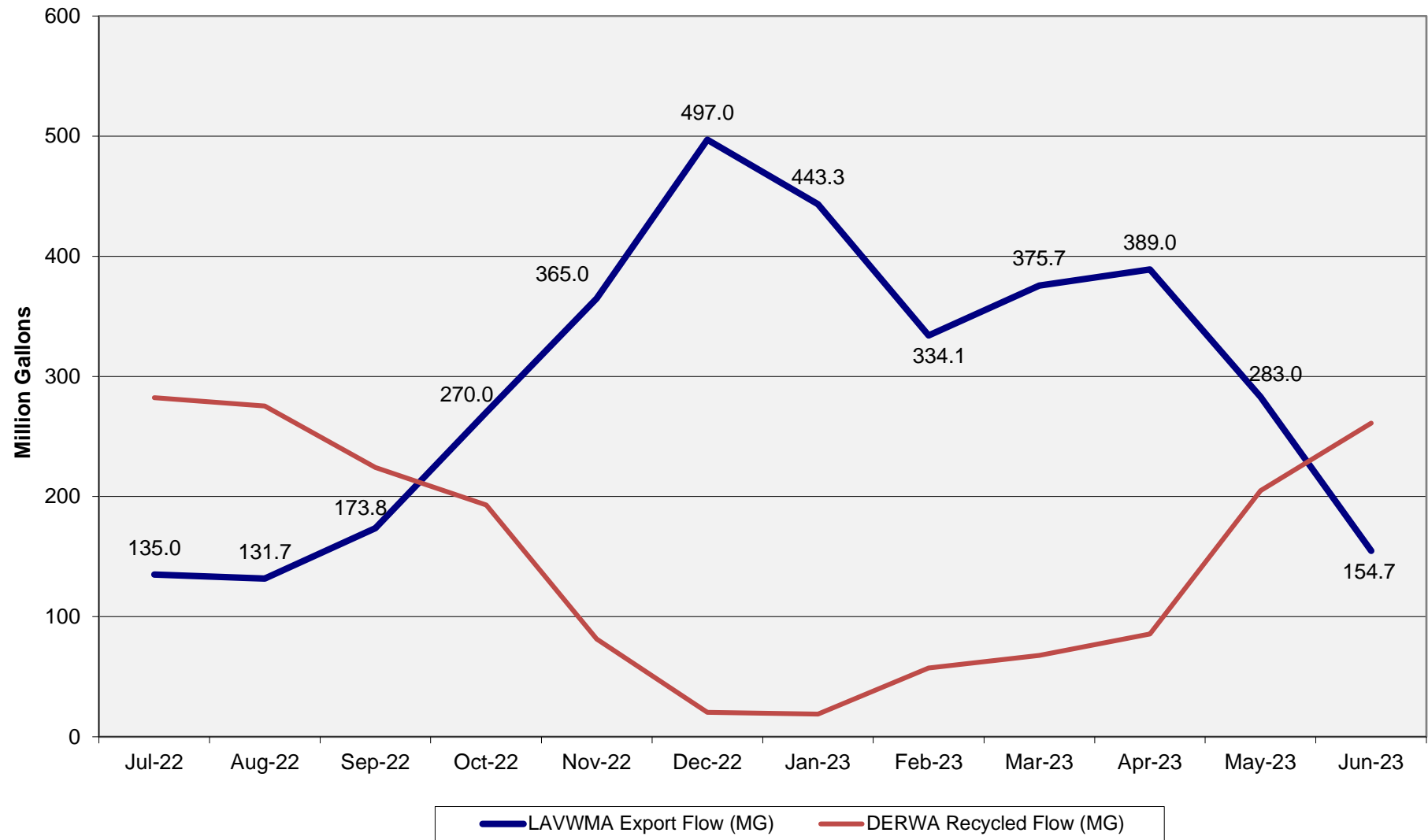
LAVWMA LABOR HOURS ESTIMATES

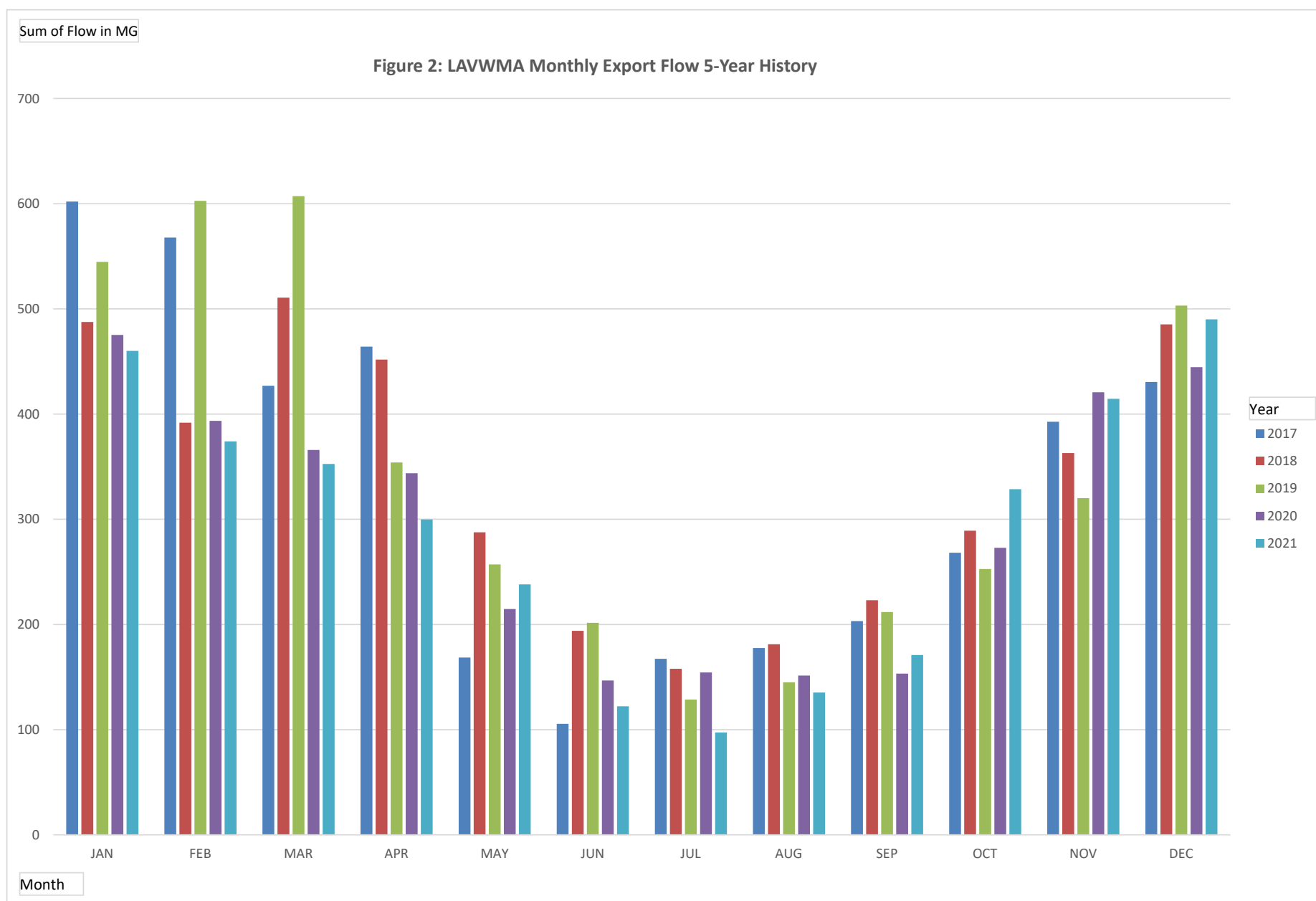
USED FOR BOTH
FYE 2022 & FYE 2023

PERSONNEL

Division 51 - Field Operations (Distribution)		40
Water-Wastewater Sys OP IV	TV inspection of export pipe, 1/2 day/year, 2 Operators	10
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		3080
Process Lead Operator V	Pump efficiency testing and SOP's, planning, inspections	150
Senior WWTP Operator III	Spot checks on off-shifts and weekends + hours for storms	100
Senior WWTP Operator III	Daily pump station operation/monitoring, 3 hrs/day 5 days per week	620
WWTP Operator II	General tasks	1700
WWTP Operator in Training	General tasks	400
Supervisor	Inspections/direction of staff and activities, 2 hours/week	110
Division 53 - Mechanical Maintenance		1230
Senior Mechanic-Crane Cert	Regular maintenance, 4 hrs/day, 2 days per week	60
Senior Mechanic (USA)	USA Marking, when other trained employees are not available	80
Mechanic II	PM's and misc repairs, as needed	320
Mechanic II (USA)	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	50
Division 54 - Electrical & Instrumentation Maintenance		1130
Senior Instrument/Controls Tech	Instrument replacement/SCADA troubleshooting	30
Instrument Tech	Instrument checks/calibration	300
OPS Control Sys Spec	SCADA system repairs/programming	300
Senior Electrician	Switchgear & electrical inspections and repair	30
Electrician	Switchgear & electrical inspection/repairs	440
Supervisor	Inspections/direction of staff and activities	30
Division 56 - Safety		60
Safety Officer	Special safety inspections of LAVWMA facilities	60
Division 40 - Engineering		260
Senior Civil Engineer-SME	Assistance with engineering, maintenance, and bidding issues	100
Construction Inspector I	Project construction inspection	80
Engineering Tech II	Plan checks on LAVWMA lines	40
GIS Analyst II	Plan checks on LAVWMA lines	40
TOTAL BILLABLE LABOR HOURS		5800
FTE's		2.79

Figure 1
FY 2022-2023 Flow Projection
Total 3552.23 MG





Page 1

Agenda Explanation
 Livermore-Amador Valley
 Water Management Agency
 Board of Directors
 June 29, 2022

ITEM NO. 14 PROJECT STATUS REPORTS - MOTOR CONTROL CENTER REPLACEMENT PROJECT, PURCHASE OF THREE VERTICAL TURBINE PUMPS, AND THE SAN LEANDRO SAMPLE STATION IMPROVEMENTS PROJECT

Action Requested

None at this time.

Summary

The Board previously authorized both the Motor Control Center Replacement Project (MCC Project), Purchase of Three Vertical Turbine Pumps, and the San Leandro Sample Station Improvements Project (SLSS Project). Each project is discussed in more detail below.

MCC Replacement Design and Construction Project Status

DTN Engineers is the design engineer, Royal Electric is the contractor, and Psomas is the construction manager. All of the new equipment has been installed and became fully operational in November 2021. There are still a few items to complete related to instrumentation and control settings which should be addressed in the next few weeks. This effort is being completed by Eaton Electric, a sub-contractor to Royal Electric. Eaton is the manufacturer of the MCC equipment. There have been four contract change orders for a total of \$34,738 or 1.68% of the \$2,222,222 contract price.

Purchase of Three Vertical Turbine Pumps

After bidding issues were resolved, Trillium was selected to provide the three new vertical turbine pumps at a total cost of \$357,057. There were some delays in getting the submittals, but manufacturing of the pumps is now underway. The three pumps are to be delivered by December 16, 2022. Trillium has been informed that it is acceptable to deliver the pumps individually and they need not wait until all three are completed. The last item to be scheduled are dates for witness attendance at the pump testing. DSRSD staff and the pump engineering consultant, Tom Hendrey, will attend. The General Manager may also attend.

San Leandro Sample Station Improvements Project

HydroScience Engineers (HS) is the design engineer for this project. Their contract is for \$185,000. The original estimate for the construction cost was \$485,000. HS held a kick off meeting with DSRSD staff that included a site visit. In addition, HS attended the test of the system pursuant to the NPDES permit on November 3, 2021. The estimated construction cost has increased to \$730,000 as was reported at the last meeting. Engineering scope has been added to the project since it was first developed and prices have increased for many major items.

Increasing the scope of the project has also increased the scope of the engineering services required. HydroScience submitted a request to increase their cost by \$44,800 above the original

Page 2

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
June 29, 2022

cost of \$185,000, or by 24.2%. This was approved by the Board at the February 16, 2022 meeting.

HydroScience delivered the 75% plans and specs on May 10, 2022. DSRSD and LAVWMA staff are still in the process of reviewing them. Comments will be returned to HydroScience by the end of June 2022.

Recommendation

There are no recommendations at this time.

Attachments

None

Page 1

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
June 29, 2022

ITEM NO. 15 REGIONAL PURIFIED WATER PILOT PROJECT**Action Requested**

None at this time. The Board may wish to provide input to staff to share with DSRSD.

Summary

Due to the ongoing drought, water agencies have been reviewing options to increase their water resilience. DSRSD has been working with the Alameda County Water District (ACWD) on a Regional Purified Water Pilot Project. DSRSD has been discussing the project with LAVWMA and its member agencies for several months. The DSRSD Board received an update at its May 10, 2022 Board meeting. Staff is keeping the LAVWMA Board informed since the project location may be adjacent to what is known as the junction structure near the pump station. LAVWMA is not participating financially in the project. Two items are provided for the Board's information:

1. Regional Purified Water Pilot Project Fact Sheet.
2. DSRSD May 10, 2022 Staff Report from their Annual Long-Term Water Resiliency workshop, which includes a PowerPoint presentation on the Regional Purified Water Pilot Project.

It is recognized that recycled water will be critical to California water agencies as they attempt to respond to ongoing drought conditions. The proposed project will provide much needed information to East Bay agencies as they continue to research options to address drought issues.

Recommendation

There are no recommendations at this time. Any questions from the Board will be shared with DSRSD staff.

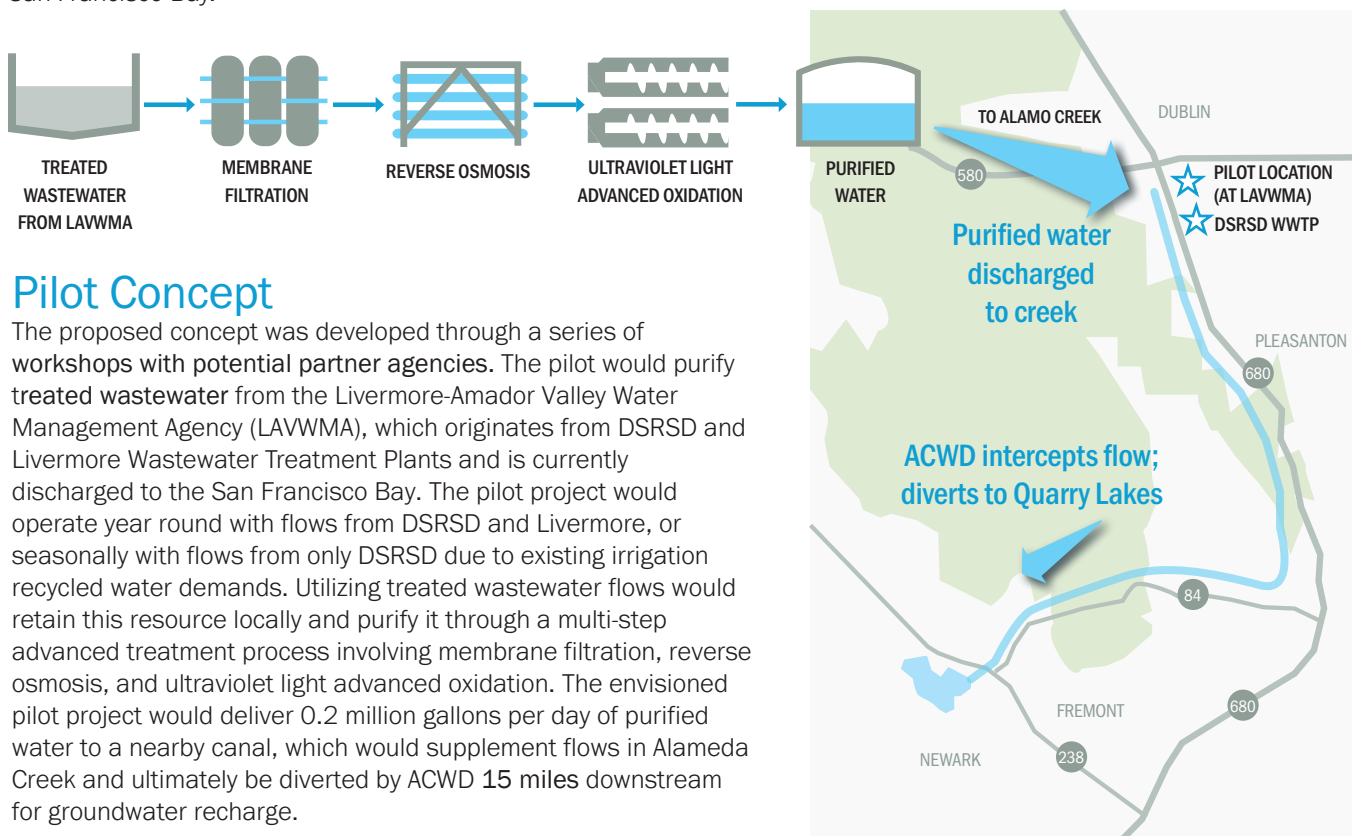
Attachments

1. Regional Purified Water Pilot Project Fact Sheet.
2. DSRSD May 10, 2022 Staff Report from their Annual Long-Term Water Resiliency workshop, which includes a PowerPoint presentation on the Regional Purified Water Pilot Project.

Regional Purified Water Pilot Project

Dublin San Ramon Services District (DSRSD) and Alameda County Water District (ACWD) are studying the potential to develop a purified water pilot project in collaboration with other Bay Area water and wastewater agencies. The pilot would leverage existing resources and infrastructure to demonstrate and build public awareness around the benefits of purified water and regional collaboration.

Purified Water is one of multiple water supply options being explored by Bay Area agencies to improve long-term water resiliency for the region. Purified water is produced using advanced treatment technologies to purify treated wastewater effluent to a high quality that is suitable for augmenting drinking water sources. Purified water is a new, locally available and sustainable supply that makes use of a resource that would otherwise be discharged to San Francisco Bay.

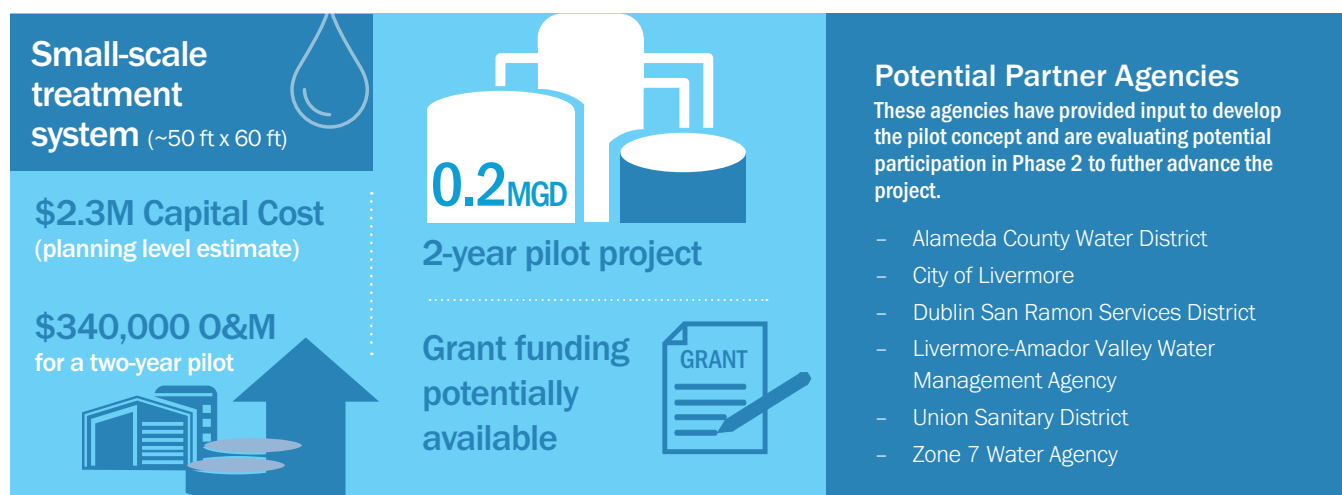


Pilot Concept

The proposed concept was developed through a series of workshops with potential partner agencies. The pilot would purify treated wastewater from the Livermore-Amador Valley Water Management Agency (LAVWMA), which originates from DSRSD and Livermore Wastewater Treatment Plants and is currently discharged to the San Francisco Bay. The pilot project would operate year round with flows from DSRSD and Livermore, or seasonally with flows from only DSRSD due to existing irrigation recycled water demands. Utilizing treated wastewater flows would retain this resource locally and purify it through a multi-step advanced treatment process involving membrane filtration, reverse osmosis, and ultraviolet light advanced oxidation. The envisioned pilot project would deliver 0.2 million gallons per day of purified water to a nearby canal, which would supplement flows in Alameda Creek and ultimately be diverted by ACWD 15 miles downstream for groundwater recharge.

Key Benefits of Purified Water Pilot

- Provides an **interactive public outreach opportunity**.
- Demonstrates the **safety and effectiveness of purified water technology**.
- **Collects data to inform future** full-scale regional purified water project options.
- Promotes **regional collaboration**.
- **Leverages existing infrastructure and makes use of wastewater** currently discharged to San Francisco Bay.

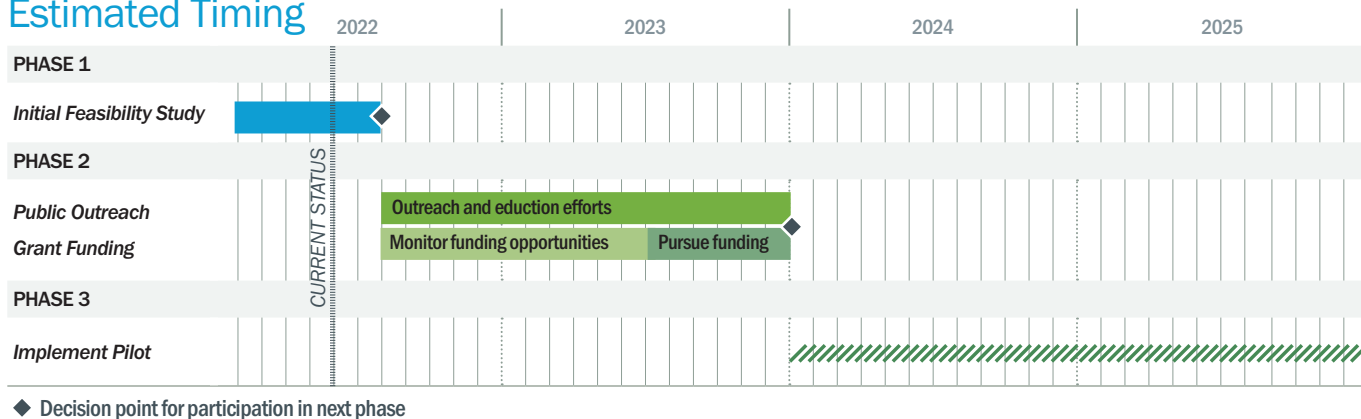


Public Outreach and Education

The pilot would be designed to enable public tours and other interactive outreach components—such as displaying real-time water quality data and producing purified water on-site.

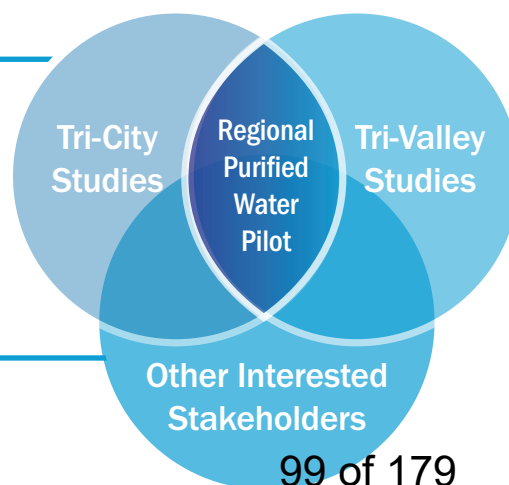


Estimated Timing



Regional Collaboration

The purified water pilot would bring together partners currently involved in other ongoing regional efforts and build upon both the Tri-City and the Tri-Valley studies. The purified water pilot would benefit these ongoing efforts and the broader region by performing public outreach and education and collecting data to inform future full-scale reuse efforts and/or water transfer or exchange partnerships in the Bay Area.





TITLE: Annual Long-term Water Resiliency Workshop

RECOMMENDATION:

Staff recommends the Board of Directors receive a presentation on long-term water resiliency efforts and provide direction.

DISCUSSION:

In April 2021, the Board approved the Water Resiliency policy (Attachment 1) to guide DSRSD efforts to build a resilient and sustainable water future for DSRSD customers. The Water Resiliency policy emphasizes the need for collaborative partnerships, advocates for an “all of the above” approach to exploring projects that build water resiliency for the Tri-Valley, and prioritizes local and sustainable water projects that contribute to regional self-reliance. To meet the objectives of the District’s Water Resiliency policy, the District’s Strategic Plan identifies the following specific goals:

- Pursue new supplies to meet long-term recycled water demands
- Work collaboratively with our Tri-Valley partners in the development of a more diversified and resilient water supply
- Build public awareness of long-term water supply challenges and opportunities

In June 2021, the District finalized the [2021 Alternative Water Supply Study: A Framework for a Resilient and Sustainable Water Future](#) (2021 AWSS). The 2021 AWSS includes a high-level assessment of regional and local supply alternatives that DSRSD could explore collaboratively with other neighboring water and wastewater agencies. The results of the 2021 AWSS were used to develop a recommended framework that outlines near-term and long-term strategies and informs and guides DSRSD advocacy and collaborative efforts (Attachment 2).

On May 10, 2022, the Board will receive a presentation (Attachment 3) on long-term water resiliency efforts and progress made towards implementing the 2021 AWSS framework and Strategic Plan goals. The presentation will include updates on the following efforts:

- Zone 7 Long-term Water Projects – Zone 7 Water Agency is currently exploring new water supply, storage, and conveyance projects to increase the long-term resiliency of the Tri-Valley’s water supplies. The 2021 AWSS framework recommends supporting Zone 7’s efforts and advocating for continued participation in the Los Vaqueros Reservoir Expansion and Transfer Bethany Pipeline Project and evaluating Sites Reservoir in combination with Delta Conveyance.
- Regional Purified Water Pilot Project – As identified in the 2021 AWSS, the District and Alameda County Water District are studying the potential to implement a purified water pilot project. A summary of the project concept is provided as Attachment 4.
- Supplemental Recycled Water Supplies – The District is continuing to pursue opportunities to increase non-potable supplies needed to expand the recycled water program.
- Tri-Valley Water Supply Reliability Information Program – Zone 7, in collaboration with the retailers, is developing and implementing a program to educate the Tri-Valley residents and businesses on the region’s water supply challenges and potential solutions.

Originating Department: Office of the General Manager	Contact: J. Lee	Legal Review: Not Required
Financial Review: Not Required	Cost and Funding Source: N/A	
Attachments: <input type="checkbox"/> None <input type="checkbox"/> Resolution <input type="checkbox"/> Ordinance <input type="checkbox"/> Task Order <input type="checkbox"/> Proclamation <input checked="" type="checkbox"/> Other (see list on right)	Attachment 1 – Water Resiliency Policy Attachment 2 – 2021 AWSS Recommended Framework Attachment 3 – Annual Long-term Water Resiliency Presentation Slides Attachment 4 – Regional Purified Water Pilot Project Summary	



**Dublin San Ramon
Services District**

Water, wastewater, recycled water

Regional Purified Water Pilot Project

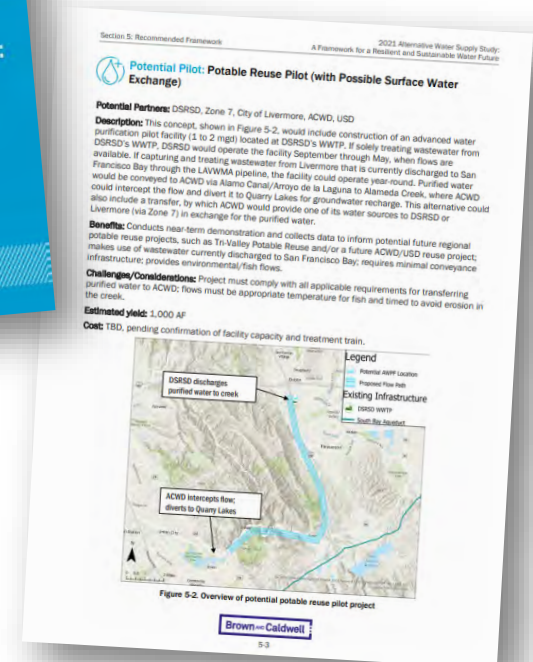
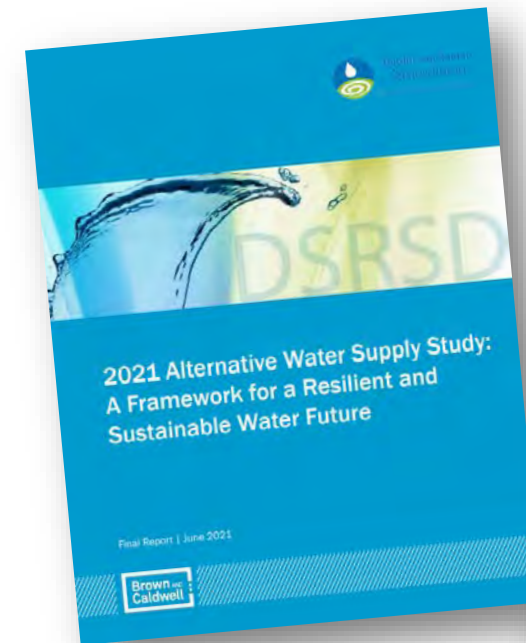
DSRSD Board Workshop – May 10, 2022

Brown AND Caldwell :

Agenda

1. Background
2. Proposed Pilot Concept
3. Cost and Funding Opportunities
4. Public Outreach
5. Next Steps

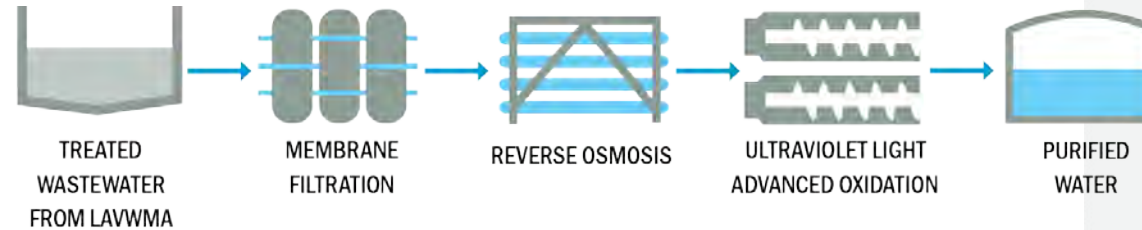
- 2021 AWSS recommended exploring a near-term pilot in collaboration with ACWD and other potential partners
- Purpose of initial feasibility study (nearing completion):
 - Explore feasibility of purified water pilot
 - Engage potential partner agencies
 - Outline technical, regulatory, institutional, and financial considerations
 - Identify potential funding opportunities
 - Recommended next steps



Proposed Pilot Concept

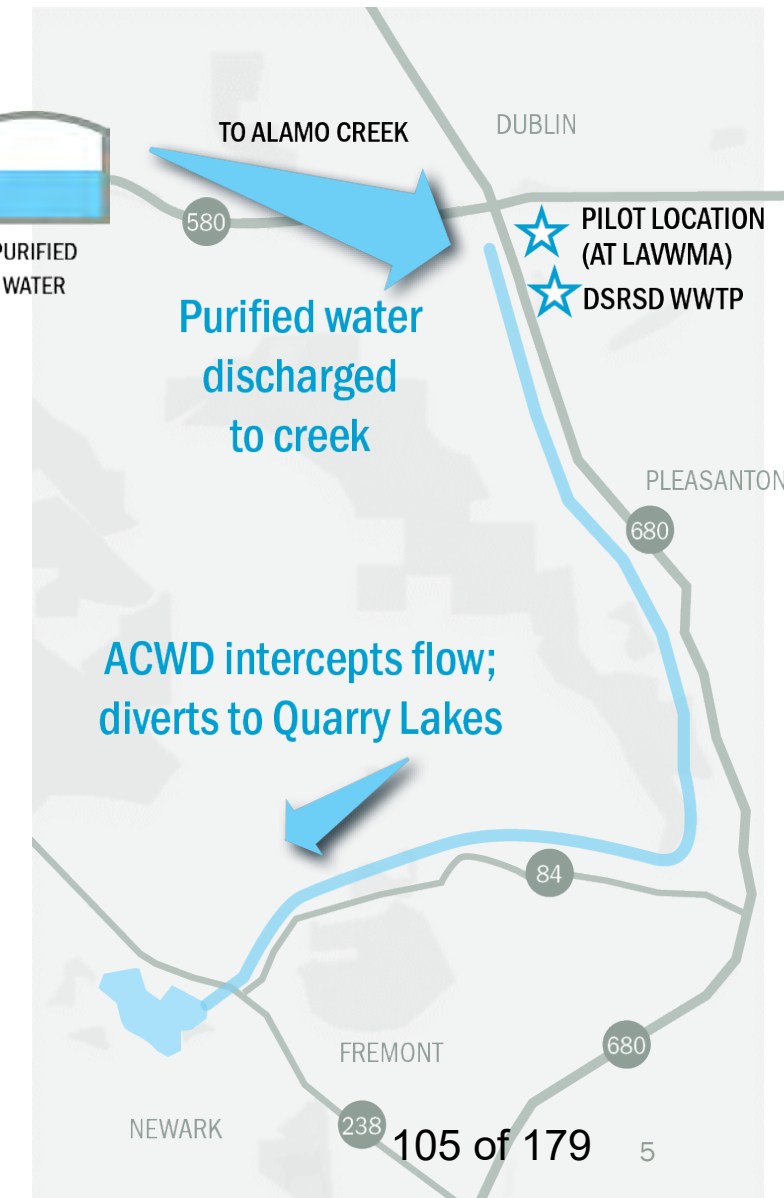
Regional Purified Water Pilot Concept

Small, temporary
advanced treatment
system at LAVWMA:



Pilot project would...

- Produce up to **0.2 mgd of purified water** from secondary effluent currently discharged to SF Bay
- Deliver purified water to **supplement flow in Alameda Creek**
- Allow ACWD to divert flow downstream for **groundwater recharge**



Benefits of Pilot Project and Similar Systems



Public outreach and education



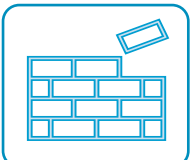
Demonstrates purified water technology



Data collection



Promotes regional collaboration



Leverages existing infrastructure

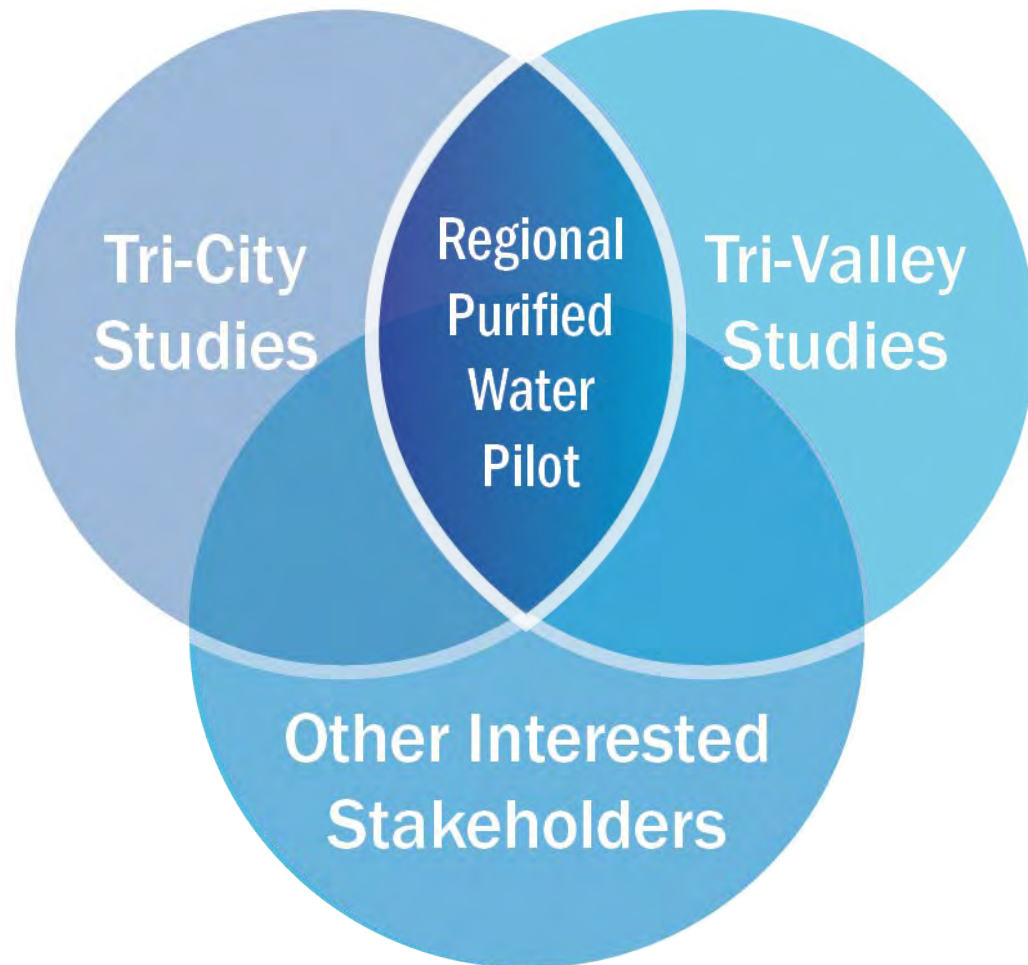


Ventura, CA



Xylem MiPro containerized O3/BAF and UV AOP system

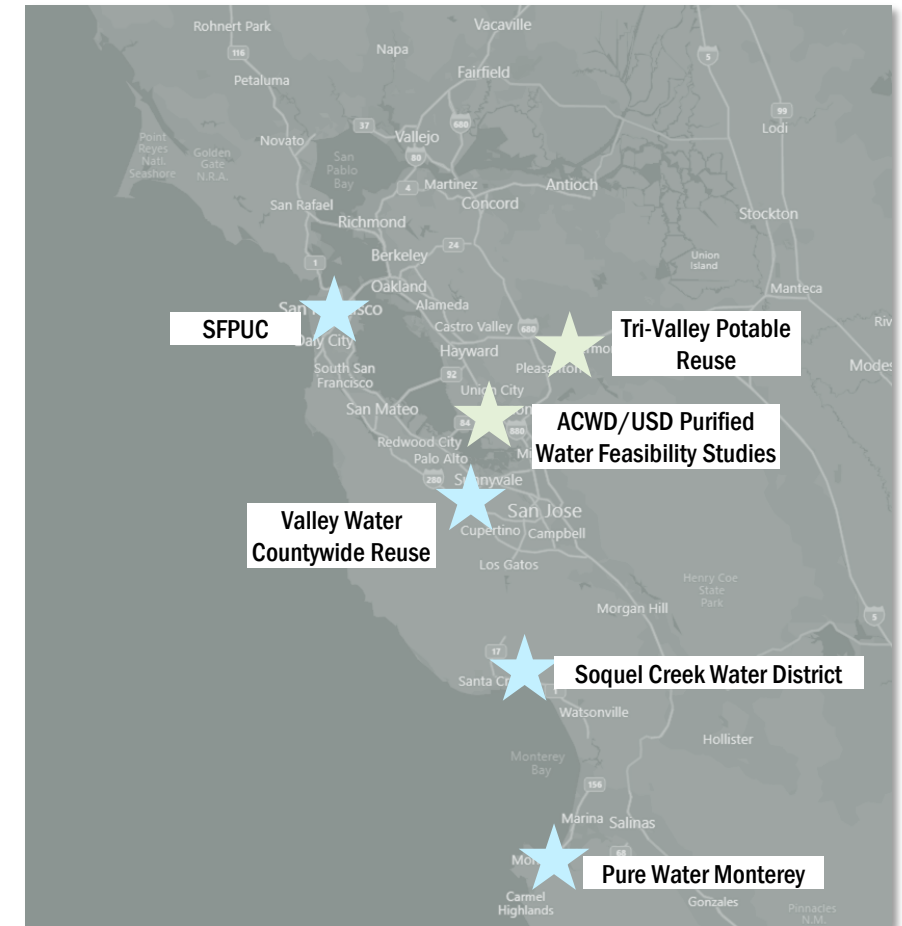
Pilot Complements Other Regional Efforts



Potential Future Full-Scale Opportunities

- Tri-Valley Potable Reuse
- ACWD, SFPUC, and USD Purified Water Project
- Scale up pilot – purified water to Alameda Creek with possible surface water exchange (via Zone 7)
- Possible hybrid option

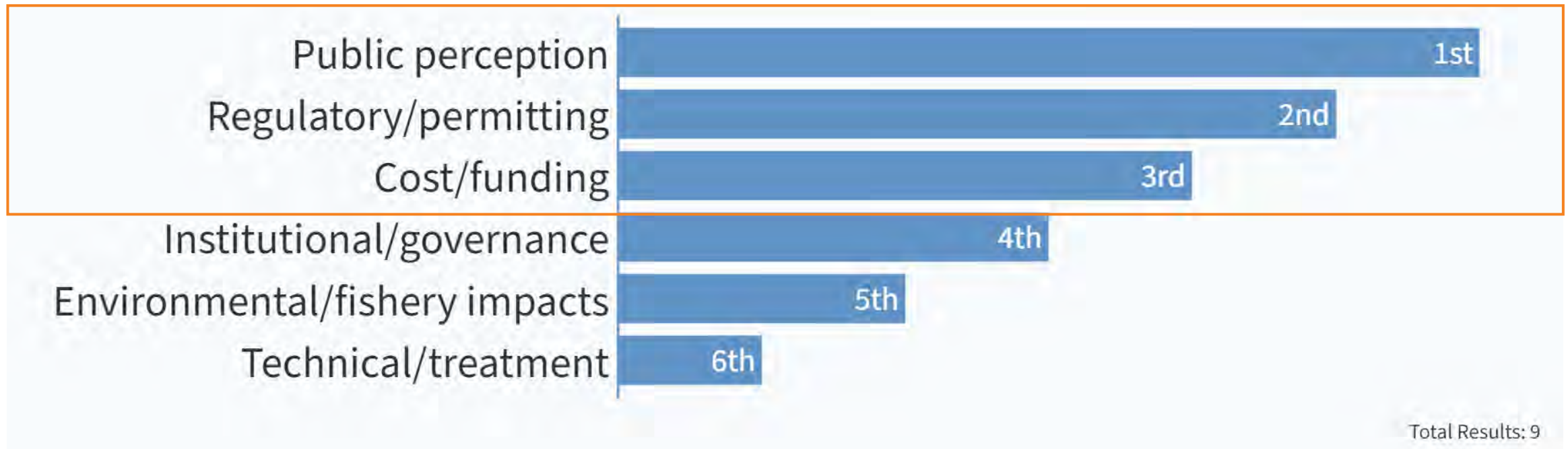
Examples of other ongoing potable reuse efforts in the Bay Area:



Partner Workshops & Input

- Four workshops with potential partner agencies held between September and March
- Partners provided feedback on draft pilot concept, noting that public perception and permitting are top success factors for potable reuse projects

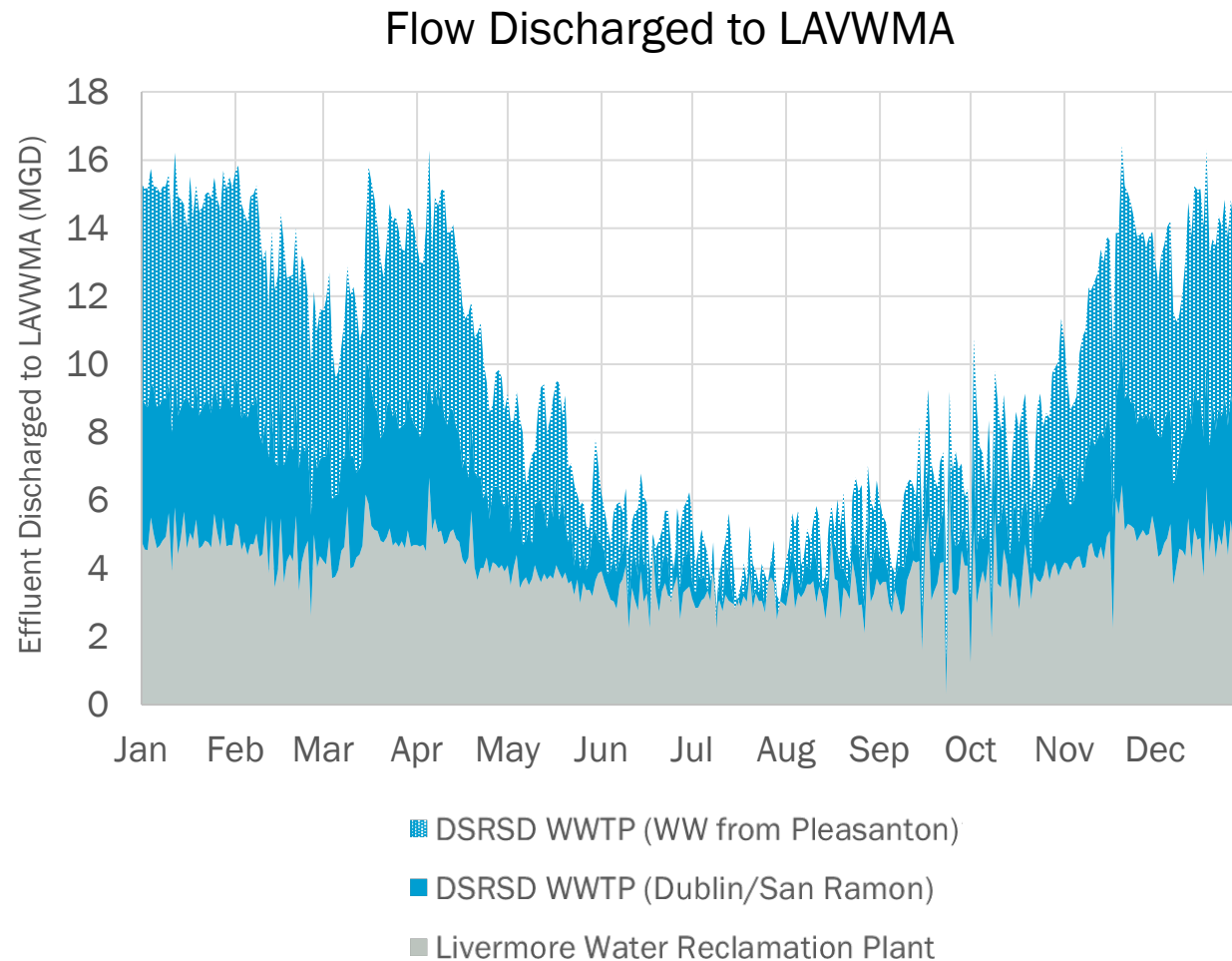
Poll results from partner agency workshop - ranked success factors from 1 (most important) to 6 (least important)



- Adjacent to LAVWMA Junction Structure, where secondary treated wastewater from DSRSD and Livermore combine
- Proximity to existing utilities, channel, and visitor access/parking
- Expected pilot footprint: ~50 x 60 ft (room for public tours)
- Would operate over two years
- Waste streams delivered back to DSRSD's WWTP



Supply Source for Pilot

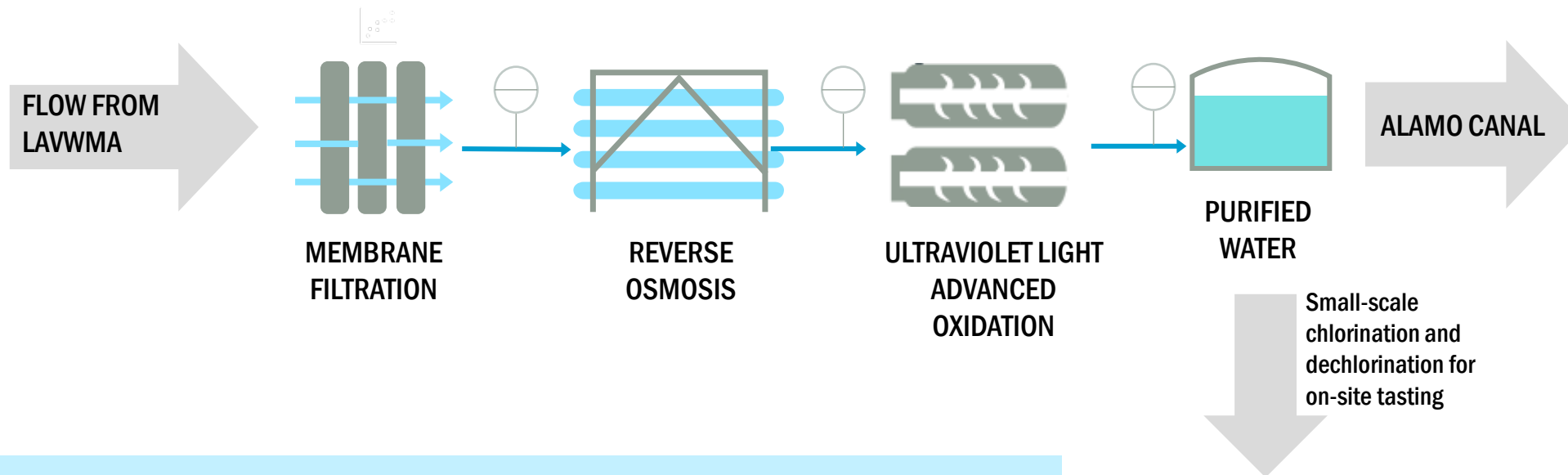


Pilot would operate year-round with flows from DSRSD & Livermore, or seasonally with flows from only DSRSD (due to existing irrigation recycled water demands in the summer months)

Recommended Treatment Train



Full advanced treatment (typical for groundwater augmentation)



Purified water would be monitored for typical drinking water parameters, plus flow and temperature (relative to receiving water body).

- Once delivered to the canal, purified water would blend with runoff and other flow in Alameda Creek
- ACWD would intercept the flow downstream and divert it to Quarry Lakes for groundwater recharge



Regulatory Pathways for Pilot (NPDES Discharge Options)

- Regional Board discretionary approval
- Limited Threat Discharge Permit
- NPDES Permit Amendment (DSRSD or LAVWMA)
- **DSRSD NPDES Permit Renewal (June 2022) - *recommended***

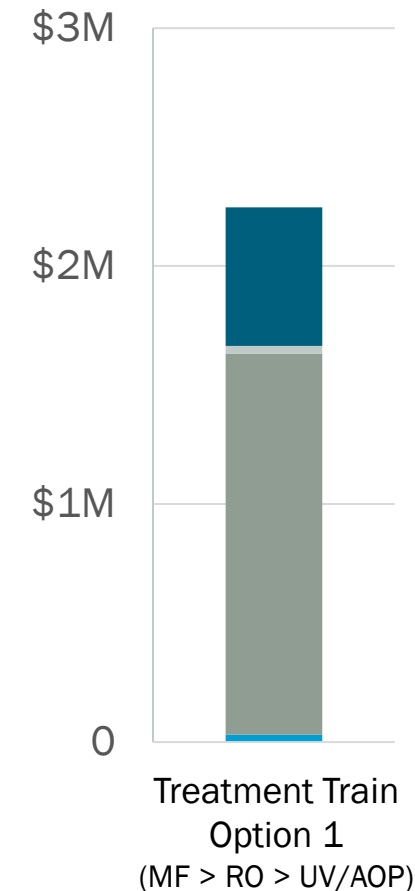
Cost and Funding Opportunities

Capital Cost Estimates for Pilot Equipment and Installation

Description	Estimated Cost (\$)
Civil Site & Piping	\$31,000
Pilot Equipment	\$1,601,000
Shipping and Sales Tax	\$32,000
Planning Level Contingency (35%)	\$582,000
Total Cost*	\$2,246,000

*Preliminary estimate for planning purposes. Typical accuracy range for Class 5 estimate: -50% to +100%.

- Planning Contingency
- Shipping and Sales Tax
- Pilot Equipment
- Civil Site & Piping



O&M Cost Estimates

Description	Annual Cost (\$ per year)
Chemicals	\$52,000
Service Costs	
Labor Service Visits	\$98,800
Cartridge Filters Maintenance	\$3,840
Membrane Cleaning Reserve	\$6,000
Lab Sampling Analyses	
Start-up Testing	\$9,200
Ongoing Testing Needs	\$37,200
Total O&M Cost* (\$)	Total Cost (\$)
1-Year Pilot (8 months online)	\$142,000
2-Year Pilot (20 months online)	\$339,000

**Assuming 24/7 operation of pilot after start-up.*

Grant Funding Opportunities

– Various federal, state, and local funding programs



Recommended for further consideration:

- SWRCB Water Recycling Funding Program, Facilities Planning Projects (up to \$150k for planning)
- USBR WaterSMART Drought Response Program, Drought Resiliency Projects (up to \$500k)
- DWR Integrated Regional Water Management Program, Implementation Projects (TBD, depending on Bay Area IRWMP)

Pending opportunities (awaiting guidelines):

- State Revolving Funds - will include Bipartisan Infrastructure Law funds, grant guidelines anticipated summer 2022
- SF Bay Water Quality Improvement Fund - request for applications expected late spring 2022

Public Outreach

Public Outreach and Education



The pilot would be designed to enable public tours and other interactive outreach components, such as displaying real-time water quality data and producing purified water on-site.

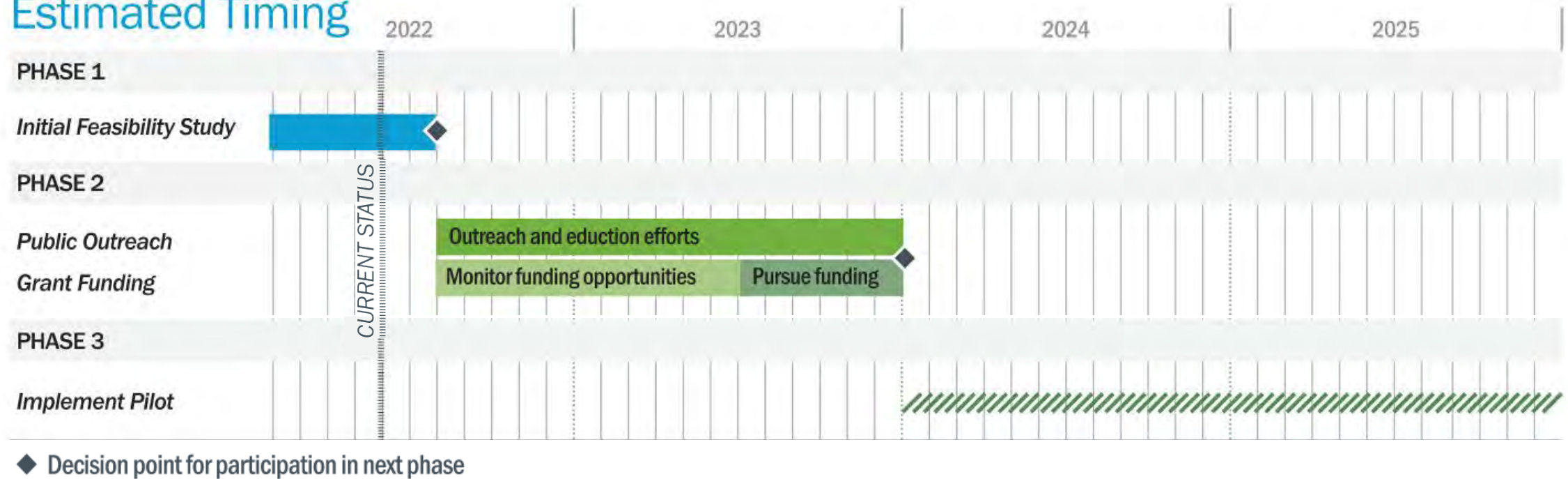
Example Outreach and Branding



Next Steps

Next Steps

Estimated Timing



Thank you.

Questions & Discussion

Page 1

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
June 29, 2022

ITEM NO. 16 BIENNIAL REVIEW OF THE CONFLICT OF INTEREST CODE

Action Requested

None at this time.

Summary

The Fair Political Practices Commission (FPPC) requires that each public agency have a Conflict of Interest Code, which specifies which Board members and staff must submit a Form 700 on an annual basis. The FPPC also requires that the agency must review its code on a biennial basis and report to the FPPC. General Counsel is not recommending any changes at this time.

Recommendation

None at this time.

Attachments

None

Page 1

Agenda Explanation
 Livermore-Amador Valley
 Water Management Agency
 Board of Directors
 June 29, 2022

ITEM NO. 17 UPDATE AND RESPONSE TO VARIOUS LEGAL AND LEGISLATIVE ISSUES

Action Requested

None at this time.

Summary

Attached for the Board's information are the following items **Attachment No. 17.a**, California Association of Sanitation Agencies (CASA) Regulatory Update for June 2022 and **Attachment No. 17.b**, Bay Area Clean Water Agencies (BACWA) Bulletin dated May 3, 2022. Both documents provide current information on the legal, legislative, and regulatory fronts that are of interest to wastewater treatment agencies. The CASA document includes updates on a number of regulatory and legislative issues.

One of the key issues for both groups is PFAS. CASA has prepared a PFAS Fact Sheet, **Attachment 17.c**. In addition, an important piece of legislation, AB2247 would require which would a publicly accessible reporting platform for PFAS in products. This would allow wastewater agencies to incorporate PFAS control in their pretreatment programs. LAVWMA sent a letter in support of AB2247, **Attachment 17.d**, that was approved by the Chair and sent by the General Manager. CASA reported the following after the Committee hearing:

CASA's co-sponsored bill, AB 2247 (Bloom) was heard yesterday and passed from the Senate Environmental Quality Committee. The bill, which requires the disclosure of PFAS in products on publicly accessible database, will next be considered in the Senate Appropriations Committee later this summer. Thank you to all of the CASA member agencies that sent letters of support to the Committee and their local Senators!

The BACWA document is issued on a regular basis and new information is shown in purple highlighting. The blanket permit amendment for chlorine residual and oil and grease limits was expected to be approved by EPA and become effective in March 2022. Unfortunately, U.S. Fish and Wildlife has objected to the amendment and EPA and the Regional Board are working together to address the concerns. This amendment will allow higher chlorine residuals for Bay dischargers including East Bay Dischargers Authority. This will save on dechlorination costs for sodium bisulfite.

One important item is the Sanitary Sewer System General Order for Waste Discharge Requirement (SSO-WDR). Refer to page 9 of the BACWA report. State Board staff are developing a response to comments. BACWA submitted comprehensive comments in an effort to make the new order easier to interpret and implement.

Agenda Explanation
 Livermore-Amador Valley
 Water Management Agency
 Board of Directors
 June 29, 2022

Several bills have been working through the Legislature to modernization the Brown Act's provisions regarding holding remote meetings. AB 1944 would allow agencies to hold remote public meetings without posting their location if the board agrees to this by majority vote and has a livestream available for virtual public participation. There are some requirements to specify which officials would participate remotely. AB 2449 would also allow officials to hold remote public meetings without posting the location of the offsite officials if at least a quorum participates in person at a location open to the public. The public must also be able to participate remotely with both audio and visual technology. These bills are currently being reviewed by Legislative committees and have not yet become law.

There are two CASA updates on state and federal legislation, **Attachment Nos. 17.e and 17.f**, respectively. The state item includes an update on the Senate budget plan. The key item in the federal item describes EPA's efforts on PFAS.

The last item of interest is a press release, **Attachment No. 17.g** announcing the new Executive Officer for the San Francisco Bay Regional Water Quality Control Board. Eileen White was appointed and her first day will be July 11, 2022. Ms. White is well know if the water and wastewater community having served as the Wastewater Department Manager for EBMUD for several years. During that time she also served as the BACWA Chair. She will bring a perspective to the Water Board that is unique to all of California.

Recommendation

There is no recommendation at this time.

Attachments

- 17.a CASA Regulatory Update for June 2022
- 17.b BACWA Bulletin dated May 3, 2022
- 17.c CASA PFAS Fact Sheet
- 17.d AB2247 Support Letter
- 17.e CASA State legislation update
- 17.f CASA federal legislation update
- 17.g Regional Board Executive Officer appointment press release

chuckweir@sbcglobal.net

From: Jared Voskuhl <JVoskuhl@casaweb.org>
Sent: Monday, June 6, 2022 3:21 PM
Subject: [Regulatory] CASA Regulatory Update - June 2022



Good Afternoon,

Please find below water quality, biosolids, and air updates from May and for June. Our next Regulatory Workgroup meeting will be held on June 16, and Dr. Mark Gold, Executive Director of the California Ocean Protection Council, will join the Water Committee meeting at 10:30 AM to share about his priorities over the next few years relating to sea level rise, microplastics, and ocean acidification and hypoxia. The next ACE meeting will be held on June 23. Please let us know if you have questions or problems accessing the linked materials.

Thank you,
 The RWG Team

WATER QUALITY

SWB Holds Wastewater Management Workshop on 5/11, Includes West Yost Panel

On May 11, the State Water Resources Control Board (State Water Board/SWB) hosted a workshop and [released a draft report](#) focusing on how local wastewater management may be impacted by forthcoming water conservation standards. The video recording is available [here](#), and [the presentations](#) are available on the [SWB's webpage for the 2018 water conservation legislation rulemaking](#). During the workshop, a panel coordinated by West Yost Associates provided the perspective of wastewater professionals and how they are responding and managing decreasing flows at utilities, with representatives from the Cities of San Luis Obispo and Ventura representing our sector exceptionally well. As for the report itself, the overall impacts were accurately detailed and catalogued, and with additional data inputs and changes in model parameters, we think the quantitative estimates for mitigating and adapting for impacts will be sound. With regard to timeline, the report is expected to be finalized in September 2022, and we are actively working with the SWB's research team, the Clean Water Summit Partners, and our members to ensure the report documents the proper level of support (including financial support) we need to remain resilient. Please reach out to [Jared](#)

[Voskuhl](#) with questions or are interested in contributing directly to our efforts over the summer.

Report out from Toxicity Provisions Cerio Study 5/24 SAC Meeting

On May 24, the Stakeholder Advisory Committee (SAC) for the SWB's study of variability in test results for aquatic toxicity using ceriodaphnia dubia met to discuss the next phase of the project after SCCWRP completed its [historical analyses](#). Before the meeting, SCCWRP shared [a first draft study plan](#) for the split sample phase of testing for the SAC to review and for which they were generally supportive. In the coming weeks, we expect SCCWRP to issue a second draft of the study plan to reflect input from the SAC, and for the Expert Science Panel to meet toward the of June to approve it. SCCWRP concurrently will conduct meetings with the participating labs to iron out details for process efficiencies and uniformity in test administration. All of the materials are archived [here](#). Please reach out to [Jared Voskuhl](#) with questions or comments, and e-mail [Spencer Saks](#) to be added to our Toxicity Subgroup.

SWB WQ Fees Meeting on 6/9

On June 9, the SWB will host a workshop on the revised proposed waste discharge permit fund fees for fiscal year 2022-23. The March proposal was for a nominal fee increase, but with an additional 5% increase to build a reserve. Stakeholders were hesitant to support this larger increase and are awaiting the second draft fee schedule that could reflect changes to the May Revised state budget. The meeting materials were e-mailed to our WQ Fees subgroup, but reach out to [Jared Voskuhl](#) if you're planning to participate and to [Spencer Saks](#) to be added to CASA's subgroup to receive notice for developments.

SCCWRP Commission Updates on OAH on 6/3 and 9/9 & 2024 Integrated Reports (R2, R4, R8)

On June 3, the Southern California Coastal Water Research Project (SCCWRP) will host its quarterly public meeting which will include presentations from SCCWRP researchers studying the effects of wastewater discharges on ocean acidification and hypoxia (OAH) in the southern California bight, as well as the biological effects of those changes in OAH chemistry. Further presentation on the potential for nutrient management and wastewater recycling to alter those effects will take place at SCCWRP's September 9 Commission meeting. Both meetings' presentations will be based on a model that has been in development over several years, but for which wastewater agencies have specific concerns about the validity of the full model and whether it is ready for regulatory purposes. Most immediately, the State Water Resources Control Board (State Water Board/SWB) is currently developing prospective lines of evidence for pH, dissolved oxygen, and aragonite saturation for the 2024 integrated report and 303(d) listing cycle for Regions 2, 4, 8 which will govern wastewater agencies in San Francisco, Los Angeles, and Santa Ana. In light of the fact that the 2020-22 Integrated Reports and 303(d) list used SCCWRP's biostimulatory substances and biological integrity assessment tools as a line of evidence for impairments to benthic communities, despite those tools not being formally in a state regulation, provision or plan, there is heightened interest in how the OAH model potentially would be applied in the same manner for [the 2024 listing cycle](#). Additionally, on May 26, the California Water Quality Monitoring Council met and [shared they are planning for their September 9 meeting to feature 2 – 3 hours of presentations on the 2024 Integrated Reports](#). Please reach out to [Jared Voskuhl](#) with questions or comments.

2020-2022 Integrated Report Approved by U.S. EPA & CWQMC Planning 9/9 Presentation

On May 11, the [California 2020-2022 Integrated Report](#) was approved by the U.S. Environmental Protection Agency. The Final Staff Report, Response to Comments, and Resolution are available on the 2020-2022 Integrated Report program webpage, linked [here](#). Earlier this year in January, the State Water Board adopted the 2020-22 integrated report and 303(d) list, adding over 1,000 new listings in Region 3 (Central Coast), Region 5 (Central Valley), and Region 9 (San Diego). Numerous stakeholders from the regulated community testified during the four-hour adoption hearing about process concerns, the lack of Regional Water Board engagement, and certain lines of evidence, for which the Board added three recitals to the adopting resolution to attempt to assuage concerns. The [recording of the January 19, State Water Board adoption meeting](#) and [the staff presentation](#) are available. Please reach out to [Jared Voskuhl](#) with questions or comments.

SWB Hosting Biostimulation, Cyanotoxin, and Biological Condition Workshop on 6/29

On June 29, State Water Board staff will host a public workshop to discuss the statewide Biostimulation, Cyanotoxin, and Biological Condition Provisions, which they have developed in phases over the last four years. The Public Notice is available [here](#), and for additional information on the Statewide Biostimulation, Cyanotoxin, and Biological Condition Provisions the State Water Board's program webpage is available [here](#). These provisions have been in development for several years, and CASA commented on prior iterations of these in 2018. CASA also provided remarks in September 2020 to the Region 9 San Diego Water Board as they considered the incorporation of the underlying science behind the biostimulatory substances work as basin plan amendments, and again in September 2021 when the R9 basin plan amendments came before the SWB for adoption. Please reach out to [Jared Voskuhl](#) with comments and if you're planning to participate, and e-mail [Spencer Saks](#) to be added to our Nutrients Subgroup.

Microplastics Subcommittee of the CWQMC Meeting on 6/8

On June 8, the Microplastics Subcommittee of the California Water Quality Monitoring Council will be meeting, and you can find the zoom link [here](#). The meeting will be held from 11:00am – 1:00pm and features guest speakers, Bill Robberson, P.E., of Ocean P3 Systems, who has led the development of ASTM's methods, plus Robert Andrews, Ph.D., and Husein Al-Muhtaram of the University of Toronto. They will be reporting out on the consumer messaging workgroup, the sampling and analytical methods playbook workgroup, and their data harmonization platform. Please reach out to [Jared Voskuhl](#) with questions in advance.

California Water Boards 2022 Annual Water Data Science Symposium 6/28 & 6/29

On June 28 and 29, the [California Water Quality Monitoring Council](#) and the [Surface Water Ambient Monitoring Program \(SWAMP\)](#) are hosting the Seventh Annual California Water Boards Water Data Science Symposium. The event is free to attend, and it aims to enhance how water quality monitoring generates and uses data to inform water quality management decisions. They are working with the [West Big Data Innovation Hub](#) to host the fifth California Water Data Challenge, which you can find more information about [here](#). If you are interested in attending the draft agenda is attached [here](#). Please reach out to [Spencer Saks](#) if you have questions or plan to attend.

BACWA's "Understanding your NPDES Permit" Session on 7/20

On July 20, the Bay Area Clean Water Agencies (BACWA) will be holding a [special virtual session](#) of their Permits Committee. Mary Cousins will provide an encore presentation of her talk at

CWEA's 2022 Annual Conference entitled, "*Understanding your NPDES Permit.*" This presentation will cover the laws and regulations governing NPDES permits (including the Porter-Cologne and Clean Water Acts), basin plans, beneficial uses, antidegradation policy, the rationale for effluent limitations (including an explanation of Reasonable Potential Analysis and the State Implementation Policy), and tips for negotiating a reissued NPDES permit. The event will be held on [July 20, at 10:00am – 12:00pm](#). If you have further questions, please reach out to [Lorien Fono](#).

BACWA's June Regulatory update

Please find available from BACWA their [June BACWA Bulletin](#), which includes coverage of Eileen White's appointment as Executive Officer of the San Francisco Regional Water Quality Control Board, a new statewide COVID wastewater surveillance dashboard, infrastructure funding in the state. Budget, and CARB's electrification rules which impact wastewater agencies. Please reach out to [Lorien Fono](#) and [Mary Cousins](#) with questions or comments about any of the reported items.

SWB, CWQMC, and OPC Agenda Roundup

Here are the recent State Water Board agendas for their meetings on [May 10](#), [May 24](#), and [June 7](#). The Executive Director reports are available for [April](#) and [May](#), which feature [a link to a recently updated statewide and regional policies calendar](#). The [May 26 CWQMC agenda](#) (wildfires, microplastics, molecular biology) and the [OPC's June 14 agenda](#) (sea level rise) are linked.

CASA UPCOMING EVENTS AND NEWS

Join CASA at the 67th Annual Conference in Lake Tahoe 8/10-12

CASA will hold our [Annual Conference](#) at the Resort at Squaw Creek on August 10-12, 2022. We are so excited to return to the Lake Tahoe area after many years away, and look forward to seeing you in person once again. The theme of this year's Annual Conference is Elevating Excellence. Throughout the event, we will feature the myriad of ways in which California's clean water committee goes above and beyond in our mission to protect public health and the environment. The Conference will feature a host of speakers covering important topics, including cybersecurity for local agencies, workforce development, driving sustainability, regulatory topics such as PFAS and microplastics, and much more! We will also feature speakers from the State Water Board, and an in-depth financial retrospective and forecast you won't want to miss. The technical sessions on Wednesday, August 10 should be of particular interest to regulatory professionals. [Here](#) you can find registration, hotel and COVID related information that will be in place as part of this event. Reach out to [Cheryl Mackelvie](#) if you have questions or need assistance registering. We look forward to seeing you there!

CASA & CWEA Hosting Rescheduled Partnering for Impact Workshop on 6/15 in Berkeley

On June 15, CASA and the California Water Environment Association (CWEA) are co-hosting an in-person event in Berkeley that brings together wastewater leaders, project managers, researchers, manufacturers, and plant operators to work together on accelerating innovation within the wastewater sector. There will be opportunities to participate in a moderated discussion with presenters, listen to engaging panels, and network fellow wastewater

professionals to find solutions to challenges facing our sector. The event costs \$175, you may register for it [here](#), and you may find more information in the [brochure](#).

CASA's Sponsored PFAS Legislation, AB 2247 (Bloom), Passes the Assembly

On May 26, CASA's co-sponsored [AB 2247](#) passed off the Assembly Floor, and in its current form, would require the Department of Toxic Substances Control to work with the Interstate Chemicals Clearinghouse to establish a publicly accessible reporting platform to collect information about perfluoroalkyl and polyfluoroalkyl substances (PFAS) and products or product components containing intentionally added PFAS. A manufacturer of PFAS or a product containing intentionally added PFAS would be required to register the PFAS or the product containing intentionally added PFAS, and specified other information, on the publicly accessible reporting platform. The bill was passed with a vote of 42-19, and now heads to the Senate where we anticipate it will be heard by the Senate Environmental Quality Committee in June. Reach out to [Spencer Saks](#) and [Jessica Gauger](#) if you have questions.

BIOSOLIDS

CalRecycle Hosting Multiple Webinars in June to Preview the Restructured EAR

During the month of June, the California Department of Resources Recycling and Recovery (CalRecycle) will be hosting multiple webinars to preview the restructured Electronic Annual Report (EAR), the functionality of the new system, and how to fill out your report. There are four webinars being offered, and while each webinar is relevant for all jurisdictions, each webinar will focus on a particular jurisdiction type. On June 2, CalRecycle will host the City and County focused webinar, for which the registration link is [here](#), and will preview what City and County EARs will look like. On June 3, CalRecycle will host the Regional Agency focused webinar to preview what Regional Agency EARs will look like, and the registration link to attend is [here](#). On June 8, CalRecycle will host the webinar for special districts that provide solid waste collections services to preview what Community Service District (CSD) EARs will look like. The link to attend the 6/8 meeting is [here](#). On June 9, CalRecycle will host its final webinar, another one focused on City and County focused webinar, from 1:00pm – 3:00pm. This webinar will preview what City and County EARs will look like, and the link to register is [here](#).

CalRecycle Hosting 6/22 Webinar on County Capacity Planning Reporting Requirements

On June 22, the California Department of Resources Recycling and Recovery (CalRecycle), will host a webinar on County Capacity Planning reporting requirements under SB 1383 for how counties submit this information electronically. To participate in the webinar you can register [here](#), if you would like to watch the webinar only you can watch [here](#). Please. Please contact [Greg Kester](#) if you have questions.

CalRecycle's Forthcoming Regulatory Changes to the RDRS Program

Over the next three months, CalRecycle will soon begin a rulemaking to update the regulations for the Recycling and Disposal Reporting System (RDRS), pursuant to SB 343, AB 881, and AB 901. Before the formal rulemaking begins, the Department will hold three informal workshops, where staff will overview the changes, present draft regulatory text, and solicit stakeholder feedback. Each of the three workshops will be held virtually with no physical location. Please see the details below. On June 22, CalRecycle will host the first informal workshop at 10:00am

– 12:00pm. To attend this workshop the link is provided [here](#). If you would like to view the workshop only and not participate in the discussion, there is a webcast [here](#). On July 13, CalRecycle will host the second informal workshop at 10:00am – 12:00pm. To attend this workshop the link is provided [here](#). If you would like to view the workshop only and not participate in the discussion, there is a webcast [here](#). On August 23, CalRecycle will host the third informal workshop at 10:00am – 12:00pm. To attend this workshop the link is provided [here](#). If you would like to view the workshop only and not participate in the discussion, there is a webcast [here](#). Please reach out to [Greg Kester](#) if you have questions.

NIFA SAC Grants Due on 6/29

On June 29, applications are due to the Supplemental and Alternative Crops (SAC) Competitive Grants Program of the National Institute of Food and Agriculture's (NIFA). The SAC program supports projects that lead to expanded adaptation and increased acres of canola grown in the United States for oil and industrial hemp grown for value-added products. SAC supports breeding, testing, and developing superior performing canola and industrial hemp varieties and production practices that result in improved cost efficiencies, reduced grower risks, and wider use in production systems. Research results and technology developed are expected to be rapidly transferred to producers and other users through effective extension outreach and other engagement efforts. This is an integrated research and extension program that will produce results to increase the cost effectiveness and competitiveness of these two crops grown as components of production systems across the country. More information is linked [here](#), or you may contact [Greg Kester](#).

AIR

CARB Draft 2022 Climate Change Scoping Plan Released & 45-day Public Review

On May 10, the California Air Resources Board (CARB) released the Draft 2022 Scoping Plan, which is now available for 45-day public review. The Proposed 2022 Scoping Plan Update assesses progress toward the statutory 2030 target, 40% below 1990 GHG levels, while laying the path to achieve carbon neutrality no later than 2045. It focuses on outcomes needed to achieve carbon neutrality by assessing paths for clean vehicles and technology, energy deployment, natural and working lands, and others, and public health priorities. To be considered by the Board, written comments not submitted during the meeting, must be received no later than June 24. The Draft 2022 Scoping Plan assesses progress toward the statutory 2030 target, while laying out a path to achieving carbon neutrality no later than 2045. The Draft Scoping Plan is included [here](#). On June 23, at 9:00am, CARB will conduct a public hearing to consider the Draft 2022 Climate Change Scoping Plan. For more details, click [here](#), or contact [Sarah Deslauriers](#) with questions, feedback, or comments.

CARB Proposed Amendments to the In-Use Off-Road Diesel-Fueled Fleets Regulation

On May 16, the California Air Resources Board (CARB) released their staff recommendation for the proposed amendments to the In-Use Off-Road Diesel-Fueled Fleets regulation. [The Proposed Amendments](#) and the staff recommendation can be found on CARB's website linked [here](#). Please reach out to [Sarah Deslauriers](#) if you have feedback or questions.

CASA Submits Comments on USEPA's Heavy-Duty Engine and Vehicle Standards

On May 16, the [CASA submitted comments](#) on the Environmental Protection Agency's proposed Heavy-Duty Engine and Vehicle Standards. The updates to the Proposed Standards are intended to balance incentivizing zero and near-zero emissions vehicle (ZEV and NZEV) development with ensuring that the standards achieve an appropriate fleet-wide level of greenhouse gas (GHG) emissions reductions, while also achieving necessary reductions of nitrogen oxides (NOx) and particulate matter (PM) to satisfy existing regulations. Please reach out to [Sarah Deslauriers](#) if you have feedback or questions.

SCAQMD Prospectively Litigating Against USEPA for Rejecting SIP Relying on Federal Rules

On May 25, [Inside EPA published an article](#) about the South Coast Air Quality Management District (SCAQMD) intending to sue USEPA "for not approving their state implementation plan (SIP) for attaining the 1997 ozone standard that includes reliance on future federal regulations to lower pollution from trucks, ships, and aircraft, charging the agency would be violating the Clean Air Act and past precedent." Please reach out to [Sarah Deslauriers](#) with questions or feedback about this development.

SCAP's Air Quality Committee June Update

Please find available from the Southern California Alliance of POTWs (SCAP) their excellent [Air Quality Committee update for June](#), which includes coverage of CARB's electrification regulations, heavy-duty inspection & maintenance regulation, and new air toxic emissions reporting regulations, SCAQMD's 2022 ozone air quality management plan, and emergency stationary diesel tier 4 generators and public safety power shutoffs. Please reach out to [Steve Jepsen](#), [David Rothbart](#), and [Sarah Deslauriers](#) with questions or comments about any of the reported items.

EPA's Update on the Potential Resolution to the D3 – D5 Split for Co-Digestion

On May 23, USEPA sent an unofficial update stating that they will propose a way to apportion D3-D5 Renewable Identification Numbers when co-digesting multiple feedstocks (i.e., wastewater treatment plants receiving food waste to introduce to co-digest with sewage sludge). There is a consent decree on the current Renewable Volume Obligations rule on June 3, and it is likely that the Set package will move to proposal shortly after that rule is signed. If the Set package moves to proposal after the Set package, then it will be open to public comment on June 3. Reach out to [Greg Kester](#) if you have questions.

CALENDAR

June 07 SWB Meeting

June 08 CWQMC Microplastics Subcommittee Meeting

June 08 CalRecycle Special Districts EAR Webinar

June 09 SWB Water Quality Fees Meeting

June 09 CalRecycle City and County EAR Webinar

June 14 OPC Meeting

June 15 CASA & CWEA Preparing for Impact Workshop

June 16 CASA Regulatory Workgroup Meeting

June 21 SWB Meeting

June 22 CalRecycle Informal Workshop on RDRS

June 22 CalRecycle County Capacity Planning Report Webinar

June 23 CASA Air Quality, Climate, and Energy Workgroup Meeting

June 23 CARB Hearing to Consider Draft 2022 Climate Change Scoping Plan

June 24 Comments on CARB 2022 Scoping Plan Due

June 28-29 SWRCB Annual California Water Boards Water Data Science Symposium

June 29 SWB B&C&B Stakeholder Meeting

June 29 NIFA's SAC Competitive Grants Program Applications Due

July 06 SWB Meeting

July 12 CalRecycle's Informal Workshop on RDRS

July 19 SWB Meeting

July 20 CASA Collection Systems Workgroup

July 20 BACWA Permits Committee Session on “Understanding your NPDES Permit”

July 21 CASA Regulatory Workgroup

August 10-12 CASA 67th Annual Conference (Resort at Squaw Creek, Lake Tahoe, CA)

August 22 CalRecycle’s Informal Workshop on RDRS



Visit our website

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Unsubscribe: jvoskuhl@casaweb.org



KEY REGULATORY ISSUE SUMMARY

Updated May 3, 2022

Action items for member agencies are in **bold**

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New updates in this version are shown in Purple highlighting

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
NUTRIENTS IN SAN FRANCISCO BAY			
<ul style="list-style-type: none"> San Francisco Bay receives some of the highest nitrogen loads among estuaries worldwide, yet has not historically experienced the water quality problems typical of other nutrient-enriched estuaries. It is not known whether this level of nitrogen loading, which will continue to increase in proportion to human population increase, is sustainable over the long term. Because of the complexity of the science behind nutrient impacts in SF Bay, stakeholders in the region are participating in a steering committee to prioritize scientific studies and ensure that all science to be used for policy decisions is conducted under one umbrella. 	<ul style="list-style-type: none"> For FY22, BACWA is contributing \$2.2M to fund scientific research needed to make management decisions for the 3rd Watershed Permit. This level of funding is required by the 2nd Watershed Permit. The focus of current scientific efforts is improving model representation of biogeochemistry, light attenuation, dissolved oxygen, and Harmful Algal Bloom dynamics. Field and lab observations are supporting these improvements. The science team is developing an Assessment Framework for Open Bay habitats and Lower South Bay sloughs. 	<ul style="list-style-type: none"> Continue to assist with preparation of a brief "State of the Science" document summarizing the scientific accomplishments of the Nutrient Management Strategy team for public use. Continue to participate in steering committee, Nutrient Management Strategy, Nutrient Technical Workgroup, and planning subcommittee meetings, and provide funding for scientific studies. Continue to engage with Nutrient Technical Team and BACWA's Nutrient Management Strategy technical consultant, Mike Connor, to provide review of recent work products and charge questions for the science team. 	<p>BACWA Nutrients Page: https://bacwa.org/nutrients/</p> <p>Nutrient Management Strategy FY22 Program Plan https://drive.google.com/file/d/1zUJLjdefBoFmzD0LZDMB4aH_O30wvebA/view</p> <p>Nutrient Management Strategy Reports and Work Products https://sfbaynutrients.sfei.org/books/reports-and-work-products</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
SF BAY NUTRIENT WATERSHED PERMIT			
<ul style="list-style-type: none"> • The 1st Nutrient Watershed Permit was adopted in 2014, and required a regional study on Nutrient Treatment by Optimization and Upgrades, completed in 2018. • The 2nd Nutrient Watershed Permit was adopted in 2019. It includes: <ul style="list-style-type: none"> ◦ Continued individual POTW nutrient monitoring and reporting; ◦ Continued group annual reporting; ◦ Significantly increased funding for science; ◦ Regional assessment of the feasibility and cost for reducing nutrients through nature-based systems and recycled water; ◦ Establishing current performance for TIN, and “load targets” for nutrient loads based on 2014 to 2017 load data plus a 15% buffer for growth and variability ◦ Recognition of “early actors” who are planning projects that will substantially decrease TIN loads. • Through the nutrient surcharge levied on permittees, BACWA funds compliance with the following provisions on behalf of its members: <ul style="list-style-type: none"> ◦ Group Annual Reporting ◦ Regional Studies on Nature-Based Systems and Recycled Water ◦ Support of scientific studies through the Regional Monitoring Program (RMP) at \$2.2M per year through the five-year permit term. 	<ul style="list-style-type: none"> • Studies related to Recycled Water and Nature-Based Systems are underway, and will be completed by the due date of July 1, 2023. • Each year by February 1, BACWA submits a Group Annual Report on behalf of its members. The report summarizes trends in nutrient concentrations and loading for each agency, and for all the agencies as a whole. The annual reporting period in the 2nd Watershed Permit is based on a water year (October 1 – September 30th). The Group Annual Report for October 2020 – September 2021 includes several new sections, including analysis of influent loading trends and data regarding recycled water diverted from San Francisco Bay. The report showed a decline in TIN concentrations compared to the previous year. • Each year by February 1, BACWA and SFEI submit an annual science implementation plan and schedule update, as required by the 2nd Watershed Permit. • Agencies with plans to substantially reduce nutrients are recognized in the Fact Sheet of the 2nd watershed permit. 	<ul style="list-style-type: none"> • BACWA continues to convene a Nutrient Strategy Team (NST) to develop BACWA’s key tenets for the 3rd Watershed Permit. • Complete a statistical analysis of historical loading trends, and discuss results with the Nutrient Strategy Team. • Meet with Regional Water Board staff to discuss the statistical analysis and how it might be used to implement load caps in the 3rd Watershed Permit. • Agencies with plans to implement projects that will substantially reduce nutrient loads should keep the Regional Water Board and BACWA apprised, to get credit for “early actions.” • Review draft reports by HDR and SFEI for the Nutrient Removal by Recycled Water Evaluation and the Nature-Based Systems study. Draft agency reports for the Recycled Water Evaluation have already begun to be distributed for agency review, and more are expected in early- to mid-2022. 	<p>2nd Nutrient Watershed Permit: https://www.waterboards.ca.gov/sanfranciscobay/board_info/agendas/2019/May/6_ssr.pdf</p> <p>Special Studies of Recycled Water and Nature-Based Systems: https://bacwa.org/document-category/2nd-watershed-permit-studies/</p> <p>Optimization/Upgrade Study Information: https://bacwa.org/document-category/optimization-and-upgrade-studies/</p> <p>BACWA Group Nutrient Annual Reports: http://bacwa.org/document-category/nutrient-annual-reports/</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
CHLORINE RESIDUAL COMPLIANCE			
<ul style="list-style-type: none"> • The Basin Plan chlorine residual effluent limit is 0.0 mg/L. Chlorine residual is the most frequent parameter for violations for Region 2 POTWs. Because there are 24 hourly reporting events each day, the “opportunities” for violations are enormous. However, the actual violation rates are infinitesimal (~0.001%). • Agencies are overdosing their effluent with the dechlorination agent, sodium bisulfite, to prevent chlorine violations, a practice which costs more than \$1 million regionally each year. • The Regional Water Board worked with BACWA to develop a Basin Plan Amendment modifying the effluent limit for chlorine residual. 	<ul style="list-style-type: none"> • The Basin Plan Amendment includes: <ul style="list-style-type: none"> ○ A 0.013 mg/L Water Quality Objective in marine and estuarine waters, which will be applied as a WQBEL in permits and calculated incorporating dilution. The WQBEL will be applied as a one-hour average. ○ A Minimum Level (ML), or Reporting Limit of 0.05 mg/L for online continuous monitoring system. • The Basin Plan Amendment was adopted by the Regional Water Board in November 2020, approved by the State Water Board and Office of Administrative Law in 2021, and is now awaiting final review by EPA. • Sections of the Basin Plan Amendment related to removal of Oil & Grease effluent limits are now in effect. This change is being implemented in reissued NPDES permits. • In October 2021, the Regional Water Board adopted a blanket permit amendment (Order R2-2021-0019) implementing the Basin Plan Amendment within each individual NPDES permit. The order will become effective once the Basin Plan Amendment is approved by the EPA, but the schedule for this approval is currently undetermined. 	<ul style="list-style-type: none"> • Prepare for a short turnaround time for implementation of the new chlorine residual limits, as follows: <ul style="list-style-type: none"> ○ Ensure compliance with the new minimum required frequency of once every 5 minutes. ○ Ensure the monitoring system complies with the new minimum level of 0.05 mg/L. ○ Members that plan to discharge detectable residual chlorine may need to adapt sampling and analysis procedures for other constituents for which residual chlorine could interfere, such as whole effluent toxicity and ammonia. ○ Use the highest one-hour arithmetic mean as the daily value reported into CIWQS. 	<p>Background and Status information about Basin Plan Amendment: https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/planningtmdls/amendments/chlorinebpa.html</p> <p>Final Amendment adopted by Regional Water Board: https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/planningtmdls/amendments/chlorinebpa/2_Chlorine_Resolution_R2-2020-0031.pdf</p> <p>Blanket Permit Amendment for Chlorine and Oil & Grease: https://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2021/R2-2021-0019.pdf</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
PESTICIDES			
<ul style="list-style-type: none"> Pesticides are regulated via FIFRA, and not the Clean Water Act. POTWs do not have the authority to regulate pesticide use in their service area, but may be responsible for pesticide impacts to their treatment processes or to surface water. Through BAPPG, BACWA aims to proactively support a scientific and regulatory advocacy program so that pesticides will not impact POTWs' primary functions of collecting and treating wastewater, recycling water, and managing biosolids, or impact receiving waters via the "down the drain" route. 	<ul style="list-style-type: none"> EPA reviews all registered pesticides at least once every 15 years. Each review allows opportunity for public comment. BACWA continues to fund consultant support to write comment letters advocating for the consideration of POTW and surface water issues during EPA's risk assessments as part of reregistration. Funding for pesticide regulatory outreach in FY22 is \$60K. The Regional Water Board leverages BACWA's efforts to provide their own comment letters to EPA. With chronic toxicity limits likely in the near term, POTWs will be in compliance jeopardy if pesticides contribute to toxicity. Baywise.org has launched webpages on flea and tick control messaging to pet owners and veterinarians. 	<ul style="list-style-type: none"> Continue to comment on pesticide re-registrations. Work with veterinary associations on messaging with respect to flea and tick control alternatives. Continue to develop summary of EPA actions on pesticides. Look for opportunities to work with CalDPR on pesticides research. Work with other regional associations, such as the California Stormwater Quality Association (CASQA), to collaborate on funding pesticide regulatory outreach. 	<p>BACWA Pesticides Regulatory Update and Call to action: https://bacwa.org/wp-content/uploads/2016/02/BACWA-Pesticide-Regulatory-Update-2016-1.pdf</p> <p>BACWA Pesticide Regulatory Support Page: https://bacwa.org/bappg-pesticides/</p> <p>Baywise flea and tick pages: https://baywise.org/residential/pets/keep-pets-free-of-fleas-and-ticks/ https://baywise.org/residential/pets/</p>
ENTEROCOCCUS LIMITS			
<ul style="list-style-type: none"> In 2019, new statewide water quality objectives for bacteria were implemented to protect recreational users. The objectives are now part 3 of the Water Quality Control Plan for the SIP and Ocean Plan. In February 2021, the Regional Water Board amended the Basin Plan to reflect the new statewide objectives. The same order also established a bacteria TMDL for two beaches in the Half Moon Bay area. 	<ul style="list-style-type: none"> The new enterococcus objective for saline waters is a six-week rolling geometric mean not to exceed 30 CFU/100 mL and a statistical threshold value of 110 CFU/100 mL In July 2021, the State Water Board approved the Basin Plan Amendment and TMDL. In February 2022, the action received final EPA approval. The water quality objectives have already been in effect since 2019. 	<ul style="list-style-type: none"> Dischargers may request dilution credits when the new objective is implemented within NPDES permits, based on a study completed by BACWA and SFEI to establish background enterococcus levels in SF Bay. The study, completed in June 2020, showed all stations in the Bay were below the objective of 30 CFU/100 mL 	<p>SFEI Report on Enterococci in SF Bay: https://bacwa.org/wp-content/uploads/2020/08/BACWA-2020-Enterococci-report_final.pdf</p> <p>Regional Water Board Basin Plan Amendment: https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/TMDLs/PPH_TMDL.html</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
MERCURY AND PCBs			
<ul style="list-style-type: none"> • The Mercury & PCBs Watershed Permit was reissued in November 2017 with an effective date of January 1, 2018. The Watershed Permit is based on the TMDLs for each of these pollutants. • Aggregate mercury and PCBs loads have been well below waste load allocations through 2020, the last year for which data have been compiled. • Method 1668C for measuring PCB congeners has not been promulgated by EPA. Data collected during the first permit term varied widely depending on which laboratory performed the analyses. BACWA Laboratory Committee developed an updated PCB Protocol to reduce variability between laboratories running Method 1668C, effective January 1, 2014. Data have been more consistent since the distribution of this document. • In 2017, EPA adopted federal pretreatment program rules requiring dental offices to install dental amalgam separators. The rule is intended to reduce dental office discharge of mercury. The compliance date was July 14, 2020. 	<ul style="list-style-type: none"> • The 2017 Watershed Permit requires continued risk reduction program funding. For FY22, BACWA granted an extension to an ongoing contract worth \$12,500 to the California Indian Environmental Alliance to conduct risk reduction activities related to fish consumption. A previous contract for APA Family Support Services is now complete. • Beginning January 1, 2022, monitoring requirements for mercury have been reduced for most dischargers per Order R2-2021-0028 (see link at right). For most dischargers, this replaces the 2016 <i>Alternate Monitoring and Reporting Requirements for Municipal Wastewater Dischargers for the Purpose of Adding Support to the San Francisco Bay RMP</i>. • As part of the 2021 Triennial Review of the Basin Plan, the Regional Water Board has prioritized designation of three new beneficial uses: Tribal Tradition and Culture (CUL), Tribal Subsistence Fishing (T-SUB) and Subsistence Fishing (SUB). Water bodies designated these beneficial uses could also be assigned lower mercury objectives. In September 2021, this basin planning project was ranked as a “high priority” in the Triennial Review 	<ul style="list-style-type: none"> • Synthesize PCBs loading data analyzed via Method 1668C ahead of the 2022 reissuance of the Mercury & PCBs Watershed Permit. This large data set demonstrates compliance with the TMDL, but may also be useful in assessing necessary monitoring frequencies. Data compilation for PCB congeners will begin in Q2 2022. • The 2017 Permit expires in December 2022. Reissuance activities for the Mercury and PCBs Watershed Permit will occur in the second half of 2022. • Continue outreach to dentists BAPPG and BACWA’s pretreatment committee. Per federal rules, all dental facilities were required to submit one-time compliance reports by October 2020. • Schedule risk reduction presentations by the grantees to the Regional Water Board in 2022. • Track potential Basin Plan Amendments resulting from the Triennial Review project related to new beneficial use designations. The new designations are not expected to impact the bay-wide mercury TMDL in the near term, but there could be localized or longer-term impacts. 	<p>2017 Mercury & PCBs Watershed Permit: https://www.waterboards.ca.gov/sanfranciscobay/board_info/agendas/2017/November/5b_final_to.pdf</p> <p>Risk Reduction Materials: https://bacwa.org/mercury-pcb-risk-reduction-materials/</p> <p>Updated BACWA PCBs Protocol: https://bacwa.org/wp-content/uploads/2014/02/PCBs-Sampling-Analysis-and-Reporting-Protocols-Dec13.pdf</p> <p>One-Time Compliance Report for Dental Offices: https://www.waterboards.ca.gov/water_issues/programs/npdes/docs/drinking_water/one-time_compliance_report_for_dental_offices.pdf</p> <p>NPDES Permit Amendment for Monitoring and Reporting https://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2021/R2-2021-0028.pdf</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
STATE WATER BOARD TOXICITY PROVISIONS			
<ul style="list-style-type: none"> • The State Water Board has been working since before 2012 to establish Toxicity Provisions in the SIP that would introduce uniform Whole Effluent Toxicity Requirements for the State • During individual permit reissuances since 2015, the Regional Water Board has been performing RPAs for chronic toxicity and giving chronic toxicity limits to agencies with Reasonable Potential. • Proposed Final Statewide Toxicity Provisions were released in October 2020, incorporating revisions to previous versions from 2018 to 2020. The Provisions establish: <ul style="list-style-type: none"> ○ Use of Test of Significant Toxicity (TST) as statistical method to determine toxicity replacing EC25/IC25 (with concerns it will lead to more false positive results); ○ Numeric limits for chronic toxicity for POTWs >5 MGD and with a pretreatment program; smaller POTWs would receive effluent targets and only receive limits if Reasonable Potential is established; ○ Regional Water Board discretion on whether to require RPAs for acute toxicity; ○ For POTWs with <i>Ceriodaphnia dubia</i> as most sensitive species, numeric targets rather than limits until after completion of state-wide study on lab/ testing issues (Dec. 31, 2023). 	<ul style="list-style-type: none"> • The State Water Board first adopted the Statewide Toxicity Provisions in December 2020. In October 2021, the State Water Board affirmed that the Statewide Toxicity Provisions were adopted as state policy for water quality control for all inland surface waters and estuaries. The Toxicity Provisions are expected to go into effect no sooner than mid-2022 after EPA approval. • Implementation will be on a permit-by-permit basis as new individual NPDES permits are issued. • Since 2016, agencies have had the option to skip sensitive species screening upon permit reissuance and pay the avoided funds to the RMP to be used for CECs studies. Once the Statewide Toxicity Provisions come into effect, agencies will once again be required by the provisions to do sensitive species screening once every 15 years. • BACWA joined SCAP, CVCWA and NACWA in a lawsuit alleging EPA did not follow proper procedure in requiring use of the TST, which has not been officially promulgated. The lawsuit was dismissed on Statute of Limitation grounds. An appeal to the 9th Circuit Court of Appeals was denied in September 2021 on the basis that the EPA guidance document is not a final agency action that can be reviewed by the courts. POTWs' only recourse is to challenge individual permits that include the procedure. 	<ul style="list-style-type: none"> • Continue to work with Regional Water Board on language for implementing Toxicity Provisions in Region 2 NPDES Permits. • Regional Water Board staff provided revised draft permit language to BACWA in December 2021, and members provided feedback on this revised draft in January 2022. BACWA will work with the Regional Water Board to finalize the template in Spring 2022, ahead of its first use in mid-2022. The language will ultimately be copied into each newly adopted permit in the region, filling in details about monitoring and screening requirements that the Provisions leave to Regional Water Board discretion. • Share information on the special study on the <i>Ceriodaphnia dubia</i> test method with agencies who have that species in their permits. 	<p>SWRCB Toxicity Page: http://www.swrcb.ca.gov/water_issues/programs/state_implementation_policy/tx_ass_cntrl.shtml</p> <p>Toxicity Provisions adopted December 2020: https://www.waterboards.ca.gov/water_issues/programs/state_implementation_policy/docs/provisions_final.pdf</p> <p>Toxicity Workshop Presentations from 2017 BACWA Workshop: https://bacwa.org/bacwa-toxicity-workshop-september-18-2017/</p> <p>Regional Water Board presentation on implementation of Statewide Toxicity Provisions from December 2020: https://bacwa.org/wp-content/uploads/2021/01/Slides-from-RWQCB-Regarding-R2-Tox-Language-in-NPDES-Permits-2020-12-08.pdf</p>

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COMPOUNDS OF EMERGING CONCERN (CECS)			
<ul style="list-style-type: none"> Pharmaceuticals and other trace compounds of emerging concern (CECs) are ubiquitous in wastewater at low concentrations and have unknown effects on aquatic organisms. The State Water Board has formed a Pretreatment and CECs Unit. Region 2's CEC strategy focuses on monitoring/tracking concentrations of constituents with high occurrence and high potential toxicity. Much of what the State Water Board is considering for its monitoring program is already being implemented in Region 2 through the RMP. 	<ul style="list-style-type: none"> The Regional Water Board has stated that voluntary and representative participation in RMP CECs studies is key to avoiding regulatory mandates for CECs monitoring. These studies are informational and not for compliance purposes. BACWA developed a White Paper on representative participation to be used to support facility selection for these studies. Bay dischargers are continuing to provide supplemental funding for RMP CECs studies through the NPDES Permit Amendment for Monitoring and Reporting adopted in December 2021 by the Regional Water Board. 	<ul style="list-style-type: none"> Continue to participate in the RMP Emerging Contaminants Workgroup. Participate in RMP studies by collecting wastewater samples at member facilities. Studies in 2022 will include ethoxylated surfactants in wastewater, in addition to the Regional PFAS Study and OPC-funded microplastic study (see below). Provide ongoing updates to White Paper for use by the RMP in selecting representative POTWs for participation in CEC studies, and develop a proposal for ongoing monitoring. 	<p>RMP Emerging Contaminant Workgroup: http://www.sfei.org/rmp/ecwg#tab-1-4</p> <p>BACWA CECs White Paper: https://bacwa.org/document/bacwa-cec-white-paper-updated-june-2020/</p> <p>NPDES Permit Amendment for Monitoring and Reporting https://www.waterboards.ca.gov/sanfranciscobay/board_decisions/adopted_orders/2021/R2-2021-0028.pdf</p>
MICROPLASTICS			
<ul style="list-style-type: none"> Microplastic pollution is a environmental threat with the potential to impact wastewater disposal and reuse, as well as biosolids end uses. Microplastics have been a focus of the RMP in recent years. BACWA has participated in the Workgroup and developed a POTW Fact Sheet. One conclusion of the RMP work is that POTWs contribute much lower microplastic loads than stormwater. As a result, the RMP is focusing future microplastics sampling efforts on stormwater pathways. 	<ul style="list-style-type: none"> In February 2022, the Ocean Protection Council adopted a Statewide Microplastics Strategy that calls for increased water recycling, additional monitoring of wastewater, source control in wastewater, and additional scientific research. In 2021, the OPC funded a study investigating microplastic removal through wastewater treatment processes. The study is being carried out by SCCWRP. The study commenced in 2021 with a pilot study involving BACWA member agency participation. Full-scale sampling and analysis of influent, effluent, and biosolids is planned for 2022. 	<ul style="list-style-type: none"> Continue to participate in the RMP Microplastics Workgroup. One or more BACWA member agencies may be selected to participate in the OPC-funded microplastic study. Continue tracking State Water Board and Ocean Protection Council actions via the CASA Microplastics Workgroup. CASA is working with SCCWRP to provide additional funding for testing of new sample collection and analysis methods. 	<p>BACWA Microplastics Fact Sheet: https://bacwa.org/wp-content/uploads/2019/09/BACWA-Microplastics-flyer.pdf</p> <p>SFEI Microplastics project: https://www.sfei.org/projects/microplastics</p> <p>Ocean Protection Council Microplastics Strategy: https://www.opc.ca.gov/webmaster/ftp/pdf/agenda_items/20220223/Item_6_Exhibit_A_Statewide_Microplastics_Strategy.pdf</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
PER- AND POLYFLUOROALKYL SUBSTANCES (PFAS)			
<ul style="list-style-type: none"> • Per- and polyfluoroalkyl substances (PFAS) are a large group of human-made substances that are very resistant to heat, water, and oil. PFAS have been used extensively in surface coating and protectant formulations; common PFAS-containing products are non-stick cookware, cardboard/paper food packaging, water-resistant clothing, carpets, and fire-fighting foam. • Perfluorooctane sulfonic acid (PFOS) and perfluorooctanoic acid (PFOA) are two types of PFAS that are no longer manufactured in the US; however, other types of PFAS are still produced and used in the US. • All PFAS are persistent in the environment, can accumulate within the human body, and have demonstrated toxicity at relatively low concentrations. PFOA and PFOS were found in the blood of nearly all people tested in several national surveys. • Potential regulatory efforts to address PFAS focus on drinking water in order to minimize human ingestion of these chemicals, although regulators have also expressed concern about uptake into food from land applied biosolids. • In April 2021, the formation of an "EPA Council on PFAS" was announced. 	<ul style="list-style-type: none"> • DDW has developed drinking water notification levels (NLs) and response levels for PFOA, PFOS, and Perfluorobutane Sulfonic Acid (PFBS). • At DDW's request, OEHHA is developing NLs for seven other PFAS compounds and public health goals (PHGs) for both PFOA and PFOS as the next step in establishing drinking water MCLs. • In July 2021, OEHHA proposed a PHG of 0.007 ng/L for PFOA and 1 ng/L for PFOS. • In July 2020, the SWRCB issued an Investigative order for POTWs. Investigative orders have also been issued for landfills, airports, chrome platers, and refineries & bulk terminals. The July 2020 SWRCB investigative Order for POTWs is <u>not</u> applicable to Region 2 agencies. • EPA is beginning pretreatment standards rulemaking for two types of industrial users: Metal Finishing, and Organic Chemicals, Plastics and Synthetic Fibers. • In September 2021, EPA released Draft Method 1633 for analysis of PFAS in complex matrices like wastewater. • In October 2021, state legislation passed banning PFAS in children's products (AB 652) and food packaging (AB 1200). 	<ul style="list-style-type: none"> • BACWA worked with RWB staff and obtained State Water Board approval to fund and conduct a Regional PFAS Study in lieu of the statewide investigative order. • SFEI is conducting this study in two phases: <ul style="list-style-type: none"> ○ In Phase 1, fourteen representative facilities collected samples in Q4 2020 for influent, effluent, RO concentrate, and biosolids. BACWA has prepared a Fact Sheet regarding Phase 1 results (see link at right). ○ Phase 2 of the PFAS Regional Study will be conducted in Spring 2022 and will include sampling of influent, effluent, and biosolids; residential sewersheds, commercial and industrial users; hauled waste; and groundwater. • BACWA's Phase 2 study results will support CASA's legislative efforts related to PFAS, such as sponsorship of AB 2247, which would initiate a publicly accessible reporting platform for PFAS in products. • BACWA will continue tracking developments at the State and Regional level. 	<p>BACWA PFAS Documents: https://bacwa.org/pfas-links/</p> <p>SWRCB PFAS Resources: https://www.waterboards.ca.gov/pfas/</p> <p>OEHHA Drinking Water: https://oehha.ca.gov/water</p> <p>EPA PFAS Resources https://www.epa.gov/pfas</p> <p>EPA PFAS Strategic Roadmap (Oct 2021) https://www.epa.gov/pfas/pfas-strategic-roadmap-epas-commitments-action-2021-2024</p> <p>AB 2247: https://leginfo.legislature.ca.gov/faces/billTextClient.xhtml?bill_id=202120220AB2247</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
SSS WDR REISSUANCE			
<ul style="list-style-type: none"> • The State Water Board plans to reissue the statewide Sanitary Sewer System General Order (SSS-WDR) in 2022. • State Water Board staff sought out early stakeholder engagement through outreach to CASA and the Regional Associations, and NGOs. • The State Water Board's goals for the update are: <ul style="list-style-type: none"> ○ Updating the 2006 Order ○ Clarifying compliance expectations and enhancing enforceability ○ Addressing system resiliency, including climate change impacts ○ Identifying valuable data and eliminating non-valuable reporting requirements 	<ul style="list-style-type: none"> • A draft for public review and comment was released on January 31, 2022. This version addressed many of BACWA and CASA's comments on the previous February 2021 informal staff draft. • BACWA worked with the Collection Systems committee, CASA, CVCWA, SCAP, and other allies to review the public review draft SSS-WDR, provide oral comments for the State Water Board and its staff, and prepare a detailed comment letter. Written comments were submitted in April 2022. 	<ul style="list-style-type: none"> • Continue to coordinate with State Water Board staff as the revised draft version of the SSS-WDR is prepared. State Water Board staff plan to prepare a response-to-comments document and revised draft for State Water Board consideration by late 2022. • Continue to coordinate with CASA, CVCWA, and SCAP on proposed revisions to the SSS-WDR. • Discuss response to issues such as exfiltration via BACWA's Collection Systems Committee. 	<p>State Water Board SSS-WDR page: https://www.waterboards.ca.gov/water_issues/programs/sso/</p> <p>Public Review Draft of SSS-WDR: https://www.waterboards.ca.gov/water_issues/programs/sso/docs/2022-01-draft-sanitary-sewer-systems-general-order.pdf</p> <p>BACWA Comment Letter on Public Review Draft: https://bacwa.org/wp-content/uploads/2022/04/BACWA-Comments-to-SWRCB-on-Draft-SSS-WDR-2022-04-08.pdf</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
ELAP UPDATE <ul style="list-style-type: none"> • In May 2020, the State Water Board adopted new comprehensive regulations for the Environmental Laboratory Accreditation Program. • Adoption of the new regulations was required by AB 1438, legislation that became effective in 2018. • The new ELAP regulations will replace the current state-specific accreditation standards with a national laboratory standard established by The NELAC Institute (TNI). 			
	<ul style="list-style-type: none"> • The new ELAP regulations became effective as of January 1, 2021. Compliance with TNI standards is required beginning January 1, 2024. • Adoption of TNI standards poses a challenge since there are more than 1,000 individual requirements. Setup costs may include: <ul style="list-style-type: none"> ○ Hiring and/or training staff; ○ Hiring consultants to set up the TNI documentation framework; ○ Purchasing Laboratory Information Management System (LIMS) software; ○ Purchasing documents and training material from TNI, etc. • The new standards will be a particular burden on small laboratories, which may choose to close if they cannot economically meet the new standards. • ELAP's "Roadmap to ELAP Accreditation" Program is the outreach and training component of the new regulations. ELAP staff have presented to the Lab Committee in June 2020, February 2021, and April 2021. ELAP has contracted with A2LA Workplace Training to provide training sessions. • The BACWA Lab Committee began providing monthly TNI training sessions beginning in July 2021. 	<ul style="list-style-type: none"> • Offer monthly training sessions to BACWA members. The free virtual training sessions are open to BACWA members holding a valid copy of the 2016 TNI Standard, and are occurring on the 3rd Tuesday of each month throughout 2022. Training is provided by Diane Lawver of Quality Assurance Solutions, LLC, and other subject matter experts. • Communicate with ELAP staff on behalf of BACWA's Laboratory Committee as new guidance and training materials are developed for TNI implementation and methods updates (e.g., new timeline tool linked at right) • Continue to work through BACWA's Laboratory Committee to support members as they navigate laboratory accreditation under the new TNI standards. • Publicize training opportunities offered by consultants, ELAP, and others. • Provide a forum for BACWA laboratories to share experiences and lessons learned from various approaches to TNI implementation. 	<p>State Water Board's 'Roadmap to ELAP Accreditation' page: https://www.waterboards.ca.gov/drinking_water/certlic/labs/roadmap_to_elap_accreditation.html</p> <p>Roadmap to Accreditation Presentation to BACWA Lab Committee: https://bacwa.org/wp-content/uploads/2020/06/California-ELAP-Regulations-BACWA_06092020.pdf</p> <p>State Water Board's ELAP regulations page: http://www.waterboards.ca.gov/drinking_water/certlic/labs/elap_regulations.shtml</p> <p>Monthly Training Session flyer: https://bacwa.org/wp-content/uploads/2021/07/BACWA-Lab-TNI-Training-Series-Flyer.pdf</p> <p>ELAP Timeline Guidance Tool: https://www.waterboards.ca.gov/drinking_water/certlic/labs/docs/2022/elap-scheduler-1-1.xlsx</p>

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PHASE-OUT OF BIOSOLIDS AS ALTERNATIVE DAILY COVER			
<ul style="list-style-type: none"> Regulatory drivers are indicating that biosolids used as alternative daily cover (ADC) or disposed in landfills will be phased out: <ul style="list-style-type: none"> AB 341 set a goal to recycle 75% of solid waste by 2020 and CalRecycle's plan to achieve that goal called for a marked, but unquantified, reduction of organics to landfills. SB 1383, adopted in September 2016 requires organics diversion: -50% by 2020 (relative to 2014) -75% by 2025 (relative to 2014) Regulations implementing SB 1383 went into effect on January 1, 2022, so the State can begin enforcement on jurisdictions. Jurisdictions can begin local enforcement January 1, 2024, and compliance is required by January 1, 2025. While the regulations implementing SB 1383 do not explicitly forbid biosolids disposal/reuse in landfills, it is assumed that since biosolids are a relatively "clean" waste stream that can be easily diverted, landfills will stop accepting biosolids. The Bay Area Biosolids Coalition (BABC) was formed to find sustainable, cost-effective, all-weather options for biosolids management. BABC is a BACWA Project of Special Benefit. 	<ul style="list-style-type: none"> BACWA's 2021 Biosolids Trends Survey Report compiles member agency activities in 2018-2020, as well as survey responses regarding SB 1383 implementation. Requirements for SB 1383 implementation include: <ul style="list-style-type: none"> Diverted biosolids must be anaerobically digested and/or composted to qualify as landfill reduction. Beginning Jan 1, 2022, CalRecycle will consider whether other specific treatment technologies can qualify as landfill reduction (per Article 2 of SB 1383). Local ordinances restricting land application are disallowed. Jurisdictions that divert organic waste must also procure the end products of diversion, such as biogas, biomethane, and compost (but not biosolids). Currently, some County ordinances restrict the beneficial reuse of biosolids. CalRecycle considers bans on land application to be unenforceable, and Cal Recycle has agreed to approach Counties with restrictive ordinances to conduct outreach and assess compliance. 	<ul style="list-style-type: none"> Follow efforts of the Regional Water Board to revise biosolids permitting requirements for land application and disposal. The recently completed <i>Biosolids in the Baylands</i> white paper will soon be released by the San Francisco Bay Joint Venture. The white paper identifies data gaps that may result in agencies with land application sites in the Baylands being required to conduct additional monitoring. Actively work through CASA with California Air Resource Board, CalRecycle, State Water Board, and California Department of Food and Agriculture to develop sustainable long-term options for biosolids beneficial use. Participate in BAAQMD's Organics Recovery Technical Working Group to educate their staff on implementation of SB 1383 at the Air District level. Meet with BAAQMD regularly in 2022 to discuss alignment of state and local regulations. Work with CASA and others to respond to CCDEH concerns regarding safety standards for land application (see July 2021 letter, link at right). 	<p>BACWA 2021 Biosolids Trends Survey Report: https://bacwa.org/wp-content/uploads/2021/12/BACWA-2021-Biosolids-Trends-Survey-Report.pdf</p> <p>BABC website: http://www.bayareabiosolids.com/</p> <p>CASA White Paper on SB 1383 Implementation: https://bacwa.org/document/summary-of-sb-1383-and-its-implementation-casa-2020/</p> <p>CASA July 2021 Response Letter to CCDEH https://casaweb.org/wp-content/uploads/2021/07/CASA-Response-to-CCDEH-Letters-071321.pdf</p> <p>CalRecycle website for California Short-Lived Climate Pollutant Reduction Strategy https://www.calrecycle.ca.gov/organics/slcp</p> <p>CalRecycle FAQ for SB 1383 Implementation https://calrecycle.ca.gov/organics/slcp/faq</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
CLIMATE CHANGE MITIGATION			
<ul style="list-style-type: none"> • CARB's Climate Change Scoping Plan Update lays out the approach for the State to meet its greenhouse gas (GHG) emissions reduction targets through 2030, including additional policies to achieve 40% reduction below 1990 levels by 2030: <ul style="list-style-type: none"> ◦ Short-lived climate pollutants ◦ Carbon sequestration on Natural and Working Lands ◦ Largest emitters (transportation, electricity, and industrial sectors) The Scoping Plan is being updated in 2022 targeting carbon neutrality by 2045 and, if possible, 2035. • SB 1383 (Short-Lived Climate Pollutant Reduction) calls for: <ul style="list-style-type: none"> ◦ 40% methane reduction by 2030 ◦ 75% diversion of organic waste from landfills by 2025 ◦ Policy / regulatory development encouraging production/use of biogas • BAAQMD developed a Clean Air Plan requiring GHG emissions supporting CARB's 2050 target. • BAAQMD has proposed the development of Regulation 13 (climate pollutants) targeting GHG reductions related to organics diversion and management. • CARB states POTWs are part of the solution for reducing fugitive methane, and encourages diversion of organics to POTWs to use excess digester capacity and produce biogas. 	<ul style="list-style-type: none"> • CARB is pursuing rapid fleet electrification, including medium and heavy-duty vehicles, through the Advanced Clean Fleet rule. Complete electrification will be difficult for heavy-duty trucks, and will remove a potential market for biogas. CASA is engaging on this issue through the Scoping Plan Update and other avenues to request continued allowance of biogas as a sustainable transportation fuel. • Many POTWs are exploring energy generation, but BAAQMD TAC regulations could make such programs more difficult to implement. Direct injection of biogas to PG&E's pipelines or use as a transportation fuel may be more efficient. • The EPA is revisiting procedures for allocation of renewable fuel credits (RINs) for food waste-based and sludge-based biogas, and CASA is engaging on this issue. • CARB's previous interest in nitrous oxide emission estimates and/or emission factors for POTWs has shifted to toxic air contaminants. See Toxic Air Contaminants - BAAQMD Rule 11-18, AB 617, and AB 2588. • BAAQMD is developing a suite of Rules under Regulation 13 for climate pollutants methane and nitrous oxide. However, rule development has been suspended due to COVID-19 and lack of data. The delay is allowing time to summarize information about current best management practices. 	<ul style="list-style-type: none"> • Review a summary of the AIR committee-led survey regarding current methane management practices at anaerobic digesters and sludge lagoons. After committee review, this summary will be shared with BAAQMD staff. • Look for ways to inform BAAQMD on opportunities and challenges for climate change mitigation by Bay Area POTWs, including education about anaerobic digesters and POTW operations. • Work with PG&E and BAAQMD to explore options for POTWs to inject biogas into PG&E pipelines. In February 2022, the CPUC approved a mandatory biomethane procurement program for CA's four large gas IOUs (including PG&E) under SB 1440. CASA has been discussing the barriers to pipeline injection with CPUC staff, proposing a reduction in their standard from 990 Btu/scf to 970 Btu/scf. 	<p>Climate Change Scoping Plan, including 2022 Update: https://ww2.arb.ca.gov/our-work/programs/ab-32-climate-change-scoping-plan</p> <p>CARB Short Lived Climate Pollutant Reduction Strategy: https://www.arb.ca.gov/cc/shortlived/meetings/03142017/final_slcp_report.pdf</p> <p>CARB Advanced Clean Fleet Rule: https://ww2.arb.ca.gov/our-work/programs/advanced-clean-fleets/about</p> <p>SB 1383: https://www.calrecycle.ca.gov/organics/slcp</p> <p>BAAQMD Clean Air Plan: http://www.baaqmd.gov/plans-and-climate/air-quality-plans/current-plans</p> <p>BAAQMD Regulation 13 http://www.baaqmd.gov/rules-and-compliance/rules/regulation-13-climate-pollutants</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
CLIMATE CHANGE ADAPTATION			
<ul style="list-style-type: none"> Climate change and water resilience are a strategic priority of both the State Water Board and Regional Water Board. The Regional Water Board is planning to modify the Basin Plan to address climate change and wetland policy. The changes will occur through multiple Basin Plan amendments. In April 2019, Governor Newsom signed Executive Order N-10-19 directing State Agencies to recommend a suite of priorities and actions to build a climate-resilient water system and ensure healthy waterways through the 21st century. Bay Area coordination occurs through Bay Adapt, BayCAN, and other venues. BACWA has signed a letter of support for the Bay Adapt Joint Platform. In April 2022, the State released a California Climate Adaptation Strategy, including an updated climate change assessment for the Bay Area. 	<ul style="list-style-type: none"> The California Coastal Commission's November 2021 Sea Level Rise Planning Guidance recommends that agencies "understand and plan" for 2.7 feet of sea level rise by 2050. The State Water Board is planning to send a data request to all permitted facilities (collection systems and POTWs) in the State to better understand to what extent agencies are performing climate change vulnerability assessments and/or investing in adaptation measures. They plan to use this information to determine the need for funding assistance or permit requirements for climate change planning. The February 2022 Executive Officer's Report included a synthesis of the Regional Water Board's 2021 POTW questionnaire regarding climate change vulnerability and adaptation. In March 2022, the Regional Water released a draft Basin Plan amendment addressing dredge and fill procedures near the region's shorelines, especially for climate adaptation projects. The draft Amendment also references wastewater discharges to horizontal levee projects. BACWA prepared a comment letter supporting the amendment and suggesting minor edits. Although separate from the Basin Plan amendment, the NDPES division concurrently released draft guidance regarding NPDES permitting of nature-based solutions. 	<ul style="list-style-type: none"> Discuss follow-on actions to the current draft Basin Plan Amendment with Regional Water Board staff. The current Basin Plan amendment is focused on dredge and fill procedures, not NPDES permitting. Future Basin Plan amendments or other policy adjustments could incentivize wastewater agencies to participate in nature-based climate solutions. Continue to coordinate with State Water Board on the status of their data request on climate change planning, so members can provide the information they request as effectively as possible. Survey expected to be released in 2022. Continue to work with Regional Water Board and other resource agencies to look for regulatory solutions to encourage wetlands projects for shoreline resiliency. Coordinate with BABC, SFEI and Sonoma Land Trust to circulate the final version of the Biosolids in the Baylands white paper (see also Biosolids section, above). 	<p>California Coastal Commission's <i>Critical Infrastructure at Risk</i> https://documents.coastal.ca.gov/assets/slr/SLR%20Guidance_Critical%20Infrastructure_12.6.2021.pdf</p> <p>"Are Municipal Wastewater Agencies Prepared for Climate Change?" https://www.waterboards.ca.gov/rwqcb2/board_info/agendas/2022/February/5_eo.pdf</p> <p>Draft Climate Change Basin Plan Amendment" https://www.waterboards.ca.gov/sanfranciscobay/public_notices/#basin</p> <p>California Climate Adaptation Strategy https://climateresilience.ca.gov/</p> <p>Bay Adapt Joint Platform https://www.bayadapt.org/joint-platform/</p> <p>Bay Area Climate Adaptation Network (BayCAN) https://www.baycanadapt.org/</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
TOXIC AIR CONTAMINANTS			
<ul style="list-style-type: none"> Regulation 11, Rule 18 (Rule 11-18), adopted November 15, 2017, is BAAQMD's effort to protect public health from toxic air pollution from existing facilities, including POTWs. Per the Rule, BAAQMD will conduct site-specific Health Risk Screening Analyses (HRSAs) and determine each facility's prioritization score (PS). BAAQMD will conduct Health Risk Assessments (HRAs) for all facilities with a cancer PS>10 or non-cancer PS>1.0. After verifying the model inputs, if the facility still has PS above that threshold, that facility would need to implement a Risk Reduction Plan that may include employing Best Available Retrofit Control Technology for Toxics (TBARCT). AB 617 (Community Air Protection Program) – requires CARB to harmonize community air monitoring, reporting, & local emissions reduction programs for air toxics and GHGs). POTWs within communities already impacted by air pollution may have to accelerate implementation of risk reduction measures. AB 2588 (Air Toxics “Hot Spots” Program) - Establishes a statewide program for the inventory of air toxics emissions from individual facilities, as well as requirements for risk assessment and public notification of potential health risks. 2020 updates expanded compound list from >500 to >1,000. 	<ul style="list-style-type: none"> BACWA developed a White Paper on BAAQMD Rule 11-18 to describe its potential impacts on the POTW community. In response to a request by BAAQMD, the AIR Committee delivered a letter report summarizing specific challenges that POTWs would face in complying with the rule due to budgeting and planning constraints related to being public agencies. In response, BAAQMD moved all POTWs to Phase 2 to give sufficient time to update the model's inputs, and plan for emissions reduction or TBARCT, as needed. AIR Committee gathered data on proximity factors from each facility and submitted to BAAQMD for updating prioritization scores, which will be use in HRA development. In the <i>Final Statement of Reasons</i> for rulemaking on AB 617 and AB 2588, CARB provided the wastewater sector time to develop a short-list of relevant compounds and perform a pooled emissions estimating effort to update outdated default emission factors (through 2028). In December 2021, BAAQMD amended Rule 2-5 to reduce allowable levels of toxic air contaminants in new source permitting. In March 2022, BAAQMD and BACWA convened a working group to address concerns related to toxic air contaminants and rule-making, which will meet quarterly. 	<ul style="list-style-type: none"> Continue participating in the BAAQMD working group to discuss toxic air contaminants, rule development, and related issues. BACWA will provide information to BAAQMD about implementation of the two-step process. Participate in CASA Subgroup meetings to develop Step 1 of the two-step process. For Rule 11-18, respond to BAAQMD data request beginning in 2022. There will be a 60-day turn-around to comply with the data request. Following data collection and verification, BAAQMD will develop HRAs for facilities with a cancer PS>10 or non-cancer PS>1.0. Use the tool developed by the AIR Committee to address emission contributions from influent flows, which will be used to update emissions inventory values. Report “business as usual” for air toxics through 2028. If BAAQMD requests additional monitoring of air toxics, member agencies should refer to the one-page handout on this topic prepared by CASA. The wastewater sector has until 2028 to perform a statewide “two-step process” in collaboration with CARB and air districts to determine a shortlist of compounds relevant to the wastewater sector to report. 	<p>BAAQMD Rule 11-18 page: http://www.baaqmd.gov/rules-and-compliance/rules-development/rules-under-development/regulation-11-rule-18</p> <p>Rule 11-18 Process Flowchart: https://bacwa.org/document/baaqmd-11-18-process-flowchart-08-17-17/</p> <p>CARB page on AB 617 and AB 2588: https://ww2.arb.ca.gov/our-work/programs/criteria-and-toxics-reporting <i>Final Statement of Reasons</i> https://ww3.arb.ca.gov/board/15day/ctr/fsor.pdf</p> <p>CASA One-Page Handout on Air Toxics Reporting (Updated) https://bacwa.org/wp-content/uploads/2022/03/CTR-EICG_CASAOnePageIssue-Approach_March2022.pdf</p> <p>BAAQMD Rule 2-5 https://www.baaqmd.gov/rules-and-compliance/rules/reg-2-permits?rule_version=2021%20Amendments</p>

Background Highlights	Challenges and Recent Updates	Next Steps for BACWA	Links/Resources
RECYCLED WATER			
<ul style="list-style-type: none"> Approximately 10 percent of the municipal wastewater of Region 2 POTWs is currently recycled. Expansion of recycled water projects is a goal of many BACWA members, but implementation is slowed by high costs, regulatory uncertainty, and administrative requirements. As of 2018, the State Water Board has adopted uniform water recycling criteria for two types of Indirect Potable Reuse: surface water augmentation and groundwater augmentation. As of 2020, virtually all recycled water in Region 2 was produced at centralized facilities using municipal wastewater, and was treated to meet standards for non-potable reuse. 	<ul style="list-style-type: none"> Beginning in 2020, all agencies have been required to report monthly wastewater and recycled water volumes into the State's Geotracker database. Regulations for Direct Potable Reuse are under development. The State Water Board is required to adopt criteria for raw water augmentation by December 31, 2023. By the end of 2022, the State Water Board is required to adopt risk-based water quality standards for onsite treatment and reuse of non-potable water in multi-family, mixed use, and commercial buildings. San Francisco has already begun to implement a similar Onsite Non-Potable Reuse program for large developments in the city. BACWA is currently completing a Regional Evaluation of Potential Nutrient Discharge Reduction by Water Recycling, as required by the 2nd Nutrient Watershed Permit. 	<ul style="list-style-type: none"> Review draft regulations for Direct Potable Reuse and Onsite Non-potable Reuse and work through Recycled Water committee to develop comments, as needed. Track California legislation with potential impacts on recycled water funding, mandates, or regulations. For the study of nutrient removal via recycled water, review barriers and challenges to recycled water expansion identified by the study, and strategize next steps. 	<p>Water Boards Recycled Water Policy and Regulations https://www.waterboards.ca.gov/water_issues/programs/recycled_water/</p> <p>"Purple Book" of Recycled Water Regulations https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docume nts/lawbook/rwregulations .pdf</p> <p>August 2021 Draft DPR Regulations https://www.waterboards.ca.gov/drinking_water/certlic/drinkingwater/docs/2021/a ug2021addendum_ep.pdf</p> <p>Volumetric Annual Reporting Data: https://www.waterboards.ca.gov/water_issues/programs/recycled_water/volumetric_annual_reporting.html</p>

Previously covered issues with no updates can be found in previous [BACWA issues summaries](#).

ACRONYMS

ADC	Alternate Daily Cover
BAAQMD	Bay Area Air Quality Management District
BACT	Best Available Control Technology
BTU/SCF	British thermal units per standard cubic foot
CARB	California Air Resources Board

CASA	California Association of Sanitation Agencies
CAP	Criteria Air Pollutant
CEC	Compound of Emerging Concern
CIWQS	California Integrated Water Quality System
CVCWA	Central Valley Clean Water Agencies
CWEA	California Water Environment Association
DDW	Division of Drinking Water, State Water Resources Control Board
EC25/IC25	25% Effect Concentration/25% Inhibition Concentration
ELAP	Environmental Laboratory Accreditation Program
ELTAC	Environmental Laboratory Technical Advisory Committee
EPA	United States Environmental Protection Agency
FIFRA	Federal Insecticide, Fungicide, and Rodenticide Act
FY	Fiscal Year
GHG	Greenhouse Gas
HRSA	Health Risk Screening Analyses
HRA	Health Risk Assessment
MCL	Minimum Contaminant Level (Drinking Water)
MGD	Million Gallons per Day
NACWA	National Association of Clean Water Agencies
NELAC	National Environmental Laboratory Accreditation Conference
OAL	Office of Administrative Law
OEHHA	Office of Environmental Health Hazard Assessment
PCB	Polychlorinated Biphenyl
PFAS	Per- and Polyfluoroalkyl Substances
PFBS	Perfluorobutane Sulfonic Acid
PFOA	Perfluorooctanoic Acid
PFOS	Perfluorooctane Sulfonic Acid
POTW	Publicly Owned Treatment Works
PS	Prioritization Score
RMP	Regional Monitoring Program
RPA	Reasonable Potential Analysis
SCAP	Southern California Alliance of POTWs
SF Bay	San Francisco Bay
SFEI	San Francisco Estuary Institute
TAC	Toxic Air Contaminant
TMDL	Total Maximum Daily Load
TIN	Total Inorganic Nitrogen
TNI	The NELAC Institute
TST	Test of Significant Toxicity
WQBEL	Water Quality Based Effluent Limitation
WQO	Water Quality Objective

PFAS

FACT SHEET

Item No. 17.c



What Are PFAS?

Per and polyfluoroalkyl substances (PFAS)¹ are a group of man-made fluorinated compounds which are used for a variety of applications by both industry and residential households. These chemicals are widely used because they are resistant to heat, water, and oil. **PFAS are commonly found in every American household, and in products as diverse as:**



PFAS have been in commercial use since the 1940's and are abundant in today's society. Two of the most common types (PFOA and PFOA) were phased out of production in the United States in 2002 and 2015 respectively, but are still present in some imported products. PFOA and PFOS are found in every person's blood stream in the parts per billion range, though those concentrations have decreased by 70% for PFOA and 84% for PFOS between 1999 and 2014, which coincides with the end of the production and phase out of PFOA and PFOS in the United States.²

PFAS Are Ubiquitous in Our Homes and Our Environment

Several recent legislative and regulatory efforts across the US to address PFAS have focused on limiting levels in drinking water. However, there has been relatively little conversation about the presence of these chemicals in our everyday lives. In several studies, the mean and median concentration of PFOA in household dust in the United States was found to be between roughly 10,000 and 50,000 parts per trillion (ppt)³. **This means there is significantly more PFAS in the ambient dust in the average home than the levels currently being discussed as thresholds for drinking water.** Not only are PFAS part of the air we breathe and the products we use, but they have also been found in the food we eat. In other words, there are numerous human exposure pathways for PFAS beyond drinking water.

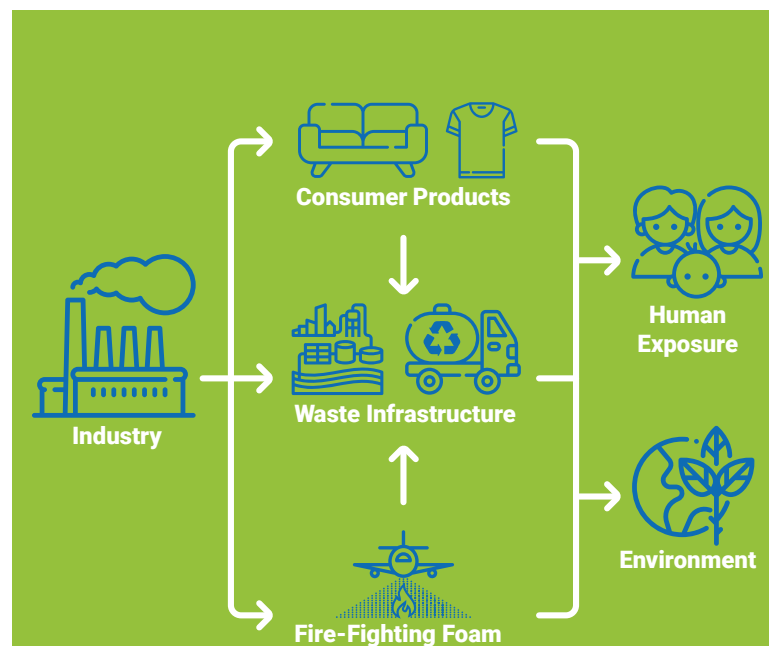
Importance of Human Health Protection

Agencies providing essential public services such as safe drinking water, wastewater treatment, water recycling, and biosolids recycling firmly believe in our **collective mission to ensure safe drinking water and sanitation services**. We also acknowledge and embrace our role as environmental and public health stewards and the responsibility of providing a healthy and clean environment now and for future generations. To that end, agencies would be in support of actions and regulations intended to ensure delivery of those services as long as they are based on credible science and developed after due deliberation. There is concern that in the case of PFAS, notification levels, thresholds, and in some cases limits are being developed in advance of the scientific and public process.

PFAS Producers and Heavy Users Are Not the Same as PFAS "Receivers"

Drinking water treatment systems and wastewater treatment facilities are not "producers" or users of PFAS, and **none of these essential public service providers utilize PFAS chemicals. Rather, they are "receivers" of these chemicals used by manufacturers and consumers, and merely convey or manage the traces of PFAS that we encounter in our daily lives.**

In order to address the true sources of these chemicals, discontinuation of production and use (both domestic and foreign) is necessary at manufacturing facilities and heavy use areas such as firefighting training sites. As long as PFAS are elements of products used in our everyday lives, and as long as background levels resulting from decades of manufacturing and use persist, they will continue to be found in the "receiver" streams.



Placing PFAS in Context: Distinguishing Contaminated Sites and Background Levels

Recent legislative and regulatory efforts to address PFAS have tended to not differentiate between concentrations at producer and heavy user contaminated sites and common background levels in drinking water, groundwater, recycled water, wastewater, or biosolids. The levels of PFAS found in these two scenarios are dramatically different. Sites found near manufacturers of PFAS can have levels of contamination at 100,000 to 500,000 ppt. At fire-fighting training sites, including military complexes, levels can be as high as 6,950,000 ppt.⁴ In these circumstances, it is clear that the producers and heavy users of PFAS have caused or contributed to the contamination of sites that need to be addressed. **In contrast, the action levels currently being discussed for drinking water systems range from 5–40 ppt, an exceptionally small fraction of the concentrations found at highly contaminated sites.**

Because of this vast disparity in relative contributions, product manufacturer responsibility and stewardship, as well as cleanup and remediation at highly contaminated sites, are the most efficient and effective methods of addressing these chemicals and protecting human health and the environment.

Drinking Water Thresholds and Unintended Consequences

The USEPA has set an advisory level of 70 ppt individually or combined for PFOA and PFOS in drinking water and is currently evaluating the need to develop maximum contaminant levels (MCL) for these and possibly other PFAS compounds. **For perspective, one part per trillion is the equivalent of four grains of sugar in an Olympic sized swimming pool, or the equivalent of one second in 32,000 years.** Even as EPA's work continues, states have begun setting their own PFAS standards for drinking water at a rapid pace and without following some of the usual regulatory and scientific review and public involvement procedures.

The public and political concern about PFAS is leading several states to move forward with regulatory standards or notification levels while the science is still developing. For example, the California State Water Board has established notification levels of 6.5 ppt for PFOS and 5.1 ppt for PFOA in drinking water, while other states have adhered to the USEPA health advisory level of 70 ppt for both combined. States adopting different standards for the same compounds can create confusion and risks undermining public confidence at a time when greater consistency is needed. **In fact, stringent state requirements could have significant unintended impacts on public municipalities and individuals, as numerous public systems could be deemed unusable and/or need to install expensive additional treatment systems.**

Background Levels of PFAS in Wastewater Effluent, Recycled Water and Biosolids

Strict PFAS standards for drinking water could also ultimately impact discharge limits on wastewater treatment plants, recycled water, and biosolids. Because PFAS are ubiquitous in households, consumer products, food, and the environment generally, they will typically make their way into the wastewater stream. After treatment, trace amounts of PFAS may also be found in biosolids. Of course, PFAS are also found in:



digestates



composts



paper mill residuals



soils

Given the ubiquity of PFAS, and the comparative background levels which may be found in wastewater and biosolids, setting requirements near analytical detection limits on these sources may not provide a discernable benefit to public health.

A Measured, Scientifically Sound Response to PFAS Contamination is Needed

Legislators, regulators, drinking water agencies, wastewater agencies, and others should work collaboratively to examine how to deal with PFAS holistically, with science guiding the decision making. We acknowledge and embrace our role as public health and environmental stewards to ensure safe drinking water and sanitation services. However, we know that science is still evolving to understand the fate, exposure, and toxicity of PFAS from environmental media, and the basic analytical methods needed to study these chemicals are still in development for media other than drinking water. Even the extent of human health impacts is not fully understood. This underscores the need to better understand the science and real world risk before setting exceedingly stringent thresholds or limits.

The goal should be to determine the most effective steps needed to reduce human exposure and implement them within the broad context of protecting human health. This requires differentiating high concentration sites from background concentrations and taking action to mitigate concentrations at high use sites. It also demands both a reassessment of products we produce and use daily, and a realistic assessment of how much any action is able to control PFAS already in the background environment. The most significant action we need to take today is to remove these chemicals of concern from the stream of commerce. Source reduction and pollution prevention can serve as the most efficient means of addressing persistent background presence of PFAS and effectively limit the occurrence of PFAS going forward.

1. PFAS is the broader class of chemicals that includes PFOA, PFOS, and many others.
 2. Centers for Disease Control and Prevention. Fourth Report on Human Exposure to Environmental Chemicals, Updated Tables, (January 2019). Atlanta, GA: U.S. Department of Health and Human Services, Centers for Disease Control and Prevention. [cdc.gov/exposurereport](https://www.cdc.gov/exposurereport)
 3. Trudel et al., Risk Analysis Vol. 28 No. 2, 2008
 4. [ewg.org/interactive-maps/2019_pfas_contamination/map](https://www.ehwg.org/interactive-maps/2019_pfas_contamination/map)



Livermore-Amador Valley Water Management Agency

June 21, 2022

The Honorable Benjamin Allen, Chair
 Senate Environmental Quality Committee
 1021 O Street, Suite 3230
 Sacramento, CA 95814

Subject: AB 2247 (Bloom): Support

Dear Chairman Allen:

The Livermore-Amador Valley Water Management Agency (LAVWMA) has a support position on AB 2247 (Bloom), which would require manufacturers of PFAS or products containing PFAS to disclose the presence of PFAS in those products in a publicly accessible database. This is important and necessary information that will inform state and local decision making regarding the management of PFAS in our watersheds and the environment. LAVWMA is a joint powers agency that includes the cities of Livermore and Pleasanton and the Dublin San Ramon Services District. The LAVWMA agencies collect and treat the wastewater for approximately 250,000 residents in Alameda and Contra Costa Counties.

Per- and Polyfluoroalkyl substance (PFAS) have recently become a topic of public concern, due to their high mobility and resistance to breaking down naturally in the environment, as well as the persistent detection of PFAS compounds in people's bodies. The State is comprehensively investigating levels of PFAS in our environment, with a particular focus on water and wastewater resources. While significant progress is being made towards identifying pathways of PFAS in our water and sewersheds, additional information is needed for agencies to be able to make efficient management decisions.

PFAS chemicals are both ubiquitous and indestructible. Without better information about sources of PFAS to support source control, local water management options are limited and costly, leading to affordability concerns for the delivery of essential public services. In some cases PFAS can be removed from water and wastewater at the end of the cycle through advanced treatment technology. However, there is no technologically feasible method for the large-scale destruction of PFAS compounds. Instead, once removed, PFAS residuals are merely displaced and transferred to another waste stream and typically cycle back through the waste management process.

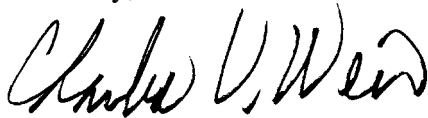
Because prevention is the best solution, local water and wastewater agencies need to know what exactly they are looking for in order to implement effective source reduction policies and programs to limit PFAS inputs into our systems. AB 2247 would allow LAVWMA and its member agencies to use the PFAS disclosure data required from manufacturers of PFAS or products containing PFAS to optimize pollution prevention programs at the local level through

The Honorable Benjamin Allen
AB2247 Support
June 16, 2022
Page 2

our local pre-treatment programs, and this information would generate consumer awareness about the chemicals used in everyday products and how they impact the environment. We need data to support practical and cost-effective management solutions, and AB 2247 is an important first step towards this end goal.

For these reasons the Livermore-Amador Valley Water Management Agency supports AB 2247 and urges your “aye” vote when it is heard in the Senate Environmental Quality Committee.

Sincerely,



Charles V. Weir
General Manager

c: Assembly Member Richard Bloom
[Jessica Gauger](#), California Association of Sanitation Agencies
Senator Steve Glazer
LAVWMA Member Agencies

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State Legislative Update 5/5

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AB 2247 Advances, State Legislative Committee to Meet Next Week

CASA is pleased to share that our co-sponsored bill, [AB 2247 \(Bloom\)](#) was heard in the Assembly Environmental Safety and Toxic Materials Committee last week and passed. The bill, which requires manufacturers to disclose PFAS in their products on a publicly accessible database, now advances to the Assembly Appropriations Committee. Several other bills CASA is tracking also advanced and will be discussed at the next State Legislative Committee meeting on May 13.

Senate Budget Plan Released



Last week, the Senate released its Budget plan in advance of the Governor's May Revise being released. There is some good news in the revise for wastewater agencies, although some of the details about their funding priorities are sparse. The entire plan can be viewed [here](#). There are several key takeaways of interest, including:

- A \$68 billion surplus which they propose to allocate to reserve funds and one-time investments. A significant note in the Budget plan states that the Senate is proposing a constitutional amendment to eliminate the "Gann Limit" which is a constitutional restriction on the use of surplus revenue over a certain level that was passed by voters in 1979.
- An \$18 billion Climate package that includes a \$7.5 billion Water and Drought package which is allocated as follows:
 - \$2 billion to rebalance state water supply and water rights.
 - \$1.5 billion for new CA Water Trust to acquire lands with senior water rights from willing sellers.
 - \$500 million to Dept. of Conservation for acquisition and repurposing of lands to implement the Sustainable Groundwater Management Act.
 - \$1.5 billion to ensure all Californians have safe drinking water.
 - \$1.5 billion for improving watershed climate resilience regionally.
 - \$1.5 billion Drought Resilient Water Supply grants, to assist with recycling, stormwater capture, and groundwater cleanup.
 - \$1 billion for Flood Management and Dam Safety grants to improve resilience of flood management system and fund public benefit portion of dam safety projects.
- The Climate package also includes Sea Level Rise investments of \$3.3 billion over multiple years to improve resilience, including funding to: Protect communities and natural resources; Urban Waterfront Protection; Ports, Public Infrastructure, and Ecosystem Protection; Fund SB



1 and match available federal funds; Focus on investments that encourage regional collaboration.

- Other climate mitigation investments in the Climate Package that do not yet have dollar figures tied to them include:
 - Build on Governor's significant investments in electric vehicles, abandoned oil well cleanup, clean energy projects, and building decarbonization.
 - Climate Equity Trust Fund. Establish Climate Equity Trust to help offset rising electricity costs, the Trust will ultimately be funded from various sources, including the GGRF.
 - Achieve SB 100 Interim Goals. Ensure funding to achieve interim goals of 90% of electric sales to end-use customers is from renewable energy and zero-carbon resources by 2035 and 95% by 2040.
 - Carbon Neutrality in State Operations by 2030. Invest in resources to ensure transition to zero-carbon resources for state operations to meet 2030 carbon neutrality goal.
 - High Road Labor Agreements for Clean Energy Projects. Promote high quality jobs with good wages and benefits for projects.

- Other key Budget priorities identified include (again these priorities have no funding amounts identified):
 - Senate Caucus Climate Working Group: Work with Senate Caucus Climate Working Group to ensure funding for key working group priorities. Focus on realistic and pragmatic climate solutions.
 - Cap-and-Trade Plan: Craft Cap-and-Trade Plan to maximize efforts in climate resilience and GHG emissions reduction. Zero-Emission Vehicles. Improve investments in zero-emission vehicles and infrastructure.
 - Clean Energy: Invest in clean energy to help the state meet its climate and air quality goals.
 - Short-Lived Climate Pollutants: Reduce emissions from refrigerants, agriculture, municipal waste, and diesel.
 - Organic Waste Infrastructure: Make investments for organic waste infrastructure to reduce methane emissions.
 - Circular Economy: Improve recycling opportunities to reduce litter, conserve resources, and minimize reliance on landfills.

By Cheryl MacKelvie | May 5th, 2022 | [Hot Topics](#) | [Comments Off](#)

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@CASA_CleanWater

Exciting news! 🇺🇸 Today, Representatives @RepLisaMcClain & @RepLowenthal introduced the "Protecting Infrastructure and Promoting Environmental Stewardship Act" (PIPES Act) to codify a flushability certification process for the marketing of single-use "flushable" wet wipes. pic.twitter.com/MmbDhLndcS

ABOUT US

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CONTACT US

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and advocacy on behalf of California clean water agencies,
and to be a leader in sustainability and utilization of
renewable resources.

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Federal Update 5/5

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CASA Joins Water Coalition Letter on PFAS, USEPA Announces Three Actions

Last week, a coalition of water sector stakeholders, including CASA, sent a letter to the House Committees on Transportation and Infrastructure and Energy and Commerce and the Senate Committee on Environment and Public Works' leadership urging Congress provide the water and wastewater sectors explicit CERCLA liability exemption if PFAS chemicals are designated as hazardous substances under the law. On the heels of the letter's transmittal to Congress, the U.S. Environmental Protection Agency (USEPA) announced three actions that the Office of Water is taking to address PFAS contamination. The actions include publishing improved methods to detect PFAS in water, instructions NPDES permitting and effluent limitation guidelines to reduce PFAS discharges into waterways and proposing the first Clean Water Act aquatic life criteria for PFOA and PFOS.

The actions are included in the [PFAS Strategic Roadmap](#) and follows the expected timelines provided in the Roadmap. The Roadmap is the guiding document for how the Agency will regulatorily address PFAS contamination over the next two years.

Below is a summary of the three actions as outlined in [USEPA's press release](#):

- **Improved Testing Methods:** Entitled, the *Screening Method for the Determination of Adsorbable Organic Fluorine (AOF) in Aqueous Matrices by Combustion Ion Chromatography (CIC)*, the improved method provides an aggregate measurement of chemical substances that contain carbon-fluorine bonds and will be useful for understanding the presence and forms of PFAS in wastewater when used in conjunction with methods that target individual PFAS. USEPA's Draft Method 1621 has successfully completed single laboratory validation. Multi-laboratory validation will take place this summer and the Agency intends to publish an updated version of the method later this year.
- **NPDES Permitting Requirements:** In a memo entitled, *Addressing PFAS Discharges in EPA-Issued NPDES Permits and Expectations Where EPA is the Pretreatment Control Authority*, the Agency provides instructions for monitoring provisions, analytical methods, the use of pollution prevention, and best management practices to address discharges of PFAS. The purpose of which is to help reduce PFAS pollution in surface water as the agency aggressively embarks to promulgate effluent guidelines, multi-validated analytical methods, and water quality criteria recommendations that address PFAS compounds. The Agency also plans to issue new guidance to state permitting authorities to address PFAS in NPDES permits in a future action.



- Criteria for Aquatic Life: The new criteria is intended to protect aquatic life in from the short-term and long-term toxic effects of PFOA and PFOS. Following the comment period, USEPA intends to issue final PFOA and PFOS recommended criteria. States and Tribes may consider adopting the final criteria into their water quality standards or can adopt other scientifically defensible criteria that are based on local or site-specific conditions.

USEPA Holds Buy America Webinar for Water Sector Stakeholders



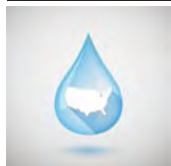
The U.S. Environmental Protection Agency's (USEPA) Office of Water hosted a webinar last week entitled, "Build America Buy America: Water Sector and Water Infrastructure Organizations, Associations, and Professional Trade Groups". The webinar was the second in a series the Agency is holding as it develops its programmatic implementation

procedures for the Build America, Buy America (BABA) mandates, following the [Office of Management and Budget's implementation guidance](#) to federal agencies earlier this month. The Agency has until May 14, 2022 to issue its guidance.

During the webinar, Office of Water (OW) staff provided an overview of the BABA requirements and what steps the Office will be taking in the upcoming weeks to develop programmatic procedures, including waiver processes that abide by the statutory requirements of BABA and OMB's guidance.

While there is the May 14th deadline to publish implementation procedures, OW staff stated their goal of developing strong and detailed procedures and, as a result, stated it is unlikely the Agency will publish the document by May 14. Additionally, they said that the OW will be developing procedures for waiver processes, but that it will take anywhere from six to eight weeks to finalize BABA waiver processes because of the bureaucratic approval process between USEPA and OMB. OW staff emphasized that as they develop BABA implementation procedures, they are requesting input from the water and manufacturer sectors and have created a dedicated [Office of Water BABA webpage](#) on USEPA's website to house information and submit questions.

Senate Committee Reports Out WRDA 2022



The Senate Committee on Environment and Public Works [reported out](#) the Water Resources Development Act (WRDA) 2022 this week by unanimous consent.

This year's WRDA is a narrowly focused U.S. Army Corps of Engineers (USACE) bill.

During the markup, Chairman Tom Carper (D-DE) praised the bipartisan approach to developing the legislation and highlighted the assistance provided to the Army Corps of Engineers to mitigate the impacts of climate change. Ranking Member Shelley Moore Capito (R-WV) emphasized the bill's importance to advance projects that impact local communities, states, and the nation and ensure effective delivery of Corps projects. Capito noted that the bill includes a new research program to help guide Corps decisions and project implementation. The bill now goes to the Senate floor for a debate. The House Committee on Transportation and Infrastructure are currently developing their WRDA 2022 bill.

By [Cheryl MacKelvie](#) | May 5th, 2022 | [Hot Topics](#) | [Comments Off](#)

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@CASA_CleanWater

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About 3 days ago from CASA_CleanWater's Twitter

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Media Release

San Francisco Bay Water Board names Eileen White as new executive officer

White brings EBMUD background and respected leadership to new role

May 19, 2022

Contact: [Blair Robertson](#), Public Information Officer

OAKLAND – The San Francisco Bay Regional Water Quality Control Board today announced the appointment of Eileen White as its executive officer, succeeding Michael Montgomery. Her first day is July 11.

White most recently served as director of East Bay Municipal Utility District's Wastewater Department, where she recently led the development of EBMUD's Integrated Master Plan for its main wastewater treatment plant, along with EBMUD's Climate Action Plan, to guide operations, investments and priorities for decades to come. White managed a workforce of 280 people.

"The board is delighted to welcome Eileen White, known throughout the region for her years of leadership at the East Bay Municipal Utility District in both wastewater and drinking water, areas of critical importance to us all," said Jim McGrath, chair of the San Francisco Bay Water Board.

"Eileen brings exceptional experience in strategic planning, managing complex operations, emergency response readiness, and preparing a major utility for sustainability and resilience," said Jayne Battey, the regional board's vice chair.

In addition to her more than three decades at EBMUD, White has served on the Board of the Bay Area Clean Water Agencies, a coalition of 42 agencies in the Bay Area that treat municipal wastewater for about 7.1 million customers. She has broad experience working with East Bay communities to address their needs throughout the planning, designing, and execution of drinking water and wastewater infrastructure improvements.

White currently serves as the chair of the National Association of Clean Water Agencies' Climate Change and Resilience Committee and is on the Board of the San Francisco Estuary Institute.

"I am thrilled to join the Water Board and bring my experience to bear to protect water quality throughout the Bay Area," said White. "I am also inspired by the board's





Media Release

forward-looking actions to address climate change impacts and look forward to supporting it reach its goals.”

White received her Bachelor of Science degree in civil engineering from the University of California, Berkeley.

The six-member San Francisco Bay Regional Water Quality Control Board extends appreciation to Tom Mumley, who served as interim executive officer since January 31, and to Lisa Horowitz McCann, the assistant executive officer, for their leadership of the board's team of managers and staff.

The mission of the San Francisco Bay Water Board is to preserve, enhance and restore the quality of California’s water resources for the protection of the environment, public health and all beneficial uses, and to ensure proper water resource allocation and efficient use for the benefit of present and future generations.

ITEM NO. 18 GENERAL MANAGER'S REPORT**Action Requested**

None at this time. This is an information item only.

Summary

The General Manager's (GM) tenure began on April 17, 2014. A two-year extension was approved on April 20, 2016, a three-year extension was approved on February 21, 2018, and an additional three year extension was approved on February 17, 2021. The agreement requires a report on hours worked during the fiscal year at each Board meeting. There is a limitation of 1,000 hours per fiscal year. For the fiscal year ending June 30, 2022 the General Manager has billed LAVWMA approximately 525 hours. The level of effort for FYE22 is normal, considering the number of capital projects to complete over the next two years.

In addition to the brief descriptions below, there are several items of interest for the Board's review:

1. Asset Management.

Asset Management continues to proceed. DSRSD staff are continuing to revise the GIS in order to increase accuracy of the locations of pipelines and appurtenances. They have going through the effort of documenting the manhole types in GIS to show where the new composite covers are installed. They have installed "SmartCover" Lids on a couple of locations. Maintenance staff have applied 30-50 asset QR tags and continue on others. The QR tags can be scanned to allow work orders to be entered into the maintenance management system. The focus for the near term will be to make sure that all of the LAVWMA pipeline assets that are in Lucity are tied to the GIS. Right now they are two separate things. Which means you cannot click on something in GIS and bring up its Lucity record. Another key effort will be to get the new MCC equipment entered into the system.

DSRSD staff strives to maintain and improve upon the data in the maintenance management system, CSAM, that drives the replacement modeling. Once all of the Pipeline information is organized and in concert with the GIS, we will be able to do more from an analysis perspective. A Business Risk Evaluation is the next step once the GIS work is completed. This would allow us to start work on development of Consequence of Failure and Probability of failure in order to define the critical assets within the system. This will provide the basic backbone of the asset management plan for the LAVWMA export/interceptor system and give us a place to move forward. This will ensure that the LAVWMA system is going to be able to comply with future regulatory requirements related to Asset Management.

2. Records Management Project.

The project itself has been completed. The Administrative Assistant search has been resolved by the action DSRSD took to hire an individual to assist DSRSD, LAVWMA and DERWA. This individual will be able to address the backlog of files that have not been entered into the system. This would include agendas, minutes, resolutions, agreements, and other items. This is not as much of a problem as it may appear as it would only take a few days to get everything entered into the system and filed. The proposed FY2022/23 Budget includes funds for this position

3. Wastewater Agency Response to COVID-19

Member Agency staff continue to follow all current guidelines issued by the Governor and Alameda County. Plans are underway for staff to begin returning to the office under prescribed conditions. The Omicron variant infections have been on the rise recently. Mask requirements indoors have been reinstated during this surge.

4. FYE21 Capital Project Planning

Please refer to the Action Item List, **Attachment No. 18.a** for a status report on all capital projects for FYE22. The General Manager is working closely with DSRSD staff to ensure that projects are managed as effectively as possible. The Action Item List has been modified to track all capital projects in addition to other key tasks.

5. Succession Planning

Work on this task is on target. The Staff Advisory Group (SAG) have reviewed a job description. The succession plan includes the following elements: 1) interfacing with staff at the member agencies to identify key persons to assist a new General Manager in the transition, and 2) identifying which member agency staff will fill in on a temporary basis if the General Manager becomes unavailable to serve. It is anticipated that a Request for Qualifications/Proposal for a new General Manager will be issued approximately one year before the incumbent's current agreement ends, April 17, 2024. This should allow adequate time for a transition and potential overlap between the two individuals.

6. FYE23 Insurance Estimate

The invoice from the Agency's insurance carrier, SDRMA, for 2022-23 Property and Liability has been received. As reported at the last meeting the invoice was for just under \$100,000. This amount has been included in the FY2022/23 Budget.

7. PG&E Costs

The General Manager now has access to the monthly invoices from the PG&E website. Due to the timing of this meeting, all bills for the fiscal year have been received and the total cost for power at the pump station is \$1,419,359. There are several attachments detailing the electrical expenses and trends for this fiscal year, including the following:

Attachment 18.b, Detailed Monthly Charges for FY2022/23

Attachment 18.c, Costs summary by type

Attachment 18.d, Graph of monthly costs by charge type

Attachment 18.e, Graph of monthly kWh costs

The first item, 18.b, shows all of the various charges by month. This spreadsheet provides an indication of the complexity of the bill and how DSRSD Operations manage to avoid the highest cost items. Item 18.c is just a summary of all of the charges from 18.b. Item 18.d provides a graphical presentation of the information in 18.c. Lastly, Item 18.e shows the trend of costs per kWh per month.

As can be seen from the data, the two highest costs are Max Demand Charge and the Off Peak Energy Charges. The Max demand is independent of time of day and is determined by the maximum number of pumps running at any given time. The fact that the highest cost is the Off Peak Energy Charges clearly shows the success of DSRSD staff running the pumps during the off peak period.

Following is a brief description of major activities since the November 17, 2021 Board meeting:

- Attended LAVWMA O&M meetings with DSRSD, Livermore and Pleasanton staff. Recent meetings have been Zoom web meetings.
- Updated Capital Project Planning and Action Item List.
- Prepared items for the June Board and SAG meetings and prepared packets for distribution. Updated the website for the cancelled May meeting and added the June special meeting. Posted the packet on the website.
- Drafted minutes from February 2022 Board meetings and revised based on comments received. Posted approved November 2021 minutes on the website.
- Cancelled May Board meeting and posted notice on website. Polled Board and rescheduled for June 29, 2022.
- Reviewed the Maze Engagement Letter for FYE audit services.
- Managed various capital projects, including reviewing all documents, submittals, RFIs, contract change orders, invoices, etc. Major projects include the MCC replacement, pump purchase, and SLSS improvements project.
- Continued working with the MCC team to finalize the last remaining programming items.
- Continued working with DSRSD staff for pipeline inspection project to begin fall 2022.
- Worked with DSRSD staff regarding potential recycled water projects, including the Regional Purified Water Pilot Project. Attended various meeting related to same.
- Logged into DSRSD system to review and approve invoices and review and respond to emails.

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- Reviewed, made minor edits, and commented on DSRSD's 3rd quarter O&M report.
- Continued reviewing PG&E bills to ensure they are using the proper rate schedule. Maintained all data in a spreadsheet for proper tracking and budget preparation. Noticed possibility of using only one feeder system each billing period to reduce demand charges and began discussion with Diep Nguyen regarding same. Will discuss with DSRSD staff when everyone returns from vacation.
- Sent comment letter to Livermore staff for the South Livermore Sewer Expansion Project.
- Worked with Trillium and West Yost on submittals; authorized production of the pumps.
- Began review of HydroScience 75% plans and specs for the SLSS project. Received and reviewed comments from DSRSD staff.
- Made updates to website as needed for files and legal requirements.
- Reviewed and commented on draft NPDES permits for DSRSD, Livermore, and EBDA.
- Kept SAG members informed on various issues and projects.
- Continued to work with General Counsel to track legislation of interest to LAVWMA and the member agencies.
- Worked with DSRSD staff, DTN Engineers, and Psomas on the MCC replacement project. Attended project update meetings. Reviewed all documents and correspondence between contractor, design engineer, and construction manager, including submittals, responses, requests for information, responses, and various technical reports required by the project.
- Drafted and finalized based on General Counsel comments Amendment No. 2 for DTN Engineers and sent through DocuSign for signatures.
- Attended Zoom Scoping meeting of EBDA's project to accept Cargill brine. Provided comments raising concerns for LAVWMA. Discussed same with EBDA GM.
- Continued working with DSRSD staff as they implement procedures responding to the new PG&E time of use schedule. DSRSD staff has done an excellent job during the summer period which has both peak and partial peak periods lasting from 2:00 p.m. to 11:00 p.m. Two pumps only have been used to pump fairly steadily during the off peak hours. This has greatly reduced cycling of the pumps. Refer to information on PG&E costs.
- Reviewed notices from PG&E regarding outages at pump station. Requested and received list of dates and times of outages and sent to Diep Nguyen to check with his contacts at PG&E. Not much of a response. Outages were relatively short and did not create any problems.
- Monitored progress of other pump station and O&M projects managed by DSRSD staff.
- Reviewed and approved invoices for MCC design, Royal Electric, MCC construction management, SLSS design, and corrosion control project for payment by DSRSD.
- Continued to Discuss Asset Management issues with DSRSD staff. LAVWMA will follow their lead.
- Worked with DSRSD staff and BofA to address cash shortage to pay O&M bill due to capital project expenses. Authorized transfer of funds and issuing first invoice to member agencies prior to budget approval.

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- Worked with DSRSD staff on various inquiries regarding projects near the forcemain to ensure there would be no issues of concern with the integrity of the forcemain.
- Reviewed and commented on draft annual wet weather report to Regional Board.
- Reviewed and provided comments on EBDA's disinfection master plan. Attended Zoom meetings and provided requested data. Met with EBDA staff to address impact of LAVWMA's flows on chlorine residual and agreed to pay a nominal fee to add hypochlorite at the Oro Loma Pump Station to ensure compliance with bacteriological standards.
- Tracked progress of Corrpro cathodic protection project on the pipelines.
- Discussed DSRSD hiring a new administrative assistant to assist DERWA and LAVWMA.
- Provided requested insurance documents and loss run to auditor.
- Attended EBDA Managers Advisory Committee (MAC) meetings. Made notes of same and shared with SAG members.
- Attended EBDA tour of Lystek biosolids processing facility in Fairfield. Sent collected information to the member agencies.
- Followed EBDA budget development process and impacts on LAVWMA costs.
- Worked with DSRSD staff to develop capital projects for FYE23.
- Worked with DSRSD staff to update QuickBooks software for LAVWMA accounting purposes.
- Worked with DSRSD staff to gather information on O&M costs for budget development. Prepared FYE23 O&M and Capital Budget, including all charts, graphs, capital project description, and debt service. Incorporated new 2021 debt service tables into the budget. Separated debt service costs between DSRSD and Pleasanton per DSRSD staff request.
- Participated in NPDES permit renewal process for EBDA, DSRSD, and Livermore.
- Prepared and submitted monthly invoices for LAVWMA General Management services.
- Logged into Samsara website at various times to monitor pump station and flows.
- Reviewed and approved DSRSD monthly invoices for O&M services.
- Continued working with EBDA and LAVWMA agency staff to address enterococcus issues.
- Used DocuSign system for Board Resolutions, Agreements, minutes, and other documents.
- Reviewed EBDA, DSRSD, and DERWA agenda packets.
- Reviewed and directed handling of scanned mail sent by DSRSD staff.
- Compiled all relevant files for ultimate filing in the new system for the new administrative person at DSRSD.
- Responded to various emails and phone calls from outside agencies and organizations.

Next Meeting

The next Regular Board meeting is scheduled for August 17, 2022.

Recommendation

None at this time. This is an information item only.

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Agenda Explanation
Livermore-Amador Valley
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Attachments

- 18.a Action Item List
 - 18.b Detailed Monthly Charges for FY2022/23
 - 18.c Costs summary by type
 - 18.d Graph of monthly costs by charge type
 - 18.e Graph of monthly kWh costs
-

LAVWMA Action Item List

Month: Jun-22

SAG Task	Responsible Party	Due Date	Status	Completion Date
Items for June 2022 LAVWMA Board Meeting.	SAG	NA	May 18, 2022 Meeting cancelled due to COVID issues and was rescheduled to June 29, 2022. Primary items are the FY2022/23 O&M and Capital Project Budget, updates on current capital projects, annual Board rotation, continuing with remote meetings, changing regular meeting location back to DSRSD, update on the Regional Purified Water Pilot Project, biennial review of the conflict of interest code, legal and legislative issues, and the GM report.	
Operations Coordination Committee Task	Responsible Party	Due Date	Status	Completion Date
FYE21 Replacement Projects: See Items Below	Weir/Zavadi/Delight	Various dates	Refer to information below.	
MCC and Soft Starter Replacement Project. Carryover from FYE20 and into FYE21. Estimated design cost \$250,000. Project now includes Electrical Improvements to the Main Switchgear at the Pump Station. Total estimated cost \$2,300,000 - \$2,500,000.	Weir/Atendido	12/31/2021	Project is nearly complete. Remaining items are all punch list related and include some programming of instrumentation and controls. Anticipate completion before the end of this fiscal year.	Expected by 6/30/22
Purchase Three New Pumps and Rebuild Two Associated Motors. Estimated cost has increased to \$460,000	Weir/Quinlan	9/30/2022	Pumps are in production and are due to be delivered December 16, 2022.	9/30/2022
Resealing of all Three Storage Basins. Estimated cost \$200,000	Quinlan	12/31/2020	Project is complete. Some issues due to water getting under some of the seal areas. Update needed.	6/30/2021
San Leandro Sample Station Design Improvements. Estimated cost \$1,000,000 plus engineering costs of \$230,000 for a total of \$1,230,000	Weir	10/30/2022	The 75% design drawings, revised cost estimate, and technical specs were received May 9, 2022 and are under review by DSRSD and LAVWMA staff. Livermore and Pleasanton are also welcome to review and comment.	10/30/2022
Road Drainage Improvements at the Pump Station. Estimated cost \$35,000	TBD	12/31/2020	Completed	
Cathodic Protection Projects. Estimated cost \$185,000	Weir/Atendido	12/31/2020	Corrpro has completed most items that did not require any excavation. Permits have been received for three projects needing excavation and were provided to Corrpro. No word from Corrpro in the last several months.	
PLC Upgrade at the Pump Station. Estimated cost \$300,000	TBD	6/30/2021	Will be included in DSRSD SCADA project, which is design build. Project has begun. Scoping meetings with staff have been held and the project is still in development.	
Pipeline Inspection. Estimated cost \$100,000	TBD	6/30/2021	DSRSD has outlined a plan for an inspection in the summer/fall time frame.	
Smart Detectors on High Maintenance Air/Vac and Air Release Valves. Estimated cost \$40,000	TBD	6/30/2021	The smart detectors are intended to help prevent leaks from the valves along the forcemain system. Six have been installed for testing and have proven to be beneficial.	
Rewiring the actuators on the pump deck. Estimated cost \$50,000.	Atendido	12/31/2021	Royal Electric provided a change order estimate of \$10,500, which has been issued. Project is complete.	
Other Items				
Wet Weather Issues	Sevilla	10/31/2020	None at this time.	
Live test of SLSS system	Sevilla/Atendido	TBD	A test was conducted on November 3, 2021. There were no significant issues encountered during the test. The SLSS design engineer was on site and gathered valuable information that will assist in the upgrade design.	
Live test of Alamo Canal discharge during wet weather	Carson/Sevilla	TBD	Test postponed due to COVID-19. Was planning on this winter, but will likely be delayed until 2022 due to COVID-19.	
Wet Well Isolation Gates	Quinlan	6/30/2019	Gate is in good shape but won't fully close. No date set, perhaps this winter.	
EBDA Enterococcus Issue	Sevilla		Some issues at this time, but EBDA is on top of it and adding hypo at OLEPS.	
YTD O&M Expenses compared to budget	Carson, Weir	Ongoing	No issues at this time.	

PG&E Energy Cost Summary for FYE22

Detailed Monthly Charges

Meter A Rate Schedule B20S - Business High Use

Month	Customer Charge			Demand Charge Max Peak								Total Monthly Cost	Demand Charge Max Part Peak					
	Number	Unit	Unit Cost	Cost	Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost	Number P1	Unit	Unit Cost	Cost	Number P2	Unit
6/15 - 7/14/2021	30	Days	\$ 50.04986	\$ 1,501.50		kW		\$0.00		kW		\$0.00	\$0.00		kW		\$ -	kW
7/15 - 8/15/2021	32	Days	\$ 50.30194	\$ 1,609.66		kW				kW					kW			207 kW
8/16 - 9/14/2021	30	Days	\$ 50.58763	\$ 1,517.63		kW				kW			368 kW	\$ 5.61000	\$ 2,064.48		kW	
9/15 - 10/13/2021	29	Days	\$ 50.58763	\$ 1,467.04		kW				kW				kW				kW
10/14 - 11/12/2021	30	Days	\$ 50.58763	\$ 1,517.63	747	kW	\$ 1.80000	\$ 1,344.60		kW			\$ 1,344.60		kW			kW
11/13 - 12/13/2021	31	Days	\$ 50.58763	\$ 1,568.22		kW				kW				kW				kW
12/14/2021 - 1/11/2022	29	Days	\$ 51.73906	\$ 1,500.44	378	kW	\$ 1.80000	\$ 422.32		kW			\$ 422.32		kW			kW
1/12 - 2/10/2022	30	Days	\$ 53.62321	\$ 1,608.70	35	kW	\$ 1.80000	\$ 63.00		kW			\$ 63.00		kW			kW
2/11 - 3/14/2022	32	Days	\$ 53.66810	\$ 1,717.38		kW				kW				kW				kW
3/15 - 4/13/2022	30	Days	\$ 53.72582	\$ 1,611.77		kW				kW				kW				kW
4/14 - 5/12/2022	29	Days	\$ 53.72582	\$ 1,558.05		kW				kW				kW				kW
5/13 - 6/12/2022	31	Days	\$ 55.49780	\$ 1,720.43	22	kW	\$ 2.34000	\$ 31.55	26	kW	\$ 30.06000	\$ 302.54	\$ 334.09		kW			27 kW
TOTALS	363			\$ 18,898.44	1182				26				\$ 2,164.01	368				234

Meter B Rate Schedule B20S - Business High Use

													Total Monthly Cost									
Month	Customer Charge				Demand Charge Max Peak								Demand Charge Max Part Peak									
	Number	Unit	Unit Cost	Cost	Number	P1	Unit	Unit Cost	Cost	Number	P2	Unit	Unit Cost	Cost	Number	P1	Unit	Unit Cost	Cost	Number	P2	Unit
6/15 - 7/14/2021	30	Days	\$ 50.04986	\$ 1,501.50	19		kW	\$26.38000	\$501.22			kW		\$0.00	\$501.22	21		kW	\$ 5.57000	\$ 116.97		kW
7/15 - 8/15/2021	32	Days	\$ 50.30194	\$ 1,609.66	19		kW	\$26.38000	\$266.27	22		kW	\$26.51000	\$273.38	\$539.66	19		kW	\$ 5.57000	\$ 56.22	158	kW
8/16 - 9/14/2021	30	Days	\$ 50.58763	\$ 1,517.63	20		kW	\$26.51000	\$530.20			kW			\$530.20	20		kW	\$ 5.61000	\$ 112.20		kW
9/15 - 10/13/2021	29	Days	\$ 50.58763	\$ 1,467.04	20		kW	\$26.51000	\$292.52	19		kW	\$ 1.80000	\$15.33	\$307.86	19		kW	\$ 5.61000	\$ 58.81		kW
10/14 - 11/12/2021	30	Days	\$ 50.58763	\$ 1,517.63	1790		kW	\$ 1.80000	\$3,222.00			kW			\$3,222.00			kW				kW
11/13 - 12/13/2021	31	Days	\$ 50.58763	\$ 1,568.22	20		kW	\$ 1.80000	\$20.90	1798		kW	\$ 1.80000	\$1,357.20	\$1,378.10			kW				kW
12/14/2021 - 1/11/2022	29	Days	\$ 51.73906	\$ 1,500.44	1817		kW	\$ 1.80000	\$2,030.03	925		kW	\$ 1.80000	\$631.55	\$2,661.58			kW				kW
1/12 - 2/10/2022	30	Days	\$ 53.62321	\$ 1,608.70	38		kW	\$ 1.80000	\$68.40			kW			\$68.40			kW				kW
2/11 - 3/14/2022	32	Days	\$ 53.66810	\$ 1,717.38	40		kW	\$ 1.80000	\$40.50	926		kW	\$ 2.34000	\$947.99	\$988.49			kW				kW
3/15 - 4/13/2022	30	Days	\$ 53.72582	\$ 1,611.77	1338		kW	\$2.34000	\$3,130.92			kW			\$3,130.92			kW				kW
4/14 - 5/12/2022	29	Days	\$ 53.72582	\$ 1,558.05	906		kW	\$2.34000	\$2,120.04			kW			\$2,120.04			kW				kW
5/13 - 6/12/2022	31	Days	\$ 55.49780	\$ 1,720.43			kW											kW			22	kW
TOTALS	363			\$ 18,898.44	6027					3690					\$15,448.47	79					180	

Meters A & B Combined Rate Schedule B20S - Business High Use

													Total Monthly						
Month	Customer Charge				Demand Charge Max Peak								Cost	Demand Charge Max Part Peak					
	Number	Unit	Unit Cost	Cost	Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost		Number P1	Unit	Unit Cost	Cost	Number P2	Unit
6/15 - 7/14/2021	30	Days	\$ 50.04986	\$ 3,002.99		19	kW		\$0.00			\$0.00	\$501.22		21	kW	\$ 116.97		0 kW
7/15 - 8/15/2021	32	Days	\$ 50.30194	\$ 3,219.32		19	kW					\$273.38	\$539.66		19	kW	\$ 56.22		365 kW
8/16 - 9/14/2021	30	Days	\$ 50.58763	\$ 3,035.26		20	kW					\$0.00	\$530.20		388	kW	\$ 5.61000	\$ 2,176.68	0 kW
9/15 - 10/13/2021	29	Days	\$ 50.58763	\$ 2,934.08		20	kW					\$15.33	\$307.86		19	kW	\$ 58.81		0 kW
10/14 - 11/12/2021	30	Days	\$ 50.58763	\$ 3,035.26	2537	kW	\$ 1.80000	\$ 4,566.60				\$0.00	\$4,566.60		0	kW	\$ -		0 kW
11/13 - 12/13/2021	31	Days	\$ 50.58763	\$ 3,136.43		20	kW					\$1,357.20	\$1,378.10		0	kW	\$ -		0 kW
12/14/2021 - 1/11/2022	29	Days	\$ 51.73906	\$ 3,000.88	2195	kW	\$ 1.80000	\$ 2,452.34				\$631.55	\$3,083.90		0	kW	\$ -		0 kW
1/12 - 2/10/2022	30	Days	\$ 53.62321	\$ 3,217.39		73	kW	\$ 1.80000	\$ 131.40			\$0.00	\$131.40		0	kW	\$ -		0 kW
2/11 - 3/14/2022	32	Days	\$ 53.66810	\$ 3,434.76		40	kW					\$947.99	\$988.49		0	kW	\$ -		0 kW
3/15 - 4/13/2022	30	Days	\$ 53.72582	\$ 3,223.55	1338	kW						\$0.00	\$3,130.92		0	kW	\$ -		0 kW
4/14 - 5/12/2022	29	Days	\$ 53.72582	\$ 3,116.10		906	kW					\$0.00	\$2,120.04		0	kW	\$ -		0 kW
5/13 - 6/12/2022	31	Days	\$ 55.49780	\$ 3,440.86		22	kW					\$302.54	\$334.09		0	kW	\$ -		49 kW
TOTALS	363			\$ 37,796.88	7209				0				\$17,612.48	447					414

Total Monthly Cost				Demand Charge Max Demand								Energy Charges Peak							
Unit Cost	Cost			Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost	Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	
	\$0.00	\$0.00		733	kW	\$ 22.81000	\$16,719.73		kW		\$0.00	\$16,719.73		kWh			kWh		
\$ 5.61000	\$544.35	\$544.35		378	kW	\$ 22.81000	\$4,580.53	716	kW	\$23.03000	\$7,729.44	\$12,309.98		kWh			kWh		
		\$2,064.48		1126	kW	\$ 23.03000	\$25,931.78		kW			\$25,931.78		kWh			kWh		
				1126	kW	\$ 23.03000	\$14,307.19	1130	kW	\$23.03000	\$11,665.89	\$25,973.08		kWh			kWh		
				1487	kW	\$ 23.03000	\$34,245.61		kW			\$34,245.61		kWh			kWh		
				1870	kW	\$ 23.03000	\$25,006.12		kW			\$25,006.12		kWh			kWh		
				379	kW	\$ 23.03000	\$5,417.61	1396	kW	\$26.67000	\$14,122.22	\$19,539.83		kWh			kWh		
				1903	kW	\$ 26.67000	\$50,753.01		kW			\$50,753.01		kWh			kWh		
				1114	kW	\$ 26.67000	\$16,712.09		kW			\$16,712.09		kWh			kWh		
					kW				kW					kWh			kWh		
				388	kW	\$ 26.29000	\$10,200.52		kW			\$10,200.52		kWh			kWh		
\$ 6.13000	\$64.07	\$ 64.07		86	kW	\$ 26.29000	\$1,385.74	84	kW	\$28.04000	\$911.75	\$2,297.49		kWh			kWh		
		\$2,672.89		10590				3326				\$239,689.24		10579			713		

Total Monthly Cost				Demand Charge Max Demand								Energy Charges Peak							
Unit Cost	Cost			Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost	Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	
	\$0.00	\$116.97		531	kW	\$ 22.81000	\$12,112.11		kW		\$0.00	\$12,112.11		kWh			kWh		
\$ 5.61000	\$415.49	\$471.71		524	kW	\$ 22.81000	\$6,349.73	527	kW	\$23.03000	\$5,689.13	\$12,038.86		kWh			kWh		
		\$112.20		462	kW	\$ 23.03000	\$10,639.86		kW			\$10,639.86		kWh			kWh		
		\$58.81		395	kW	\$ 23.03000	\$5,018.95	83	kW	\$23.03000	\$856.87	\$5,875.83		kWh			kWh		
				1794	kW	\$ 23.03000	\$41,315.82		kW			\$41,315.82		kWh			kWh		
				1793	kW	\$ 23.03000	\$23,976.46	1859	kW	\$23.03000	\$17,953.74	\$41,930.20		kWh			kWh		
				1884	kW	\$ 23.03000	\$26,930.81	2118	kW	\$26.67000	\$21,426.13	\$48,356.93		kWh			kWh		
				934	kW	\$ 26.67000	\$24,909.78		kW			\$24,909.78		kWh			kWh		
				1818	kW	\$ 26.67000	\$27,273.41	1818	kW	\$26.29000	\$20,910.41	\$48,183.82		kWh			kWh		
				1385	kW	\$ 26.29000	\$36,411.65		kW			\$36,411.65		kWh			kWh		
				925	kW	\$ 26.29000	\$24,318.25		kW			\$24,318.25		kWh			kWh		
\$ 6.13000	\$52.20	\$ 52.20		1130	kW	\$ 26.29000	\$18,207.95	1128	kW	\$28.04000	\$12,243.53	\$30,451.48		kWh			kWh		
		\$811.89		13575				7533				\$336,544.59		91798			27948		

Total Monthly Cost				Demand Charge Max Demand								Energy Charges Peak							
Unit Cost	Cost			Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost	Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	
	\$0.00	\$ 116.97		1264	kW	\$ 22.81000	\$ 28,831.84		0 kW		\$0.00	\$ 28,831.84		kWh			kWh		
\$ 5.61000	\$959.84	\$ 1,016.06		902	kW	\$ 22.81000	\$ 10,930.27	1243	kW	\$23.03000	\$13,418.57	\$ 24,348.84		kWh			kWh		
		\$ 2,176.68		1588	kW	\$ 23.03000	\$ 36,571.64		0 kW		\$0.00	\$ 36,571.64		kWh			kWh		
		\$ 58.81		1521	kW	\$ 23.03000	\$ 19,326.14	1213	kW	\$23.03000	\$12,522.76	\$ 31,848.90		kWh			kWh		
		\$ -		3281	kW	\$ 23.03000	\$ 75,561.43		0 kW		\$0.00	\$ 75,561.43		kWh			kWh		
		\$ -		3663	kW	\$ 23.03000	\$ 48,982.58	1859	kW		\$17,953.74	\$ 66,936.32		kWh			kWh		
		\$ -		2263	kW	\$ 23.03000	\$ 32,348.41	3514	kW	\$26.67000	\$35,548.35	\$ 67,896.77		kWh			kWh		
		\$ -		2837	kW	\$ 26.67000	\$ 75,662.79		0 kW		\$0.00	\$ 75,662.79		kWh			kWh		
		\$ -		2932	kW			1818	kW	\$26.67000	\$20,910.41	\$ 64,895.91		kWh			kWh		
		\$ -		1385	kW				0 kW		\$0.00	\$ 36,411.65		kWh			kWh		
		\$ -		1313	kW				0 kW		\$0.00	\$ 34,518.77		kWh			kWh		
		\$ 116.27		1216	kW			1212	kW		\$13,155.28	\$ 32,748.97		kWh			kWh		
		\$3,484.79		24165				10859				\$576,233.82		102377			28661		

Total Monthly Cost		Energy Charges Part Peak								Total Monthly Cost	Energy Charges Off Peak								Total Monthly Cost
Cost		Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost		Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost	
\$0.00	\$0.00		kWh		\$ -		kWh		\$0.00	\$0.00	121614	kWh	\$ 0.10249	\$12,464.22		kWh		\$ -	\$12,464.22
			kWh			52	kWh	\$ 0.12298	\$6.39	\$6.39	60077	kWh	\$ 0.10249	\$6,157.29	61566	kWh	\$ 0.10249	\$ 6,309.90	\$12,467.19
		300	kWh	\$ 0.12298	\$ 36.89		kWh			\$36.89	300602	kWh	\$ 0.10249	\$30,808.70		kWh			\$30,808.70
\$0.00			kWh				kWh				200344	kWh	\$ 0.10249	\$20,533.26	188848	kWh	\$ 0.10233	\$ 19,324.82	\$39,858.07
\$995.42			kWh				kWh				171783	kWh	\$ 0.10233	\$17,578.55		kWh			\$17,578.55
			kWh				kWh				93222	kWh	\$ 0.10233	\$9,539.41		kWh			\$9,539.41
\$253.34			kWh				kWh				76026	kWh	\$ 0.10326	\$7,850.44	79347	kWh	\$ 0.10720	\$ 8,506.00	\$16,356.44
\$19.92			kWh				kWh				553743	kWh	\$ 0.10720	\$59,361.25		kWh			\$59,361.25
			kWh				kWh				12788	kWh	\$ 0.10720	\$1,370.87		kWh			\$1,370.87
			kWh				kWh					kWh				kWh			
			kWh				kWh				125288	kWh	\$ 0.12672	\$15,876.50		kWh			\$15,876.50
\$133.15	\$315.75		kWh			627	kWh	\$ 0.15333	\$96.14	\$96.14	4232	kWh	\$ 0.12672	\$536.28	2320	kWh	\$ 0.12693	\$ 294.48	\$830.76
\$1,584.43		300				679				\$139.43	1719719			\$182,076.77	332081				\$216,511.96

Total Monthly Cost		Energy Charges Part Peak								Total Monthly Cost	Energy Charges Off Peak								Total Monthly Cost
Cost		Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost		Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost	
\$0.00	\$255.27	1586	kWh	\$ 0.12298	\$ 195.05		kWh		\$0.00	\$195.05	153061	kWh	\$ 0.10249	\$ 15,687.22		kWh		\$ -	\$15,687.22
\$143.87	\$305.31	959	kWh	\$ 0.12298	\$ 117.94	882	kWh	\$ 0.12298	\$108.47	\$226.41	77227	kWh	\$ 0.10249	\$ 7,915.00	77449	kWh	\$ 0.10249	\$ 7,937.75	\$15,852.74
	\$277.16	1554	kWh	\$ 0.12298	\$ 191.11		kWh			\$191.11	64849	kWh	\$ 0.10249	\$ 6,646.37		kWh			\$6,646.37
\$104.24	\$251.23	828	kWh	\$ 0.12298	\$ 101.83		kWh			\$101.83	4113	kWh	\$ 0.10249	\$ 421.54	2884	kWh	\$ 0.10233	\$ 295.12	\$716.66
	\$2,624.42		kWh				kWh				653841	kWh	\$ 0.10233	\$ 66,907.55		kWh			\$66,907.55
\$1,362.82	\$1,539.66		kWh				kWh				403067	kWh	\$ 0.10233	\$ 41,245.85	366034	kWh	\$ 0.10326	\$ 37,796.67	\$79,042.52
\$1,998.46	\$7,425.53		kWh				kWh				565670	kWh	\$ 0.10326	\$ 58,411.08	284407	kWh	\$ 0.10720	\$ 30,488.43	\$88,899.51
	\$485.57		kWh				kWh				315052	kWh	\$ 0.10720	\$ 33,773.57		kWh			\$33,773.57
\$270.04	\$510.48		kWh				kWh				418336	kWh	\$ 0.10720	\$ 44,845.62	237306	kWh	\$ 0.12672	\$ 30,071.42	\$74,917.04
	\$423.04		kWh				kWh				450528	kWh	\$ 0.12672	\$ 57,090.91		kWh			\$57,090.91
	\$2,843.57		kWh				kWh				305499	kWh	\$ 0.12672	\$ 38,712.83		kWh			\$38,712.83
			kWh			5	kWh	\$ 0.15333	\$0.77	\$0.77	181321	kWh	\$ 0.12672	\$22,977.00	116850	kWh	\$ 0.12693	\$ 14,831.77	\$37,808.77
\$16,941.25		4927				887				\$715.16	3592564			\$394,634.54	1084930				\$516,055.70

Total Monthly Cost			Energy Charges Part Peak							Total Monthly Cost			Energy Charges Off Peak							Total Monthly Cost				
Cost			Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost				Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost			
\$0.00	\$	255.27		1586 kWh		\$	195.05	0 kWh		\$0.00	\$195.05			274675 kWh	\$ 0.10249	\$	28,151.44		0 kWh		\$	-		\$28,151.44
\$143.87	\$	305.31		959 kWh		\$	117.94	934 kWh	\$ 0.12298	\$114.86	\$232.80			137304 kWh	\$ 0.10249	\$	14,072.29		139015 kWh	\$ 0.10249	\$	14,247.65		\$28,319.93
\$0.00	\$	277.16		1854 kWh	\$ 0.12298	\$	228.00	0 kWh			\$228.00			365451 kWh	\$ 0.10249	\$	37,455.07		0 kWh		\$	-		\$37,455.07
\$104.24	\$	251.23		828 kWh		\$	101.83	0 kWh			\$101.83			204457 kWh	\$ 0.10249	\$	20,954.80		191732 kWh	\$ 0.10233	\$	19,619.94		\$40,574.73
\$0.00	\$	3,619.84		0 kWh		\$	-	0 kWh			\$0.00			825624 kWh	\$ 0.10233	\$	84,486.10		0 kWh		\$	-		\$84,486.10
\$1,362.82	\$	1,539.66		0 kWh		\$	-	0 kWh			\$0.00			496289 kWh	\$ 0.10233	\$	50,785.25		366034 kWh		\$	37,796.67		\$88,581.92
\$1,998.46	\$	7,678.88		0 kWh		\$	-	0 kWh			\$0.00			641696 kWh	\$ 0.10326	\$	66,261.53		363754 kWh	\$ 0.10720	\$	38,994.43		\$105,255.96
\$0.00	\$	505.49		0 kWh		\$	-	0 kWh			\$0.00			868795 kWh	\$ 0.10720	\$	93,134.82		0 kWh		\$	-		\$93,134.82
\$270.04	\$	510.48		0 kWh		\$	-	0 kWh			\$0.00			431124 kWh	\$ 0.10720				237306 kWh	\$ 0.10720	\$	30,071.42		\$76,287.91
\$0.00	\$	423.04		0 kWh		\$	-	0 kWh			\$0.00			450528 kWh	\$ 0.12672				0 kWh	\$ 0.12672	\$	-		\$57,090.91
\$0.00	\$	2,843.57		0 kWh		\$	-	0 kWh			\$0.00			430787 kWh					0 kWh		\$	-		\$54,589.33
\$133.15	\$	315.75		0 kWh		\$	-	632 kWh			\$96.90			185553 kWh					119170 kWh		\$	15,126.25		\$38,639.52
\$18,525.68			5227			1566			\$854.58			5312283			\$395,301.31			1417011			\$732,567.66			

Energy Charges Super Off Peak								Total Monthly Cost	Power Factor Adjustment	Energy Commission Tax	PDP Program Credits	Total Monthly Cost	Total kWh	Average \$/kWh
Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost							
	kWh		\$0.00		kWh			\$0.00	(\$42.56)	\$36.48		\$30,679.36	121614	\$0.25227
	kWh		\$0.00		kWh			\$0.00	(\$42.60)	\$36.51	(\$88.30)	\$26,843.17	121695	\$0.22058
	kWh		\$0.00		kWh			\$0.00	(\$105.32)	\$90.27	(\$334.88)	\$60,009.55	300902	\$0.19943
	kWh		\$0.00		kWh			\$0.00	(\$136.22)	\$116.75		\$67,278.73	389192	\$0.17287
	kWh		\$0.00		kWh			\$0.00	(\$62.73)	\$53.77		\$55,672.85	179241	\$0.31060
	kWh		\$0.00		kWh			\$0.00	(\$37.29)	\$27.97		\$36,104.43	93222	\$0.38730
	kWh		\$0.00		kWh			\$0.00	(\$78.63)	\$47.17		\$38,040.91	157258	\$0.24190
	kWh		\$0.00		kWh			\$0.00	(\$221.55)	\$166.17		\$111,750.50	553887	\$0.20176
	kWh		\$0.00		kWh			\$0.00	(\$5.75)	\$3.84		\$19,798.43	12788	\$1.54820
	kWh		\$0.00		kWh			\$0.00				\$1,611.77	0	NA
48348	kWh	\$ 0.07247	\$3,503.78		kWh			\$3,503.78	(\$95.50)	\$52.09		\$ 31,095.44	173636	\$0.17908
1199	kWh	\$ 0.07247	\$86.89		kWh			\$86.89	\$10.69	\$3.06	\$0.00	\$ 5,759.36	10183	\$0.56559
49547			\$3,590.67	0				\$3,590.67	(\$817.46)	\$634.08	(\$423.18)	\$484,644.50	2113618	\$0.22930

Energy Charges Super Off Peak								Total Monthly Cost	Power Factor Adjustment	Energy Commission Tax	PDP Program Credits	Total Monthly Cost		
Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost							
	kWh		\$ -		kWh		\$ -	\$0.00	(\$70.36)	\$46.91		\$30,345.89	156361	\$0.19408
	kWh		\$ -		kWh		\$ -	\$0.00	(\$71.35)	\$47.57		\$31,020.57	158567	\$0.19563
	kWh		\$ -		kWh			\$0.00	(\$23.89)	\$20.48		\$19,911.12	68264	\$0.29168
	kWh		\$ -		kWh		\$ -	\$0.00	\$11.03	\$2.88		\$8,793.15	9593	\$0.91662
	kWh		\$ -		kWh			\$0.00	(\$101.03)	\$202.05		\$115,688.44	673504	\$0.17177
	kWh		\$ -		kWh		\$ -	\$0.00	(\$351.26)	\$234.17		\$125,341.62	780566	\$0.16058
	kWh		\$ -		kWh		\$ -	\$0.00	(\$497.70)	\$271.48		\$148,617.78	904903	\$0.16424
	kWh		\$ -		kWh			\$0.00	(\$191.14)	\$95.57		\$60,750.45	318562	\$0.19070
	kWh		\$ -	74316	kWh	\$ 0.07247	\$ 5,385.68	\$5,385.68	(\$403.32)	\$219.99		\$ 131,519.55	733311	\$0.17935
162679	kWh	\$ 0.07247	\$ 11,789.35		kWh			\$11,789.35	(\$369.44)	\$184.72		\$ 110,272.92	615737	\$0.17909
113104	kWh	\$ 0.07247	\$ 8,196.65		kWh			\$8,196.65	(\$239.58)	\$130.68		\$ 77,640.49	435609	\$0.17823
66821	kWh	\$ 0.07247	\$4,842.52		kWh			\$4,842.52	(\$164.24)	\$109.50	(\$9.37)	\$ 74,812.06	364997	\$0.20497
342604			\$24,828.51	74316				\$30,214.19	(\$2,472.28)	\$1,566.00	(\$9.37)	\$934,714.04	5219974	\$0.17906

Energy Charges Off Peak								Total Monthly Cost	Power Factor Adjustment	Energy Commission Tax	PDP Program Credits	Total Monthly Cost	Total kWh	Average \$/kWh
Number P1	Unit	Unit Cost	Cost	Number P2	Unit	Unit Cost	Cost							
	0 kWh		\$ -		0 kWh		\$ -	\$0.00	(\$112.92)	\$ 83.39	\$0.00	\$61,025.25	277,975	\$0.21954
	0 kWh		\$ -		0 kWh	\$ 0.10249	\$ -	\$0.00	(\$113.95)	\$ 84.08	(\$88.30)	\$57,863.74	280,262	\$0.20646
	0 kWh		\$ -		0 kWh		\$ -	\$0.00	(\$129.21)	\$ 110.75	(\$334.88)	\$79,920.67	369,166	\$0.21649
	0 kWh		\$ -		0 kWh	\$ 0.10233	\$ -	\$0.00	(\$125.19)	\$ 119.63	\$0.00	\$76,071.88	398,785	\$0.19076
	0 kWh		\$ -		0 kWh		\$ -	\$0.00	(\$163.76)	\$ 255.82	\$0.00	\$171,361.29	852,745	\$0.20095
	0 kWh		\$ -		0 kWh		\$ -	\$0.00	(\$388.55)	\$ 262.14	\$0.00	\$161,446.04	873,788	\$0.18477
	0 kWh		\$ -		0 kWh	\$ 0.10720	\$ -	\$0.00	(\$576.33)	\$ 318.65	\$0.00	\$186,658.69	1,062,161	\$0.17573
	0 kWh		\$ -		0 kWh		\$ -	\$0.00	(\$412.69)	\$ 261.74	\$0.00	\$172,500.95	872,449	\$0.19772
	0 kWh			74316	kWh		\$ 5,385.68	\$5,385.68	(\$409.07)	\$ 223.83	\$0.00	\$151,317.99	746,099	\$0.20281
162679	kWh				0 kWh		\$ -	\$11,789.35	(\$369.44)	\$ 184.72	\$0.00	\$111,884.69	615,737	\$0.18171
161452	kWh				0 kWh		\$ -	\$11,700.43	(\$335.08)	\$ 182.77	\$0.00	\$108,735.93	609,245	\$0.17848
68020	kWh				0 kWh		\$ -	\$4,929.41	(\$153.55)	\$ 112.56	(\$9.37)	\$80,571.42	375,180	\$0.21475
392151			\$0.00	74316				\$33,804.86	(\$3,289.74)	\$2,200.08	(\$432.55)	\$1,419,358.54	7333592	\$0.19354

PG&E Monthly Summary Costs FYE22

Month	Customer Charge	Demand Charge Max Peak	Demand Charge Part Peak	Demand Charge Max Demand	Energy Charges Peak	Energy Charges Part Peak	Energy Charges Off Peak	Energy Charges Super Off Peak	Power Factor Adjustment	Energy Commission Tax	PDP Program Credits	Monthly Total Cost	Monthly Total KWH	Average KWH Cost
Jul-21	\$3,002.99	\$501.22	\$116.97	\$28,831.84	\$ 255.27	\$195.05	\$28,151.44	\$0.00	(\$112.92)	\$83.39	\$0.00	\$61,025.24	277,975	\$0.21954
Aug-21	\$3,219.32	\$539.66	\$1,016.06	\$24,348.84	\$ 305.31	\$232.80	\$28,319.93	\$0.00	(\$113.95)	\$84.08	(\$88.30)	\$57,863.75	280,262	\$0.20646
Sep-21	\$3,035.26	\$530.20	\$2,176.68	\$36,571.64	\$ 277.16	\$228.00	\$37,455.07	\$0.00	(\$129.21)	\$110.75	(\$334.88)	\$79,920.67	369,166	\$0.21649
Oct-21	\$2,934.08	\$307.86	\$58.81	\$31,848.90	\$ 251.23	\$101.83	\$40,574.73	\$0.00	(\$125.19)	\$119.63	\$0.00	\$76,071.88	398,785	\$0.19076
Nov-21	\$3,035.26	\$4,566.60	\$0.00	\$75,561.43	\$ 3,619.84	\$0.00	\$84,486.10	\$0.00	(\$163.76)	\$255.82	\$0.00	\$171,361.29	852,745	\$0.20095
Dec-21	\$3,136.43	\$1,378.10	\$0.00	\$66,936.32	\$ 1,539.66	\$0.00	\$88,581.92	\$0.00	(\$388.55)	\$262.14	\$0.00	\$161,446.04	873,788	\$0.18477
Jan-22	\$3,000.88	\$3,083.90	\$0.00	\$67,896.77	\$ 7,678.88	\$0.00	\$105,255.96	\$0.00	(\$576.33)	\$318.65	\$0.00	\$186,658.69	1,062,161	\$0.17573
Feb-22	\$3,217.39	\$131.40	\$0.00	\$75,662.79	\$ 505.49	\$0.00	\$93,134.82	\$0.00	(\$412.69)	\$261.74	\$0.00	\$172,500.95	872,449	\$0.19772
Mar-22	\$3,434.76	\$988.49	\$0.00	\$64,895.91	\$ 510.48	\$0.00	\$76,287.91	\$5,385.68	(\$409.07)	\$223.83	\$0.00	\$151,317.99	746,099	\$0.20281
Apr-22	\$3,223.55	\$3,130.92	\$0.00	\$36,411.65	\$ 423.04	\$0.00	\$57,090.91	\$11,789.35	(\$369.44)	\$184.72	\$0.00	\$111,884.70	615,737	\$0.18171
May-22	\$3,116.10	\$2,120.04	\$0.00	\$34,518.77	\$ 2,843.57	\$0.00	\$54,589.33	\$11,700.43	(\$335.08)	\$182.77	\$0.00	\$108,735.93	609,245	\$0.17848
Jun-22	\$3,440.86	\$334.09	\$116.27	\$32,748.97	\$ 315.75	\$96.90	\$38,639.52	\$4,929.41	(\$153.55)	\$112.56	(\$9.37)	\$80,571.42	375,180	\$0.21475
Total	\$37,796.88	\$17,612.48	\$3,484.79	\$576,233.82	\$18,525.68	\$854.58	\$732,567.66	\$33,804.86	(\$3,289.74)	\$2,200.08	(\$432.55)	\$1,419,358.55	7,333,592	\$0.19354

