



EAST BAY DISCHARGERS AUTHORITY  
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*A Joint Powers Public Agency*

NOTICE: In compliance with AB 361 (2021), 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 link or phone number below.

- Zoom link: <https://us02web.zoom.us/j/84250769407>
- Telephone dial-in: 1(669) 900-6833, meeting ID #842 5076 9407

### **ITEM NO. 13**

## **OPERATIONS & MAINTENANCE COMMITTEE AGENDA**

**Tuesday, January 25, 2022**

**9:00 A.M.**

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

**Committee Members: Toy (Chair); Cutter**

**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](mailto: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  
January 25, 2022

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, February 15, 2022, at 9:00 a.m.**

**ITEM NO. OM4 EBDA PERMIT COMPLIANCE**

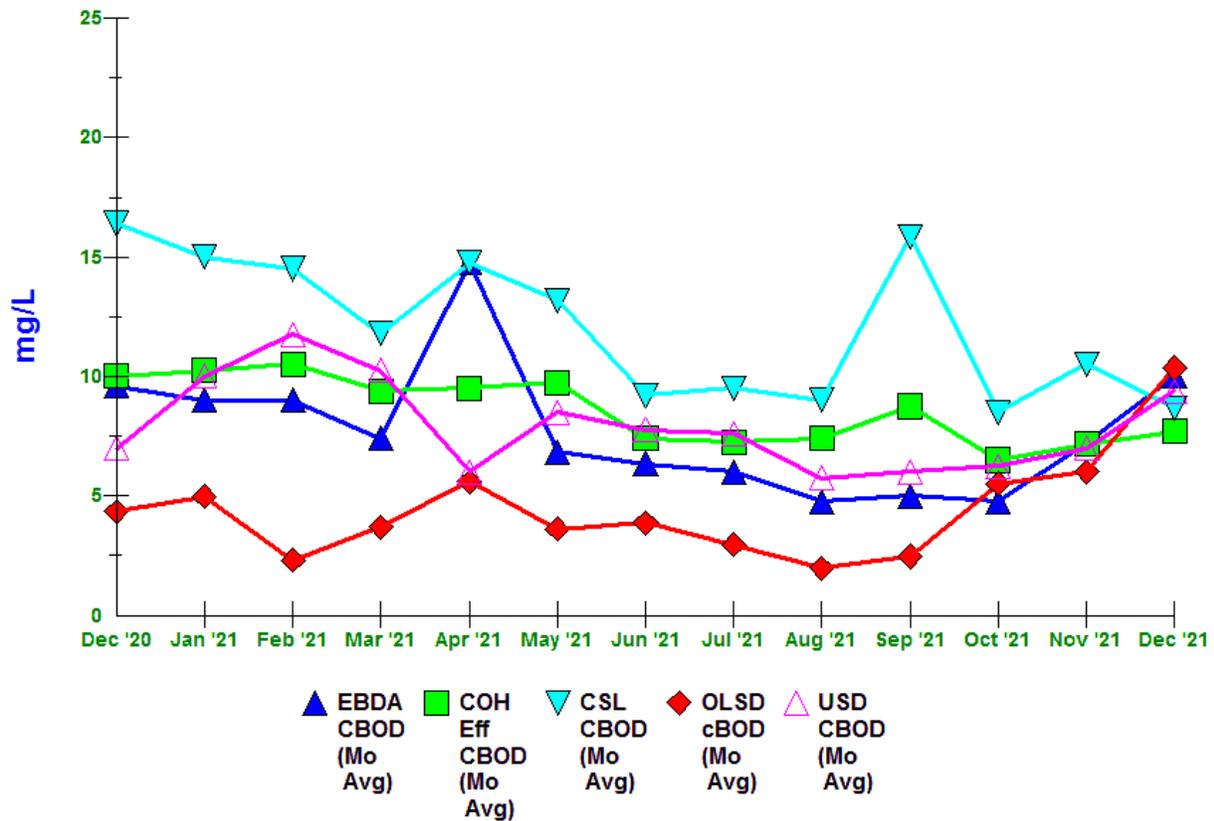
**Recommendation**

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

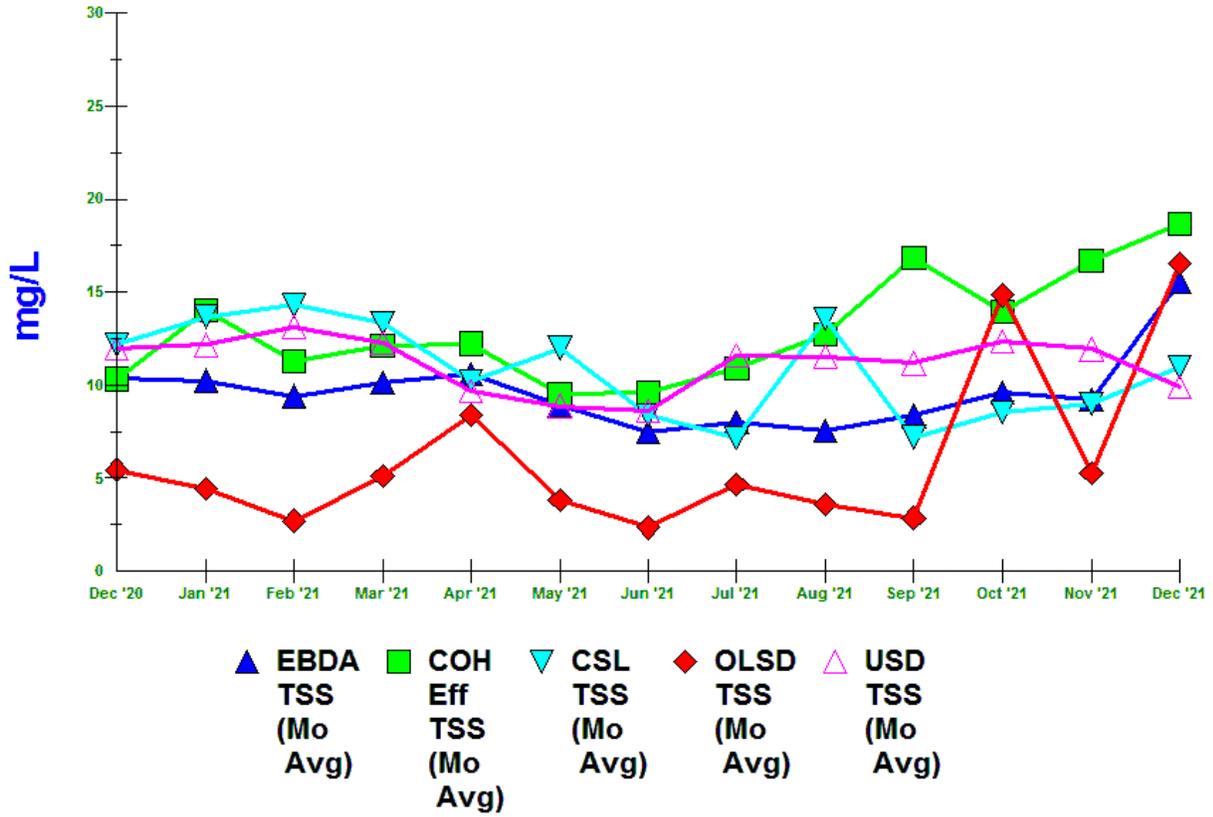
**Permit Compliance Issues**

There were no NPDES permit violations in November, and preliminary data from December 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 TSS (Limit 30 ppm)



### EBDA Bacterial Indicators

Date	FECAL	ENTERO
	MPN/ 100mL	MPN/ 100mL
Limit (90th Percentile)	1100	
Limit (Geomean)	500	240
<b>January 2021 Geomean</b>	<b>5</b>	<b>3</b>
<b>February 2021 Geomean</b>	<b>6</b>	<b>3</b>
<b>March 2021 Geomean</b>	<b>5</b>	<b>3</b>
<b>April 2021 Geomean</b>	<b>13</b>	<b>3</b>
<b>May 2021 Geomean</b>	<b>10</b>	<b>6</b>
<b>June 2021 Geomean</b>	<b>13</b>	<b>4</b>
<b>July 2021 Geomean</b>	<b>11</b>	<b>2</b>
<b>August 2021 Geomean</b>	<b>52</b>	<b>32</b>
<b>September 2021 Geomean</b>	<b>26</b>	<b>10</b>
<b>October 2021 Geomean</b>	<b>33</b>	<b>4</b>
11/1/2021	4	22
11/2/2021	4	58
11/3/2021	23	3
11/8/2021	7	35
11/9/2021	9	65
11/15/2021	NA	4
11/16/2021	NA	< 2
11/18/2021	17	NA
11/19/2021	79	NA
11/22/2021	51	2
11/23/2021	23	3
<b>November 2021 Geomean</b>	<b>13</b>	<b>8</b>
12/6/2021	4	2
12/7/2021	8	3
12/8/2021	17	154
12/13/2021	80	20
12/14/2021	23	7
12/15/2021	11	4
12/20/2021	189	10
12/21/2021	49	3
12/22/2021	220	4
12/27/2021	3	17
12/28/2021	8	5
<b>December 2021 geomean</b>	<b>22</b>	<b>8</b>

**ITEM NO. OM5 STATUS REPORT**

**Union Effluent Pump Station (UEPS)**

No change; all equipment is operational.

**Hayward Effluent Pump Station (HEPS)**

**Wet Weather Programming**

Although the programming associated with the HEPS MCC Project was completed over two years ago, staff had not been able to optimize the wet weather control system due to a lack of rainfall. During the rain event on December 27, 2021, a programmer with Calcon Systems, Inc. (Calcon) completed some final modifications to the wet weather control system. The modifications were tested during the rain event, and the system operated automatically without any issues. An OLEPS diesel pump was operated slightly longer than necessary to complete the testing.

**Effluent Pump Replacement Project**

The project bid documents are still under review. Staff expects the project to go out to bid shortly, with installation of the new pumps occurring in late-2022.

**Oro Loma Effluent Pump Station (OLEPS)**

**Main Electrical Switchboard Upgrade**

With the start of wet weather and the manufacturing delays due to the pandemic, the installation of the new breakers is postponed until the Spring of 2022.

**Skywest Pump Station**

**Recycled Water Production**

During the month of December 2021, the Skywest Recycled Water System did not produce any recycled water. The total recycled water produced during 2021 was 12.06 MG. The peak day of recycled water production in 2021 was 565,200 gallons. A summary of the monthly recycled water produced for the last six years is shown below:

Skywest Total Recycled Water						
	2021 Total Flow MG	2020 Total Flow MG	2019 Total Flow MG	2018 Total Flow MG	2017 Total Flow MG	2016 Total Flow MG
January	0.89	0.00	0.00	0.00	0.00	0.00
February	0.00	1.65	0.00	2.37	0.00	0.41
March	0.00	0.53	0.00	0.73	0.25	0.00
April	1.06	2.64	3.91	1.86	1.80	6.51
May	1.12	2.53	5.77	9.38	12.00	12.71
June	2.64	2.00	9.57	12.50	10.97	16.73
July	2.10	1.10	11.40	12.12	11.98	16.42
August	2.16	1.09	10.34	10.59	10.41	13.81
September	1.60	1.37	8.30	7.45	8.12	11.29
October	0.49	1.10	6.22	6.14	5.58	3.60
November	0.00	1.43	1.64	2.24	0.00	2.02
December	0.00	0.00	0.00	0.00	1.24	0.00
Total	12.06	15.44	57.15	65.38	62.35	83.50

**Marina Dechlorination Facility (MDF)**

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

On December 10 and 15, 2021, meetings were held with Calcon to discuss the implementation of EBDA's new TRC effluent limit. As discussed previously in the Regulatory Affairs Committee, the Regional Water Quality Control Board recently adopted a blanket permit revising the TRC effluent limits for all wastewater dischargers to San Francisco Bay. EBDA's current TRC effluent limit is 0.0 mg/L or parts per million (ppm), expressed as an instantaneous maximum. Per the permit amendment, EBDA's new TRC effluent limit will be 0.98 mg/L measured as a one-hour average. The first meeting with Calcon was to discuss the PLC programming and control system modifications necessary at MDF, and the second meeting was to discuss updating the spreadsheets used for compliance data reporting and archiving. EBDA's new TRC effluent limit will take effect pending approval of an amendment to the San Francisco Bay Basin Plan by USEPA. That approval is expected in February 2022, in which case the new TRC effluent limit would automatically take effect on March 1, 2022.

On January 7, 2022, Calcon completed a project at MDF to install conduits and wiring to connect the Sewage Pump Control Panel and the main vault Sump Pump Control Panels to the station's programmable logic controller (PLC) and display the information on the EBDA's SCADA System for better control and monitoring. This project is the first step of an overall MDF automation upgrade.

### **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 December 2021. Four required an Electronic Positive Response (EPR), and of the four, two required calls/emails to the excavators, and two required field verification.

#### **Wet Weather**

Total rainfall for the month of December 2021 (in inches) was as follows:

Oakland	Hayward	Livermore
9.29	6.16	4.85

Significant daily rainfall for the month of December 2021 (in inches) was as follows:

Date	Oakland	Hayward	Livermore
12/12/2021	1.02	0.53	0.14
12/13/2021	2.81	1.62	1.39
12/15/2021	0.63	0.64	0.34
12/23/2021	1.85	0.84	0.63
12/25/2021	1.03	0.61	0.49
12/27/2021	0.36	0.58	0.47

During the month of December 2021, there were four rain events that caused EBDA to experience high flows. During the rain events, all Member Agencies stayed at or under their JPA maximum flows, except when additional flow was requested by EBDA. Below is a brief overview of each rain/high flow event. A more detailed review of the rain/high flow events will be presented at the meeting.

#### **December 13-14, 2021**

On December 12<sup>th</sup> and 13<sup>th</sup>, the amount of rain recorded was between 3.83 and 1.53 inches. This rain event caused high flows on December 13-14, as Member Agencies returned flows that had been stored in their equalization (EQ) basins during the peak of the storm. During high flows and high tide, one OLEPS diesel pump was required to operate for 3.4 hours. During that time, EBDA requested additional flow from Hayward to dampen subsequent peaks.

December 23-24, 2021

On December 23<sup>rd</sup>, the amount of rain recorded was between 1.85 and 0.63 inches, which caused high flows on December 23-24 as Member Agencies returned flows from their EQ basins. The majority of the rain occurred before 8:00 am on the 23<sup>rd</sup>, but because of EQ return, the high flows continued until after 5:00 pm on the 24<sup>th</sup>. During high flows and high tide on the 23<sup>rd</sup> and the 24<sup>th</sup>, rather than starting an OLEPS diesel pump, EBDA operated the OLEPS wet wells at higher-than-normal levels. Reduced pumping by LAVWMA during this time, at EBDA's request, prevented operation of an OLEPS diesel pump. This was a test, which demonstrated that operating OLEPS wet wells at a higher level and reducing LAVWMA pumping could, under the correct conditions, eliminate the need to operate an OLEPS diesel pump.

As discussed at the MAC Meeting, in the future after a rain event is over, EBDA will request additional Member Agency flow during low flows, low tide, and off-peak energy rates. This will prevent the need to pump EQ-returned flow after a rain event is over during high flows, high tide, and peak energy rates.

December 25, 2021

On December 25<sup>th</sup>, during high flows and high tide, one OLEPS diesel pump was required to operate for 2.7 hours. During that time, EBDA requested additional flow from OLSD/CVSD and Hayward.

December 27, 2021

On December 27<sup>th</sup>, during high flows and high tide, one OLEPS diesel pump was required to operate for 3.0 hours. During that time, EBDA requested additional flow from OLSD/CVSD and Hayward. As discussed above, the OLEPS diesel pump was operated slightly longer than necessary to complete testing of the HEPS wet weather control system.

MDF Average Flows

The table below lists the average daily flow at MDF for the highest flow dates of the month. For reference, the average daily flow for the month of July 2021 (a dry month) was 53.7 MGD, and the average daily flow for December 2021 overall was 80.4 MGD.

Date	Average Daily Flow - MGD
12/13/2021	98.7
12/14/2021	99.3
12/23/2021	102.6
12/24/2021	103.9
12/25/2021	95.9
12/27/2021	104.0
12/28/2021	103.4

### **COVID-19 Response**

All EBDA staff members are fully vaccinated and boosted. Staff will work with the Commission to determine, on a month-to-month basis, whether Commission and Committee meetings will continue to be conducted via Zoom or whether to resume in-person meetings. To continue conducting remote meetings, the Commission must adopt a resolution compliant with AB 361 – see Item No. 8.

### **Special Projects**

#### **Disinfection Master Plan**

Staff is continuing to work with Carollo Engineers (Carollo) on a Disinfection Master Plan with a goal to develop a strategy for sodium hypochlorite (hypo) dosing and monitoring to prevent bacteria outbreaks and ensure consistent permit compliance while optimizing chemical dosage – both for disinfection and for dechlorination. A draft report was reviewed by staff, and Carollo is working to address comments. Carollo will present their findings to the MAC at its February meeting.

#### **Cargill Brine Project Due Diligence**

EBDA staff is continuing to work with Cargill to advance the joint project connecting Cargill's solar salt ponds in Newark to the EBDA system for discharge of mixed sea salts into the Bay. EBDA's CEQA consultant, Ascent Environmental (Ascent) is progressing with development of an Environmental Impact Report (EIR) for the pipeline from Cargill to OLEPS. This extended pipeline, sometimes referred to as the "parallel pipeline" approach, prevents vulnerable sections of EBDA's transport system from brine exposure that would have occurred with a connection point further south near USD. Ascent is currently preparing the EIR assuming a street route for the pipeline.

At the same time, the project team continues to evaluate the feasibility of a bayside pipeline route. EBDA and Cargill staff held a preliminary meeting with U.S. Fish and Wildlife Service, California Department of Fish and Game, and the South Bay Salt Ponds Project to discuss the segments of the bayside route that would pass through Eden Landing and other wildlife refuge areas south of Highway 92. East Bay Regional Parks was briefed on potential pipeline impacts for the areas they manage north of Highway 92 in August 2021, and a meeting to update them is being planned. EBDA and Cargill's legal counsels are also evaluating Cargill use of EBDA easements for construction of the new pipeline.

Brown & Caldwell (BC) is continuing work to evaluate potential brine impacts on OLEPS equipment and the metal portion of the force main at MDF. BC will recommend corrosion protection measures as needed based on their evaluation. Preliminary results are expected in February 2022. Carollo is also performing laboratory testing to assess impacts of the brine on disinfection and dechlorination. Samples were provided in December 2021, and preliminary results are expected soon.

**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. Installation of the radar at Rocky Ridge has faced some delays and is now planned for early 2022. National Oceanographic and Atmospheric Administration (NOAA) staff is continuing to make refinements to the user interface, which EBDA member agencies can access now for precipitation data and projections.