



EAST BAY DISCHARGERS AUTHORITY
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A Joint Powers Public Agency

NOTICE: Pursuant to the Governor's Executive Orders N-25-20 and N-29-20, the Operations & Maintenance Committee meeting scheduled below will be accessible via Zoom video conferencing. Members of the public may participate in the meeting through the Zoom platform or phone number below.

- Zoom link: <https://us02web.zoom.us/j/88140150819>
- Telephone dial-in: 1(669) 900-6833, meeting ID #881 4015 0819

ITEM NO. 17

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, May 18, 2021

9:00 A.M.

**East Bay Dischargers Authority
2651 Grant Avenue, San Lorenzo, CA 94580**

Committee Members: Cutter (Chair); Johnson

OM1. Call to Order

OM2. Roll Call

OM3. Public Forum

OM4. EBDA Permit Compliance

(The Committee will be updated on EBDA's NPDES compliance.)

OM5. Status Report

(The Committee will be updated on EBDA's O&M activities.)

OM6. Draft Renewal and Replacement Fund Project List for Fiscal Year 2021/2022

(The Committee will review the proposed RRF project list for FY 2021/2022.)

OM7. Adjournment

Any member of the public may address the Commission at the commencement of the meeting on any matter within the jurisdiction of the Commission. This should not relate to any item on the agenda. It is the policy of the Authority that each person addressing the Commission limit their presentation to three minutes. Non-English speakers using a translator will have a time limit of six minutes. Any member of the public desiring to provide comments to the Commission on an agenda item should do so at the time the item is considered. It is the policy of the Authority that oral comments be limited to three minutes per individual or ten minutes for an organization. Speaker's cards will be available in the Boardroom and are to be completed prior to speaking.

In compliance with the Americans with Disabilities Act of 1990, if you need special assistance to participate in an Authority meeting, or you need a copy of the agenda, or the agenda packet, in an appropriate

Agenda Explanation
East Bay Dischargers Authority
O&M Agenda
May 18, 2021

alternative format, please contact the Administrative Assistant at the EBDA office at (510) 278-5910 or juanita@ebda.org. Notification of at least 48 hours prior to the meeting or time when services are needed will assist the Authority staff in assuring that reasonable arrangements can be made to provide accessibility to the meeting or service.

In compliance with SB 343, related writings of open session items are available for public inspection at East Bay Dischargers Authority, 2651 Grant Avenue, San Lorenzo, CA 94580. For your convenience, agenda items are posted on the East Bay Dischargers Authority website located at <http://www.ebda.org>.

**The next O&M Committee meeting will be held
Tuesday, June 15, 2021, at 9:00 a.m.**

ITEM NO. OM4 EBDA PERMIT COMPLIANCE

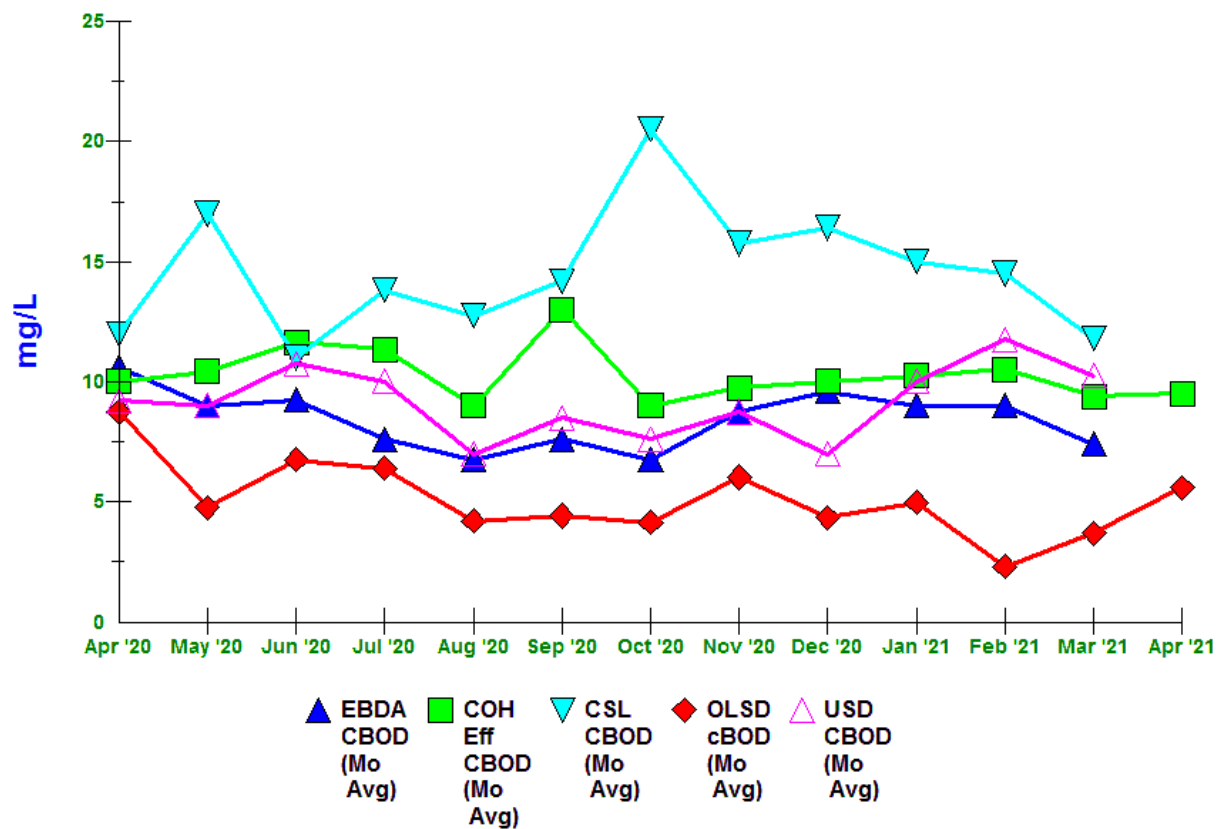
Recommendation

For the Committee's information only; no action is required.

Permit Compliance Issues

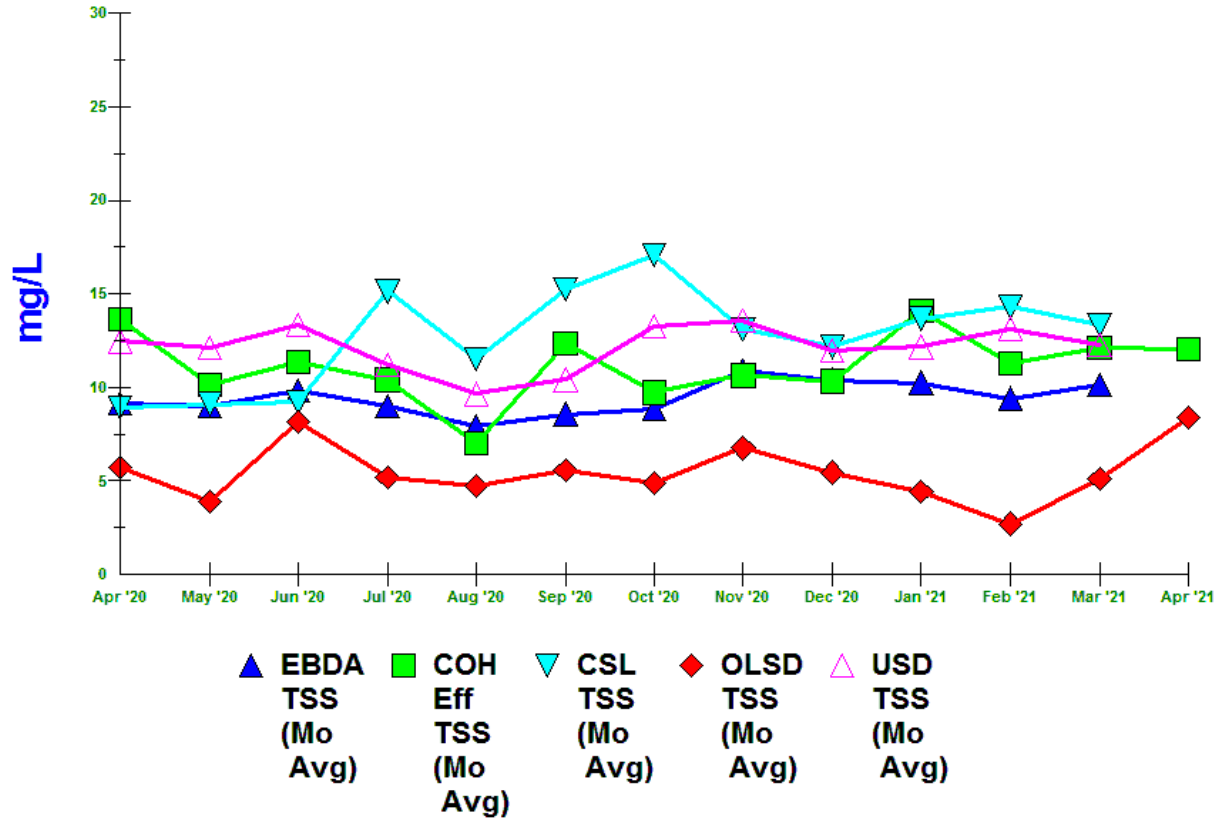
There were no NPDES permit violations in March, and preliminary data from April are also free of permit exceedances. Member Agency CBOD and TSS performance are shown below. A table with bacterial indicators is also included.

EBDA CBOD (Limit=25 ppm)



EBDA CBOD

EBDA TSS (Limit 30 ppm)



EBDA EFF TSS

EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	
Limit (Geomean)	500	240
May 2020 Geomean	40	2
June 2020 Geomean	28	3
July 2020 Geomean	27	3
August 2020 Geomean	23	3
September 2020 Geomean	41	5
October 2020 Geomean	30	9
November 2020 Geomean	11	4
December 2020 Geomean	9	2
January 2021 Geomean	5	3
February 2021 Geomean	6	3
3/1/2021	4	< 2
3/2/2021	5	< 4
3/3/2021	11	4
3/8/2021	< 2	< 2
3/9/2021	2	3
3/15/2021	7	< 2
3/16/2021	17	5
3/22/2021	9	< 2
3/23/2021	4	3
3/29/2021	< 2	2
3/30/2021	5	2
March 2021 Geomean	5	3
4/5/2021	13	6
4/6/2021	23	2
4/7/2021	8	< 2
4/12/2021	11	2
4/13/2021	13	3
4/14/2021	8	4
4/19/2021	3	< 2
4/20/2021	33	< 2
4/21/2021	11	< 2
4/26/2021	13	8
4/27/2021	33	4
April 2021 Geomean	13	3

ITEM NO. OM5 STATUS REPORT

Union Effluent Pump Station (UEPS – Formerly AEPS)

No change; all equipment is operational.

Hayward Effluent Pump Station (HEPS)

No change; all equipment is operational.

Oro Loma Effluent Pump Station (OLEPS)

Main Electrical Switchboard Upgrade

On June 3, 2021, from midnight to 8:00 am, PG&E will be disconnecting the power to OLEPS. This shutdown will facilitate the first phase of the project, which includes removing the front panels of the Main Electrical Switchboard for cleaning and inspection, and taking detailed measurements for the new replacement breakers. Prior to the electrical shutdown, on May 28th, a thermographic survey of the Main Electrical Switchboard will be completed. The results of the thermographic survey will be used to identify hot spots that need to be examined in more detail during the Main Electrical Switchboard inspection. Once the inspection is completed, new breakers will be fabricated. The fabrication of the new breakers will take approximately 14 weeks. At that time, a second electrical shutdown will be scheduled to install the new breakers, the new Main Electrical Switchboard front panels, and the upgraded power monitoring equipment, allowing OLEPS instantaneous power usage to be displayed on EBDA's SCADA system.

OLEPS Bypass Test

On April 8, 2021, EBDA conducted a test of the OLEPS bypass system. The San Leandro force main crew opened the OLEPS bypass valve and closed the valve that connects the UEPS and HEPS flows to OLEPS, allowing the UEPS and HEPS flows to bypass OLEPS. The bypass system worked without any issues and will be used during the OLEPS electrical shutdown discussed above.

San Leandro Effluent Pump Station (SLEPS)

No change; all equipment is operational.

Skywest Pump Station

Recycled Water Production

During the month of April 2021, the Skywest Recycled Water System operated for two days and produced 1.06 million gallons of recycled water.

Pond Valve Installation

On April 21, 2021, the City of Hayward Utilities Division installed a new valve at the Skywest Golf Course near the center pond. This valve will be used to isolate the pond from the Skywest force main, when the system is offline for long periods of time, and also during the decommissioning of the system.



New Skywest Pond Valve

Marina Dechlorination Facility (MDF)

No change; all equipment is operational.

Force Main

Force Main Shutdown

On May 7, 2021, as part of the Cargill Brine Project inspection, the southern portion of the transport system was shut down to assess the condition of the concrete pipe. See Special Projects for additional details.

Operations Center

No change; all equipment is operational.

Miscellaneous Items

Underground Service Alerts

EBDA received seven (7) Underground Service Alert (USA) tickets during the month of April 2021. Four required an Electronic Positive Response (EPR), and of the four, two required calls to the excavators, and one required field verification.

Wet Weather

During the month of April 2021, there were no significant rain events that required the operation of an OLEPS diesel pump.

COVID-19 Response

Authority staff is continuing to implement the Pandemic Response Plan, which includes signage regarding closure of the office to the public and the Authority's social distancing measures on the office door. All meetings are being conducted by phone and web conference until further notice. All EBDA staff members are fully vaccinated.

Staff is also continuing to track research efforts utilizing data on the prevalence of SARS-CoV-2 virus in wastewater influent to identify and anticipate COVID-19 community trends, termed wastewater-based epidemiology (WBE) or sewage surveillance. Going forward, WBE may be used for early detection of outbreaks once the virus is generally under control, as well as identification of variants present in the community. A recent New York Times article highlighted future opportunities for wastewater surveillance. <https://www.nytimes.com/2021/05/07/health/coronavirus-sewage.html>

Special Projects

Cargill Brine Project Due Diligence

EBDA staff is continuing to work with Cargill to assess risks of adding brine to the EBDA transport system, particularly with respect to accelerating corrosion. As noted above, an inspection was performed on May 7, 2021, to take core samples from the force main upstream of HEPS at a high spot that is frequently exposed to air, thus increasing the risk of corrosion. The samples will be assessed over the coming weeks to establish a baseline corrosion level and tolerance to chloride addition.



Core Samples

On May 12, 2021, the team will be kicking off the Corrosion Protection Evaluation Project. In this project, Brown & Caldwell will be screening a multitude of potential mitigation options for protecting vulnerable sections of the force main from corrosion associated with brine addition. The list of options will then be narrowed to three that look most promising, which will be evaluated for cost, constructability, and other factors. As a first step in this project, Brown & Caldwell recently prepared a high-level cost estimate for sliplining a segment between UEPS and HEPS. The estimated cost is \$36.5 M. The expectation is that a more cost-effective option may be identified through the more thorough evaluation process, but that the sliplining option provides a feasible backstop.

In addition, staff issued a Request for Proposals for a consultant to assist in preparation of the California Environmental Quality Act (CEQA) documentation for the project. No proposals were received by the deadline of May 5, 2021, and staff plans to rerelease the RFP after further consultation with the consulting community.

Advanced Quantitative Precipitation Information (AQPI) Project

The regional AQPI project, with a goal of improving prediction of rainfall events in the Bay Area, continues to move forward. On April 20th, Sonoma Water's Board of Directors approved the agreements for the East Bay radar deployment and for the lease with American Tower. The CEQA Notice of Exemption for the project was submitted to the State Clearinghouse, County of Sonoma, and County of Contra Costa, and the comment period will end on May 31, 2021. Installation has been delayed somewhat due to the need for installation of new mounting plates on top of the concrete pad at Rocky Ridge, as well as changes to the electrical conduit design. Installation is now scheduled for July 12-16, 2021.

**ITEM NO. OM6 DRAFT RENEWAL AND REPLACEMENT FUND PROJECT LIST
FOR FISCAL YEAR 2021/2022**

Recommendation

Review proposed Renewal and Replacement Fund Project List and provide direction to staff.

Background

Each year, the Commission is asked to approve a list of capital projects to be undertaken in the upcoming fiscal year using funds from the Authority's Renewal and Replacement Fund. The project list is developed using the Authority's Asset Management Plan (AMP) with input from the Managers Advisory Committee (MAC).

Discussion

The Authority's draft RRF Project List for FY 2021/2022 is presented on the following page for the Committee's review and comment, with project explanations on the subsequent page. Staff plans to bring the final FY 2021/2022 project list to the Commission for consideration in June 2021. Per Item No. FM9, staff is recommending that the agencies' contribution to the RRF for FY 2021/2022 is \$750,000, consistent with the AMP 20-year projection of funding needs.

RRF Projects for FY 2021/2022

<u>Facility</u>	<u>Renewal Replacement Fund Items</u>	<u>Projected Completion Date</u>	<u>Estimated Costs</u>
UEPS	Payment #2 of 10 Per JPA	July 2021	\$ 420,000
OLEPS, MDF & EBDA Office	Energy Efficiency Lighting Retrofit	December 2021	\$ 60,000
HEPS	Engineering & Structural Upgrades for New Pumps	June 2022	\$ 40,000
OLEPS	Pump Station Bypass	June 2022	\$ 40,000
All	New Pickup Truck	June 2022	\$ 40,000
MDF	Replacement Automatic Transfer Switch (ATS)	December 2021	\$ 20,000
OLEPS	Effluent Pump #4 Motor & Gear Drive Refurbishment	September 2021	\$ 15,000
		FY 2021/2022 Sub-Total	\$ 635,000
		Small Projects Fund	\$ 100,000
		FY 2021/2022 Total	\$ 735,000

UEPS – Payment #2 of 10 per JPA – \$420,000

The Amended and Restated Joint Powers Agreement (JPA) states that “in fiscal years from 2020/21 through 2029/30, the Authority will pay Union a total of Four Million, Two-Hundred Thousand dollars (\$4,200,000), divided in ten equal and annual installments, as a credit toward their annual budget contribution for Operation and Maintenance Costs, for all Capital Costs associated with the Union Effluent Pump Station during the Term of the Agreement.”

OLEPS, MDF & EBDA Office – Energy Efficiency Lighting Retrofit – \$60,000

EBDA plans to take advantage of a program administered by PG&E to upgrade the lighting at OLEPS, MDF, and the EBDA Office with energy-efficient lighting. The cost of the project will be offset through operational savings and has a return on investment (ROI) of approximately five years.

HEPS – Engineering & Structural Upgrades for New Pumps – \$40,000

Installation of the new HEPS pumps will require the pump pads to be demolished and replaced with new concrete pads that meet current seismic standards.

OLEPS – Pump Station Bypass – \$40,000

Feasibility analysis of bypassing OLEPS during dry weather. Approximately \$10,000 would be allocated to the engineering analysis. If deemed feasible, the remainder of the budget would be used to begin preliminary design of cost-effective improvements.

All – New Pickup Truck – \$40,000

Replacement of the EBDA pickup truck. EBDA’s current pickup truck is a 2008 model year that was purchased in 2007 and was scheduled to be replaced several years ago.

MDF –Automatic Transfer Switch (ATS) Replacement – \$20,000

Replacement of the ATS electronic controls, addition of an ethernet module, and upgrade of ATS status information on EBDA’s SCADA system.

OLEPS – Effluent Pump #4 Motor & Gear Drive Refurbishment – \$15,000

Refurbishment of the OLEPS Effluent Pump #1 motor and the right-angle gear drive.

Small Projects Fund (formerly Contingency Fund) – \$100,000

The purpose of the Small Projects Fund is to provide additional funding for unidentified projects and/or equipment that may need to be replaced or refurbished in FY 2021/2022. Much of the smaller ancillary equipment and components that the Authority owns are operated with the intent to ‘run to failure’. This is a common practice at wastewater facilities with these types of assets, which include fans, valves, actuators, and small pumps and motors. While preventive maintenance is completed on a regular basis, forecasting an exact date of failure is not possible. The criteria for ‘run to failure’ are both that the equipment can be readily procured and that there is sufficient redundancy to meet system firm capacity. In some cases, staff will purchase critical items and have them on the shelf, reducing system equipment downtime.