



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/84250769407>
- Telephone dial-in: 1(669) 900-6833, meeting ID #842 5076 9407

ITEM NO. 14

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, September 21, 2021

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 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
September 21, 2021

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, October 19, 2021, at 9:00 a.m.**

ITEM NO. OM4 EBDA PERMIT COMPLIANCE

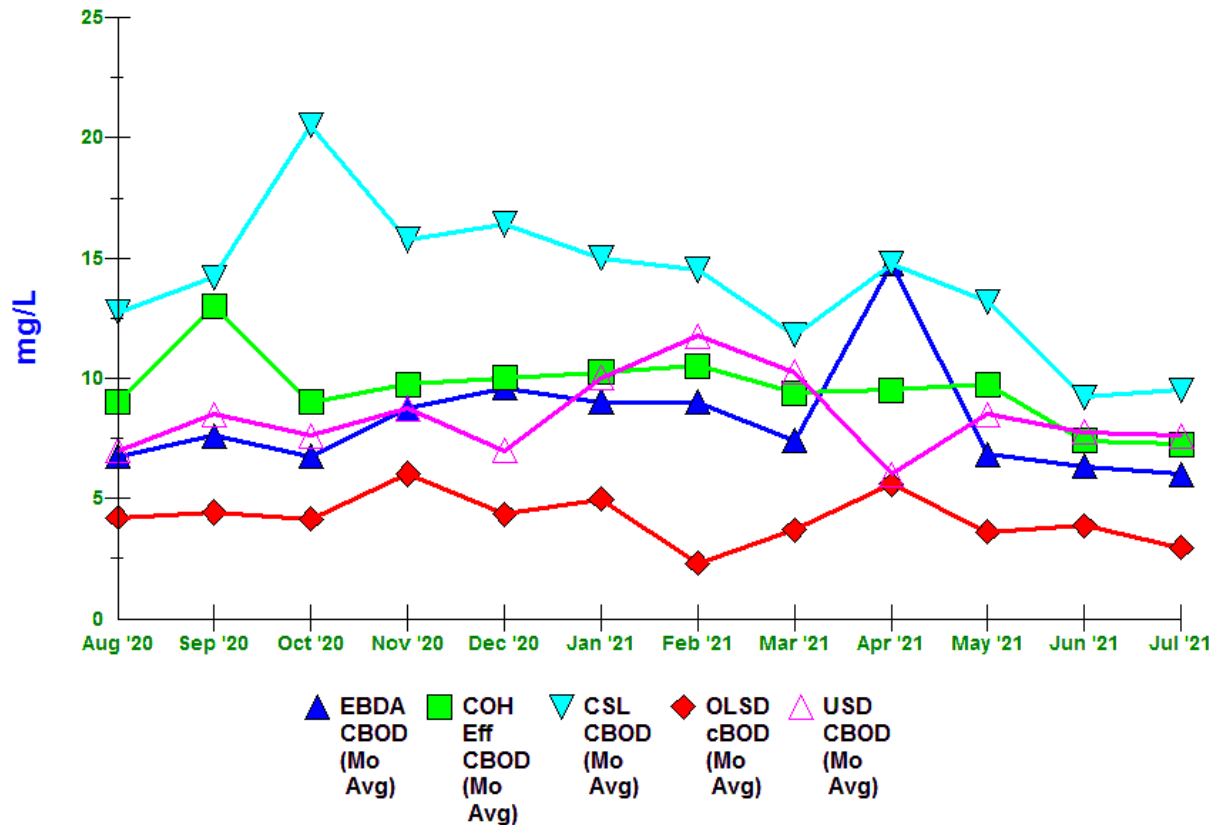
Recommendation

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

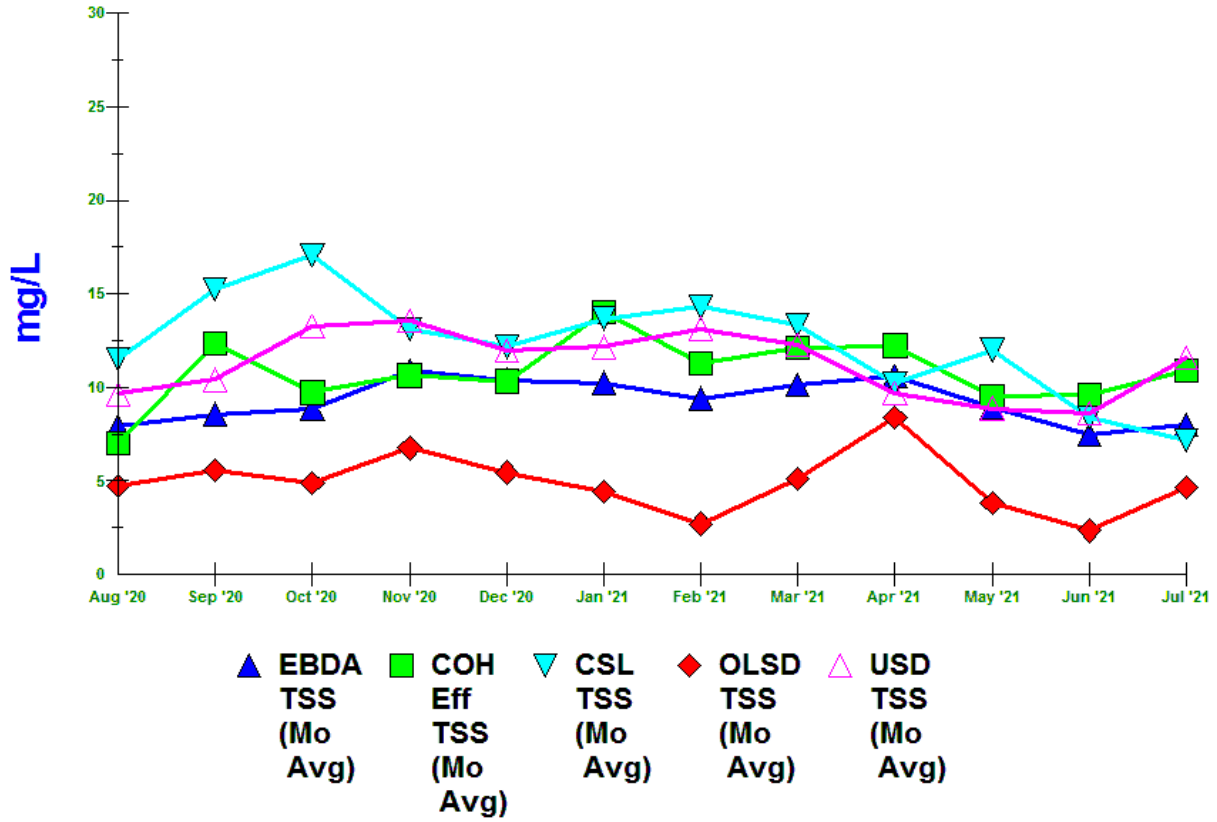
Permit Compliance Issues

There were no NPDES permit violations in June or July, and preliminary data from August are also free of permit exceedances. Member Agency CBOD and TSS performance are shown below. A table with bacterial indicators is also included. While values for bacterial indicators did increase as expected during the warm summer conditions, EBDA was never in compliance jeopardy in August.

EBDA CBOD (Limit=25 ppm)



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
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
March 2021 Geomean	5	3
April 2021 Geomean	13	3
May 2021 Geomean	10	6
June 2021 Geomean	13	4
7/5/2021	4	13
7/6/2021	11	4
7/7/2021	29	13
7/12/2021	2	< 3
7/13/2021	8	8
7/14/2021	3	2
7/19/2021	33	< 2
7/20/2021	51	< 2
7/21/2021	700	10
7/26/2021	6	< 2
7/27/2021	4	2
July 2021 Geomean	11	2
8/2/2021	435	6
8/3/2021	38	14
8/4/2021	540	17
8/9/2021	4	2
8/10/2021	130	25
8/16/2021	68	582
8/17/2021	33	141
8/23/2021	273	345
8/24/2021	17	51
8/30/2021	12	15
8/31/2021	14	25
August 2021 Geomean	52	32

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

On August 19, 2021, a kickoff meeting for the HEPS Effluent Pump Replacement Project was attended by EBDA Staff, COH Engineering, and Currie Engineers, EBDA's contract project/construction manager. Items discussed during the meeting included preparation of the bid documents and the bid approach, structural engineering calculations, and the removal of HEPS Effluent Pump No. 4. The objective of removing Pump No. 4 was to visually inspect the condition of the interface between the pump base and other pump station infrastructure.

On September 7, 2021, HEPS Effluent Pump No. 4 was removed. The pump and motor will be saved for spare parts until the new pumps are installed, and at that time they will be disposed of as part of the project.



HEPS Effluent Pump No. 4

Oro Loma Effluent Pump Station (OLEPS)

Effluent Pump No. 4 Right Angle Gear Drive & Motor Refurbishment

On August 23, 2021, OLSD maintenance staff completed a refurbishment of the Effluent Pump No. 4 right angle gear drive. The input and output shaft seals had become brittle and started leaking oil. This refurbishment was complex and required the disassembly of the gear drive from the pump shaft and motor. The gear drive was then moved to the maintenance shop where the seals, gaskets, and part of the output shaft coupling were replaced. The pump's motor was removed and sent to Vincent Electric for refurbishment. The right angle gear drive and motor refurbishment was completed in six working days.



OLEPS Effluent Pump No. 4 Right Angle Gear Drive & Motor

Main Electrical Switchboard Upgrade

Schneider Electric is in the process of manufacturing the new Main Electrical Switchboard breakers. The tentative ship date for the new breakers is the last week of September, but EBDA is still awaiting confirmation of the date. As with a lot of newly manufactured equipment, the pandemic has extended lead times. Once the ship date is confirmed, another OLEPS PG&E electrical shutdown will be scheduled to install the new breakers, the new Main Electrical Switchboard front panels, and upgraded power monitoring equipment, which will allow OLEPS instantaneous power usage to be displayed on EBDA's SCADA system.

San Leandro Effluent Pump Station (SLEPS)

No change; all equipment is operational.

Skywest Pump Station

Recycled Water Production

During the month of July 2021, the Skywest Recycled Water System operated every Tuesday, for a total of four days, and produced 2.10 million gallons of recycled water.

In August 2021, the Skywest Recycled Water System operated four out of the five Tuesdays and produced 2.16 million gallons of recycled water.

Marina Dechlorination Facility (MDF)

Meter Vault Air Vent Piping & Manway Cover Painting

On September 8, 2021, the CSL Force Main Crew pressure washed and painted the MDF meter vault air vent piping and manway cover. Whereas most of the protective coating work (painting) completed by the Force Main Crew is at the bottom of a manhole and never seen except by EBDA Staff, the piping and cover are on the SF Bay Trail in front of MDF. These structures are painted on an as-needed basis to remove graffiti and address corrosion. Below are before and after photos of the recent work at MDF.



Before



After

Replacement Automatic Transfer Switch (ATS)

EBDA contacted ASCO Power Technologies regarding the replacement of the MDF ATS electronic controls and the addition of an ethernet module to provide additional ATS status information to EBDA's SCADA system. It was determined that a PG&E electrical shutdown was required to complete the ATS project. Replacement of the MDF main electrical breaker has been added to the project since it also requires a PG&E shutdown. The project will most likely be delayed until after wet weather and after the new chlorine residual limit becomes effective. This delay will greatly reduce the possibility of a permit violation during the electrical shutdown.

Force Main

No change; all equipment is operational.

Operations Center

No change; all equipment is operational.

Miscellaneous Items

Underground Service Alerts

EBDA received ten (10) Underground Service Alert (USA) tickets during the month of July 2021. Seven required an Electronic Positive Response (EPR), and of the seven, five required calls/emails to the excavators, and three required field verification.

EBDA received thirteen (13) Underground Service Alert (USA) tickets during the month of August 2021. Ten required an Electronic Positive Response (EPR), and of the ten, eight required calls/emails to the excavators, and two required field verification.

COVID-19 Response

All EBDA staff members are fully vaccinated. 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. The current Executive Order modifying the Brown Act to allow for fully remote meetings is set to expire at the end of September. Staff will notify the Commission of any Governor or Legislative action to extend or modify the current rules.

Special Projects

Disinfection Master Plan

Staff is continuing to work with Carollo Engineers on a Disinfection Master Plan, per the Work Order approved in February 2021. The goal of the Master Plan is 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. To date, the Member Agencies have provided data and information on current hypo dosing practices, and site visits were conducted at each facility in May 2021. Carollo has been reviewing the information collected, conducting hydraulic modeling and analysis, and developing preliminary recommendations. Meetings were held with each Member Agency to review and discuss findings. The next step will be MAC discussion of a Draft Report, which Carollo expects to deliver in October.

Cargill Brine Project Due Diligence

EBDA staff is continuing to work with Cargill to develop strategies to address the risks of adding brine to the EBDA transport system. In the Corrosion Protection Evaluation Project, Brown & Caldwell screened a multitude of potential mitigation options for protecting vulnerable sections of the force main from corrosion associated with brine addition. They narrowed the list to three in-pipe options, which are being evaluated for cost, constructability, and other factors. Preliminary indications are that segmental sliplining of the vulnerable sections of the transport pipe is the most robust and lowest cost approach. Sliplining will also be compared with the option to extend Cargill's pipe to a connection point further downstream in EBDA's system where there is greater dilution and less open channel flow.

In parallel, staff is working with the Authority's legal team at Meyers Nave to evaluate options for project ownership and execution. The current favored approach is for Cargill to own the pipeline and to enter into Franchise Agreements with the cities through which the pipeline will traverse. Staff and legal counsel believe this is the lowest risk approach for EBDA.

EBDA and Cargill staff are also continuing to work with the City of Union City to facilitate the incorporation of the pipeline into Union City's upcoming Union City Boulevard bike lane project. Funding for the bike lane project was set to expire in 2022; however, city staff has requested an extension through 2023 from Alameda County Transportation Commission. In addition to accommodating time constraints on the City's part, this extension will allow EBDA and Cargill additional time to complete the environmental review process for the project under the California Environmental Quality Act (CEQA).

The CEQA review process is currently underway and will be expanded to include not only the original pipeline from Cargill's facility to EBDA's southernmost point in Union City, but also the two leading alternatives for addressing corrosion – sliplining EBDA's pipe or extending Cargill's pipe to Oro Loma. EBDA staff, consultants, and legal counsel are currently evaluating whether a mitigated negative declaration is appropriate or whether an Environmental Impact Report may be needed to address the expanded scope.

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. On April 20, 2021, Sonoma Water's Board of Directors approved the agreements for the East Bay radar deployment and for the lease with American Tower. Installation of the radar at Rocky Ridge has faced some delays, but is on track for installation Fall 2021.