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

Wednesday, August 17, 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/86261517496

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

Meeting ID: 862 6151 7496

One tap mobile if using audio only from a telephone and not a computer
+1 669 900 9128 - 86261517496# 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.)

Action
Pages 4 – 8

6.a. Board Meeting Minutes for the June 29, 2022 meeting

(The Board will consider approving the minutes from the June 29, 2022 Board meeting.)

Resolution
Pages 9– 15

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

(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.)

Information
Page 16

8. 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.)

Information
Pages 17 – 40

9. LAVWMA Quarterly Report of Operations, 4th Quarter, FY2021-2022

(The Board will review the Quarterly Report of Operations, 4th Quarter, FY2021-2022.)

Information
Pages 41– 42

10. 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 43 – 67

11. Update and Response to Various Legal and Legislative Issues

(The Board will receive a report regarding proposed legislation and legal developments affecting LAVWMA and its member agencies.)

Information
Pages 68 – 73

12. General Manager's Report

(The Board will review the General Manager's Report regarding the operations and maintenance of the Agency and its facilities.)

Information

13. 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.)

14. Next Regular Board Meeting, Wednesday, November 16, 2022, 6:00 p.m.

15. 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/86261517496Meeting ID: 862 6151 7496
For audio only via telephone, dial 1 669 900 9128 then enter the following code 86261517496#

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

Special Meeting of Board of Directors

Wednesday, June 29, 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/88291918853

6:00 p.m.

1. Call to Order

Chair Ann Marie Johnson called the meeting to order at 6:00 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, Arun Goel

Board Members Absent: Bob Carling

Staff Present: General Counsel Alexandra Barnhill, Treasurer Carol Atwood, DSRSD Assistant General Manager Jan Lee, DSRSD WWTP Operations Superintendent Virgil Sevilla, Livermore Acting Resources Manager Anthony Smith, 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 February 26, 2022 LAVWMA Board Meetings

Director Bonanno motioned, seconded by Vice Chair Testa, to approve Consent Calendar Item No. 6.a.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote.

7. Annual Chair Rotation – Elect Chair and Vice Chair for FY2022/23

Director Bonanno motioned, seconded by Director Arkin Vice, to appoint Chair Julie Testa for LAVWMA Board Chair for FY2022/23.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote. The position become will take effect July 1, 2022.

Director Bonanno motioned, seconded by Vice Chair Testa, to appoint Bob Carling for LAVWMA Board Vice Chair for FY2022/23.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote. The position will take effect on July 1, 2022.

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

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 June 14, 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 Goel motioned, seconded by Director Arkin, to approve 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.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote.

9. Approval of a Resolution Changing the Official Regular Meeting Location

General Counsel Barnhill and General Manager Weir provided an overview of the history of the official regular meeting location and noted that since DSRSD is hiring an administrative staff person to assist LAVWMA that it would be more efficient to return to the DSRSD Board Room.

Vice Chair Testa motioned, seconded by Director Arkin, to approve Resolution No. 22-03 Resolution of the Livermore-Amador Valley Water Management Agency Changing The Official Regular Meeting Location.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote.

10. Financial Reporting for the Fiscal Year Ending June 30, 2021
Treasurer Atwood provide a summary of the financial reports and noted all items were tracking as expected and that she had no concerns. This was an information item only requiring no action by the Board.

11. Approval Engagement Letter with Maze & Associates to Provide Financial Audit Services for the Fiscal Year Ending June 30, 2022
General Manager Weir and Treasurer Atwood described this item. Treasurer Atwood noted that a Request for Proposals (RFP) for audit services for the next five years would be issued shortly and that a recommendation would be presented to the Board at its November meeting. She further indicated that the proposals would be evaluated on the basis of experience, references, timely reporting, and cost. If Maze & Associates were to be selected, they would need to provide a new managing partner as required by the Government Code. One Board member expressed a preference for a new firm to avoid any negative appearances from continuing with the same firm. General Counsel stated that she would provide names of other firms that can receive the RFP.

Vice Chair Testa motioned, seconded by Director Goel, to approve the engagement Letter with Maze & Associates to provide financial audit services for the Fiscal Year ending June 30, 2022.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote.

12. 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. This was an information item only requiring no action by the Board. There was discussion regarding available recycled water for the proposed residential filling station and how Livermore was providing recycled water to Pleasanton for the project. This was an information item only requiring no action from the Board.

13. Proposed Operating and Capital Budget for Fiscal Year 2022/23
General Manager Weir highlighted areas of the proposed budget including PG&E costs, labor costs, management costs, EBDA expenses, and debt service. Despite DSRSD's great efforts at avoiding PG&E peak period demand and energy costs, electrical costs continue to rise due to ever increasing rates. He noted that the COLA for DSRSD labor should be 4.0% and not 2.75% as noted in the budget report. He further stated that new information on DSRSD labor costs was just received and he requested that the budget be amended by adding $60,000 to DSRSD's labor costs for O&M services. He further stated that would change several of the percentages and totals in the report, but that they were not very significant.

Director Arkin motioned, seconded by Vice Chair Goel, to approve the Proposed Operating and Capital Budget for Fiscal Year 2022/23 as amended.

There were no comments from the public. The Motion passed unanimously (5 – 0) by a roll call vote.

14. 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. He then noted that the new pumps were scheduled to be delivered December 16, 2022.

Lastly General Manager Weir discussed the San Leandro Sample Station (SLSS) project and noted that the 75% design plans and specifications were under review and should be completed in early July.

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

15. Regional Purified Water Pilot Project

General Manager Weir and DSRSD Assistant General Manager Lee provided an overview of the pilot project that would take DSRSD effluent from the LAVWMA junction structure and treat it with micro filtration, reverse osmosis, and ultraviolet light which would essentially produce a product comparable to distilled water. The intent is to deliver the purified water to the Alamo Canal and eventually to Alameda Creek where it would percolate into the groundwater used by Alameda County Water District for their potable water supply. Ms. Lee stated that the project was still being reviewed and during this time they were seeking input from all interested parties. The project will not be operational until 2024 or 2025.

Director Arkin and Vice Chair Testa expressed concerns with PFAS and microconstituents that may not be removed by the treatment process. General Manager Weir stated that the reverse osmosis process removes PFAS and other constituents of emerging concern and that the purified water should easily meet all current standards for potable water, but acknowledged that standards and detection limits continue to evolve.

Chair Johnson stated that one of the purposes of the pilot is to demonstrate the effectiveness of the treatment process. She also expressed an interest in reusing more of LAVWMA's effluent, which minimizes LAVWMA's pumping costs and discharges to San Francisco Bay.

Director Bonanno stated that this information would soon be presented to Livermore's Council and that they would pass on any questions or concerns to DSRSD staff.

16 Biennial Review of the Conflict of Interest Code

General Manager Weir and General Counsel Barnhill described the need to review the code every two years as a requirement of the FPPC and that no changes were being recommended at this time. General Counsel Barnhill stated that changes typically only occur when there are new staff positions that would be subject to reporting requirements. The required report indicating no changes will be submitted to the FPPC.

17. Update and Response to Various Legal and Legislative Issues
General Manager Weir provided an overview of the May 2022 updates from CASA and BACWA. The reports include updates on items of interest to water and wastewater agencies including PFAS, nutrients, microplastics and various other issues. He noted the PFAS Fact Sheet prepared by CASA. Lastly, he noted that the San Francisco Regional Water Quality Control Board has appointed Eileen White as its new Executive Director. Ms. White formerly was the Wastewater Manager for EBMUD and served on the BACWA for many years including time as Chair. General Counsel Barnhill highlighted legislation that is being considered to amend the Brown Act to address remote meetings for public agencies.

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

18. General Manager's Report
General Manager Weir highlighted several areas of his report, including asset management, succession planning, capital projects, and PG&E usage. He again complemented DSRSD staff for their operation of the pump station to avoid excessive PG&E costs. Vice Chair Testa and Director Bonanno inquired about the possibility of adding solar panels and batteries to the pump station site to address ever increasing electrical costs. General Manager Weir stated that was evaluated several years ago and the economics were not good due to high construction costs and a long payback period. He also noted that due to changes in material costs and PG&E rates that it would be worth a second look. He stated he would contact LAVWMA's electrical engineer to see what would be required to update that analysis and report back to the Board.

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

19. Matters From/For Board Members
There were no matters from the Board.

20, Next Regular Board Meeting, Wednesday, August 17, 2022 at 6:00 p.m.
This meeting will be at DSRSD unless circumstances due to COVID-19 necessitate holding as a Zoom meeting instead.

There were no comments from the public.

21. Adjournment
There being no further action, Chair Johnson adjourned the meeting at 7:31 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
August 17, 2022

ITEM NO. 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

Action Requested
Approve Resolution No. 22-04 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 two years, 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 8-9-2022) 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

At the June 29, 2022 meeting, the Board approved changing the official meeting location from City of Pleasanton to DSRSD's Board room. The Board also determined that the August 17, 2022 meeting could be held in person following DSRSD's lead for meeting management. However, due to a spike in COVID-19 cases, DSRSD has returned to teleconference meetings through September 1, 2022. It is LAVWMA's intent to follow DSRSD's lead and that is why this meeting is once again a Zoom meeting. Assuming there are no further issues with COVID-19 cases, LAVWMA will hold an in person meeting at DSRSD at its next regular meeting on November 16, 2022.

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. 22-04 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. 22-04 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. 22-04

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 17th day of August, 2022 by the following vote:

AYES:
NOES:
ABSENT:

_____
Julie Testa, Chair

ATTEST: _____
Charles V. Weir, General Manager

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
August 17, 2022

ITEM NO. 8 FINANCIAL REPORTING FOR THE FISCAL YEAR ENDING JUNE 30, 2022

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
Fiscal Year ending June 30, 2022 has just ended and there is no report at this time due to the year-end close and audit process. Reports for both years will be provided at the November 16, 2022 meeting. The financial audit for FYE 22 will also be provided at that time. However, preliminary O&M expenses for FYE 22 are summarized below.

Item	Year to Date	Budget	Percent of Budget
O&M Labor	$685,374	$958,151	70.79%
O&M Expenses (supplies, utilities, etc.)	$1,459,363	$1,554,750	93.86%
Lab Analysis	$31,015	$36,000	93.86%
Total O&M	**$2,175,752**	**$2,558,901**	**85.03%**
EBDA Expenses	$849,202	$839,880	101.11%
General Management Expenses (GM, legal, permits, insurance, support services, etc.)	$329,873	$484,100	68.14%
Total	**$3,354,827**	**$3,882,881**	**86.40%**

Attachments
None

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

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
August 17, 2022

ITEM NO. 9 QUARTERLY REPORT OF OPERATIONS FOR 4TH QUARTER FY2021-2022

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

Summary
LAVWMA's Quarterly Report of Operations for the 4th 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 85.0% of the year to date budget. Apart from storms in October and December, this season's rainfall has been slightly below normal.

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

Attachments
LAVWMA Quarterly Report of Operations, 4th Quarter, FY2021-2022.

LAVWMA

QUARTERLY REPORT OF OPERATIONS FY 2021-2022, 4th Quarter

Prepared by

Dublin San Ramon Services District
Water, wastewater, recycled water

QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
4th Quarter FY 2021-2022: April to June 2022

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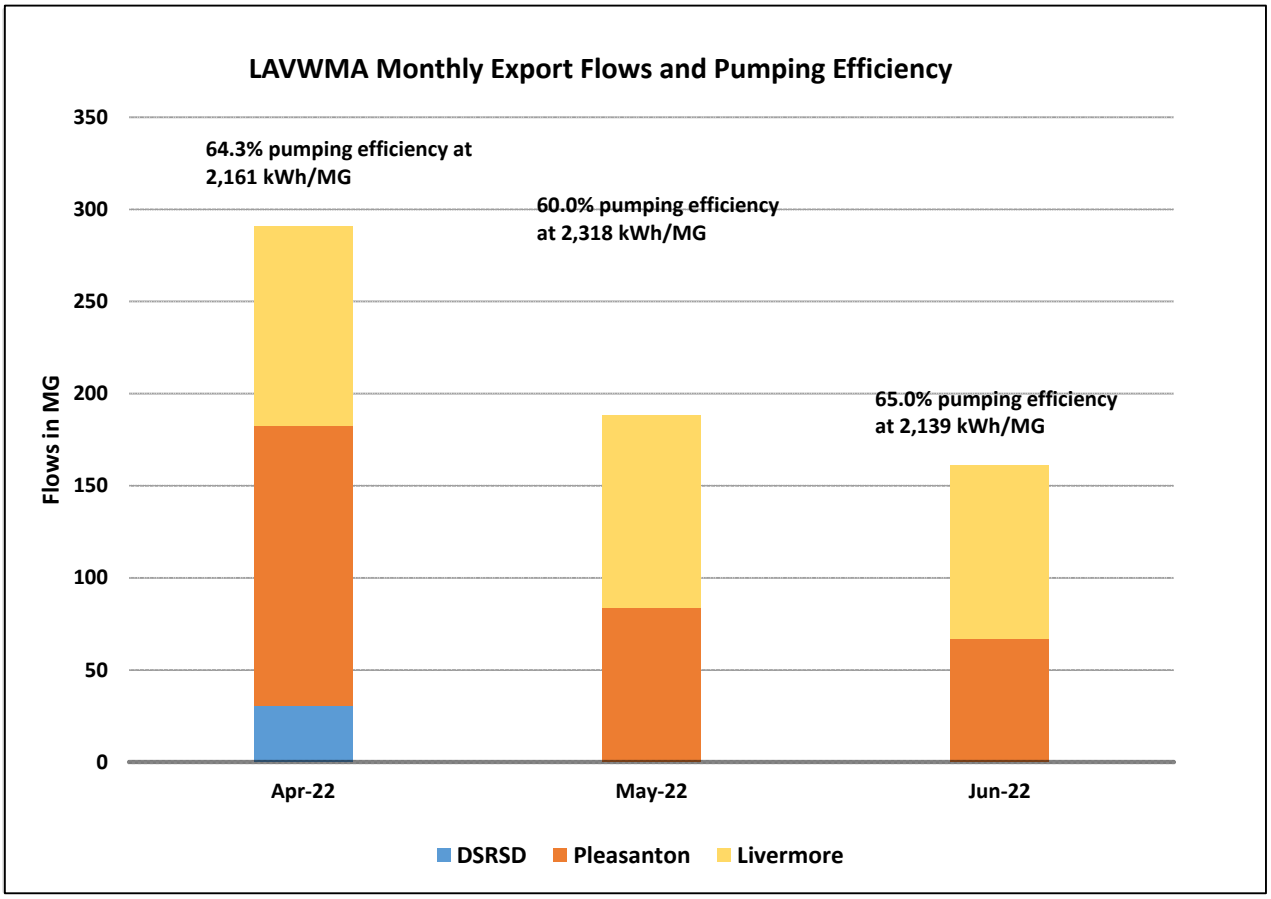
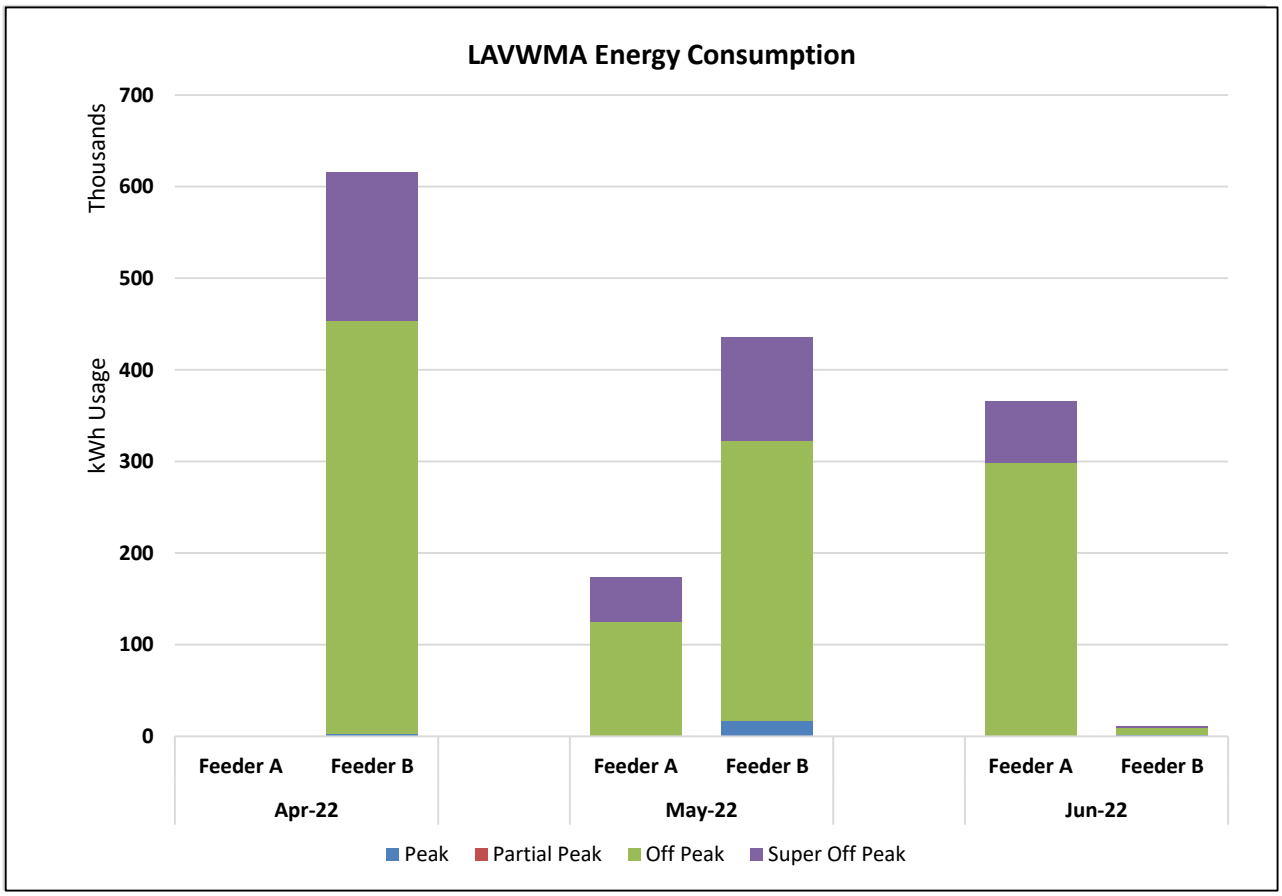
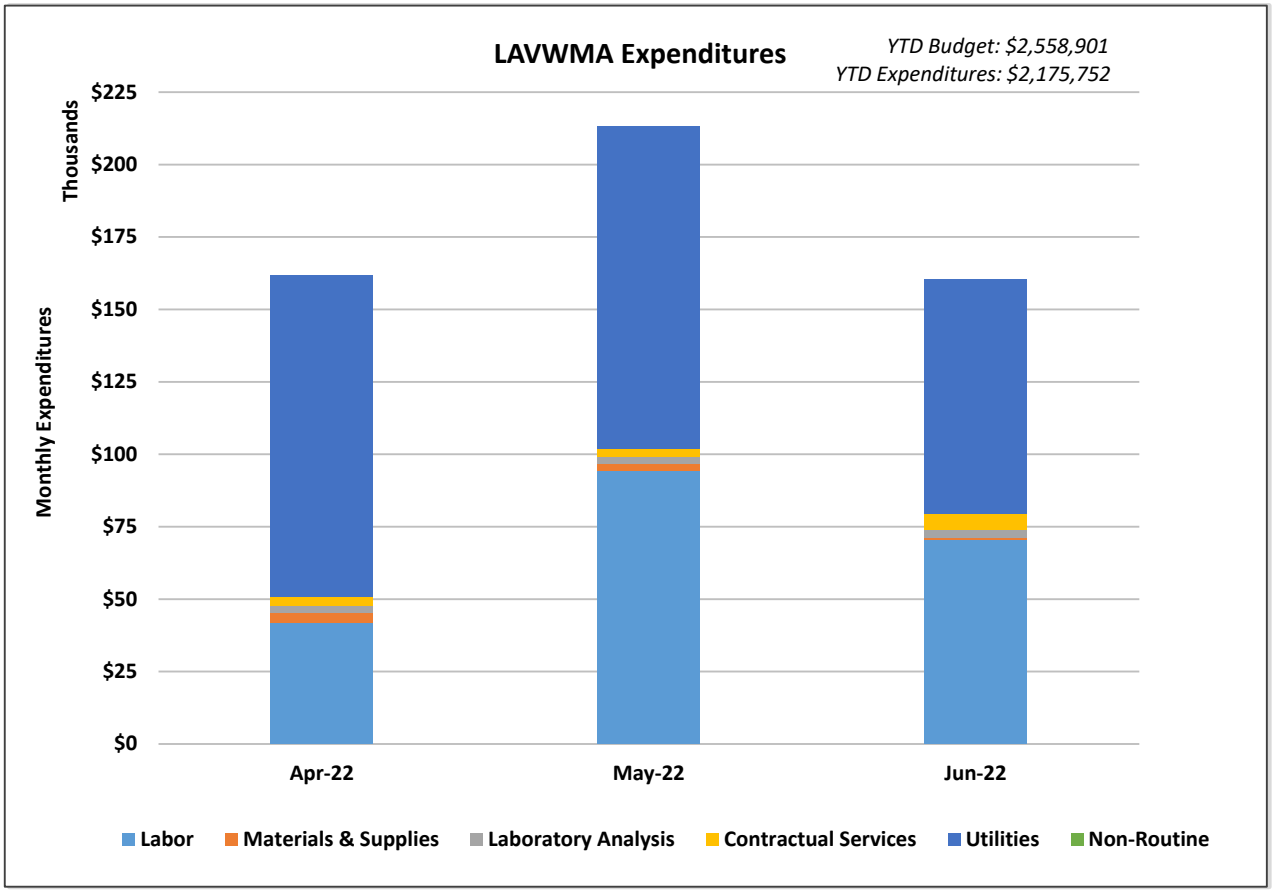
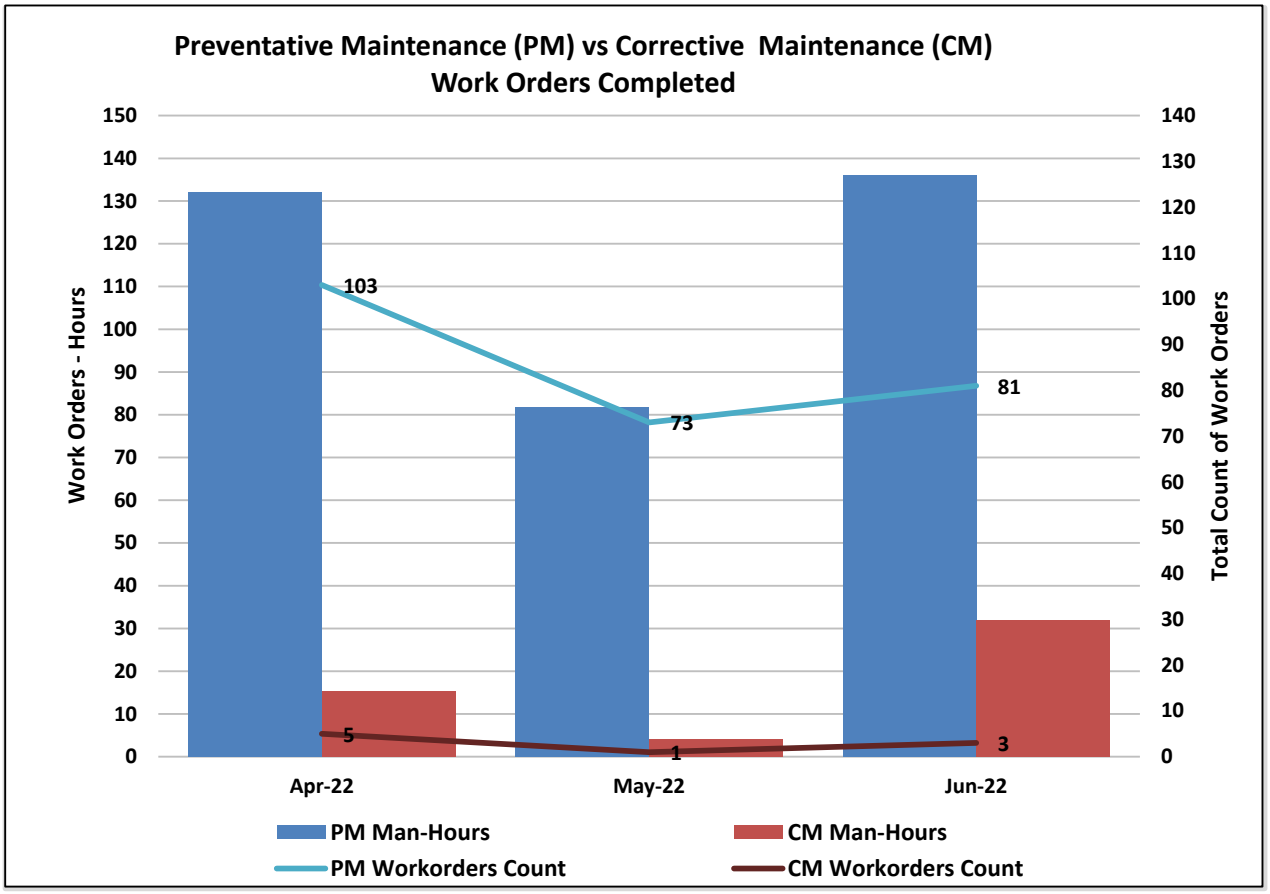

LAVWMA Monthly Export Flows and Pumping Efficiency
Flows in MG
350
300
250
200
150
100
50
0
64.3% pumping efficiency at 2,161 kWh/MG
60.0% pumping efficiency at 2,318 kWh/MG
65.0% pumping efficiency at 2,139 kWh/MG
Apr-22
May-22
Jun-22
DSRSD
Pleasanton
Livermore


LAVWMA Energy Consumption
Thousands
kWh Usage
700
600
500
400
300
200
100
0
Feeder A
Feeder B
Apr-22
May-22
Jun-22
Peak
Partial Peak
Off Peak
Super Off Peak


LAVWMA Expenditures
YTD Budget: $2,558,901
YTD Expenditures: $2,175,752
Monthly Expenditures
Thousands
$225
$200
$175
$150
$125
$100
$75
$50
$25
$0
Apr-22
May-22
Jun-22
Labor
Materials & Supplies
Laboratory Analysis
Contractual Services
Utilities
Non-Routine


Preventative Maintenance (PM) vs Corrective Maintenance (CM)
Work Orders Completed
Work Orders - Hours
Total Count of Work Orders
150
140
130
120
110
100
90
80
70
60
50
40
30
20
10
0
103
73
81
5
1
3
Apr-22
May-22
Jun-22
PM Man-Hours
CM Man-Hours
PM Workorders Count
CM Workorders Count

QUARTERLY REPORT OF OPERATIONS
LAVWMA PUMPING AND CONVEYANCE SYSTEM
4th Quarter FY 2021-2022: April to June 2022

1. EXECUTIVE SUMMARY

The Livermore-Amador Valley Water Management Agency (LAVWMA) pumping and effluent conveyance system operated normally during the fourth quarter of FY 2021-2022. During the quarter, a total of 640.32 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 63%, with an average electrical cost of $422 per million gallons, or $137 per acre-foot.

Total year-to-date operations and maintenance (O&M) expense is $2,175,752 or 85% of the O&M annual budget amount of $2,558,901 and the overall cost of operation is $648 per million gallons pumped or $211 per acre-foot.

2. OPERATIONS

Of the 640.32 million gallons of effluent conveyed through the LAVWMA system, approximately 307 million gallons was from the City of Livermore, 303 million gallons from City of Pleasanton and 31 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.

Currently PG&E implements a rate plan – broken down into peak, partial peak, off peak, and seasonal super off peak periods – that increases rates for energy used during certain periods of the day, based on energy demand across the energy grid. Throughout the reporting period, staff developed an efficient pumping plan and avoided pumping during partial peak and peak PG&E energy demand periods where feasible. LAVWMA's energy consumption in the fourth 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.

In the past quarter, staff have strategically utilized LAVWMA's holding basins to minimize the number of pumps running during a given billing cycle, based on anticipated flow from the City of Livermore and DSRSD's WWTPs. The energy use was greatly decreased as a result of the changes made by staff, as seen on the LAVWMA Energy Consumption table on page 2. Staff intends to continue this approach moving forward.

Staff have determined that there can be substantial savings in max demand costs by operating pumps on only one Feeder during the billing period. As an example, for the billing period, March 15 - April 13, pumps were run on only Feeder B. By doing this the only cost for Feeder A was the Customer Charge of $1,611. Had pumps also been run on Feeder A, there would have been a Max Demand Charge of $26.29 per kW, or approximately $35,000. The energy charge for kWh would have been approximately the same. Staff is now tracking the actual billing periods to manage which Feeder is used each month. This may be more complicated during wet weather but is manageable during much of the year.

Earlier in the year, smart detectors were installed along the LAVWMA line as a pilot project, with the goal of early detection of blockages in the line or air relief equipment issues which require DSRSD attention and response. Staff have observed that the detectors are extremely effective and improve overall emergency response time. During the quarter there were three separate incidents where the smart detectors alerted staff of potential overflow situations. As a result of

the pilot's success, staff anticipate expanding the number of detectors throughout the LAVWMA line in the near future.

3. MAINTENANCE

During the quarter, 350 hours were spent to complete 257 preventative maintenance work orders and 51 hours to complete 9 corrective maintenance work orders on LAVWMA equipment and systems.

The following are some noteworthy maintenance activities during the quarter:

Electrical:

- Assisted with LAVWMA MCC protective device settings and verified the maintenance mode switches and time delay switches for the consultant
- Assisted with SLSS rehab design and reviewed 75% design package
- Troubleshot and replaced SLSS sample pump

Instrumentation and Controls:

- Ongoing project to upgrade the remote monitoring equipment for all CP rectifier panels; completed Rectifier P-10 as a test site; in process of procuring remaining hardware
- Completed the installation and configuration of new OSI PI dashboard, with training to be scheduled soon
- Completed the upgrades to the vibration sensor and monitoring equipment; added tags to SCADA and updated screens; submitted red line markups to consultant to incorporate into the design record drawing set
- Pulled new network cable for security system and installed and configured new security hardware on the pump station's front door
- Rebuilt and calibrated LAVWMA junction structure CL2 Analyzer
- Corrected a pump cycling issue with Ops
- Replaced the pressure transmitter at SLSS

Mechanical:

- Replaced air solenoid in surge tank
- Repaired DSRSD chlorine sample line at junction structure
- Repaired winch on the wet well's bar screen pump deck

5. BUDGET VARIANCE AND EXPENSES

Fourth quarter labor expenses totaled $206,699 for 1,010 man-hours of effort, an average of 1.9 full time equivalents (FTEs). O&M expenses for the quarter including labor, supplies, laboratory analysis, contractual services, and utilities totaled $535,608 for an average cost of $837 per million gallons pumped or $273 per acre-foot. The total expense for the Livermore sole use pipeline for the quarter was $641.

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

6. ITEMS OF INTEREST

Beginning June 10, the Wastewater Treatment Plant experienced an unplanned power outage for approximately 16 hours which affected LAVWMA facilities. Fortunately, there was sufficient reservoir storage available to withstand the outage, and power was restored on June 11.

On June 27, PG&E called for a peak day pricing event. DSRSD staff ensured that no LAVWMA pumps were run during the affected hours.

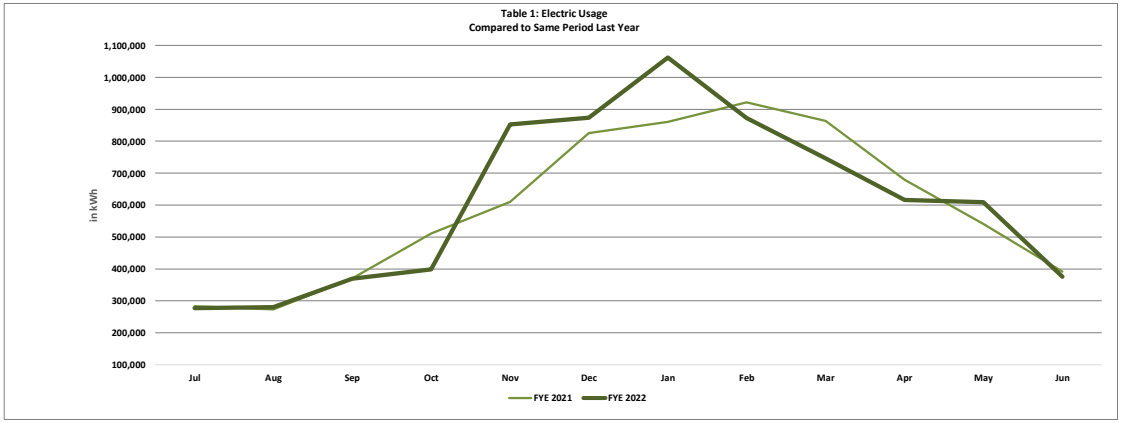
7. CAPITAL PROJECTS

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

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

	PG&E Service Accounts: Rate Schedule B20 starting March 2021																Total	Pumping			
	Acct # 8482061923-1 Service A						Acct # 8440395259-5 Service B						Billing	Total			Export	Energy	Cost		Efficiency
Month	kWh	Peak	Partial Peak	Off Peak	Super Off Peak	$	kWh	Peak	Partial Peak	Off Peak	Super Off Peak	$	Days	kWh	$/kWh	$	Flow[1] MG	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	0	$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	**0**	**0**	**0**	**0**	**0**	**$1,611**	**615,737**	**2,530**	**0**	**450,528**	**162,679**	**$110,273**	**30**	**615,737**	**$0.18**	**$111,884**	285	**2,161**	**$393**	**$128**	**64.3%**
May-22	**173,636**	**0**	**0**	**125,288**	**48,348**	**$31,095**	**435,609**	**17,006**	**0**	**305,499**	**113,104**	**$77,640**	**29**	**609,245**	**$0.18**	**$108,736**	263	**2,318**	**$414**	**$135**	**60.0%**
Jun-22	**364,997**	**0**	**5**	**298,171**	**66,821**	**$74,812**	**10,183**	**1,805**	**627**	**6,552**	**1,199**	**$5,759**	**31**	**375,180**	**$0.21**	**$80,571**	175	**2,139**	**$459**	**$150**	**65.0%**
Quarter																					
Average	179,544					$35,840	353,843					$64,558	30	533,387	$0.19	$100,397	241	2,206	**$422**	**$137**	**63.1%**
Total	538,633					$107,519	1,061,529					$193,673	90	1,600,162		$301,191	723	6,618			
Minimum	0					$1,611	10,183					$5,759	29	375,180	$0.18	$80,571	175	2,139	$393	$128	60.0%
Maximum	364,997					$74,812	615,737					$110,273	31	615,737	$0.21	$111,884	285	2,318	$459	$150	65.0%
YTD																					
Average	205,703					$46,141	405,430					$75,190	30	611,133	$0.21	$121,332	277	2,259	$473	$154	61.9%
Total	2,468,432					$553,696	4,865,160					$902,284	362	7,333,592		$1,455,980	3,327	27,110			
Minimum	0					$1,611	9,593					$5,759	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 occured.**

2) To calculate pumping efficiency, read dates, electric usage, and export flows are **matched to PG&E billing periods**: 3/15 - 4/13 for April, 4/14 - 5/12 for May, and 5/13 - 6/12 for June.

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 Hours	Pump No. 2 Hours	Pump No. 3 Hours	Pump No. 4 Hours	Pump No. 5 Hours	Pump No. 6 Hours	Pump No. 7 Hours	Pump No. 8 Hours	Pump No. 9 Hours	Pump No. 10 Hours	TOTAL Pump Run Hours	TOTAL 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**	**184**	**0**	**490**	**0**	**293**	**0**	**0**	**500**	**0**	**1,467**	**20.4%**
May-22	**0**	**0**	**0**	**157**	**234**	**368**	**0**	**0**	**159**	**216**	**1,135**	**15.3%**
Jun-22	**0**	**16**	**0**	**185**	**107**	**103**	**0**	**0**	**193**	**101**	**704**	**9.8%**
Quarter												
Average	0	67	0	277	114	255	0	0	284	106	1,102	15.1%
Total	0	200	0	832	341	764	0	0	851	317	3,305	
Minimum	0	0	0	157	0	103	0	0	159	0	704	9.8%
Maximum	0	184	0	490	234	368	0	0	500	216	1,467	20.4%
YTD												
Average	0	236	75	242	129	147	163	121	260	69	1,441	19.8%
Total	0	2,832	896	2,901	1,545	1,759	1,959	1,448	3,124	823	17,288	
Minimum	0	0	0	1	0	0	0	0	1	0	631	8.5%
Maximum	0	522	230	551	359	368	551	359	546	223	2,380	32.0%

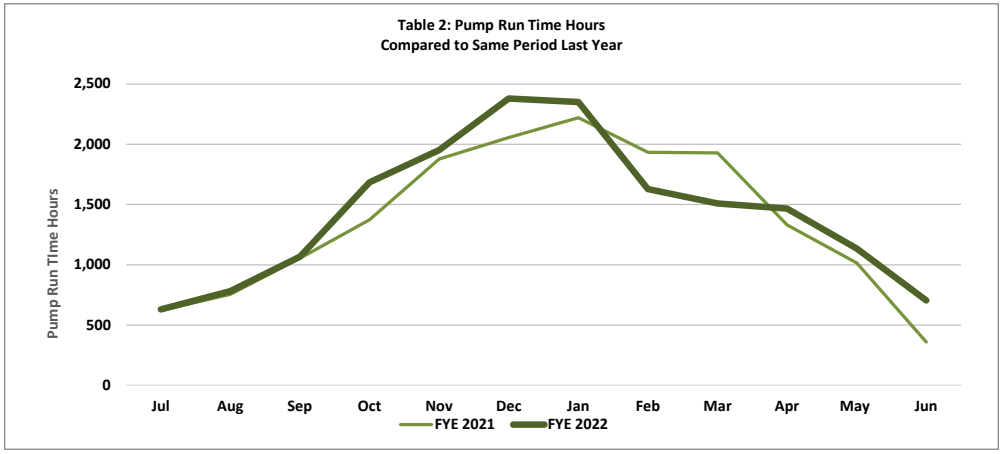
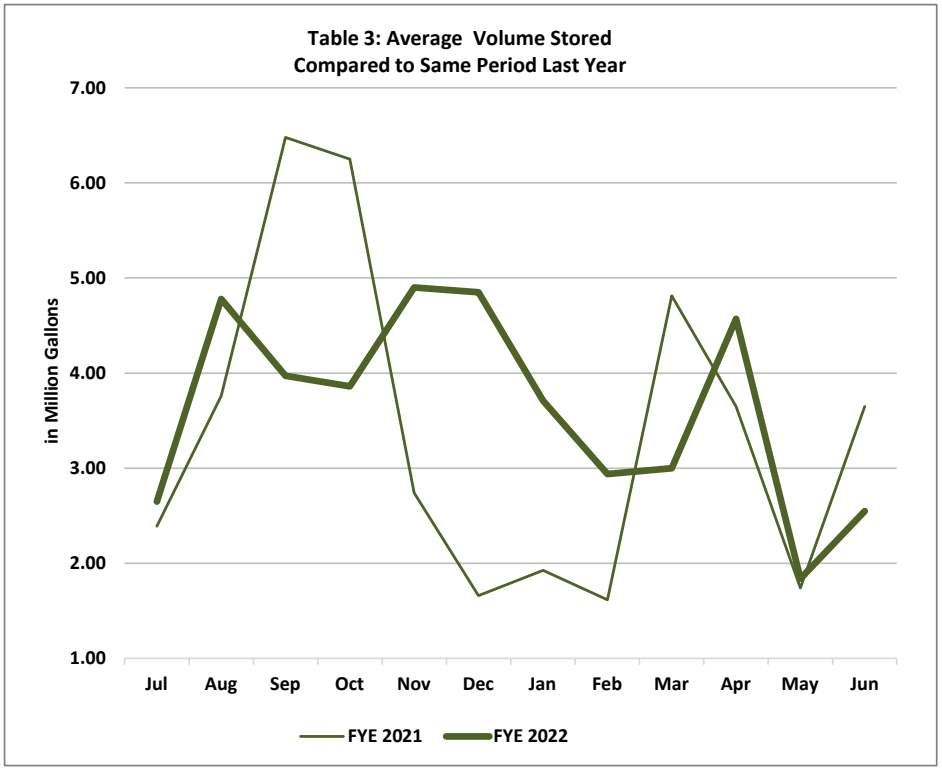


TABLE 3 - Monthly Average Storage Basin Levels and Volume

LAVWMA SYSTEM: Fiscal Year 2021-2022, Quarterly Report

	Average Daily Volume			Average		Storage
	Basin	Basin	Basin	Volume	Storage	Basin
	No. 1	No. 2	No. 3	Stored	Available	Utilization
Month	Feet	Feet	Feet	MG	MG	%
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	**3.17**	**0.20**	**5.46**	**4.57**	**18**	**25.4%**
May-22	**1.59**	**0.20**	**2.28**	**1.84**	**18**	**10.2%**
Jun-22	**2.47**	**0.18**	**2.50**	**2.55**	**18**	**14.2%**
Quarter						
Average	2.41	0.19	3.41	2.99		0.17
Minimum	1.59	0.18	2.28	1.84		0.10
Maximum	3.17	0.20	5.46	4.57		0.25
YTD						
Average	2.99	1.05	3.20	3.64		20.2%
Minimum	1.56	0.18	0.53	1.84		10.2%
Maximum	4.97	3.44	5.97	4.90		27.2%

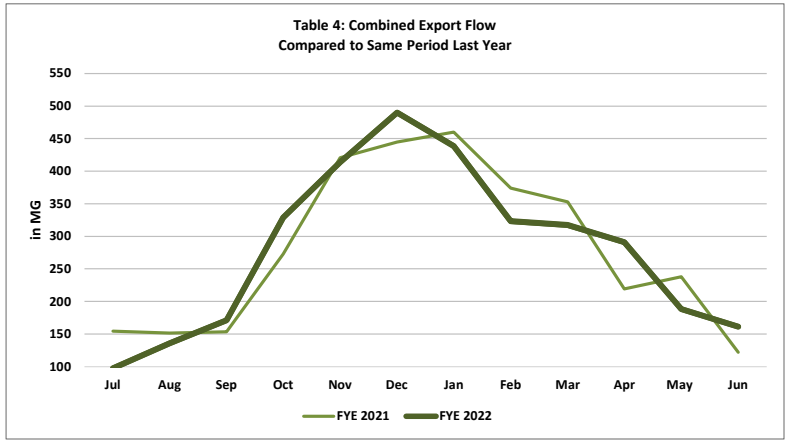


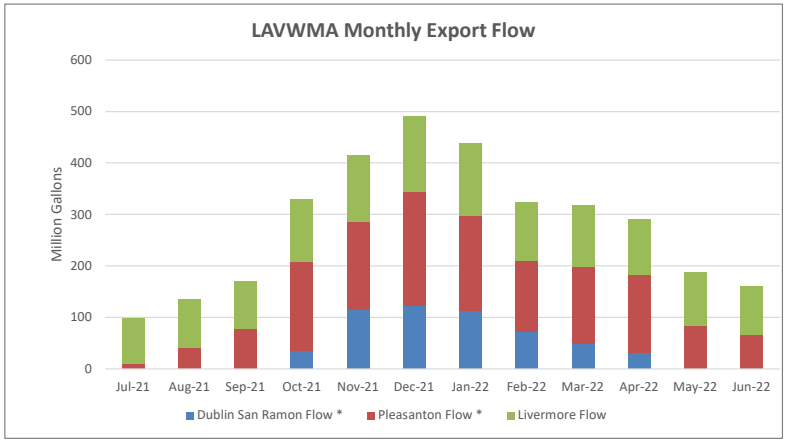
Note: Total available storage volume is 18 million gallons.

TABLE 4 - Monthly Export Flow

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

Month	Dublin San Ramon Flow * MG	Pleasanton Flow * MG	Livermore Flow MG	Combined Export Flow MG	Total for Quarter	PGE tab
Jul-21	0.00	9.24	88.11	97.35		97.34
Aug-21	0.00	39.90	95.49	135.39		135.39
Sep-21	0.00	77.99	92.97	170.96	403.69	170.96
Oct-21	35.96	172.01	120.69	328.65		328.65
Nov-21	115.46	169.49	129.52	414.47		414.47
Dec-21	122.90	221.07	146.09	490.06	1,233.19	490.06
Jan-22	111.59	186.52	140.47	438.58		438.58
Feb-22	71.73	138.22	113.30	323.25		323.25
Mar-22	48.25	150.44	118.79	317.48	1,079.31	317.48
Apr-22	**30.78**	**151.66**	**108.32**	**290.76**		290.76
May-22	**0.00**	**84.03**	**104.28**	**188.31**		188.31
Jun-22	**0.00**	**67.11**	**93.95**	**161.05**	**640.12**	161.05
Quarter						
Total	30.78	302.80	306.55	**640.12**		
Average	10.26	100.93	102.18	213.37		
Minimum	0.00	67.11	93.95	161.05		
Maximum	30.78	151.66	108.32	290.76		
YTD					Budgeted Flow:	
Total	536.67	1,467.67	1,351.97	**3,356.31**	3,358 MG	
Average	44.72	122.31	112.66	279.69		
Minimum	0.00	9.24	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

Month	Billed Labor Hours	FTE Equiv	Labor Invoice	YTD Labor Expense	Budget Utilization	Labor Budget Remaining	Export Flow MG	Export Flow 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	**211.0**	**1.2**	**$41,826**	**$520,502**	**53.8%**	**$447,649**	**290.76**	**892**
May-22	**446.5**	**2.6**	**$94,300**	**$614,802**	**63.5%**	**$353,349**	**188.31**	**578**
Jun-22	**352.0**	**2.0**	**$70,572**	**$685,374**	**70.8%**	**$282,777**	**161.05**	**494**
QUARTER								
Total	**1,009.5**		**$206,699**				640.12	1,965
Average	336.5	**1.9**	$68,900				213.37	655
Minimum	211.0	1.2	$41,826				161.05	494
Maximum	446.5	2.6	$94,300				290.76	892
YTD								
Total YTD	3,666.7		$685,374		**70.8%**	$282,777	3,356.31	10,301
Average YTD	305.6	1.8	$57,115				279.69	858
Minimum	189.0	1.1	$38,367				97.35	299
Maximum	446.5	2.6	$94,300				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 $/MG	Overall O&M Cost $/AF	Export Flow MG	Export Flow 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	**$41,826**	**$120,016**	**$161,842**	**$1,801,986**	**70.4%**	**$756,915**	**$557**	**$181**	**290.76**	**892**
May-22	**$94,300**	**$118,864**	**$213,164**	**$2,015,150**	**78.8%**	**$543,751**	**$1,132**	**$369**	**188.31**	**578**
Jun-22	**$70,572**	**$90,030**	**$160,603**	**$2,175,752**	**85.0%**	**$383,149**	**$997**	**$325**	**161.05**	**494**
QUARTER										
Total	$206,699	$328,910	**$535,608**				**$837**	**$273**	640.12	1,965
Average	$68,900	$109,637	$178,536						213.37	655
Minimum	$41,826	$90,030	$160,603				$557	$181	161.05	494
Maximum	$94,300	$120,016	$213,164				$1,132	$369	290.76	892
YTD										
Total YTD	$685,374	$1,490,378	**$2,175,752**		**85.0%**	**$383,149**	**$648**	**$211**	**3,356.31**	**10,301**
Average YTD	$57,115	$124,198	$181,313							
Minimum	$38,367	$51,654	$110,921				$297	$97	97.35	299
Maximum	$94,300	$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 Expenses	A/P Expenses	Total 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	**$0**	**$226**	**$226**
May-22	**$0**	**$217**	**$217**
Jun-22	**$0**	**$198**	**$198**
Quarter			
Total	**$0**	**$641**	**$641**
Average	$0	$214	$214
Minimum	$0	$198	$198
Maximum	$0	$226	$226
YTD			
YTD Total	$0	$2,280	$2,280
YTD Average	$0	$190	$190
YTD Minimum	$0	$151	$151
YTD Maximum	$0	$226	$226

LAVWMA
BUDGET COMPARISON TO ACTUAL EXPENSES: GOODS & SERVICES

Current FY Period: 12

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	$41,826	$94,300	$70,572	$685,374	$968,151
Subtotal	**$968,151**	**$59,266**	**$48,140**	**$43,940**	**$75,273**	**$55,760**	**$47,017**	**$38,367**	**$55,773**	**$55,139**	**$41,826**	**$94,300**	**$70,572**	**$685,374**	**$968,151**
Materials & Supplies															
Operations Supplies	$13,000	$10	$47	$10	$7	$10	$0	$70	$10	$10	$10	$12	$233	$429	$13,000
Mechanical Supplies	$25,000		$1,039			$3,723	$724		$524		$3,438	$1,646		$11,095	$25,000
Electrical Supplies	$59,400		$3,177	$540	$1,776	$2,398	$12,097	$52	$11,347	$9,956	$0	$768	$484	$42,594	$59,400
Subtotal	**$97,400**	**$10**	**$4,263**	**$550**	**$1,783**	**$6,131**	**$12,821**	**$122**	**$11,881**	**$9,966**	**$3,448**	**$2,425**	**$716**	**$54,117**	**$97,400**
Laboratory Analysis															
Compliance Testing	$10,000	$792	$792	$990	$792	$792	$990	$792	$792	$990	$792	$792	$792	$10,098	$10,000
Operational Support Testing	$4,000	$366	$366	$366	$366	$366	$366	$366	$366	$366	$366	$366	$366	$4,392	$4,000
Special Sampling	$22,000	$1,288	$1,610	$1,288	$1,288	$1,610	$1,288	$1,288	$1,288	$1,610	$1,288	$1,391	$1,288	$16,525	$22,000
Subtotal	**$36,000**	**$2,446**	**$2,768**	**$2,644**	**$2,446**	**$2,768**	**$2,644**	**$2,446**	**$2,446**	**$2,966**	**$2,446**	**$2,549**	**$2,446**	**$31,015**	**$36,000**
Contractual Services															
Sub-surface Repairs	$15,000													$0	$15,000
Street Sweeping	$5,000		$500	$400	$400	$500	$300		$1,000		$800			$3,900	$5,000
Cathodic Protection Survey & Repairs	$30,000													$0	$30,000
Underground Service Alert	$4,500		$896											$896	$4,500
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	$750
Termite/Pest Control	$900													$0	$900
Landscape/weed maintenance	$10,000				$2,941				$6,862				$3,921	$13,723	$10,000
Janitorial Service	$9,500		$1,220		$425			$1,275		$850	$425		$880	$5,075	$9,500
Fire Extinguisher Maintenance	$200													$0	$200
Postage/Shipping Charges	$0											$10		$10	$0
Professional Services, misc	$30,000			$876			$922	$1,005	$922		$2,012	$2,492	$961	$9,192	$30,000
Subtotal	**$147,850**	**$5,029**	**$2,616**	**$1,276**	**$3,766**	**$500**	**$1,222**	**$2,280**	**$8,784**	**$850**	**$3,237**	**$2,502**	**$5,762**	**$37,825**	**$147,850**
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	$110,884	$110,935	$81,106	$1,364,836	$1,301,600
Water & Sewer (Pleasanton)	$900	$154		$163		$341		$238		$199		$247		$1,341	$900
Water (EBMUD)	$1,000	$197		$217		$206		$206		$212		$206		$1,244	$1,000
Telephone/communications	$6,000													$0	$6,000
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**	**$110,884**	**$111,387**	**$81,106**	**$1,367,421**	**$1,309,500**
Non-Routine															
	$0													$0	$0
	$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**	**$161,842**	**$213,164**	**$160,603**	**$2,175,752**	**$2,558,901**
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**	**$1,801,986**	**$2,015,150**	**$2,175,752**		
Combined Export Flow, mg	**3358**	**97**	**135**	**171**	**329**	**414**	**490**	**439**	**323**	**317**	**291**	**188**	**161**	**3,356**	**3,358**
Pumping Efficiency		**54.2%**	**52.1%**	**60.1%**	**63.5%**	**67.1%**	**65.7%**	**63.6%**	**63.2%**	**63.6%**	**64.3%**	**60.0%**	**65.0%**		
Monthly Cost, $/mg		**$1,139**	**$1,113**	**$822**	**$460**	**$351**	**$485**	**$522**	**$785**	**$697**	$557	$1,132	$997		
YTD Running Cost, $/mg	**$762**							**$589**	**$617**	**$626**	**$619**	**$650**	**$668**	**$648**	

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: 12

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
Estimated Personnel Hours															
Division 50 - Ops Admin	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	0	-	-	-	-	-	-	-	-	-	-	-		-	
Division 51 - FOD	40	-	-	-	-	-	-	-	-	-	-	-	-	-	40.00
Water/Wastewater Sys Lead Op	0													-	-
Water/Wastewater Sys OP IV-On Call	0													-	-
Water/Wastewater Sys OP IV	30													-	30.00
Water/Wastewater Sys OP III	0													-	-
Water/Wastewater Sys OP II	10													-	10.00
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	39.50	163.50	104.00	1,520.19	3,080.00
Process Lead Operator IV/V	150				2.50				8.00			33.00		43.50	150.00
Senior WWTP Operator III	720	22.50	22.00	23.00	126.00	39.00	29.50	29.00	55.50	22.00	39.50	67.00	37.50	512.50	720.00
Operator In Training	400													-	400.00
Operator II	1,700	158.00	101.50	104.19	154.50	105.50	64.00	30.00	66.50	50.00		63.50	66.50	964.19	1,700.00
Operator II (SLSS)	0													-	-
Operations Superintendent	110													-	110.00
Division 53 - MECH	1,230	129.50	126.50	95.50	124.00	142.50	113.00	76.50	131.50	178.50	118.00	214.50	171.50	1,621.50	1,230.00
Senior Mechanic-Crane Cert	60	43.50	47.50	32.00	28.00	42.00	23.00	35.50	44.50	57.50	21.00	77.00	47.50	499.00	60.00
Senior Mechanic - USA	80	1.50		1.00	7.00		7.50	9.50	4.00		6.00	15.00	3.00	54.50	80.00
Maintenance Worker	60													-	60.00
Mechanic I/II	980	18.00			12.00	23.00	11.00	4.00	9.00	30.50	12.00	32.00	58.00	209.50	980.00
Mechanic II-Crane Cert	0	44.50	50.00	48.50	54.00	57.50	45.50	18.50	59.50	72.50	53.00	70.50	49.50	623.50	-
Mechanic I/II - USA	0							4.00		1.00	3.00	4.00	4.00	16.00	-
Mechanic II-Crane Cert - USA	0	22.00	29.00	14.00	23.00	20.00	26.00	5.00	14.50	17.00	23.00	16.00	9.50	219.00	-
Supervisor	50													-	50.00
Division 54 - ELEC	1,130	43.50	28.00	31.00	24.50	34.00	57.00	51.50	8.00	23.50	53.50	38.00	66.00	458.50	1,130.00
Senior Instrument/Controls Tech	30						15.00	8.00	4.00	4.00	3.00		6.00	40.00	30.00
Instrumentation & Controls Tech I/II	300	2.50	28.00	20.00	24.50	32.00	42.00	43.50	4.00	2.50	16.50	36.00	12.00	263.50	300.00
OPS Control Sys Spec	300													-	300.00
Senior Electrician	30	13.00		4.00						8.00				25.00	30.00
Electrician I/II	440	27.00		5.00		2.00				8.00	34.00		48.00	124.00	440.00
Principal Eletrical Engineer	30	1.00		2.00						1.00		2.00		6.00	30.00
Division 26 - SAFETY	60	-	-	-	-	-	-	-	-	-	-	-	-	-	60.00
Safety Officer	60	-	-	-	-	-	-	-	-	-	-	-		-	60.00
Division 40 - ENG	260	-	1.50	2.50	4.50	2.50	9.50	2.00	2.50	0.50	-	30.50	10.50	66.50	260.00
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		30.50	10.50	66.50	100.00
Construction Inspector I	80													-	80.00
Engineering Technician II	40													-	40.00
GIS Analyst	40													-	40.00
Total Estimated Personnel Hours	5,800														
FTE	2.8														
Total Monthly Hours		**353.50**	**279.50**	**256.19**	**436.00**	**323.50**	**273.00**	**189.00**	**272.00**	**274.50**	**211.00**	**446.50**	**352.00**	**3,666.69**	**5,800.00**

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

LAVWMA	April	2022

SELECT FIRST

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 (Me	SM 5210 B-2011	SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (M	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
4/1/2022	9.96			7.42	7.56	3.237	0.001		
4/2/2022	11.20			7.42	7.55	4.229	0.001		
4/3/2022	9.22			7.41	7.54	4.678	0.001		
4/4/2022	8.47			7.47	7.61	3.449	0.001		
4/5/2022	8.18			7.47	7.59	3.165	0.001	13	<10
4/6/2022	7.60	9.1	9.7	7.46	7.67	2.864	0.001		
4/7/2022	7.90			7.41	7.80	2.929	0.001		
4/8/2022	6.50			7.39	7.65	2.708	0.001		
4/9/2022	6.90			7.49	7.66	2.429	0.001		
4/10/2022	9.29			7.47	7.64	2.492	0.001		
4/11/2022	8.82			7.47	7.67	2.548	0.001		
4/12/2022	9.48			7.56	7.75	3.755	0.001	4	<10
4/13/2022	9.60	8.3	11.0	7.56	7.77	3.522	0.001		
4/14/2022	10.60			7.54	7.64	3.417	0.001		
4/15/2022	9.28			7.47	7.62	2.925	0.001		
4/16/2022	10.60			7.49	7.62	2.245	0.001		
4/17/2022	13.10			7.45	7.57	2.013	0.001		
4/18/2022	9.90			7.44	7.64	1.712	0.001		
4/19/2022	10.60			7.47	7.56	1.662	0.001	<2	<10
4/20/2022	11.29	6.0	7.5	7.44	7.58	1.419	0.001		
4/21/2022	14.70			7.47	7.57	1.160	0.001		
4/22/2022	9.74			7.48	7.54	1.155	0.001		
4/23/2022	11.45			7.43	7.54	0.855	0.001		
4/24/2022	12.22			7.43	7.54	0.935	0.001		
4/25/2022	10.21			7.40	7.55	1.127	0.001		
4/26/2022	8.55			7.44	7.54	1.440	0.001	2	<10
4/27/2022	8.30			7.42	7.54	1.835	0.001		
4/28/2022	9.87	5.0	7.8	7.44	7.59	2.104	0.001		
4/29/2022	8.14			7.44	7.59	3.074	0.001		
4/30/2022	9.08			7.47	7.61	3.101	0.001		

LAVWMA	May	2022	SELECT FIRST

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 (Me	SM 5210 B-2011	SM 2540 D-2011	SM 4500-H+B-2011	SM 4500-H+B-2011	Daily Average (M	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
5/1/2022	7.93			7.51	7.63	1.44	0.001		
5/2/2022	8.10			7.44	7.66	1.38	0.001		
5/3/2022	7.46			7.48	7.63	2.23	0.001	50	<10
5/4/2022	6.62	6.7	7.4	7.49	7.64	2.79	0.001		
5/5/2022	7.88			7.47	7.64	2.47	0.001		
5/6/2022	5.70			7.49	7.63	2.26	0.001		
5/7/2022	7.11			7.44	7.61	4.47	0.001		
5/8/2022	6.98			7.45	7.64	5.62	0.001		
5/9/2022	6.94			7.47	7.64	5.86	0.001		
5/10/2022	7.57			7.53	7.64	5.08	0.001	<2	<10
5/11/2022	6.99	4.6	8.2	7.56	7.76	4.46	0.001		
5/12/2022	5.89			7.51	7.66	4.07	0.001		
5/13/2022	6.73			7.53	7.69	2.79	0.001		
5/14/2022	6.00			7.44	7.69	2.34	0.001		
5/15/2022	7.30			7.53	7.64	1.71	0.001		
5/16/2022	6.03			7.53	7.67	1.44	0.001		
5/17/2022	7.32			7.49	7.85	0.62	0.001	2	<10
5/18/2022	5.70	6.6	12.6	7.42	7.64	1.58	0.001		
5/19/2022	4.74			7.44	7.63	1.98	0.001		
5/20/2022	3.87			7.42	7.60	2.03	0.001		
5/21/2022	4.52			7.53	7.67	0.39	0.001		
5/22/2022	5.88			7.39	7.66	0.83	0.001		
5/23/2022	4.19			7.51	7.67	0.21	0.001		
5/24/2022	5.10			7.54	7.93	0.95	0.001		<10
5/25/2022	3.38	6.9	15.0	7.50	7.80	1.46	0.001		
5/26/2022	4.39			7.51	7.78	4.30	0.001		
5/27/2022	4.61			7.58	7.76	3.90	0.001		
5/28/2022	6.63			7.63	7.72	2.99	0.001		
5/29/2022	5.65			7.60	7.69	2.81	0.001		
5/30/2022	6.25			7.54	7.72	2.04	0.001		
5/31/2022	4.86			7.53	7.70	1.89	0.001	13	<10

Note:
Column E - pH Minimum; online
Column F - pH Maximum; online

LAVWMA	June	2022	SELECT FIRST

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		2.0	4.5					2	10
Location	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	LAVWMA-EXP	SLSS	SLSS	SLSS
6/1/2022	7.69	6.1	14.7	7.51	7.69	1.90	0.001		
6/2/2022	5.70			7.53	7.88	3.47	0.001		
6/3/2022	4.69			7.46	7.68	2.49	0.001		
6/4/2022	5.35			7.45	7.69	2.41	0.001		
6/5/2022	5.90			7.49	7.64	1.94	0.001		
6/6/2022	7.07			7.54	7.69	1.87	0.001		
6/7/2022	6.74			7.51	7.66	1.64	0.001		<10
6/8/2022	6.66	4.4	11.2	7.42	7.63	1.15	0.001		
6/9/2022	5.25			7.39	7.62	0.44	0.001		
6/10/2022	2.93			7.51	7.63	0.20	0.001		
6/11/2022	7.72			7.45	7.83	0.21	0.001		
6/12/2022	6.55			7.53	7.66	0.79	0.001		
6/13/2022	4.12			7.59	7.71	0.67	0.002		10
6/14/2022	6.29			7.54	7.74	0.31	0.001	11	<10
6/15/2022	5.88	5.3	8.5	7.39	7.61	0.20	0.001		<10
6/16/2022	5.87			7.58	7.66	0.20	0.001		
6/17/2022	5.27			7.51	7.69	1.55	0.001		
6/18/2022	6.52			7.58	7.67	2.23	0.001		
6/19/2022	6.52			7.56	7.67	2.89	0.001		
6/20/2022	5.65			7.47	7.70	3.07	0.001		
6/21/2022	5.88			7.54	7.70	4.25	0.001	<2	<10
6/22/2022	4.61			7.55	7.65	3.09	0.001		
6/23/2022	4.00	3.4	7.9	7.45	7.64	3.99	0.001		
6/24/2022	4.90			7.49	7.69	6.46	0.001		
6/25/2022	2.78			7.45	7.72	3.82	0.001		
6/26/2022	3.70			7.53	7.76	3.86	0.001		
6/27/2022	3.84			7.49	7.78	3.81	0.001		
6/28/2022	3.76			7.49	7.73	3.42	0.001		
6/29/2022	4.98	8.0	9.0	7.55	7.75	2.28	0.001	<2	<1
6/30/2022	4.26			7.56	7.73	3.01	0.001		

Note:
Column E - pH Minimum; online
Column F - pH Maximum; online

DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY

LAVWMA - 2nd Quarter 2022

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (ºC)	Ca Hardness (mg/L $CaCO_3$)	Alkalinity (mg/L $CaCO_3$)	pH (Actual)	pH Saturation	Langlier Index
04/05/22	817	20.9	134	373	7.6	7.2	0.4
05/03/22	872	21.8	151	418	7.6	7.1	0.5
06/13/22	778	24.6	132	396	7.5	7.1	0.4
MAXIMUM	872	24.6	151	418	7.6	7.2	0.5
MINIMUM	778	20.9	132	373	7.5	7.1	0.4
AVERAGE	822	22.4	139	396	7.6	7.1	0.4

DUBLIN SAN RAMON SERVICES DISTRICT
WASTEWATER TREATMENT FACILITY

DSRSD - 2nd Quarter 2022

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (ºC)	Ca Hardness (mg/L $CaCO_3$)	Alkalinity (mg/L $CaCO_3$)	pH (Actual)	pH Saturation	Langlier Index
04/05/22	848	21.8	142	382	7.6	7.2	0.4
05/03/22	874	22.3	162	418	7.5	7.1	0.4
06/13/22	870	24.7	150	410	7.6	7.1	0.5
MAXIMUM	874	24.7	162	418	7.6	7.2	0.5
MINIMUM	848	21.8	142	382	7.5	7.1	0.4
AVERAGE	864	22.9	151	403	7.6	7.1	0.5

CITY OF LIVERMORE
LIVERMORE WATER RECLAMATION PLANT

Langelier pH Saturation Index

Collection DATE	TDS (mg/L)	Temp (ºC)	Ca Hardness (mg/L $CaCO_3$)	Alkalinity (mg/L $CaCO_3$)	pH (Actual)	pH Saturation	Langlier Index
04/08/22	630	23.0	83	403	7.6	7.4	0.2
05/04/22	657	22.0	119	389	7.6	7.3	0.3
06/01/22	660	24.0	105	434	7.6	7.3	0.3
MAXIMUM	660	24.0	119	434	7.6	7.4	0.3
MINIMUM	630	22.0	83	389	7.6	7.3	0.2
AVERAGE	649	23.0	102	409	7.6	7.3	0.3

LAVWMA Action Item List **Month:** **Jun-22**

SAG Task	Responsible Party	Due Date	Status	Completion Date
Items for August 2022 LAVWMA Board Meeting.	SAG	NA	No significant items this month. Updates on current capital projects, continuing with remote meetings, review of investment policy, legal and legislative issues, and the GM report. Board approved returning to DSRSD for meetings, but since DSRSD is holding teleconference meetings through September 1, 2022, August will be a Zoom meeting. November 16 will be at DSRSD. By that time the new administrative person will be up to speed and able to assist with logistics.	
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. Eaton was at the site in July to finish the remaining programming items. Expect project closeout shortly.	Expected by 8/31/22
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	12/31/2022	The 75% design drawings, revised cost estimate, and technical specs were received May 9, 2022 and are under review. Comments on the technical specs have been completed and returned to HydroScience. They also sent about a dozen general requirements specs, which conflicted with our General Conditions. Reconciling them has been time consuming, but is nearing completion. Project is unlikely to be completed before the end of the year.	12/31/2022
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. We have heard nothing from Corrpro in several months. Will likely cancel their contract and have another firm do it. Will return to full system inspection this fiscal year.	6/30/2023
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 progressing.	
Pipeline Inspection. Estimated cost $100,000	TBD	6/30/2021	DSRSD has outlined a plan for an inspection in the all time frame.	
Smart Detectors on High Maintenance Air/Vac and Air Release Valves. Estimated cost $40,000	Quinlan	6/30/2022	Project is complete for six smart detectors.	6/30/2022
Replace three flow meters at the junction structure. Estimated cost is $250,000.	TBA	6/30/2023	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.	
Replace 17 valve actuators at the pump station. Estimated cost is $255,555.	Quinlan	6/30/2023	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 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.	
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	6/30/2023	Gate is in good shape but won't fully close. No date set, perhaps this winter. May be coordinated with replacement of the valve actuators.	
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.	

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
August 17, 2022

ITEM NO. 10 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 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. A Notice of Substantial Completion was sent to Royal Electric on August 8, 2022. There are only a few minor items remaining on a punch list. The project may be completely finished by the end of this month. As a reminder, this project was to replace the Motor Control Centers (MCC) at the pump station as they were nearing the end of their useful lives. The MCCs control the turning and off of the motors that power the pumps. There are six pumps and their associated motors served by one MCC and four pumps and their associated motors served by the other MCC. Replacement of the MCCs included all new state of the art control systems that help to protect the operation of the motors and pumps.

On a separate but related matter, given that electricity is LAVWMA's largest operational expense, the Board requested that staff revisit the 2014 report on the viability of adding solar panels to help address LAVWMA's electricity demands. To facilitate this effort, the agreement with DTN Engineers has been amended to update that report as well as look at the possibility of including a battery storage system. In addition, there have been periodic PG&E outages at the pump station. Unfortunately, during the outages, both Feeders have gone down leaving no power for the pumps. There is a small standby generator that provides power to the building.

During dry weather, PG&E outages are not an issue as there is substantial storage so there is no need to use electricity to run the pumps that transmit the treated wastewater offsite. During wet weather, the inability to pump when storage capacity is reached could be a problem. DTN is also working with PG&E to get more information on the cause of the outages and to explore options for revising the system such that if one Feeder goes down the system automatically switches to the other Feeder. This is possible since each Feeder is served by a different substation. Since May 2022 there have been four outages at the pump station. The length varied from only a minute to as long as 770 minutes (12.8 hours). Other outages were 67 and 450 minutes,

respectively. DTN will also consider standby generators, although those are getting harder to permit.

As before, the report will evaluate the length of time it would take for there to be a return on the investment in solar panels. DTN will look into possible grants or other incentives that may be available to LAVWMA to potentially reduce the upfront expenses of a solar project.

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. There have been no changes since the last report.

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 previous meetings. 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 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. Comments on the 75% plans and specs have been submitted to HydroScience.

Recommendation

There are no recommendations at this time.

Attachments

None

Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
August 17, 2022

ITEM NO. 11 UPDATE AND RESPONSE TO VARIOUS LEGAL AND LEGISLATIVE ISSUES

Action Requested
None at this time.

Summary
Attached for the Board's information is **Attachment No. 11.a**, California Association of Sanitation Agencies (CASA) Regulatory Update for August 2022. The Bay Area Clean Water Agencies (BACWA) Bulletin dated May 3, 2022, was included in the last packet. The document has not been updated. The 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. Biosolids has been under scrutiny lately as some believe that PFAS can leach out of the biosolids and contaminate groundwater, since biosolids are other uses in an agricultural soil amendment. CASA has prepared a bar chart, **Attachment 11.b,** showing the relative concentrations of PFAS in various household produces as well as biosolids. The PFAS concentration of biosolids is several orders of magnitude less than the consumer products. An important piece of legislation, AB2247 would require a publicly accessible reporting platform for PFAS in products. This would allow wastewater agencies to incorporate PFAS control in their pretreatment programs. That bill is currently with the Appropriations Committee.

BACWA has issued its August 2022 Bulletin, **Attachment 11.c**, which highlights regulatory issues for Bay Ares wastewater treatment plants. Some of the new items of interest include the Regional Board Basin Plan Amendment on Climate Change and Aquatic Habitat Protection, wastewater-based surveillance of Monkeypox, and the State Water Board's recycled water report for 2021.

Several bills have been working through the Legislature to modernize the Brown Act's provisions regarding holding remote meetings. We previously mentioned AB 1944 which would have allowed agencies to hold remote public meetings without posting their location if the board agreed to this by majority vote and has a livestream available for virtual public participation. However, this bill has died in the Senate Governance and Finance Committee. 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. AB 2449 was amended as recently as August 8. ACWA has taken a support position while the League of

California Cities has taken an oppose position. This bill is currently being reviewed by an appropriations committee and has not yet become law.

Recommendation
There is no recommendation at this time.

Attachments
11.a CASA Regulatory Update for August 2022
11.b CASA PFAS Concentrations Bar Chart
11.c BACWA August 2022 Bulletin

chuckweir@sbcglobal.net

From: Jared Voskuhl <JVoskuhl@casaweb.org>
Sent: Tuesday, August 2, 2022 5:45 PM
Subject: [Regulatory] CASA Regulatory Update – August 2022

Good Evening,

Please find below Water Quality, Biosolids, and Air updates from July and for August. Our June and July newsletters are linked, too. Our next Regulatory Workgroup meeting will be held on September 15. The next ACE meeting will be held on August 25. Additionally, on August 10-12, CASA will host our 67th Annual Conference at the Resort at Squaw Creek in Lake Tahoe, CA for which our conference program is available, and if you would like to attend, you may register here. Please let us know if you have questions or problems accessing the linked materials. We hope to see you later this month in northern California!

Thank you,
The RWG Team

WATER QUALITY

CASQA & State Water Board Bacteria Summit 9/14-16
Between September 14 and 16, the California Stormwater Quality Association (CASQA) and the California Water Boards are co-hosting a three-day statewide summit on bacteria at the CalEPA Building in downtown Sacramento. CASQA has released a draft agenda, which can be found here. The purpose of this multi-day summit is to identify the priority technical and regulatory actions needed to improve water quality in California's river and ocean waters, as well as the regulatory approaches and tools available to permittees to implement the standards. They are interested in our members participating on items for where there may be opportunities to work together to identify solutions and actions that will help California reach these goals. The public registration opened yesterday here. If you have any questions, please do not hesitate to reach out to Jared Voskuhl.

State Water Board Meeting on 8/2 for 2021 VAR for Wastewater and Recycled Water

On August 2, during the meeting of the State Water Resources Control Board (State Water Board/SWB), there was an informational item in the afternoon summarizing the results of the 2021 Volumetric Annual Report for wastewater and recycled water. For background, the SWB's Water Quality Control Policy for Recycled Water requires wastewater and recycled water permittees (including wastewater permittees that do not produce any recycled water) to annually report monthly volumes of influent, wastewater produced, and effluent, including treatment level and discharge type. At the August 2 meeting, State Water Board staff summarized the results for the 2021 volumetric data from the 700+ facilities who submitted the required information by the annual April 30 deadline. This year's report included analysis of recent trends in California since there now are three consecutive years of this data and included a broader discussion about revising our statewide goals for recycled water in lieu of this information and the continuing drought. Despite of the 70,000 AFY decrease to effluent volumes in 2021, California agencies still increased their production by 3,000 AFY compared to the prior year. Reach out to Jared Voskuhl with any questions or would like more information.

State Water Board Water Quality Fees Stakeholder Workshop on 8/4

On August 4, the State Water Board will host a workshop on the revised proposed waste discharge permit fund fees (water quality fees) for fiscal year 2022-23. In the newest August proposal, which is linked here, WDR fee payers would see a 3.8% increase and NPDES fee payers would see a 4.1% increase, values which include a 5% increase to establish a fund reserve. CASA's members and other stakeholders from different sectors all commented during the SWB's June workshop and discouraged staff from pursuing the establishment of the fund reserve this year in light of the sharp increases over the last several years and due to the fact that contributions from each sector to the reserve fund would not be earmarked for use by the same sector in subsequent years. If members provide the same comments on August 4 and the SWB eliminates the fund reserve portion, WDR fee payers would have a 1.1% decrease and NPDES fee payers would have a 0.8% decrease for their 22-23 water quality fees. This would be a favorable result for our members, especially when considering that the SWB's June proposal, linked here, would have increased WDR fees by 6.6% and NPDES fees by 5.5%. On the SWB's Fees webpage, you will find all relevant information and instructions on how to participate in the meeting. CASA will participate in the workshop this week, so please reach out to Jared Voskuhl with questions, comments, or concerns.

State Water Board Meeting on 8/16 for CWSRF 22-23 IUP & Program Review

On August 16, there will be a meeting of the State Water Board, which will feature two informational items: one about the 2022-2023 Clean Water State Revolving Fund Intended Use Plan (CWSRF IUP) and another summarizing the results of the multi-year management review of the administration of the CWSRF in California. Related to the first item, the State Water Board expects to release the IUP for public comment on August 5, and it will incorporate new federal infrastructure funding. For the second item, during the August 16 SWB meeting, there will be an Informational Item on the forthcoming report which represents the culmination of a multi-year project CASA has been working on with WateReuse California and the State Water Board. As part of this project, we sought to connect and learn from CWSRF borrowers and SWB staff in the Division of Financial Assistance about how the State Water Board may optimize the administration of the CWSRF and identify efficiencies so that applicants are better able to track the status of their submissions and receive disbursed funds in shorter periods than have been observed in recent years. Once the report is finalized after the 8/16 meeting, the SWB intends to release it to the public, at which time we will share it broadly to our members. In regard to

the 2022-23 CWSRF IUP, the SWB expects to adopt it at their September 20 meeting. If you have questions, please contact Jared Voskuhl and Bobbi Larson.

DWR Accepting Application for $200M in Water & Wastewater Resilience Grants

On August 19, applications will begin being accepted by the California Department of Water Resources (DWR) for nearly $200m in grant funding for infrastructure resilience under Proposition 1. DWR's Grant Program Guidelines and Proposal Solicitation Package are linked and explain the process and requirements for accessing grant funding to help local agencies advance water and wastewater infrastructure resilience projects. Eligible wastewater project types are listed on pages 12-13 of the Grant Program Guidelines, and the available funding amounts for various regions are found in the column on the far right side of Table 2 on page 12 of the Proposal Solicitation Package. Applicants may apply by either the first deadline of August 19 or the second deadline of February 1, 2023. Full information is available in the linked programmatic resources, and we hope your agency will consider applying for these funds.

State Water Board Briefs CWEA Collections Committee on SSS WDR Reissuance Update

On July 23, State Water Board staff attended CWEA's annual Collections Committee meeting at Morrow Bay to speak about what we may expect to see in the forthcoming reissuance of the proposed statewide Sanitary Sewer Systems Waste Discharge Requirements (SSS WDR). The SWB presentation is available here, and the Board intends to adopt the new SSS WDR by the end of December this year and release the proposed final draft of the Order at least 30 days before the scheduled adoption hearing. By way of background, our coalition comment letter on the formal staff draft is linked. Please reach out to Jared Voskuhl if you have questions about the information contained in the presentation.

Ceriodaphnia Dubia Study Expert Science Panel Meeting on 8/8

On August 8, the Expert Science Panel for the Development of Quality Assurance Recommendations for the *Ceriodaphnia dubia* Toxicity Test (*Ceriodaphnia dubia* Study) will meet between 9 and 11 AM. During the first 75 minutes of the meeting, the Expert Science Panel will meet in closed session to discuss the Quality Assurance Project Plan (QAPP) for the study baseline testing. The last half hour of the meeting will be open to the public as the Expert Panel will report out their thoughts on the study, answer questions on the logistics and clarifications of the process, and formally approve the QAPP. Please note, the open session is not a public comment period. To participate in the meeting, please register in advance here. More information and materials about the study are archived on SCCWRP's webpage for the study. If you have questions, reach out to Jared Voskuhl.

State Water Board Publishes Revised Toxicity Provisions After 2021 Re-Adoption

On July 21, the State Water Board posted the regulatory text for the Toxicity Provisions and accompanying Staff Report on their Program Page to reflect changes adopted per Resolution 2021-0044 and a subsequent January 20, 2022 Executive Director's memo. Resolution 2021-0044 approved revisions to the Toxicity Provisions and Staff Report. These revisions are described in detail in Attachment 1 and Attachment 2 to the resolution. In addition, consistent with authority granted in Resolution 2020-0044, minor, non-substantive changes to the Toxicity Provisions were made to add clarity and consistency. These changes are described in the January 20, 2022 Executive Director's memo. If you have any questions, please reach out to Jared Voskuhl.

State Water Board Hosts B&C&B Workshop on 7/14 About Nutrients Management
On July 14, the State Water Board hosted its first workshop in several years on their forthcoming "Biostimulation, Cyanotoxins, and Biological Condition Provisions" (B&C&B). While SWB staff shared they do not expect to issue new draft regulations for another 12 to 24 months, they stated they held the meeting to discuss and review the science for forthcoming statewide standards, as the staff who were working on the toxicity provisions have now pivoted to pursuing these policy changes over the next couple of years.

During the July 14 workshop, SWB staff presented their 4 project goals: (1) Adopt numeric or narrative water quality objectives for biostimulation, nutrients and other biostimulatory substances, and cyanotoxins, (2) Normalize and expand the use of biological condition assessment methods and scoring tools for assessing benthic macroinvertebrate and algae biological integrity in wadeable streams, (3) Adopt a program of implementation to achieve the biostimulation, nutrient, and cyanotoxins water quality objectives, and to improve biological conditions and maintain water quality in streams with healthy biological communities, (4) establish a new beneficial use or amend an existing beneficial use to encompass dogs and other domestic animals using waterbodies to ensure protection from cyanotoxins and other pollutants.

In advance of the workshop, on July 11, supplemental presentations were made available on the B&C&B program webpage under the "Recorded Webinars" section on the right hand side of the page, and they are based on the scientific research conducted by Southern California Coastal Water Research Project (SCCWRP) on water bodies covered by the B&C&B such as wadeable streams, lakes, rivers, and estuaries. Please reach out to Jared Voskuhl with questions or feedback from last month's workshop.

SCCWRP Research Update on OAH Modeling and Nutrients Management on 9/9
On September 9, SCCWRP will hold its quarterly Commission meeting, and there will be a presentation on the potential for wastewater recycling to reduce nutrients to mitigate for the adverse modeled effects of wastewater discharges on ocean acidification and hypoxia (OAH) in the Pacific Ocean.

Previously during the SCCWRP Commission's June 3 meeting, researchers shared about the modeled effects of wastewater discharges on OAH and the biological effects of those changes. The presentations are available here. Since that meeting, SCCWRP engaged with stakeholders through virtual Office Hours, SCAP submitted technical questions about the model for which they are awaiting responses, and SCCWRP hosted a stakeholder meeting on July 18 to discuss the mass-balance aspect of ROMS-BEC model.

On August, SCCWRP plans to host their quarterly Commission Technical Advisory Group meeting (CTAG) and will provide a preliminary technical presentation on the potential to mitigate OAH impacts if 50% or 90% of wastewater discharges on the coast are recycled. SCCWRP also will host another stakeholder Technical Advisory Group meeting before the September 9 commission meeting. Please reach out to Jared Voskuhl with you questions or comments.

State Water Board Update on 7/7 about OAH Modeling and Nutrients Management

On July 7, the State Water Board updated their statewide policies page with current plans for using the OAH model that SCCWRP is developing with the Ocean Protection Council. Per the update, SWB staff are scoping an Ocean Plan amendment to release in June 2024 for adoption by the end of 2024 to add water quality objectives and a program of implementation to address ocean acidification, hypoxia, and the effects of anthropogenic sources of nutrients in ocean waters, which the SWB had ranked as a top five high priority project in the 2019 Ocean Plan Review. SWB staff is working with the Ocean Protection Council, SCCWRP, and others to better understand (1) the impacts of ocean acidification and hypoxia on marine life, (2) the effects of anthropogenic sources of nutrients, and (3) appropriate parameters and thresholds to address these impacts. Additionally, staff are also working within the Integrated Report program to identify appropriate parameters (e.g., aragonite saturation) and thresholds to determine whether parts of the Pacific near outfalls are impaired for ocean acidification. If you have questions about the Board's ongoing work, you may reach out to Rebecca Fitzgerald, the manager of the State Water Board's Water Quality Standards and Assessment Section.

SWB Timeline Update for 2024 Integrated Report & 303(d) List for R2, R4, R5-S, R8

On July 7, the State Water Board updated their statewide policies page with the schedule for the 2024 Integrated Report. Per the update, the draft Staff Report for the 2024 Integrated Report is scheduled for release for public comment next winter by February 2023, and it will be followed by a public hearing for the draft 303(d) list in spring 2023. For this listing cycle, SWB staff are administering the public process for all Regional Water Boards on the 2024 Integrated Report and are currently assessing data that was submitted by agencies by the 2020 deadline.

Sanitation agencies around San Francisco (Region 2), Los Angeles (Region 4), Sacramento (Region 5-S) and Santa Ana (Region 8) should begin to reach out to their respective Regional Water Board staff to inquire about how they have assisted and reviewed the State Water Board's proposals for new listings in the 2024 report. Based on the clean water community's experiences for listings in the 2020-22 report, it is in your agency's best interest to reach out early to your Regional Water Board to learn whether there are new listings for receiving waters in your service area, how State Water Board staff are determining new listings, and their underlying basis and priority if it may potentially affect your agency.

Before then, on September 1, the California Water Quality Monitoring Council (CWQMC) will feature a multi-hour presentation about the Board's ongoing process for the forthcoming 2024 draft 303(d) list. Of particular interest is whether the SWB may prospectively set thresholds for aragonite saturate, pH, and/or dissolved oxygen, which are all proxies for OAH and which SWB staff have shared they are scoping a rule and developing a line of evidence utilizing the ROMS-BEC model for the 2024 Integrated Report. If you are interested in attending the CWQMC meeting, please reach out to Drs. Lorien Fono and Sam Choi, your CWQMC representatives.

If you have inquiries about the forthcoming 2024 report and associated administrative processes by the SWB, please reach out to Spencer Saks.

CA State Auditor's Report Publish on SWRCB Funding Delays and Administrative Backlogs

On July 28, the California State Auditor released a Report on the State Water Resources Control Board funding delays to provide Californians with safe drinking water. The report found nearly a million Californians face possible long-term, negative health outcomes because they receive

unsafe drinking water from a failing water system. The report observed that the State Water Board has funding available to help these failing systems improve the quality of their drinking water but that the board has demonstrated a lack of urgency in providing this critical assistance, as represented by the near doubling of the amount of time for water systems to complete applications for funding and the SWB to approve and award that funding, from 17 months in 2017 to 33 months in 2021. The report goes on to conclude the State Water Board's lack of goals and metrics for its application process has likely contributed to this lengthening time frame and directs the State Water Board to develop a plan to ensure that its staff and its contracted providers efficiently utilize resources while not duplicating administration. If you have questions or comments about the audit report, please reach out to Spencer Saks.

USEPA to Present During National Organizations' Webinar on Implementing BIL Funding

On August 2, USEPA's Managing Director for Infrastructure Implementation, Karen Dettmer, appeared in a virtual webinar hosted by The Bipartisan Policy Center, National Association of Counties, and National League of Cities, to discuss implementation of the Bipartisan Infrastructure Law (BIL) in the fourth event of their "Overcoming Challenges and Seizing Opportunities: Implementing the Bipartisan Infrastructure Law" series. The Bipartisan Infrastructure Law provides USEPA with approximately $60 billion to invest in infrastructure—including the single largest investment in water infrastructure ever from the federal government. Leveraging these federal dollars for maximum impact will require strategic and efficient deployment of resources along with coordination with states, counties, cities, and other federal agencies, so participants in the webinar heard more about those challenges and how USEPA intends to address them. Please each out to Sarah Sapirstein if you have questions.

State Water Board Recordings from the 2022 California Water Data Science Symposium

On July 3, the California Water Quality Monitoring Council released the recordings and resources from the 7th annual California Water Data Science Symposium & California Water Data Challenge Kickoff that was held on June 28 and 29. To view all the recordings that the California Water Quality Monitoring Council has made available, you can go to their YouTube page linked here. The Science Symposium's webpage, which includes all of the related links and resources, is available here. The Council has updated their agenda with links to all slide decks, links shared in the chat, and resources that were made available. If you have any questions, please reach out to Spencer Saks.

GIS Service Area Map for Water Conservation, Infrastructure Financing, & WBE

In August, CASA will reach out in a separate message about an initiative to submit GIS data containing your respective agencies' service boundaries. These maps would be shared with the SWB and utilized by multiple programs at the SWB, including for the analysis of impacts of water conservation and declining flows, for infrastructure financing, and for wastewater-based epidemiology. Agencies around the Bay Area previously submitted their service boundaries, so you may view this link to see the relative simplicity of information that is being sought. Lookout for a message later this month with more detailed information, and please contact Jared Voskuhl if you have any questions in the interim.

BACWA's "Understanding your NPDES Permit" Session

On July 20, the Bay Area Clean Water Agencies (BACWA) hosted a special virtual session of their Permits Committee. Mary Cousins provided an expanded presentation of her talk at

CWEA's 2022 Annual Conference entitled, "Understanding your NPDES Permit." The link to the recording of the session is available here, and the presentation covered the laws and regulations governing NPDES permits, 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. If you have further questions, please reach out to Lorien Fono and Mary Cousins.

NACWA Releases 4 White Papers to Aid Clean Water Utilities & Frame Policy Discussions
On July 21, NACWA released a series of four white papers to provide valuable insights and assistance to public clean water utilities, as well as to help structure critical advocacy and policy discussion on key clean water issues moving forward. The four white papers are: (1) Considerations for Using Integrated Planning – What Clean Water Utilities Should Know, (2) Water Infrastructure Funding Parity Report, (3) Current, Emerging, and Potential Technologies in the Clean Water Space… Opportunities for the 21st Century Utility, and (4) Biosolids and PFAS: Maintaining Management Options is Critical to Communities and Sustainability. For more reach out to Nathan Gardner-Andrews, NACWA's Chief Advocacy & Policy Officer.

Join CASA at Our 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. 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 community goes above and beyond our mission to protect public health and the environment. The conference will feature numerous 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. The link here will lead you further information about registration, hotel, and COVID related information that will be in place as part of this event. Please each out to Cheryl Mackelvie if you have questions or need assistance registering. We look forward to seeing you there!

State Water Board Agenda Roundup
Here are recent State Water Board agendas for their meetings on July 19-20 and August 2. The Executive Director reports are available for June (2021 VAR, Arrearages, 303(d) assessments) and July (wastewater consolidation program and SB 1215 implementation) which feature a link to the SWB's recently updated statewide and regional policies calendar.

BIOSOLIDS

USEPA PFAS Research Webinar on 8/4
On August 4, USEPA will host a workshop highlighting PFAS research conducted by the Water Research Foundation. This workshop is part of the "EPA Meets the World" webinar series focused on the latest developments in per- and polyfluoroalkyl substances research. If you would like to register to attend this event, please see the registration link here. To find out more about this webinar series, please see here, or please reach out to Greg Kester.

CASA, NACWA, WEF, AWWA Submit Coalition Letter to USEPA on PFAS CERCLA Rulemaking
On July 11, a coalition of organizations representing water and wastewater sectors and local government sent a letter to the U.S. Environmental Protection Agency and Office of Management and Budget (OMB) about their tentative plan for an Advance Notice of Proposed Rulemaking to designate PFOA and PFOS as hazardous substances. The letter outlines significant concerns about the possible implications to municipal entities if EPA moves forward and designates PFAS chemicals as a hazardous substance under the federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) – also known as the Superfund law. In particular, the letter notes that municipal entities – like public clean water utilities – are passive receivers of PFAS but could face considerable financial liability if the chemicals fall under CERCLA given the strict liability nature of the law. Additionally, the letter expresses concerns that EPA has not sufficiently consulted with local governments about the potential implications of a CERCLA designation, requesting that EPA engage in further discussions with municipal entities before making any regulatory determinations. CASA and NACWA will continue to aggressively advocate with EPA and Congress on PFAS issues and push back on regulations that may unnecessarily harm the clean water sector. If you have questions, please reach out to Sarah Sapirstein.

CASA Releases Infographic on Relative Concentrations of PFAS
On July 28, CASA released an updated infographic formulated on information compiled from the cited scientific literature to provide readers a relative comparison of concentrations of PFAS in various everyday products and biosolids. The infographic also provides context for discussing the wastewater sector's role in helping manage PFAS in the environment. The infographic is available here. Please reach out to Greg Kester if you have questions.

USEPA Requests Feedback by 8/29 for PFAS Data Gaps and Research
On July 13, the USEPA Office of Science and Technology Policy released a Notice of Request for Information: Identifying Critical Data Gaps and Needs to Inform Federal Strategic Plan for PFAS Research and Development. Comments are due on August 29, and we will be reviewing this and will offer comments as appropriate. Please reach out to Greg Kester if you would like to be part of a review team or if you have any questions.

CalRecycle Webinar on 8/30 about Forthcoming Regulatory Changes to the RDRS Program
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 is holding three informal workshops where staff will overview the changes, present draft regulatory text, and solicit stakeholder feedback. They have already held two of the workshops virtually, and on August 30, CalRecycle will host the third workshop for which you may register here to attend virtually or otherwise use this link to watch the Webcast on the day of the event. Please reach out to Greg Kester if you have questions.

Northwest Biosolids Grant Application Deadline 9/9
On September 9, applications are due to the Northwest Biosolids funding opportunity to help expand research into all their member areas. This funding opportunity focuses on quantifying the climate change and economic benefits of biosolids, and Northwest Biosolids has committed $75,000 to this new research grant program for existing members, new members, and their

research partners who have interest in biosolids and related topics. The invitation is linked here. Please each out to Greg Kester if you have questions.

Northwest Biosolids Research Library for July on Nutrient Budgets and Tracking
The July Biosolids Research Library from Dr. Sally Brown is available here, and the bibliography of the new items are available here. These articles are focused on how to do nutrient budgets and track nutrient flows for specific regions. For more information or to receive the full articles please reach out to Greg Kester.

AIR

CARB Hosts Public Workgroup on Draft Advanced Clean Fleets Regulation Provisions
On July 26, the California Air Resources Board (CARB) held an important workshop on the Draft Advanced Clean Fleets Regulation. The workshop's aim was to publicly discuss with stakeholders how to improve draft provisions for High-Priority Fleets, Federal Fleets, and State and Local Government Fleets. This meeting focused on what zero-emission vehicle (ZEV) models and configurations are available for utilities and how to improve draft provisions intended to address situations when ZEVs are not available in the needed configuration or if available ZEVs are not suitable for a particular fleet's daily duty-cycle at the time of purchase. The CARB staff presentation is linked, and a recording of the meeting is available, too. If you have any questions, please reach out to Sarah Deslauriers.

CARB Hosts Workshop on the Low Carbon Fuel Standard
On July 7, CARB held a workshop on potential changes to the low carbon fuel standard, a program which incentivizes the use of wastewater-derived biogas for production of a low carbon transportation fuel. The potential changes focused largely on shifting LCFS pathways away from biofuels to hydrogen (in line with recommendations made during the Scoping Plan Update Public Meeting. Sarah Deslauriers commented on behalf of CASA, along with other members, to express the need for continued beneficial use of biogas, to request the continued use of existing pathways, and to express the need for demonstration projects showing the viable use of hydrogen as a transportation fuel before abandoning the existing pathways. The staff presentation is available here, and the recording of the workshop is available here. Written comments on this issue are being developed and will be submitted by August 8. If you would like to participate on this issue, please reach out to Sarah Deslauriers.

CALENDAR

August 2 SWB Board Meeting (2021 VAR Info Item)

August 2 Webinar on Implementing BIL Funding Provisions at EPA

August 4	SWB Water Quality Fees Stakeholder Meetings
August 4	USEPA PFAS Research Webinar
August 5	SWB Drinking Water & ELAP Fees Stakeholder Meeting
August 8	Cerio Study Expert Science Panel Meeting
August 8	CARB Comment Deadline re: Low Carbon Fuel Standard
August 10–12	CASA Annual Conference (Resort at Squaw Creek, Lake Tahoe, CA)
August 16	SWB Board Meeting (CWSRF 22-23 IUP & CWSRF Management Review)
August 19	DWR Resiliency Grant Application
August 29	USEPA Comment Deadline for PFAS Data Gaps and Research Needs

August 30	CalRecycle's Informal Workshop on RDRS
Sept. 1	California Water Quality Monitoring Council Meeting (2024 303(d) List)
Sept. 7	SWB Board Meeting
Sept. 9	SCCWRP Commission (Water Recycling and OAH Impacts)
Sept. 9	Northwest Biosolids Grant Deadline
Sept. 14	Ocean Protection Council Meeting
Sept. 14-16	CASQA & SWB "Bacteria Summit" (Sacramento)
Sept. 20	SWB Board Meeting (WQ Fees & CWSRF 22-23 IUP)

Visit our website

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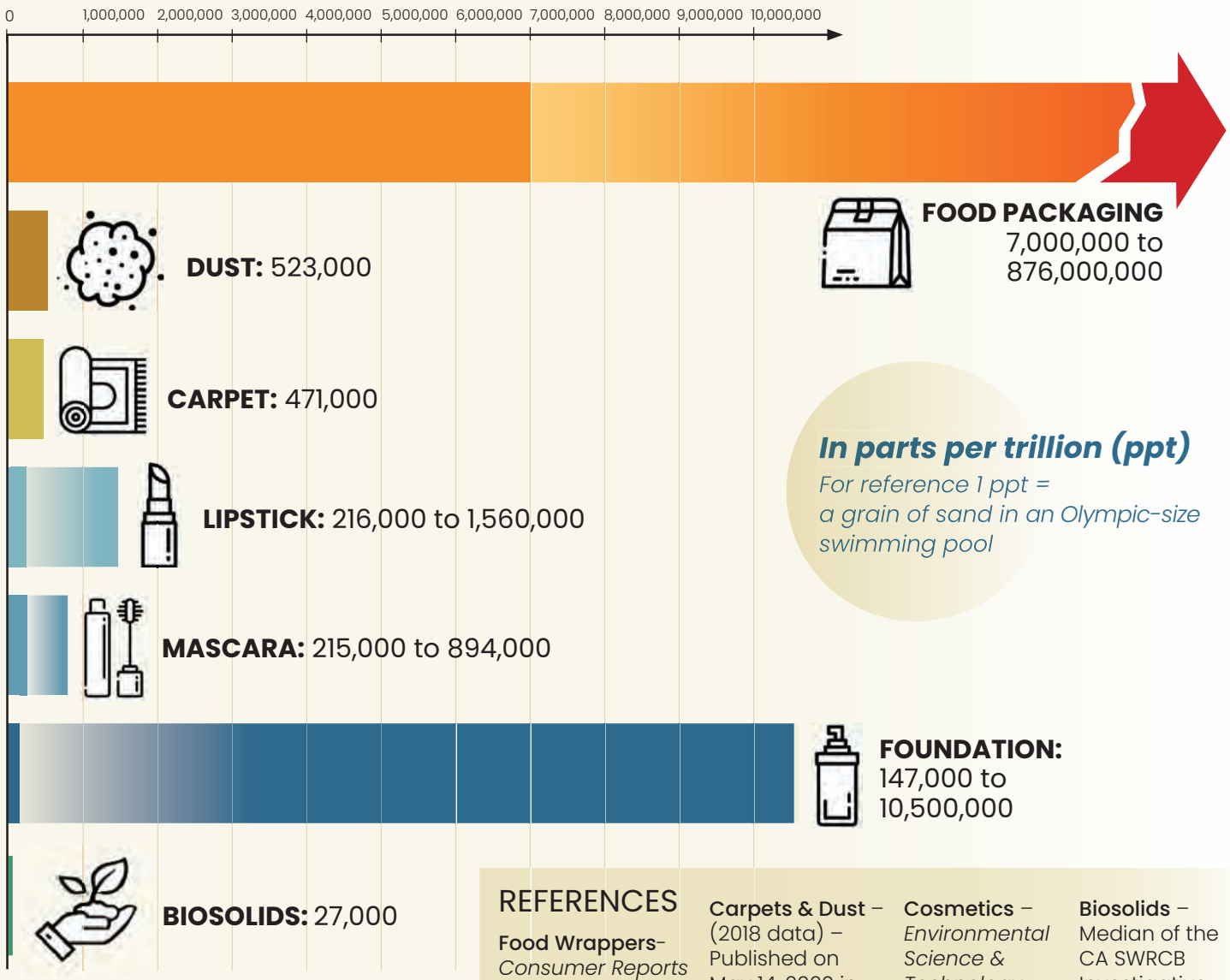
PFAS BY THE NUMBERS

Per and polyfluoroalkyl substances (PFAS) are a group of manmade fluorinated compounds that have been in commercial use since the 1940's and are abundant in today's society. These chemicals are widely used for their resistance to heat, water, and oil. PFAS are found in every American household, and in products as shown in the bar graph with typical concentrations. Entities providing essential public services such as safe drinking water, wastewater treatment, water recycling, biosolids recycling, and municipal solid waste management are not "users" or "producers" of PFAS but receive them as a function of their prevalent use in society.

Our collective essential public service mission is to ensure safe drinking water, wastewater treatment, and sanitation services. We embrace our role as environmental and public health stewards and our continued responsibility and commitment to providing a clean environment now and for future generations. To ensure successful achievement of our mission, we must transition away from use of PFAS in our society.

RELATIVE RANGES *in parts per trillion*



In parts per trillion (ppt)

For reference 1 ppt = a grain of sand in an Olympic-size swimming pool

REFERENCES

Food Wrappers- *Consumer Reports* (May 2022)

Carpets & Dust – (2018 data) – Published on May 14, 2020 in *Chemosphere*.

Cosmetics – *Environmental Science & Technology* – June 15, 2021

Biosolids – Median of the CA SWRCB Investigative Order (2020)

chuckweir@sbcglobal.net

From: Bay Area Clean Water Agencies <noreply@bacwa.org>
Sent: Wednesday, August 10, 2022 10:12 AM
To: Charles
Subject: BACWA Bulletin - August 2022

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BACWA Bulletin - August 2022

Meetings

- Lab Committee TNI Training - Tues 8/16
- Executive Board - Fri 8/19
- Asset Management Committee - Wed 8/24

- AIR Committee - Wed 8/31
- Visit the Calendar for details

All BACWA Committee meetings continue to be held on Zoom.

Upcoming Events

- Rising Groundwater Adaptation Workshop - Thurs 8/11, virtual
- BACWA Members' Roundtable on Sea Level Rise Planning - Tues 8/23, virtual
- Bay Planning Coalition - Energy and Water Nexus - Fri 9/9, virtual
- WateReuse California Annual Conference - 9/11 to 9/13, in-person (San Francisco)
- California Bacteria Summit - 9/14 to 9/16, virtual and in-person (Sacramento)

View previous BACWA Bulletins

Regional Water Board adopts Basin Plan Amendment on Climate Change and Aquatic Habitat Protection

In July, the Regional Water Board adopted a non-regulatory **Basin Plan amendment addressing climate change**. The amendment includes background information on climate change, but the main content is related to dredge and fill activities near the region's shorelines, including climate adaptation projects. A **Staff Report** is also available.

This Basin Plan amendment may be helpful to wastewater agencies that manage nature-based projects such as wetlands or horizontal levees. BACWA submitted a **comment letter** on the draft Basin Plan Amendment, and the Regional Water Board prepared a **response to comments**. Although the Regional Water Board does not plan to pursue further basin plan amendments to facilitate NPDES permitting of nature-based solutions, the Board expressed support for the idea at the adoption hearing. Also, NPDES division staff shared helpful information on existing rules for **NPDES Permitting for Nature-Based Solutions**.

The amendment requires approval by the State Water Board and Office of

Administrative Law before it becomes effective.

Algae Bloom in Oakland Estuary

In the past week, local media have reported a "red tide" algae bloom in the Oakland Estuary, which has now been determined to be *Heterosigma akashiwo.* Learn more in this news report from **KTVU**. Previous blooms of *Heterosigma akashiwo* in San Francisco Bay have been reported in both the media (**SFGate, 2002**) and scientific literature (**O'Halloran et al, 2006**).

San Francisco Estuary Blueprint Released

The **San Francisco Estuary Partnership**'s **2022 Estuary Blueprint** is a collaborative, consensus-driven five-year roadmap for the San Francisco Estuary. The Blueprint identifies the top actions needed for:

- increased climate resilience
- improved water quality for animals and people
- healthier habitats and wildlife
- thriving human communities

Here is a one page summary of a **Blueprint Briefing Sheet**. A **story-map tour** of the Blueprint is also available. The Blueprint identifies 25 actions to implement the Blueprint. Several of the actions will involve BACWA and its member agencies, such as:

- **Water Conservation.** This action calls on BACWA member agencies to convene with Bay Area water agencies to discuss regional water conservation targets, opportunities, and limitations, resulting in a synthesis report.

- **Expand the use of recycled water.** This action will include collaboration with the BACWA recycled water committee and completion of the **BACWA recycled water study** now underway.
- **Nutrient Management.** This action is tied directly to the **San Francisco Bay Nutrient Management Strategy,** which is largely funded by BACWA members.
- **Emerging Contaminants.** BACWA members' support for the **Regional Monitoring Program**'s constituent of emerging concern and microplastics monitoring strategies is tied to the action. Source control advocacy by the Bay Area Pollution Prevention Group and our ongoing **PFAS Regional Study** are related task under this action.
- **Health Risks of Contaminants.** Reducing human health risks due to legacy contaminants is an element of BACWA members' compliance with the Mercury and PCBs Watershed Permit. BACWA provides financial support to the **California Indian Environmental Alliance** for this work.

Wastewater-Based Surveillance of Monkeypox

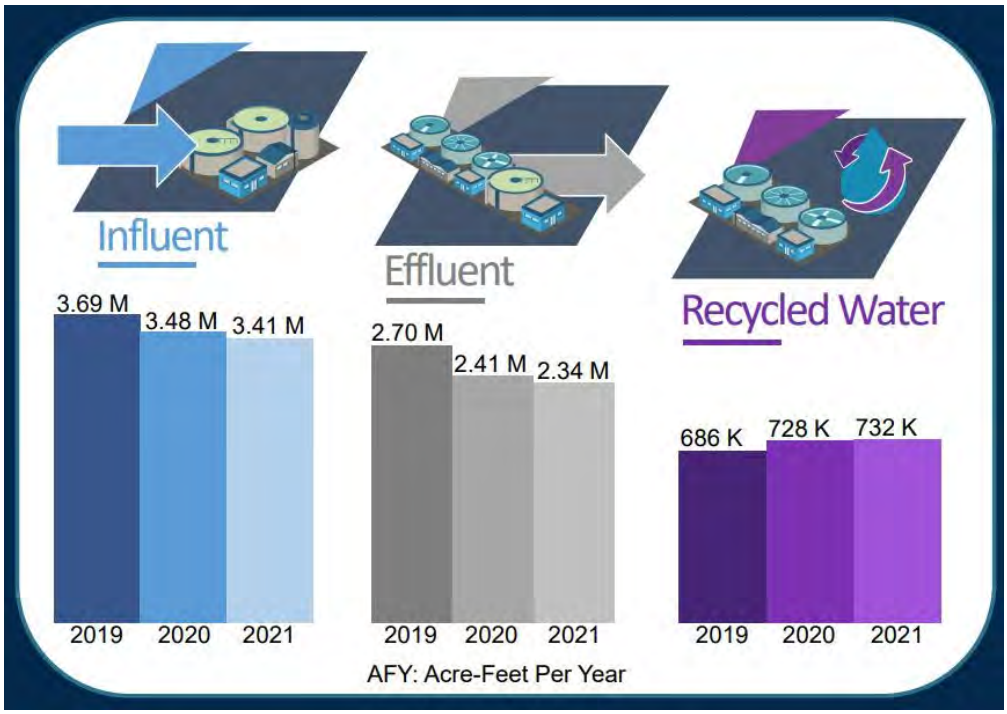
Many BACWA members are participating in efforts to track monkeypox in wastewater, including an effort being led through Stanford University and Emory University. Local results are posted to a **Bay Area dashboard**. The Stanford-led wastewater Sewage Coronavirus Alert Network (SCAN) is now nationwide, with "heatmap" and concentration results for monkeypox available at **Wastewater SCAN**.

According to the **MIT Technology Review**, "There is no evidence that you can contract monkeypox from wastewater itself. What drives human-to-human transmission is prolonged, close contact with an infected person that exposes you directly to their rash, bodily fluids, or respiratory droplets, according to the World Health Organization." BACWA will provide updates if new information emerges about the transmissibility of monkeypox via untreated wastewater.

State Water Board Releases Recycled Water Report for 2021

On August 2nd, the State Water Board heard an **informational item** summarizing the **Volumetric Annual Report of Wastewater and Recycled Water in California**. The State Water Board has released the **data** as well as an **interactive map**.

Based on this report, recycled water use rose slightly from 2020 to 2021. For the state as a whole, the increase was about 0.5% (see below for excerpt from the **infographic**). For BACWA member agencies, the increase was about 3%.



Chlorine Basin Plan Amendment Delayed

In October 2021, the Regional Water Board adopted a **blanket permit amendment** for residual chlorine and oil & grease. The EPA approval process for the underlying **basin plan amendment** adopted by the Regional Water Board in 2020 continues to be delayed. EPA plans to conduct a formal consultation with US Fish & Wildlife Service regarding potential toxicity to fish. Due to this delay, the earliest date that EPA is likely to approve the amendment is early 2023.

COVID-19 Updates

BACWA continues to hold nearly all Executive Board and Committee meetings by videoconference. Regular Executive Board meetings will resume in-person when required by State law regarding public meetings. Committee meetings will resume in-person after meeting venues are open, which is not expected until later in 2022. Questions and concerns can be directed toward Executive Director **Lorien Fono**.

Member News

Send in *updates from your agency to post here.*

Fairfield-Suisun Sewer District is recruiting for an intern in nature-based solutions. This flexible opportunity is perfect for a student looking for part-time work who also wants to learn about nature-based solutions, climate resilience, and local government. More information and the **application are available here.** Applications are due at 5 pm on Monday, August 15th.

What's new in BACWA's Committees

AIR Committee

In July, representatives from the AIR committee and BACWA Executive Board held a quarterly workgroup meeting with BAAQMD staff to discuss implementation of air toxics regulations, and other related matters. Come hear all about it at the next committee meeting on Wednesday, August 31st!

Asset Management Committee

The next meeting scheduled for Wednesday, August 24th, will feature a discussion on Condition Assessment and the outcomes of a recent survey on asset management software solutions. To join this recently reactivated committee, contact **Mary Cousins**.

BAPPG

The **August meeting** include a **presentation on Contaminants of Emerging**

Concern from SFEI's Diana Lin and the annual pollutant prioritization. The group has prioritized PFAS; wipes and other trash covered by the "**Toilets Aren't Trash Cans**" campaign; FOG; and pesticides for future outreach efforts. The next meeting is scheduled for Wednesday, October 5.

Collections Systems Committee

The committee's **August meeting** featured a **presentation** on recent efforts to increase the safety and efficiency of sanitary sewer repairs from the City of San Jose's Jennifer Seguin and Matt Norris. The committee also held a roundtable discussion on criminal activity against collection system workers and equipment.

The next meeting is scheduled for Thursday, November 10th. A revised version of the draft SSS-WDR is currently anticipated around the same time (no later than early November), at least 30 days ahead of the State Water Board's scheduled adoption hearing on December 6 & 7th.

Laboratory Committee

The August meeting featured a **presentation from EBMUD's Xin Xu** on ion chromatography for Volatile Fatty Acids, which are useful for process control monitoring in anaerobic digesters. The next regular meeting is scheduled for Tuesday, October 11th. The next **TNI monthly training session** will be held August 16th at 10 AM.

Permits Committee

The August meeting included updates on the proposed statewide toxicity provisions and on the ongoing negotiations for the 3rd watershed permit (anticipated for reissuance in 2024). The meeting also included a discussion of recently compiled PCB congener data and monitoring requirements. An administrative draft of the reissued Mercury and PCBs watershed permit is expected in late August. The next regular meeting is scheduled for Tuesday, October 11th.

Recycled Water Committee

The **July meeting** featured a **presentation from the North Bay Water Reuse Authority** and a discussion about operating residential recycled water fill stations. The committee continues to work on a training video for site supervisors; the BACWA Executive Board approved video editing consultant support for the project in July. The next meeting is scheduled for Tuesday, September 20th.

Upcoming Events

Thursday, August 11, 1 pm: Rising Groundwater Adaptation Workshop

This workshop will be the culmination of work by the Pathways Climate Institute, the San Francisco Estuary Institute, and UC Berkeley on a **shallow groundwater mapping effort** for San Francisco Bay funded by the California Resilience Challenge. The team is finishing up the current and projected future depth-to-groundwater maps for Alameda, Marin, San Francisco, and San Mateo counties. At the workshop, the team will present mapping results, lessons learned, and next steps. Guest speakers will provide adaptation insights, including examples from places outside San Francisco Bay. Following the presentations, there will be breakout sessions focused on a range of adaptation-related topics. Register **here**.

Tuesday, August 23, 10 am: BACWA Sea Level Rise Roundtable

Join your fellow BACWA member agencies for a virtual roundtable discussion on adaptation to sea level rise, extreme precipitation, and flooding. We'll discuss partnerships, the adaptation planning process, how to choose and use sea level rise and extreme precipitation scenarios, and more. Please see this **Registration Link** and **event flyer**.

Friday, September 9th, 9 am: Energy & Water Nexus Summit

The Bay Planning Coalition's annual Energy & Water Nexus Event will include a timely review of California's energy and water resources as drought conditions persist in the state. BPC will host speakers from State agencies and industry leaders to provide an update on the drought's impact on resources, share insights

on future plans, and discuss the potential for alternative sources. The event will also feature panel discussions on: (1) Desalination as an alternative source for drought resilience; and (2) General Managers from 3 regional water agencies to discuss their agency's response to current conditions and re-tooling to address source instability. All three agencies represented by these General Managers are currently evaluating potable reuse as a potential water source.

September 11-13: WateReuse California Annual Conference

The WateReuse California Annual Conference will take place from September 11-13 in San Francisco. The conference will feature sessions on potable reuse success stories, agency collaboration on reuse projects, RO concentrate management, climate change resiliency, and more.

September 14-16: California Bacteria Summit

The California Water Boards and CASQA will be co-hosting a three-day statewide summit on bacteria at the **CalEPA** building in Sacramento (pending applicable COVID restrictions in place at that time).

The purpose of the summit will be to identify the priority technical and regulatory actions needed to recreate safely in California's river and ocean waters, to eat shellfish safely, and the process to implement those actions. In simple terms, we want to work together to identify solutions and actions that will get us to our goals.

The **draft agenda** identifies the goals for each day. The summit will be professionally facilitated, and all in-person attendees will actively be engaged.

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Agenda Explanation
Livermore-Amador Valley
Water Management Agency
Board of Directors
August 17, 2022

ITEM NO. 12 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.

DSRSD staff is in the process of implementing a new software program for managing Underground Service Alerts. This system alerts utilities of potential excavation in the vicinity of knows underground utilities. All utilities are required by state law to properly label their facilities according to a specific color coding system. You may have noticed color markings in your local streets. The state has extended the deadline to switch from WebTMS until October 2022. DSRSD staff is proceeding to move over to a new system called LocatorLogix. This will just be a simple upgrade to the existing product from the current Software developer. They are going from the free version to the paid version. A purchase order will be created for implementing the new software. DSRSD staff will also ask for a demo for those that have not previewed the software

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. Interviews are being held with prospective candidates. The new person should be onboard by the end of September 2022.

3. Wastewater Agency Response to COVID-19
Member Agency staff continue to follow all current guidelines issued by the Governor and Alameda County. As noted for this meeting, DSRSD has returned to Teleconference meetings until September 1, 2022. Assuming there are no further outbreaks, the November 16, 2022 Board meeting will be held at DSRSD.

4. FYE21 Capital Project Planning
Please refer to the Action Item List, **Attachment No. 12.a** for a status report on all capital projects for FYE23. 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 Manger 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. PG&E Costs and Max Demand Savings

There is a paragraph in the Quarterly O&M Report, Item No. 9, noting that DSRSD staff is managing the system to avoid Max Demand Charges on one of the Feeders to the pump station. This is a key accomplishment, and should be explained further. The billing period from PG&E is published in advance, which allows for operations planning. The current billing period is July 14 – August 15, 2022. There are two sets of pumps at the station: six 500 HP pumps and four 600 HP pumps. A separate Feeder provides power for each set of pumps. There are separate charges for each Feeder. Following is a list of the various types of charges on the bills:
kW = Kilowatt
kWh – Kilowatt hour

Charge and Description	**Approximate Cost**
Customer Charge – daily cost for having a meter	$58.30 / Day Average monthly cost is $3,500
Demand Charge Max Peak – a demand charge for the highest kW draw during the Peak Period	$30.60 / kW Average monthly cost is < $500
Demand Charge Max Partial Peak – a demand charge for the highest kW draw during the Partial Peak Period	$6.13 / kW Average monthly charge is < $100
Demand Charge Max Demand – a demand charge for the highest kW draw during the billing period	$28.04 / kW Average monthly charge is $32,000
Energy Charge Peak – for each kWh used during the Peak period	$0.19 / kWh Average monthly charge is < $1,000
Energy Charge Partial Peak – for each kWh used during the Partial Peak period	$0.15 / kWh Average monthly charge is < $100
Energy Charge Off Peak – for each kWh used during the Off Peak period	$0.13 / kWh Average monthly charge is $32,000
Energy Charge Super Off Peak – for each kWh used during the Super Off Peak period	$0.07 / kWh Average monthly charge is $8,000
Power Factor Adjustment, Energy Commission Tax, Peak Daily Pricing Program Credits – various fees that are small	Varies depending on the item. Sometimes a credit of up to $200, and sometimes a charge of up to $100.

A 500 HP pump will draw approximately 400 kW, and a 600 HP pump will draw approximately 500 KW. Typically it takes two pumps to pump all dry weather flow during the non-peak periods. The demand charges occur almost immediately, i.e. it does not matter how long the

pumps run. The energy charges depend on how long the pumps run For example if two 500 HP pumps run for 15 hours, the energy usage would be:

2 pumps x 400 kW/ Pump x 15 hours = 12,000 kWh
During off peak this would be 12,000 kWh x $0.13 /kWh = $1,560 for one day of pumping

By running only one Feeder during the billing period, the demand charges are all avoided. The highest of these charges is the Max Demand charge, which averages $32,000 per month for each Feeder. This can be accomplished for at least six and possibly eight months during the year. It may even be possible to use this mode of operation during small storms. Large storms will require up to eight or nine pumps, so the second max demand charge cannot be avoided.

It is possible to run only one Feeder during the billing period, or to run only one pump on each side. As long as two pumps on both sided is avoided during the billing period max demand charges can be minimized.

The General Manager first noticed this back in April, when reviewing the bills. He planned to bring it up to DSRSD to explore further. Emails during June and July led to the conclusion that it was intentional on the part of DSRSD operations. For that, their initiative is to be commended as it saves the member agency rate payers substantial electrical costs.

Following is a brief description of major activities since the June 29, 2022 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.
- Finalized approved items from the June 29, 2022 Board meeting: FYE23 Budget, resolutions, and minutes. Sent for signature via DocuSign. Uploaded approved files to website. Drafted June 29, 2022 minutes and sent out for review. Updated based on comments received.
- Prepared items for the August Board meeting and prepared the packet for distribution. Made updates to website as needed for files and legal requirements.
- Rescheduled August 17 meeting for a Zoom meeting based on DSRSD holding teleconference meetings through September 1, 2022.
- Reviewed 2015 pump station evaluation report and solar panel analysis. Contacted DTN engineers to get an estimate for the cost to update the report. Prepared third amendment to DTN agreement for same. Sent through DocuSign for approvals.
- 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.
- Logged into DSRSD system to review and approve invoices and review and respond to emails. Gained access to new accounting system called MUNIS for invoice, purchase orders, etc. approval
- Reviewed, made minor edits, and commented on DSRSD's 4th 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. Worked with DSRSD staff to confirm intent of using this approach
- Sent comments on 75% plans and technical specs for the SLSS project to HydroScience.
- Received and reviewed approved 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.
- 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. Added tasks to DST scope to review outages and provide recommendations to modify the pump station to avoid having both Feeders down during any outage.
- 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 continues to follow their lead.
- Met with Treasurer and DSRSD staff to begin discussions on review of the Investment Policy.
- 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.
- Discussed DSRSD hiring a new administrative assistant to assist DERWA and LAVWMA.
- Attended EBDA Managers Advisory Committee (MAC) meetings. Made notes of same and shared with SAG members.
- Prepared and submitted monthly invoices for LAVWMA General Management services.

- 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 November 16, 2022 at the DSRSD Board Room.

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

Attachments
12.a Action Item List