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**Sent:** Friday, February 8, 2019 1:21:13 PM

**To:** Riddle, Diane@Waterboards

**Cc:** Rieker, Jeff@usbr; Kiteck, Liz@usbr; Pettit, Tracy@DWR; Hinojosa, Tracy@DWR; Leahigh, John@DWR

**Subject:** Port Chicago/64km Update

Hi Diane –

Towards the middle to end of January the Projects were closely monitoring Port Chicago and taking planned actions in the event we triggered the Spring X2 at Port Chicago (Roe Island/64 km) for February. Historically, we monitor and report the EC at 64 km-Port Chicago station via the USBR gage, PCT-CDEC ([http://cdec.water.ca.gov/dynamicapp/staMeta?station\\_id=PCT](http://cdec.water.ca.gov/dynamicapp/staMeta?station_id=PCT)). However, between 1/17-1/23, communication from PCT was lost due to weather and the data was not retrievable. We typically have done an estimation when we lose data using salinity data from Martinez and Chipps Island, but this approach was further complicated because the station had been moved 2 km upstream to 66 km because the pier was slated to be demolished (it is located on Dept of Defense land). Therefore, not only did we have to interpolate due to the missing data, but we had to address the relocation, as 2 km is significant.

Our approach to address the short-term was to use full sets of data from Ryer Island (CDEC-RYC) and Martinez (CDEC-MRZ) and interpolate the data to the 64km D-1641 compliance location. The data is posted on our water quality report - <https://water.ca.gov/-/media/DWR-Website/Web-Pages/Programs/State-Water-Project/Operations-And-Maintenance/Files/Operations-Control-Office/Delta-Status-And-Operations/Delta-Water-Quality-Daily-Summary.pdf?la=en&hash=F3CF220E27384A6D4920F3CB9F7D0D9865B37F99>

For the long-term, DWR and Reclamation are developing a regression equation for Port Chicago at 64 km using the data from the current PCT station at 66 km. The approach will be similar to the current compliance monitoring for Chipps Island. Chipps Island EC is calculated from measurements recorded at Mallard Slough. In addition, we will also be putting together a process that lays out the approach to determine EC in the event data is lost from the PCT station in the future.

We are currently working on the long-term remedy and will provide, via letter, the analysis and new calculation of EC for Port Chicago at 64 km.

Thanks, and please do not hesitate to give me a ring with any questions.

Molly

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