



EAST BAY DISCHARGERS AUTHORITY
2651 Grant Avenue
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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/86310622623>
- Telephone dial-in: 1(669) 900-6833, meeting ID #863 1062 2623

ITEM NO. 14

OPERATIONS & MAINTENANCE COMMITTEE AGENDA

Tuesday, January 19, 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 Performance](#)

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

OM5. [Status Report](#)

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

OM6. [Transfer of Assets on Union Sanitary District Property](#)

(The Committee will receive information on proposed asset transfers.)

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 alternative format,

Agenda Explanation
East Bay Dischargers Authority
O&M Agenda
January 19, 2021

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, February 16, 2021, at 9:00 a.m.**

ITEM NO. OM4 EBDA PERFORMANCE

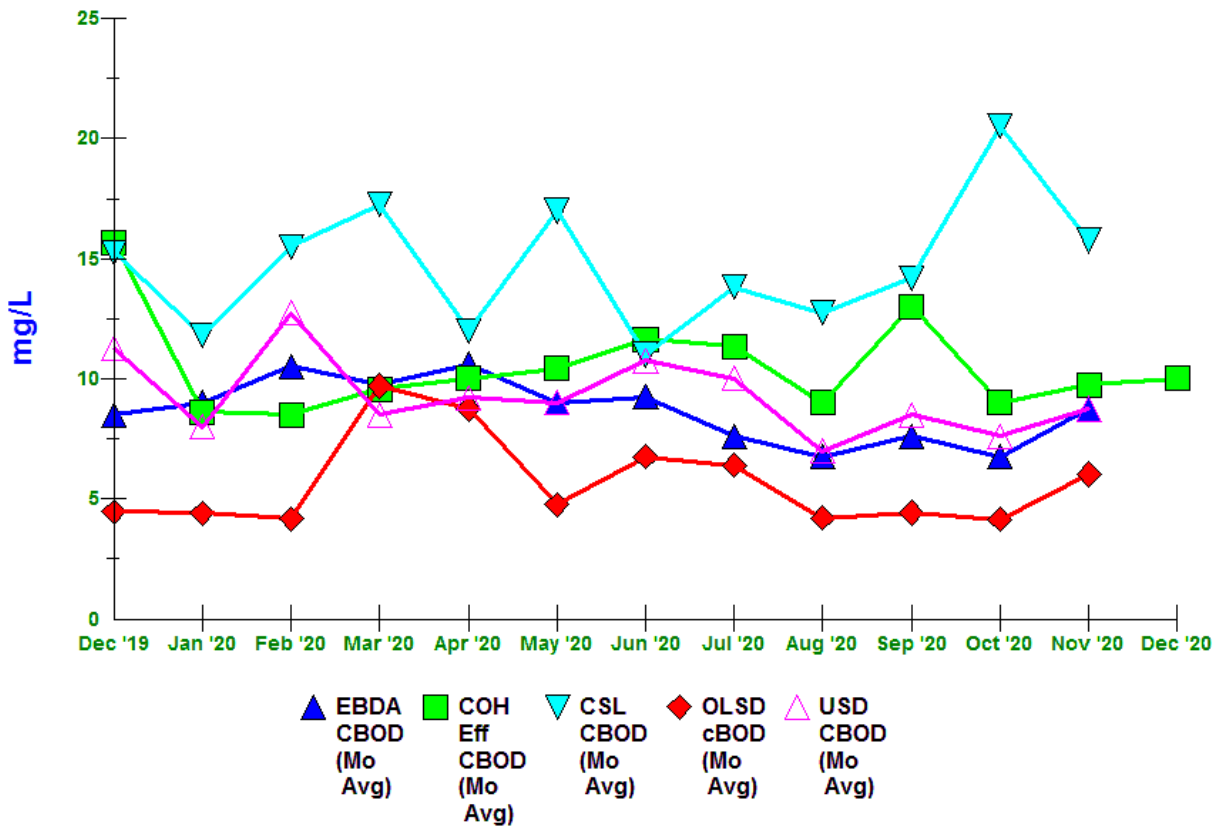
Recommendation

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

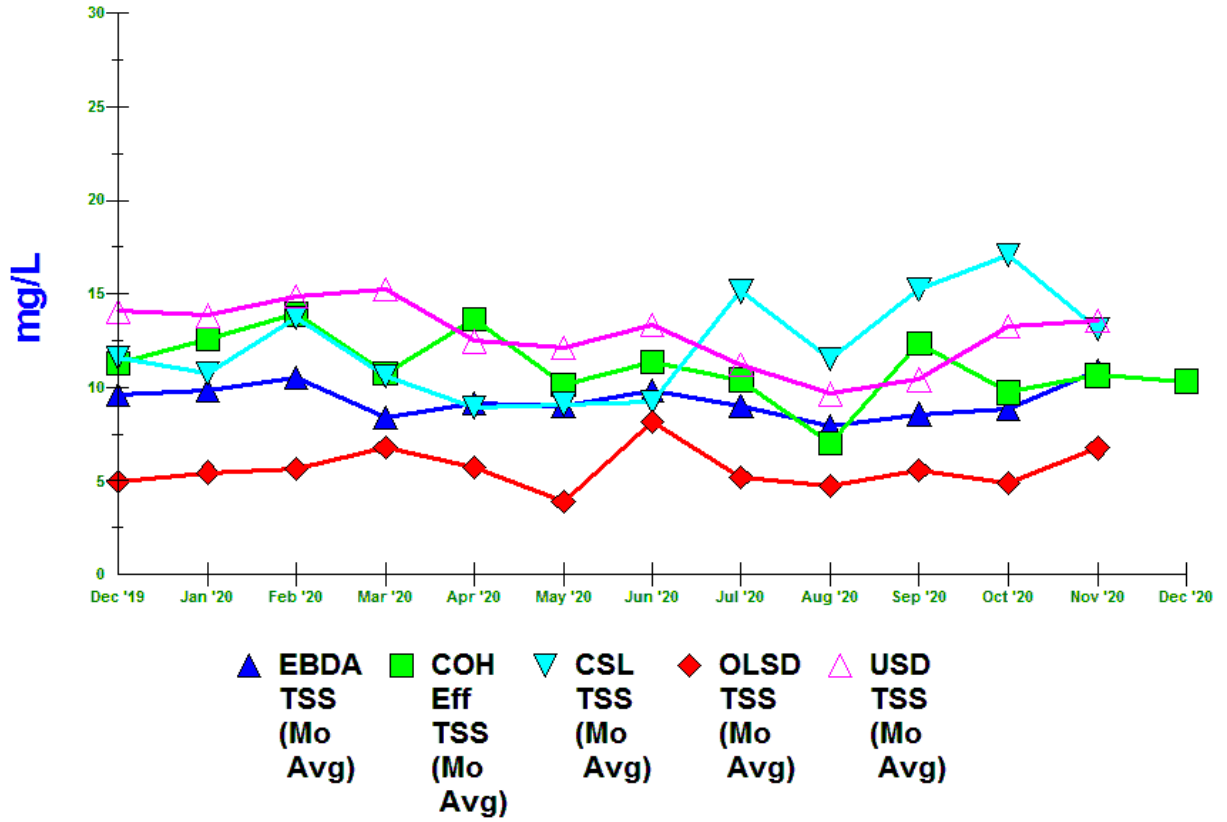
Permit Compliance Issues

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
January 2020 Geomean	6	< 2
February 2020 Geomean	5	< 3
March 2020 Geomean	8	< 2
April 2020 Geomean	4	2
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
11/2/2020	5	2
11/3/2020	4	5
11/4/2020	2	2
11/9/2020	16	13
11/10/2020	49	5
11/11/2020	79	15
11/16/2020	3	< 2
11/17/2020	8	4
11/23/2020	4	< 2
11/24/2020	130	2
11/30/2020	15	4
November 2020 Geomean	11	4
12/1/2020	27	3
12/2/2020	14	< 2
12/7/2020	3	2
12/8/2020	17	2
12/9/2020	4	2
12/14/2020	4	6
12/15/2020	1600	3
12/21/2020	< 2	2
12/22/2020	2	< 2
12/28/2020	4	< 2
12/29/2020	7	< 2
December 2020 Geomean	9	2

ITEM NO. OM5 STATUS REPORT

Union Effluent Pump Station (UEPS – Formerly AEPS)

Radio Communications

EBDA has been experiencing issues receiving data communications from UEPS. Calcon Systems, Inc. (Calcon) attempted to repair the existing equipment but was unsuccessful. Calcon installed a new radio at the top of the UEPS surge tower, and on January 12, 2021, Calcon is scheduled to install a new radio on the OLEPS surge tower. Staff expects that this will correct the problem. The full Communication System Upgrade at all facilities will be included in the RRF project list in the next several years. Staff is using the UEPS experience and other smaller projects to inform decision-making on systemwide upgrades.

Hayward Effluent Pump Station (HEPS)

No change; all equipment is operational.

Oro Loma Effluent Pump Station (OLEPS)

Wet Well Hypochlorite (Hypo) System

On January 13, 2021, a socially-distanced meeting is scheduled at the OLSD hypo pump area to review the new flow meter installation and the piping connections with OLSD staff. Once OLSD staff approves the plan, Calcon will start installing the equipment. This project includes the installation of a new programmable logic controller (PLC), flow meter, and pump that will allow for automatic control of hypo to the OLEPS wet well, reducing the cost of hypo, sodium bisulfite (SBS), and staff time.

Main Electrical Switchboard Upgrade

Staff is in the process of executing a contract with Graybar Electric Company, Inc. for the OLEPS Main Electrical Switchboard Upgrade, as approved by the Commission.

San Leandro Effluent Pump Station (SLEPS)

No change; all equipment is operational.

Skywest Pump Station

Recycled Water Production

During the month of December 2020, the Skywest Recycled Water System did not produce any recycled water. The total recycled water produced during 2020 was 15.44 MG. The peak day of recycled water production in 2020 was 575,300 gallons. A summary of the monthly recycled water produced for the last five years is shown below:

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

Marina Dechlorination Facility (MDF)

On December 26, 2020, one of the automatic valves that switch analyzer sample flow at MDF started to fail. EBDA staff responded to MDF to ensure continued NPDES Permit compliance and contacted Calcon to have both automatic valves replaced. EBDA had two new valves and actuators in stock, and Calcon replaced them without issue.

Force Main

Manway Cover & Valve Replacement

As part of the Cargill Brine Project inspection (see Special Projects), the southern portion of the transport system was shut down to assess the condition of the concrete pipe. EBDA took advantage of this shutdown to replace the force main manway cover and the Air Relief Valve (ARV) isolation valve at that location, close to the USD plant.

Operations Center

No change; all equipment is operational.

Miscellaneous Items

Underground Service Alerts

EBDA received nine (9) Underground Service Alert (USA) tickets during the month of December 2020. Two required field verification.

COVID-19 Response

Authority staff is continuing to implement the Pandemic Response Plan, which includes staff working from home and alternating time in the office to ensure social distancing. Signage regarding closure of the office to the public and the Authority's social distancing measures is posted on the office door. All meetings are being conducted by phone and web conference until further notice.

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. A Working Group has been created to inform Bay Area regional efforts and ensure coordination. The group includes representatives from UC Berkeley, Stanford, county public health offices, and wastewater treatment plants, coordinated by the Bay Area Clean Water Agencies (BACWA). More information on these regional efforts is at <https://www.covid-web.org/>.

EBDA staff has been meeting with representatives from UC Berkeley, Alameda County Public Health Department (Public Health), and East Bay Municipal Utility District to develop a monitoring strategy for Alameda County. Public Health is still working to prioritize locations for which wastewater surveillance data will be most helpful and determine how they would use the data. As a pilot program, Union Sanitary District has begun twice weekly sampling of their Alvarado basin, which encompasses the City of Union City, with samples analyzed by UC Berkeley.

Special Projects

Cargill Brine Project Due Diligence – Transport System Inspection

Working with USD, EBDA implemented a shutdown of the southern portion of the transport system in the early morning hours of Saturday, December 19, 2020. The purpose of the shutdown was to perform a second inspection of the concrete pipe condition to assess vulnerability to corrosion associated with brine addition. Unfortunately, the team was unable to sufficiently drain the pipe to perform the inspection during the shutdown. Several valves key to the ability to drain the pipe in the desired location were not fully functioning. EBDA had previously made the decision not to replace these transport system valves individually, since they are so infrequently needed, and because replacing each one would be a major capital project in itself. Instead, the plan is to update them over time as part of other capital projects, such as the realignment of the force main by USD discussed in item OM6.

Since the aborted inspection, EBDA staff has been working with Cargill staff and consultants to develop an updated plan for further pipeline inspections. The plan will include taking core samples from sections of the concrete pipe in key locations, likely using divers. Staff will update the Committee as the new plan evolves.

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. The Cooperative Agreement for installation of the X-band radar in the East Bay has been approved by the East Bay agencies, but approval by Sonoma County Water District (Sonoma Water), the implementing agency, was slowed by the COVID-19 emergency and wildfires. The East Bay agreement, as well as the lease agreement with American Tower for the site, will likely be approved by Sonoma Water in March 2021. As they await approval of the agreement, the team is preparing for installation of the X-band at Rocky Ridge. The radar equipment was delivered to Sonoma County on January 11, 2021 – see photos below. As part of the overall program, EBDA agencies currently have access to precipitation forecasts at locations of their choice using data from the already-installed portions of the AQPI radar system.



AQPI Radar Equipment

ITEM NO. OM6 TRANSFER OF ASSETS ON UNION SANITARY DISTRICT PROPERTY

Recommendation

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

Background

Implementation of Union Sanitary District (USD)'s Enhanced Treatment and Site Upgrade (ETSU) Program will require relocation of a number of EBDA assets, including relocation of the Union Effluent Pump Station (UEPS) and realignment of the force main connecting UEPS to the rest of the EBDA system.

In negotiating the Amended and Restated Joint Powers Agreement (JPA), the parties anticipated these changes. Section 10(b) of the JPA states the following:

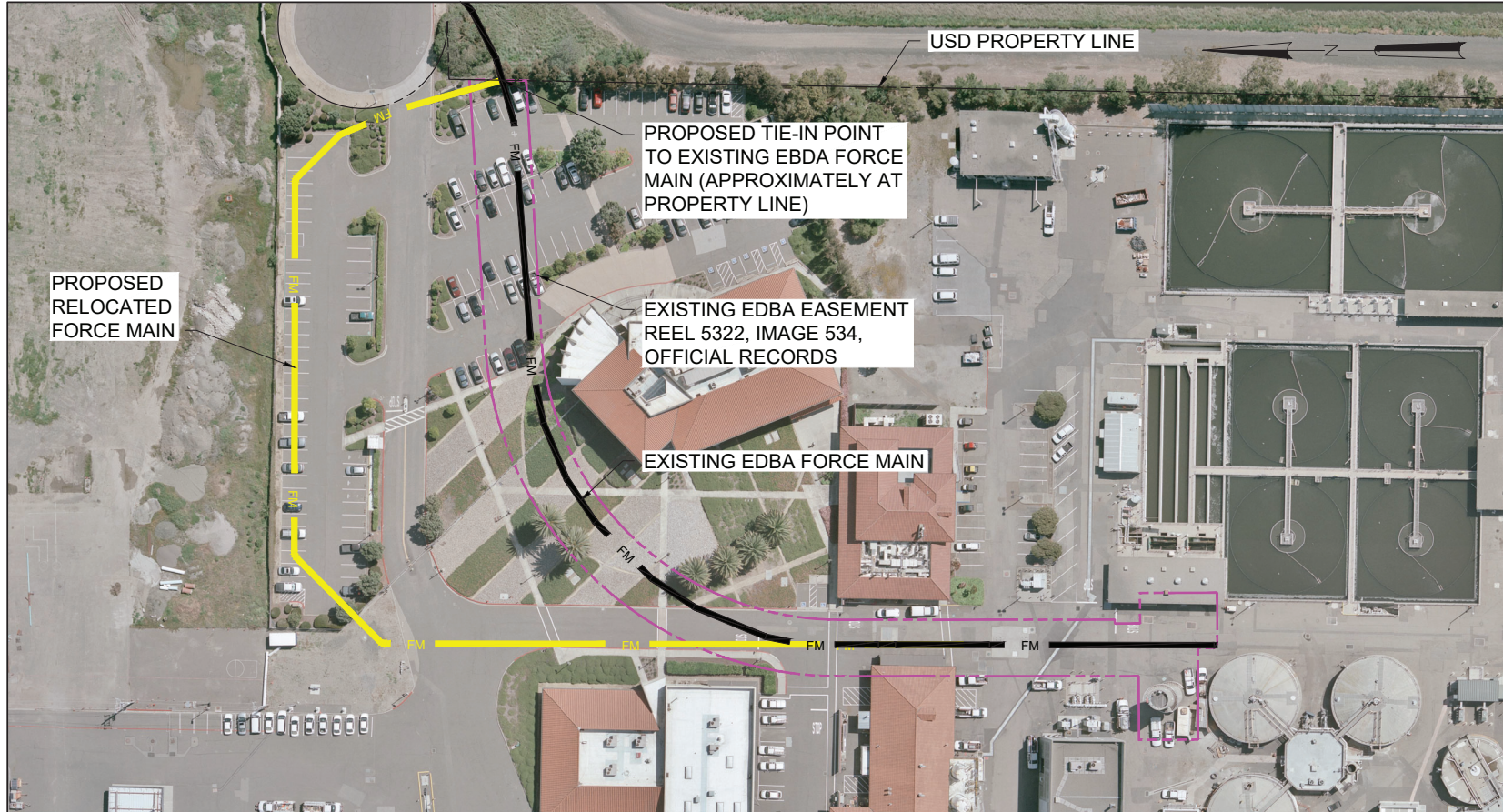
In the event Union relocates the Union Effluent Pump Station from its location as of the effective date of this Agreement, ownership of the pump station will transfer to Union at that time. Union and the Authority agree to execute any and all documents necessary to effectuate such transfer. At such time, the General Manager will update Schedule A and the revised Schedule A will be automatically incorporated in this Agreement. Operation and Maintenance costs of the Union Effluent Pump Station will continue to be allocated as outlined in Schedule B for the duration of the Term, irrespective of ownership.

Discussion

As part of its ETSU planning, USD has approached EBDA to begin the process of transferring ownership of EBDA assets on USD property. The following assets would be transferred from EBDA to USD ownership:

- UEPS
- Surge Tower
- Force Main - USD has developed the attached drawing, outlining the proposed realignment of the force main on its property. USD has proposed assuming ownership of the relocated force main and appurtenances up to the point that the main crosses the USD property line, at which point EBDA would retain ownership and responsibility. Existing EBDA easements on USD property would correspondingly be transferred to USD.

The MAC has reviewed and supports the proposed transfers. Pending Committee feedback, EBDA staff will work with USD staff to develop a Transfer Agreement for consideration by the Commission.



PROPOSED TIE-IN POINT TO EXISTING EBDA FORCE MAIN (APPROXIMATELY AT PROPERTY LINE)

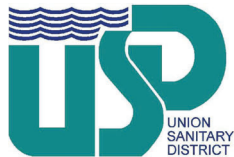
PROPOSED RELOCATED FORCE MAIN

EXISTING EBDA EASEMENT REEL 5322, IMAGE 534, OFFICIAL RECORDS




EXISTING EBDA FORCE MAIN

EBDA FORCE MAIN AT UNION SANITARY DISTRICT

1"=80'



LEGEND

-  EXISTING EBDA FORCE MAIN
-  PROPOSED RELOCATED FORCE MAIN
-  EXISTING EBDA EASEMENT REEL 5322, IMAGE 534, OFFICIAL RECORDS

1"=80'-0"

EBDA EASEMENT AND PIPELINE FIGURE