



ITEM NO. 15

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Monday, November 18, 2024

4:00 PM

**Oro Loma Sanitary District, OMC Training Room
2600 Grant Avenue, San Lorenzo, CA**

Committee Members: Simon (Chair); Azevedo

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.

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
Monday, December 16, 2024, at 4:00 pm**

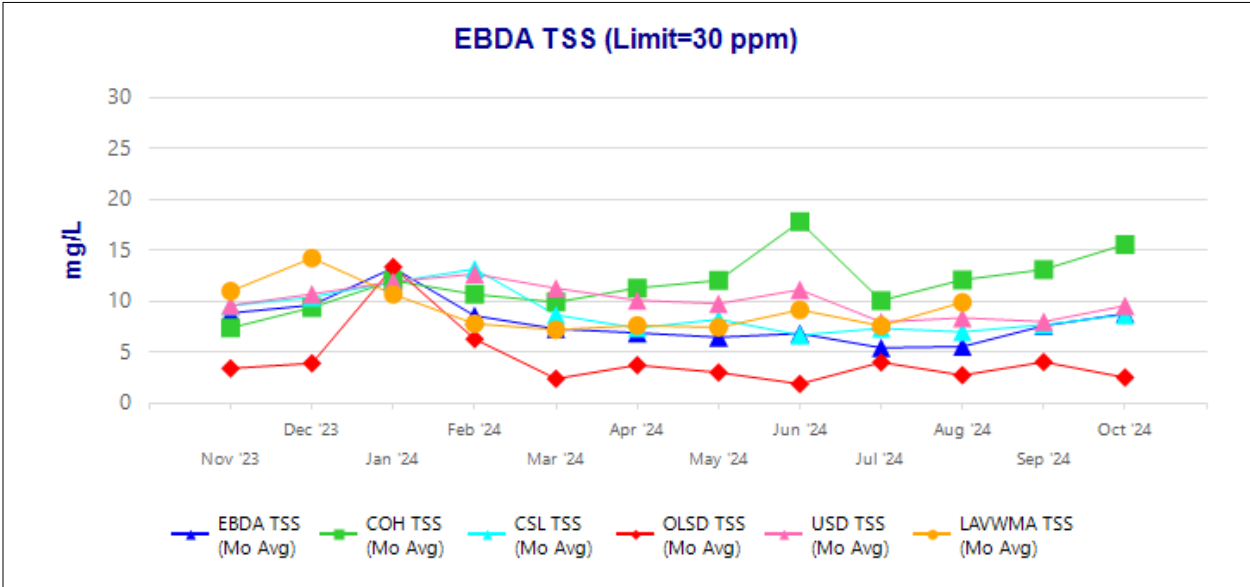
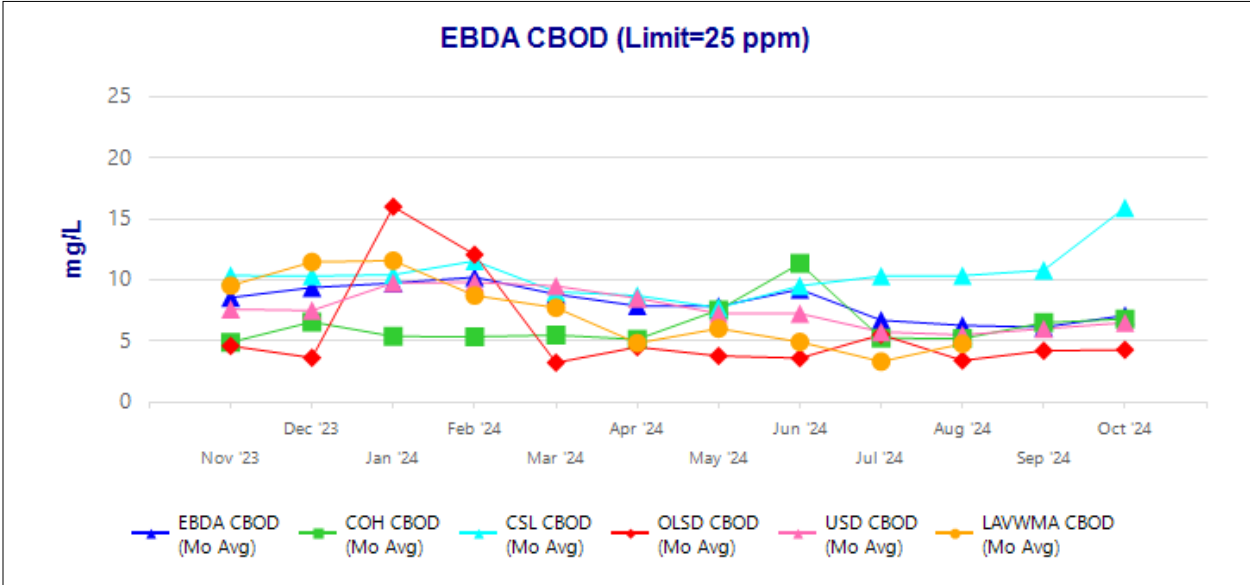
ITEM NO. OM4 EBDA PERMIT COMPLIANCE

Recommendation

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

Discussion

EBDA and its members continued our NPDES compliance in September, and preliminary October data indicates compliance as well. 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 |
| November 2023 Geomean | 8 | 8 |
| December 2023 Geomean | 7 | 5 |
| January 2024 Geomean | 12 | 4 |
| February 2024 Geomean | 8 | 15 |
| March 2024 Geomean | 6 | 7 |
| April 2024 Geomean | 9 | 3 |
| May 2024 Geomean | 12 | 4 |
| June 2024 Geomean | 60 | 9 |
| July 2024 Geomean | 59 | 5 |
| August 2024 Geomean | 153 | 21 |
| 9/2/2024 | 540 | 22 |
| 9/3/2024 | 140 | 22 |
| 9/5/2024 | NA | 13 |
| 9/9/2024 | 240 | 24 |
| 9/10/2024 | 13 | 46 |
| 9/16/2024 | 920 | < 2 |
| 9/17/2024 | 350 | 10 |
| 9/23/2024 | 13 | 2 |
| 9/24/2024 | 170 | 12 |
| 9/30/2024 | 13 | 29 |
| September 2024 Geomean | 109 | 13 |
| 10/1/2024 | 33 | 4 |
| 10/2/2024 | NA | 22 |
| 10/7/2024 | 13 | 4 |
| 10/8/2024 | 22 | 17 |
| 10/14/2024 | 350 | 8 |
| 10/15/2024 | 33 | 14 |
| 10/21/2024 | 14 | 17 |
| 10/22/2024 | 13 | 6 |
| 10/28/2024 | 79 | 2 |
| 10/29/2024 | 140 | < 10 |
| October 2024 Geomean | 33 | 4 |

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 October 24, the two new HEPS pump bases were grouted, and the vibration testing is scheduled for November 14. Once the vibration testing is completed and small punch list items are addressed, the two new pumps will be placed in service. After the new pumps have operated for several weeks without any issues, work will start on the third new pump.

Generator Radiator Replacement

On October 15, Peterson Caterpillar replaced the radiator on the HEPS generator. During preventative maintenance activities this summer, Peterson Caterpillar performed an inspection of the HEPS generator. As the result of that inspection, the diesel engine cooling system was flushed, and the block heater and radiator were replaced.

Oro Loma Effluent Pump Station (OLEPS)

PG&E Power Outage & Diesel Fuel System Failure

As discussed at last month's Commission Meeting, on September 10 and 13, PG&E scheduled power outages from 9:00 am to 3:30 pm, which affected the EBDA and OLSD/CVSan facilities. During the first outage, OLEPS received backup power from OLSD, and one diesel pump operated without any issues. During the second outage, the OLEPS generator and one diesel pump operated without any issues.

PG&E scheduled another power outage on October 18 that affected the EBDA and OLSD/CVSan facilities at the West End of Grant Avenue. During that outage, EBDA narrowly avoided an overflow at the OLEPS emergency outfall due to a catastrophic failure of the diesel fuel system.

During the October 18 power outage, the OLEPS emergency generator unexpectedly shut down. Because the diesel pumps require a small amount of emergency power to run the ancillary equipment such as the cooling fans and gear drive oil pumps, the diesel pump that was operating subsequently shut down. Staff then switched over emergency power to OLSD's backup power. However, even when provided reliable emergency power, each of the two diesel pumps only ran for a short period of time and then shut down. Unable to start either of the diesel pumps, EBDA staff contacted the Member Agencies. Hayward's flow was diverted to the Hayward Ponds, OLSD's flow was diverted to their equalization basin, and USD reduced its effluent flow and eventually turned off the UEPS effluent pumps. OLSD had one of their chlorine contact channels pumped

down, and OLEPS flow backed up and started filling that channel. The OLEPS dechlorination system was activated in preparation for a discharge out the OLEPS emergency outfall. Thankfully at this point, EBDA staff was able to work with PG&E to reconnect the primary power to the facilities. With the restoration of PG&E power, two OLEPS electric pumps were started, the Member Agencies flow was resumed, and an overflow was avoided.

The ultimate cause of the problems was traced to the failure of a diesel transfer pump. The transfer pump that supplied diesel fuel from the diesel day tank to the generator fuel tank was not the correct type of pump, and when it failed, air was allowed into the diesel fuel lines to the two diesel pumps. This prevented the two diesel pumps from running. The transfer pump was replaced with a new diesel transfer pump, and a check valve was installed in the fuel line to the generator that will prevent this type of issue from reoccurring. Parts are also on order for installation of check valves in the diesel fuel lines to each of the diesel pumps. These will prevent an air leak at one of the engines from affecting the other engines.

The timing of this incident was fortuitous, in that flows were low and PG&E was able to reestablish the power quickly. Several lessons were learned and numerous corrective actions taken as the result of the event, which will serve EBDA well as we move into wet weather. EBDA staff would like to thank the Member Agencies for their rapid response and effective collaboration during the incident to avoid an overflow.

Skywest Pump Station

Recycled Water Production

During the month of October 2024, the Skywest Recycled Water System operated for three days and produced 1.64 million gallons of recycled water.

Marina Dechlorination Facility (MDF)

No change; all equipment is operational.

Force Main

No change; all equipment is operational.

Operations Center

Termite Fumigation

On October 3, termites were discovered in the EBDA Administration Building. Terminix, OLS&D and EBDA's pest control contractor, recommended that the EBDA Administration Building and the OLS&D Administration, Engineering, and Collections Buildings be fumigated. Prior to the fumigation, on November 12, the crawl spaces of the EBDA Administration Building and the OLS&D Administration and Engineering Buildings were

inspected, and termites were discovered under the OLSD Administration Building as well. Fumigation is scheduled to start on Friday, November 15 and be completed on Monday, November 18. Staff will be allowed to return to the buildings on Monday afternoon after all spaces in the buildings are tested and cleared for occupancy.

Miscellaneous Items

Underground Service Alerts

EBDA received eight (8) Underground Service Alert (USA) tickets during the month of October 2024. Three required an Electronic Positive Response (EPR) and calls/emails to the excavators, and of the three, two required field verification.

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 is continuing to meet with landowners along the new proposed route. Cargill is also investigating an alternative that would upgrade and repurpose a former Shell pipeline.

Cargill’s preliminary schedule shows revised CEQA analysis in 2025, and construction beginning sometime between 2027 and 2030 depending on permitting, with operation commencing between 2031 and 2033. Cargill has requested that EBDA consider an interim Project Approval Agreement between the parties that would allow Cargill to begin construction on elements of the project that do not directly affect EBDA, such as reconfiguration of intakes and pond structures at Cargill’s Newark salt facility. Staff is currently working with Cargill to negotiate this agreement and expects to bring it to the Commission for consideration in the coming months. Once negotiated, the Project Approval Agreement would be superseded by the final Operating Agreement.

Advanced Quantitative Precipitation Information (AQPI) Project

The regional AQPI project continues to move forward with the goal of improving the 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 the AQPI Program Management team is developing an updated website and data management tools, which they expect to make available for the 2024-2025 wet season. Commissioners and staff attended a site visit at Rocky Ridge on the afternoon of June 28, 2024, and were able to see the radar close up. Another site tour will be scheduled for after the rainy season.