



ITEM NO. 16

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, March 19, 2024

2:00 PM

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

**This meeting will be teleconferenced from the following location:
Guest Parking Area Located on Ocaso Camino, West of and Closest to the
Intersection of Paseo Padre Parkway**

**Teleconference link: <https://us02web.zoom.us/j/88293365682>
Call-in: 1(669) 900-6833 and enter Webinar ID number: 882 9336 5682**

Committee Members: Johnson (Chair); Lathi

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. 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 alternative format, contact Juanita Villasenor at juanita@ebda.org or (510) 278-5910. 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.

Agenda Explanation
East Bay Dischargers Authority
O&M Agenda
March 19, 2024

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>.

**Next Scheduled Operations and Maintenance Committee is
Tuesday, April 16, 2024, at 2:00 pm**

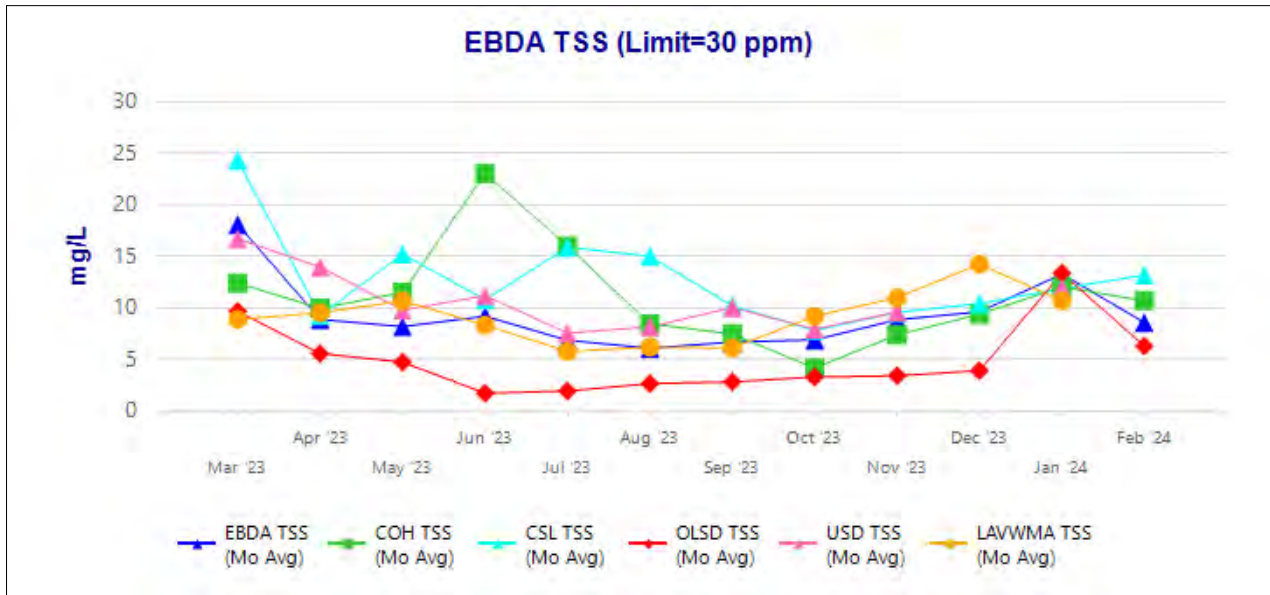
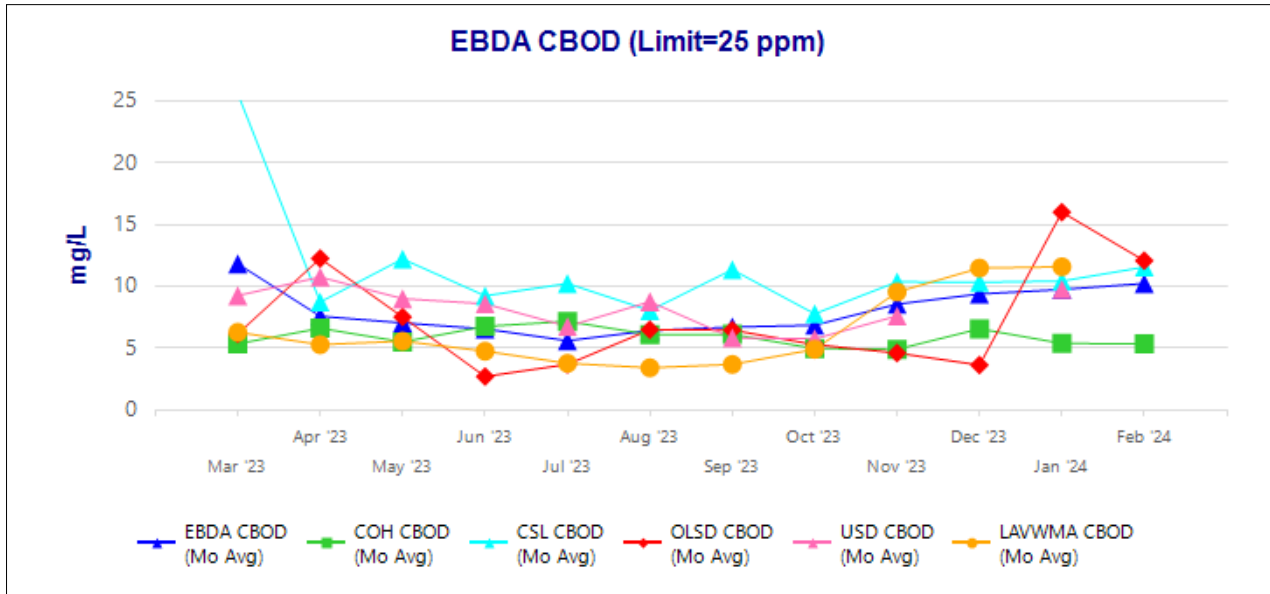
ITEM NO. OM4 EBDA PERMIT COMPLIANCE

Recommendation

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

Discussion

There were no NPDES permit violations in January. Member Agency CBOD and TSS performance are shown below. A table with bacterial indicators follows.



EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	1100
Limit (Geomean)	500	280
March 2023 Geomean	3	2
April 2023 Geomean	10	7
May 2023 Geomean	15	122
June 2023 Geomean	8	83
July 2023 Geomean	7	18
August 2023 Geomean	17	5
September 2023 Geomean	47	4
October 2023 Geomean	18	3
November 2023 Geomean	8	8
December 2023 Geomean	7	5
1/1/2024	4	4
1/2/2024	2	2
1/8/2024	27	2
1/9/2024	11	< 2
1/15/2024	8	< 2
1/16/2024	79	8
1/22/2024	13	22
1/23/2024	49	17
1/29/2024	13	2
1/30/2024	7	6
January 2024 Geomean	12	4
2/5/2024	8	13
2/6/2024	< 2	6
2/7/2024	NA	22
2/12/2024	33	20
2/13/2024	7	130
2/14/2024	NA	24
2/19/2024	2	4
2/20/2024	17	6
2/26/2024	13	13
2/27/2024	7	15
February 2024 Geomean	8	15

ITEM NO. OM5 STATUS REPORT

Union Effluent Pump Station (UEPS)

No change; all equipment is operational.

Hayward Effluent Pump Station (HEPS)

Effluent Pump Replacement Project

The new pumps and motors were delivered in December and are being stored at the Hayward Water Pollution Control Facility until they are installed. Pump Repair Service (PRS) is in the process of changing concrete subcontractors for this project. The new concrete subcontractor plans to start work in the next several weeks on the new concrete base for Effluent Pump No. 4. Because Effluent Pump No. 4 had previously been removed, starting this work during wet weather will not decrease the current capacity of the pump station. This work will involve demolishing the old concrete pump base, coring holes in the pump station to install new threaded rod pump anchors, installing new rebar, and pouring the new concrete pump base. The work also includes coating of the metal sleeve around the hole in the pump station that the pump sits in. Depending on the condition of the metal sleeve, it may need to be replaced with a new stainless-steel sleeve. Once the new Effluent Pump No. 4 is installed, it will be put in service and tested for several weeks before work is started on the next pump.

Pond 3 Valve Actuator Replacement

As part of the FY 2022/2023 RRF project list, EBDA agreed to split the cost of a new Pond 3 valve actuator with the City of Hayward. The actuator is the property of the City of Hayward, but replacing it will benefit both the City and EBDA. The current actuator does not have a feedback loop, so the information displayed on SCADA is limited. During wet weather storm events, having better information on SCADA will greatly improve EBDA operations. The ability to automatically divert flow to Pond 3 will save EBDA the cost of pumping the flow to Pond 7, which requires using the HEPS pumps. The ability to automatically divert flow to Pond 3 will also save the City the cost of adding sodium hypochlorite to the diverted flow. This project also includes the programming necessary to add the valve operations to SCADA. The new valve actuator was delivered in late 2023, and EBDA is coordinating the installation with City of Hayward staff. Calcon, EBDA's contract electrical and instrumentation contractor, has already begun work on the project, including procuring the radios and Programmable Logic Controller (PLC) that will communicate with and control the new valve actuator.

Oro Loma Effluent Pump Station (OLEPS)

Automatic Transfer Switch Upgrade

Todd Beecher, EBDA's contract electrical engineer, has commenced the design of two new automatic transfer switches (ATs) at OLEPS. The two new ATs will improve reliability of the pump station in the event of a power outage. If the PG&E power fails, the

OLEPS emergency generator is the primary source of backup power. Currently, if the emergency generator fails to start, operators can manually switch to the secondary source of backup power from OLSD. The installation of two new ATSs will allow the switch from primary to secondary backup to occur automatically. This ATS work is being completed as part of Phase Two of the OLEPS Electrical Upgrades. Replacement of the breakers and refurbishment of the Main Switchboard was completed in Phase One of the OLEPS Electrical Upgrades last year.

Skywest Pump Station

Recycled Water Production

During the month of February 2024, the Skywest Recycled Water System did not produce any recycled water.

Marina Dechlorination Facility (MDF)

Total Residual Chlorine (TRC) Effluent Limit Implementation and Automation Upgrades

As discussed previously, EBDA’s new NPDES permit effluent limit for TRC, which took effect on January 1, 2024, is a one-hour average of 0.98 mg/L. On January 2, 2024, EBDA turned off its continuous feed of sodium bisulfite (SBS). The SBS savings at MDF have already been substantial.

Below is the SBS usage before and after the new TRC effluent limit implementation on January 2, 2024:

Timeframe	Gallons of SBS Used
December 2023	10,912
January 1-2, 2024	484
New Limit Implemented	
January 3-31, 2024	1,176
February 2024	1,229

In FY 2023/2024 Quarter 2 (October – December 2023), EBDA spent \$68,448 on SBS. This quarter, EBDA is not going to purchase any SBS.

Analyzer Upgrade Project

A previous RRF project list included \$75,000 to replace the chlorine and sodium bisulfite (SBS) analyzers at MDF. With the new TRC effluent limit pending at the time, the purchase of new analyzers was postponed. Now that the new TRC effluent limit has been implemented, staff is in the process of selecting and purchasing a new chlorine analyzer. The new analyzer will be installed in the location previously occupied by the SBS analyzer that is no longer necessary now that EBDA does not discharge excess SBS. Once operational, the new chlorine analyzer will be used as a backup to the two existing online

analyzers (one which measures influent chlorine residual and one which measures effluent chlorine residual). When the first new analyzer is operational for a period of time and demonstrates its reliability, staff will evaluate the purchase of additional new chlorine analyzers.

Force Main

No change; all equipment is operational.

Operations Center

No change; all equipment is operational.

Miscellaneous Items

Underground Service Alerts

EBDA received twelve (12) Underground Service Alert (USA) tickets during the month of February 2024. Five required an Electronic Positive Response (EPR) and calls/emails to the excavators, and of the five, one required field verification.

Wet Weather

During the month of February 2024, there was one significant rain event that required one OLEPS diesel pump to operate for 10.6 hours on 2/04/2024. During this rain event, when extra pumping capacity was available with the equipment already online, EBDA requested extra flow from all Member Agencies. There were no capacity exceedance events during the month of February.

Total rainfall for the month of February 2024 (in inches) was as follows:

Oakland	Hayward	Livermore
3.71	5.57	3.11

Noteworthy daily rainfall for the month of February 2024 (in inches) was as follows:

Date	Oakland	Hayward	Livermore
2/01/2024	0.34	0.46	0.48
2/02/2024	0.31	0.30	0.20
2/03/2024	0.37	0.85	0.34
2/04/2024	0.60	0.54	0.40
2/07/2024	0.47	0.72	0.00
2/17/2024	0.28	0.40	0.22
2/18/2024	0.27	0.56	0.46
2/19/2024	0.15	0.15	0.26
2/20/2024	0.34	0.51	0.18

The MDF peak flow of 159.5 MGD was recorded at 1:27 pm on February 4, 2024, and the average daily flow at MDF was 123.1 MGD on that day.

Average daily flow at MDF was as follows:

Date	MDF Average Daily Flow - MGD
July 2023 Monthly Average	54.1
December 2023 Monthly Average	66.6
January 2024 Monthly Average	81.5
February 2024 Monthly Average	88.6
2/04/2024	123.1
2/01/2024 – 2/8/2024	105.9
2/19/2024	104.2
2/21/2024	100.0

Special Projects

Cargill Brine Project

As discussed at previous Commission Meetings, following certification of the Final Environmental Impact Report (EIR) for the proposed project, Cargill informed EBDA staff that they have made the decision to re-evaluate the “Bayside” pipeline route. Cargill is continuing to refine the route and expects it to be very similar to the Bayside alternative outlined in the EIR. Cargill has held several meetings with landowners along the new proposed route in recent weeks, including East Bay Regional Park District, City of Hayward, and California Department of Fish and Wildlife. Additional meetings are planned with City of San Leandro and Alameda County Flood and Water Conservation District.

Cargill’s preliminary schedule shows revised CEQA analysis in 2025, and construction beginning sometime between 2027 and 2029 depending on permitting, with operation commencing between 2031 and 2033. Staff may bring an interim agreement between EBDA and Cargill to the Commission for consideration in 2024, as the parties continue to negotiate the final operating agreement.

Advanced Quantitative Precipitation Information (AQPI) Project

The regional AQPI project continues to move forward with a goal of improving prediction of rainfall events in the Bay Area. Following a series of delays, the East Bay radar was installed at [Rocky Ridge](#) in Las Trampas Regional Wilderness Park in December 2022. Data from the Rocky Ridge site finally became available in early December 2023, and can be viewed and downloaded from the AQPI [website](#). Program Management of AQPI is shifting from Colorado State University to the Center for Western Weather and Water Extremes (CW3E) at Scripps Institution of Oceanography, UC San Diego. CW3E will be developing an updated website and data management tools, which they expect to make available before the 2024-2025 wet season. Staff will be planning a site visit to Rocky Ridge for interested Commissioners and other parties in the coming months.