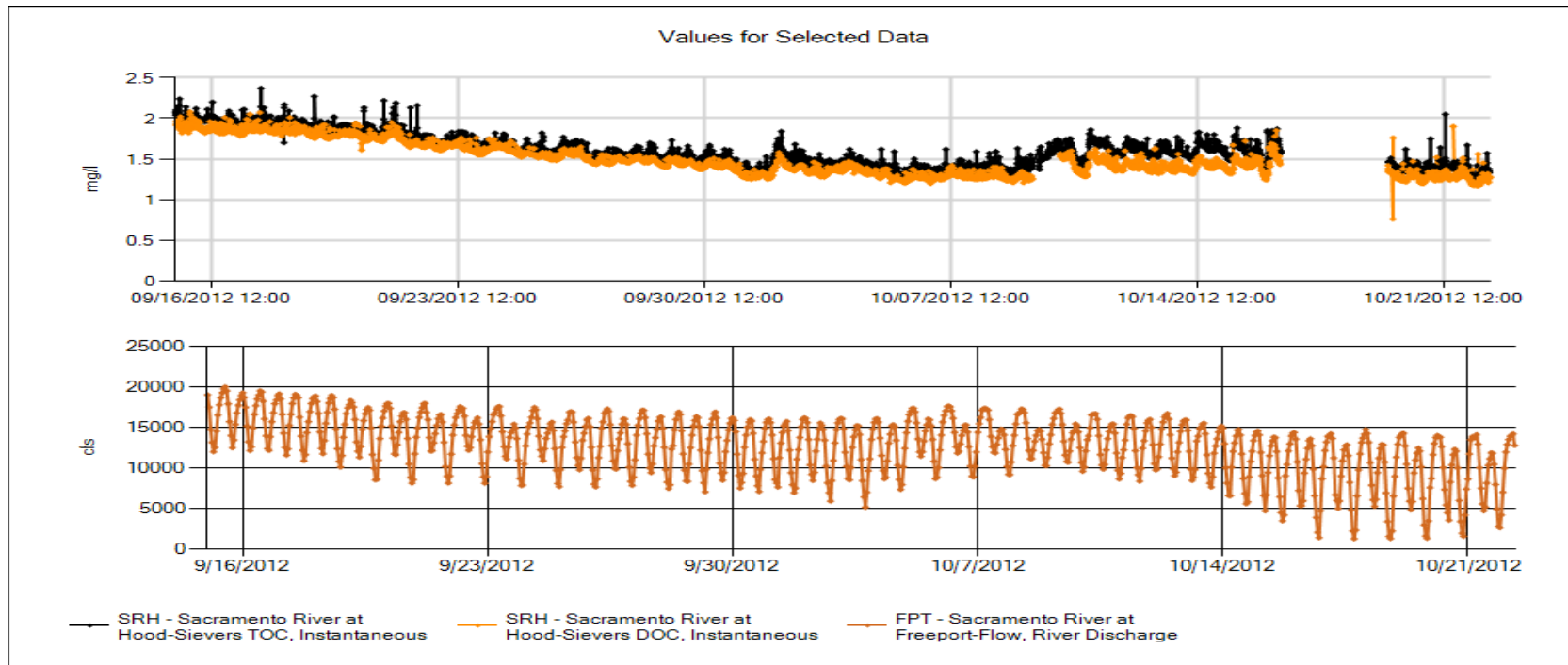


## RTDF Graphical Station Update: September-October 2012

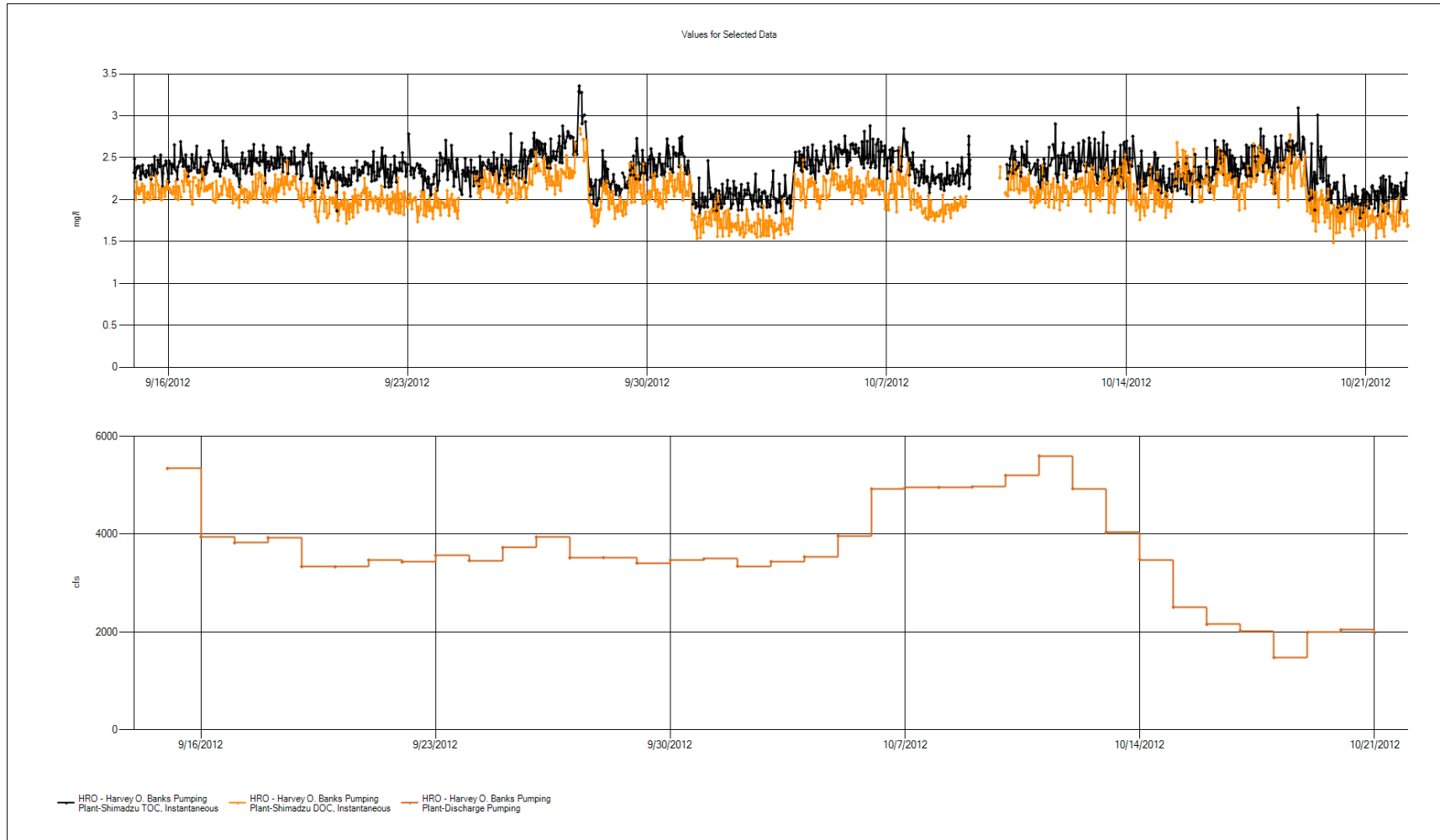
### Sacramento River Organic Carbon and Flow:



### **Hood Station: Significant TOC and DOC Events:**

- **9/20/12 ~ 10/8/12:** the TOC and DOC data seems to be near identical, but after **10/9/12** there is a more distinct separation between the two. This could be attributed to the filter change that occurred the day prior.
- **10/9/12:** The pump was shut off for approximately 3 hours due to pumping issues and QC check, which explains the gap in DOC data. It looks as though there was still enough water and pressure in the Streamwalker that sample was processed during the maintenance time which might explain why TOC reported but DOC did not.
- **10/9/12:** RTMQC run. The 5.0ppm house standard passed. TOC online values were lower than TOC river grab sample which means that the TOC system filters have been causing some low bias to TOC Online values. Data values there after appeared acceptable. Will continue to monitor.
- **10/16/12:** approximately at 9AM, the TOC analyzer shut off for unknown reasons.
- **10/19/12:** A maintenance crew was not able to diagnose the malfunction until 10/19/12. Upon inspection, one of the circuit breakers had tripped cutting power to the Sievers TOC analyzer and Streamwalker. Power was restored and everything is operating and reporting normally.

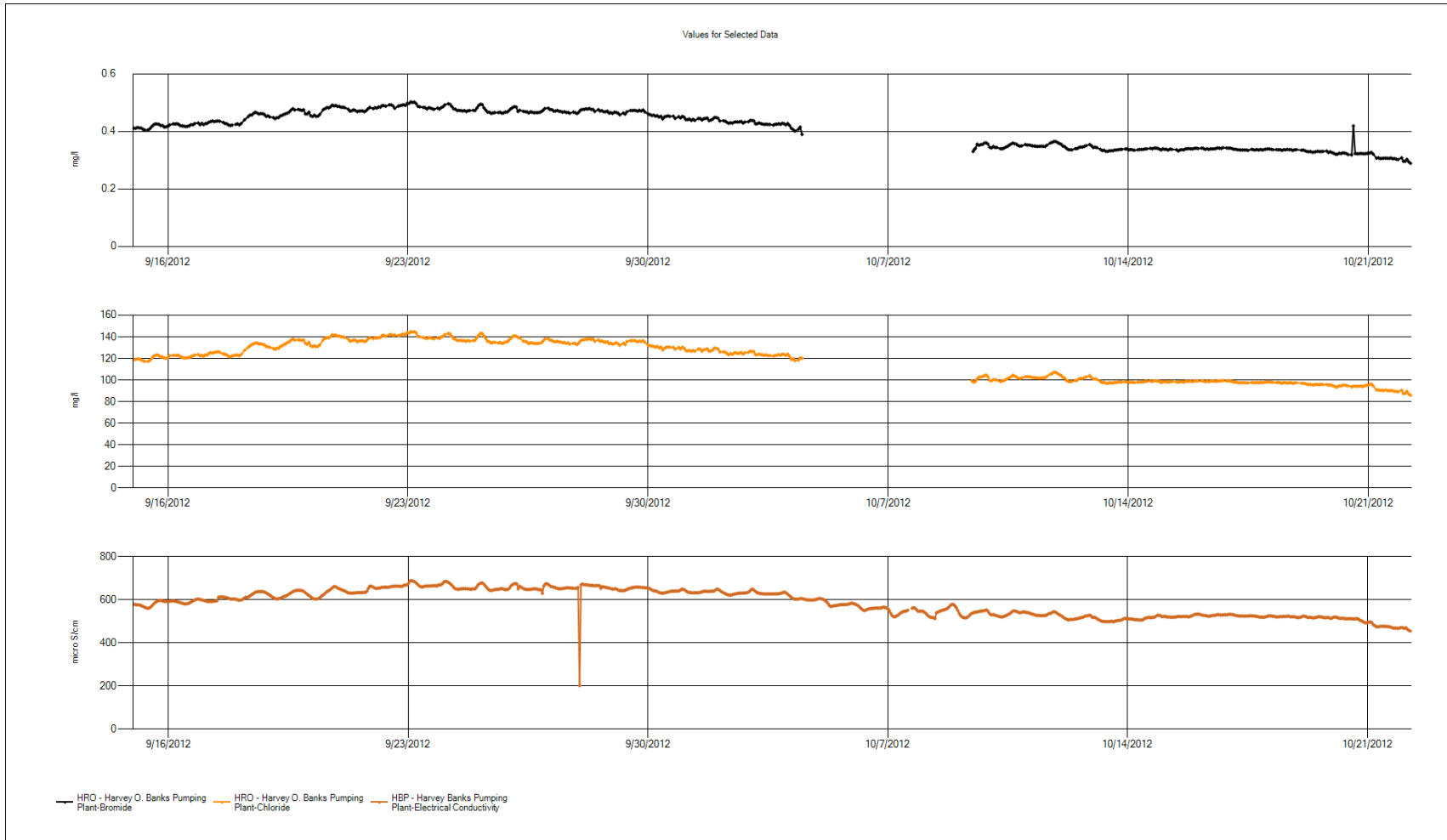
## Banks Organic Carbon and Pumping:



### **Banks Significant Events:**

- 9/24/12 – Filter change
- 10/9/12 – QC Passed
- 10/15/12 – Filter change

## Banks Selected Anions and EC:

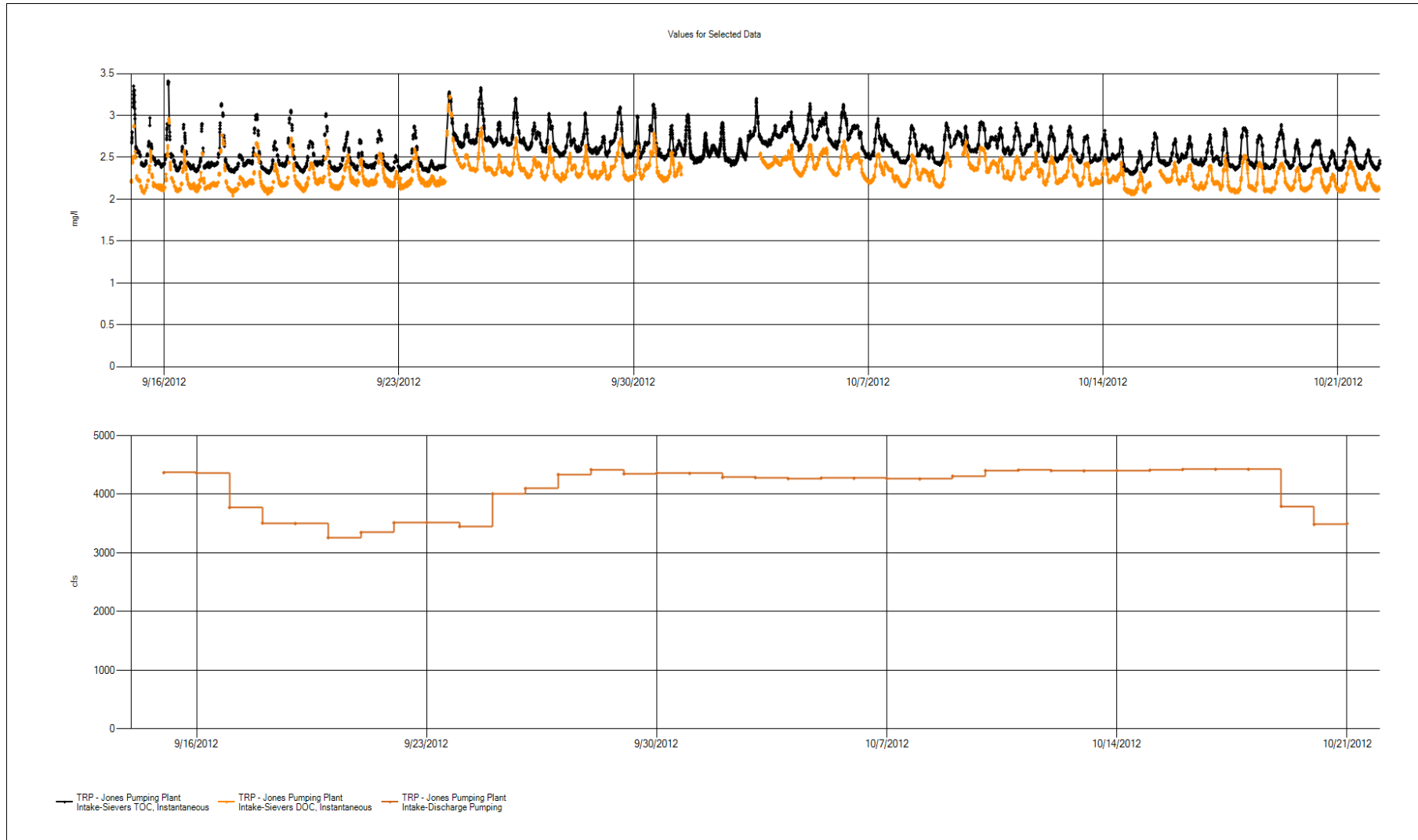


9/24/12 – Filter change

10/9/12 – QC Passed

1/15/12 – Filter change

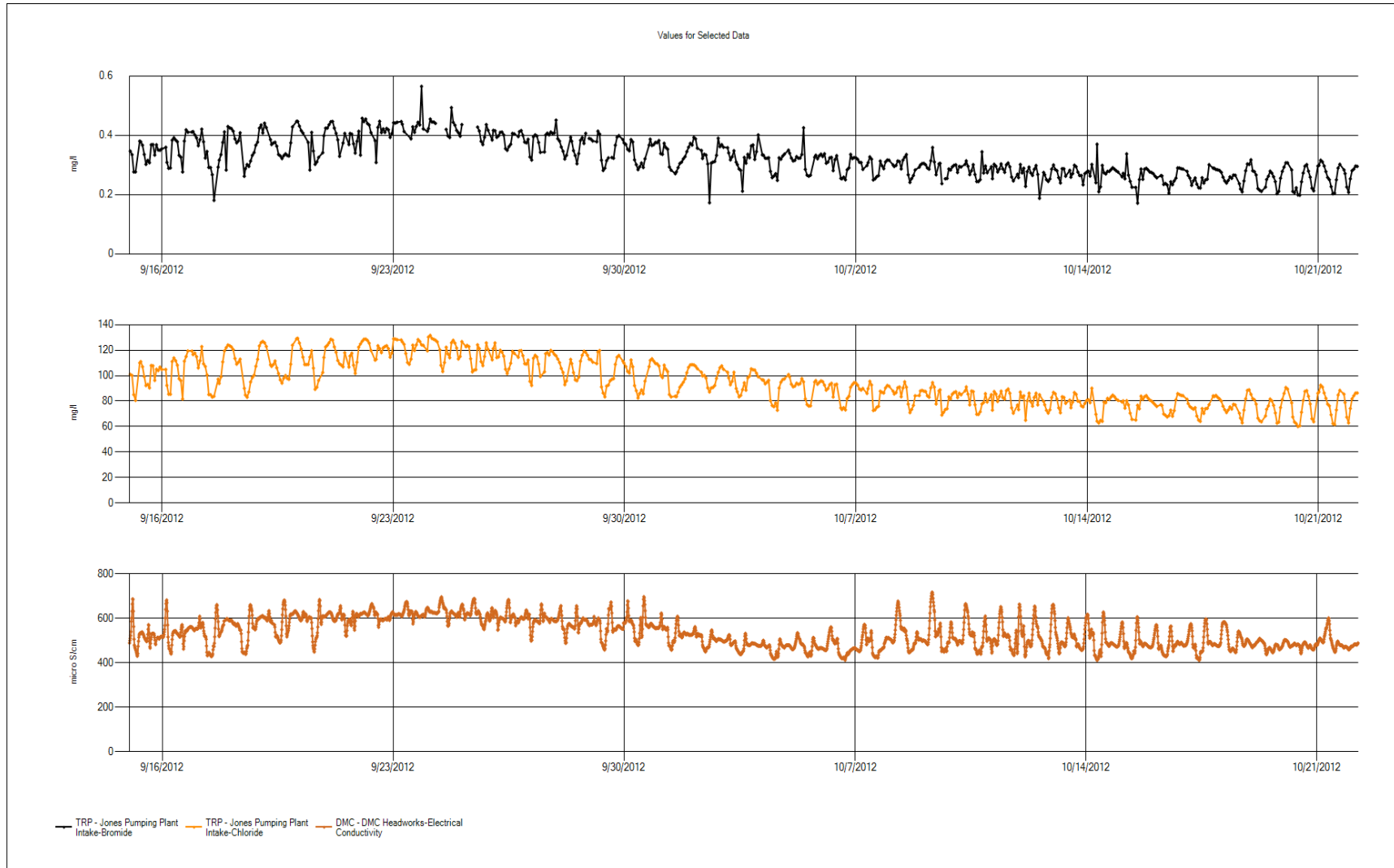
## Jones Organic Carbon and Pumping:



### Jones Significant Events:

- 9/24/12 – Filter Change
- 10/9/12 – QC Passed
- 10/15/12 – Filter Change

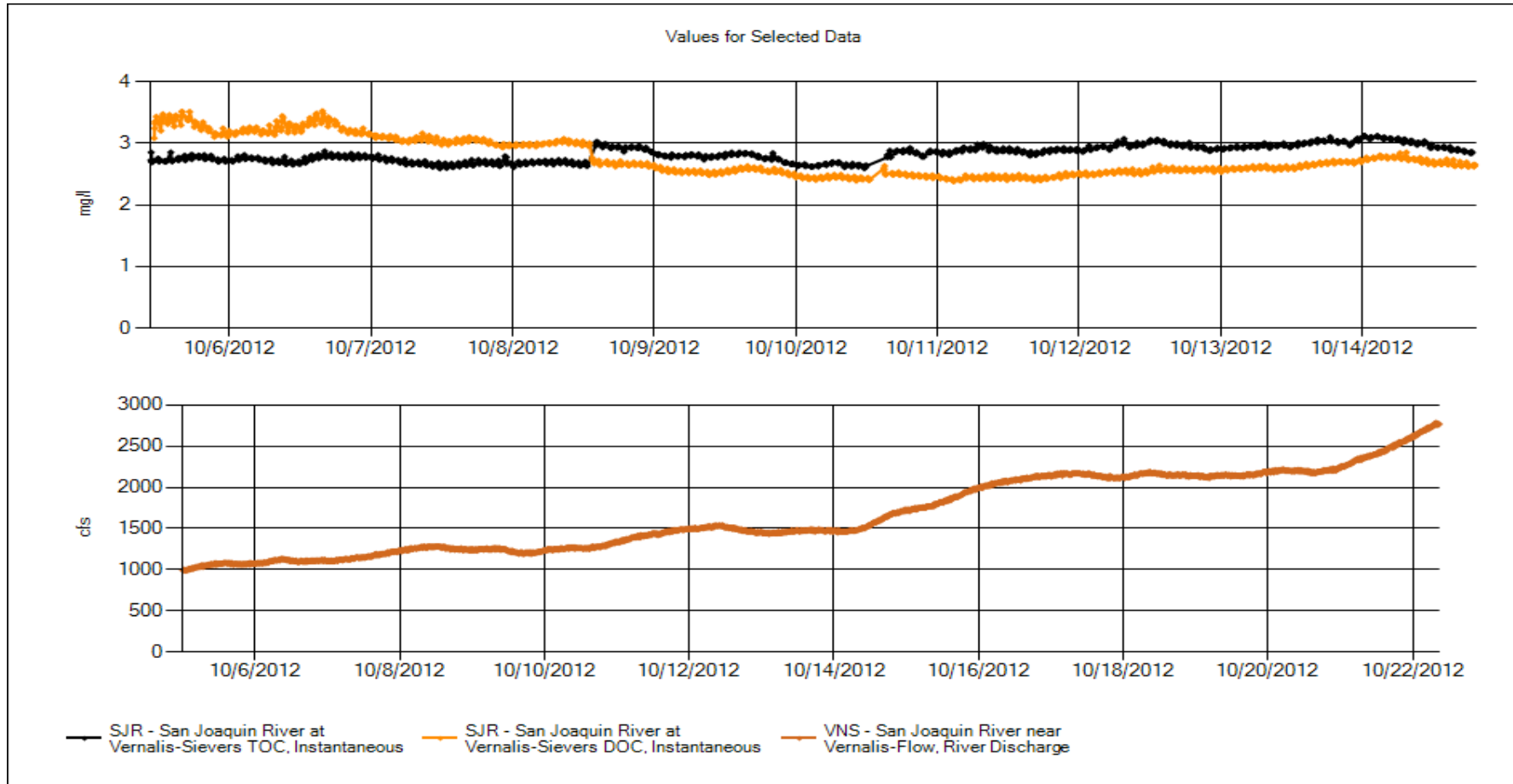
## Jones Selected Anion and EC:



### Jones Significant Events:

- 9/24/12 – Filter Change
- 10/9/12 – QC Passed
- 10/15/12 – Filter Change

## Vernalis Organic Carbon and Pumping:

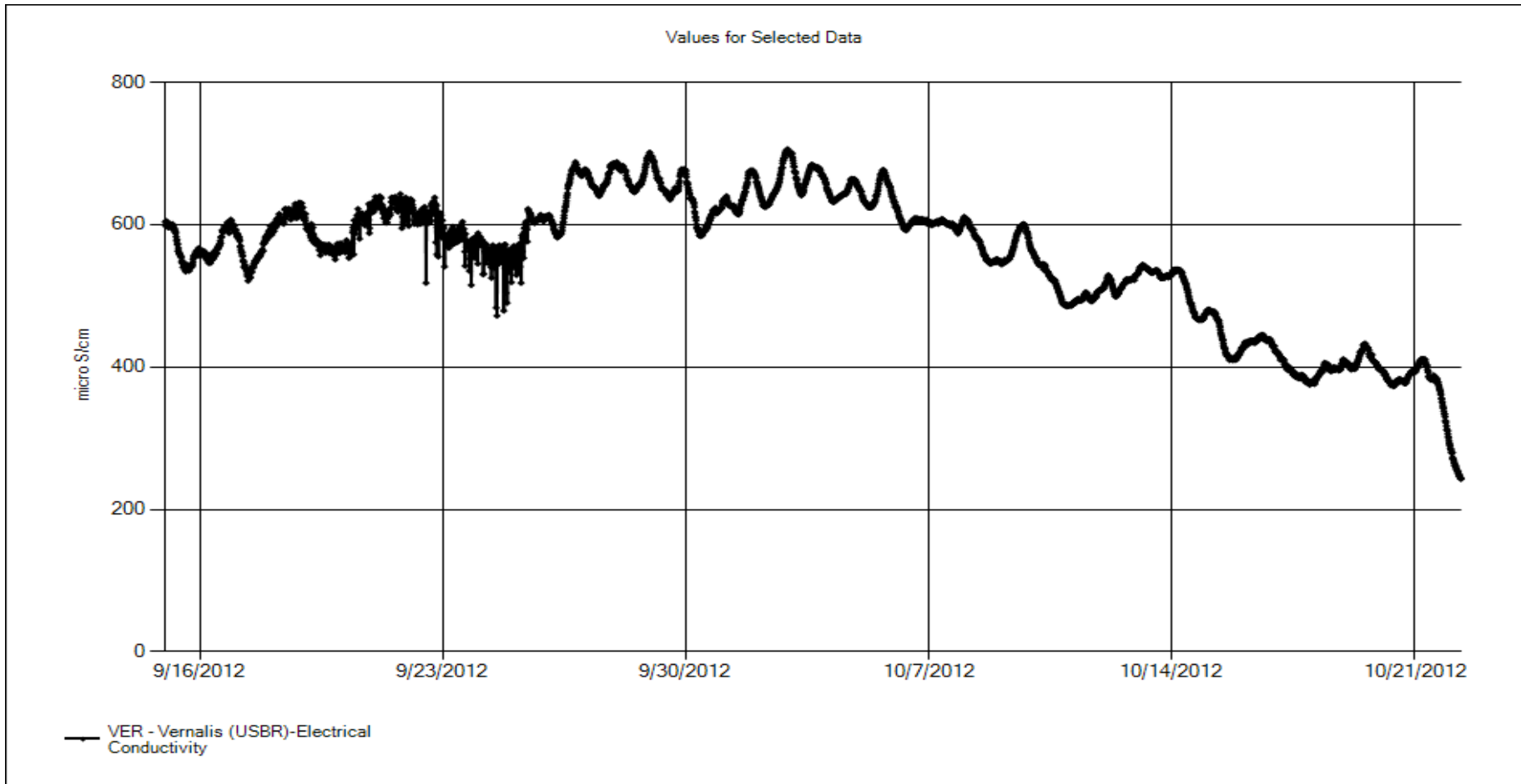


### Vernalis Organic Carbon Significant Events:

- 10/5/12—New Sievers organic carbon instrument goes online. Initial 4 days of TOC/DOC results were transposed in the data base causing the flip-flop seen in the above graph. QC samples run on the Sievers instrument on the 10/5 passed QC.
- 10/15/12 – On the 15<sup>th</sup>, we removed the cellular modem from Vernalis for swapping with the Gianelli modem. Connection speeds with the current modem had been very slow to non-existent. Since the modem swap completion on 10/16, all contact with the station has been lost. With staff attending the Bay-Delta conference last week, staff were not able to visit the site to correct the issue until 10/22.
- 10/15/12—Delivery system pump was non-operational on arrival at station. We were able to get it back up and running, but this was the cause of the instruments being offline over the past ~ day.



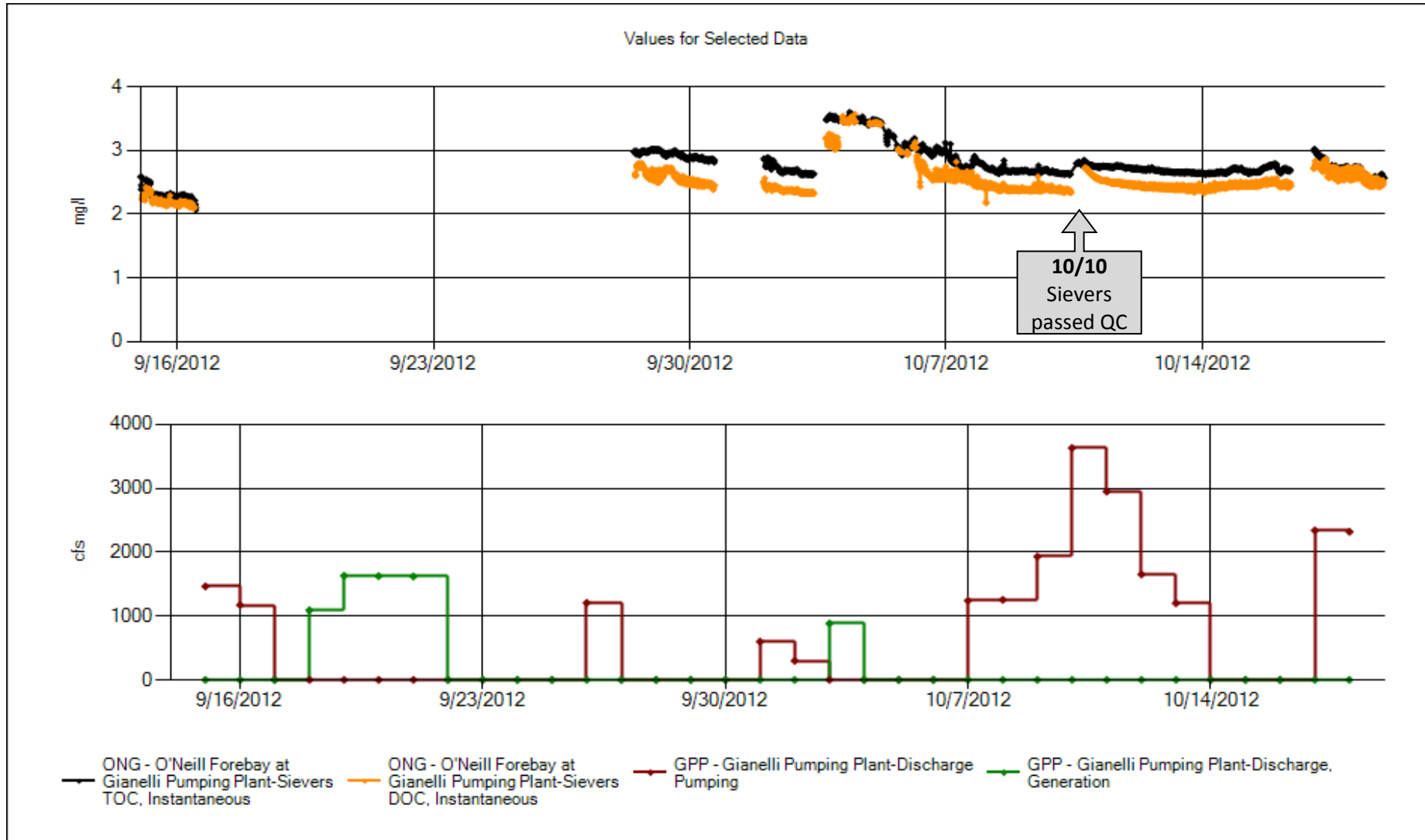
Vernalis Selected Anions and EC:



**Vernalis Significant Events:**

- **10/11/12**—The new Dionex IC instrument is online as of today, but we are still working on the data end configuration. Therefore, no data (or graph) are currently available in the data base utility.
- **10/15/12**—Delivery system pump was non-operational on arrival at station. We were able to get it back up and running, but this was the cause of the instruments being offline over the past day.

Gianelli Organic Carbon and Pumping/Generation:

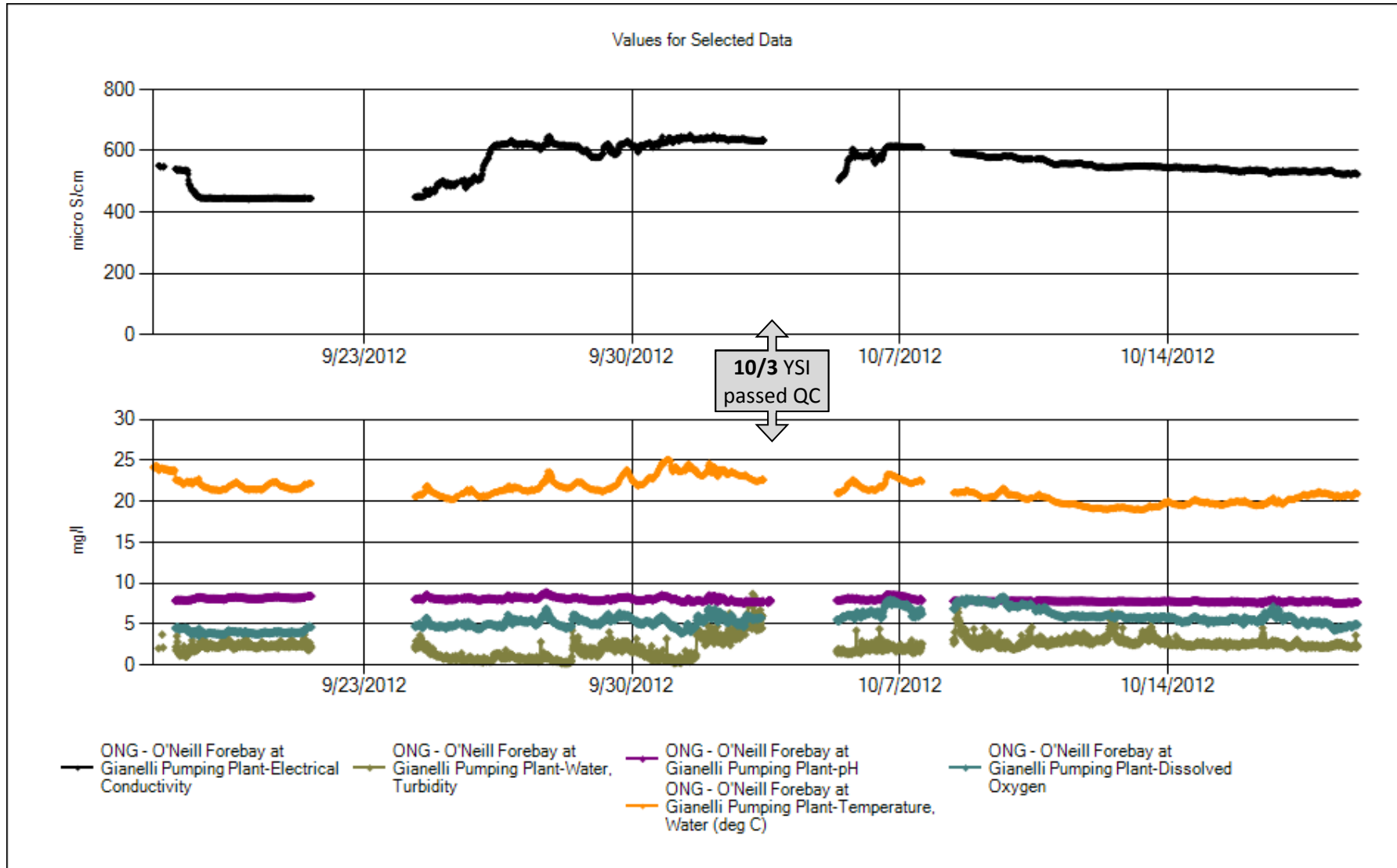


**Gianelli Significant TOC Events:**

- The oxidizer syringe broke causing the instrument to be of service from **9/16 to 9/28**.
- The server lost connection to the station from **9/30 to 10/2**.
- The Sievers was receiving diminished flow from **10/4 to 10/6**, which resulted in some skewed data.



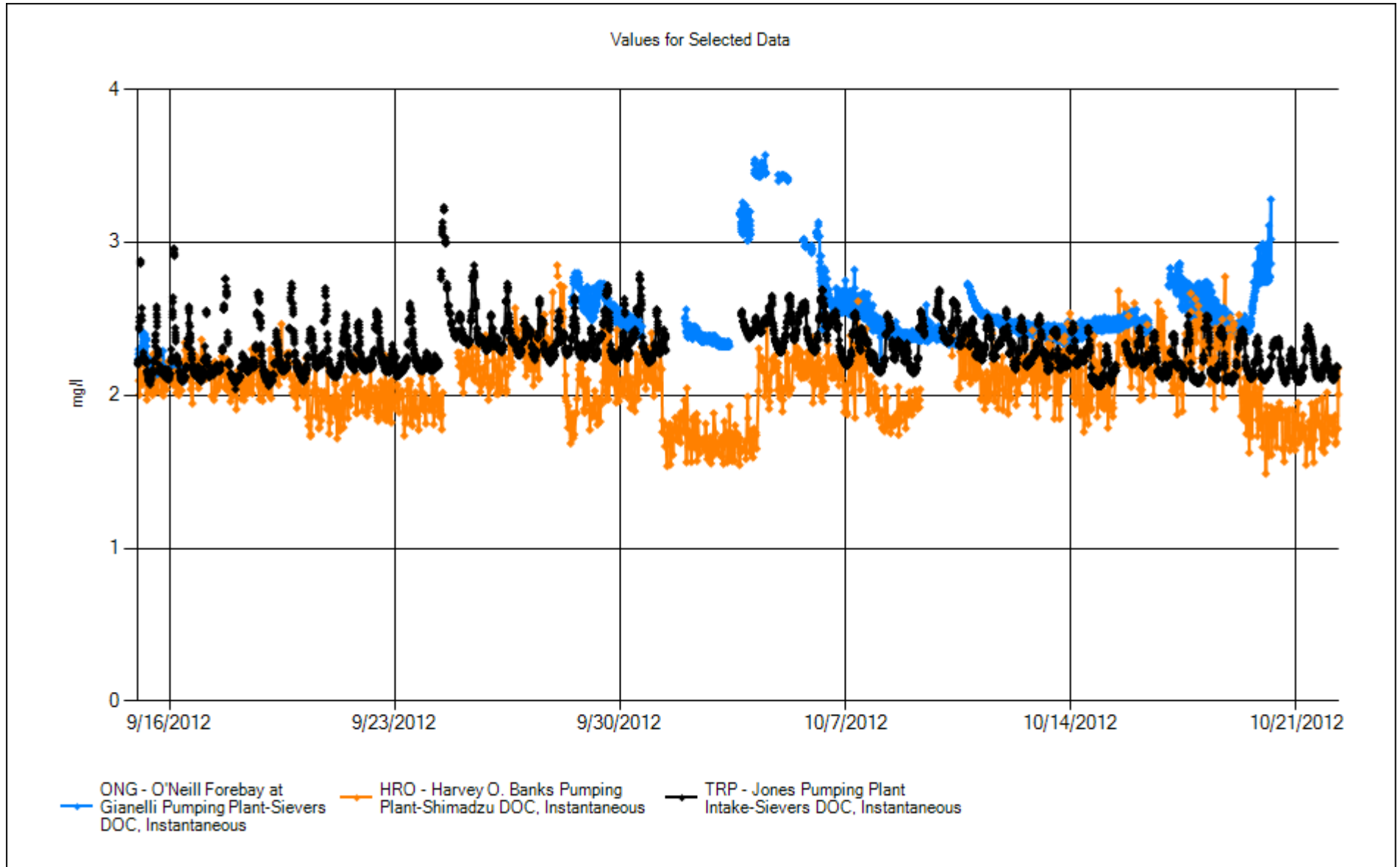
Gianelli YSI Sonde Data:



**Gianelli Significant Sonde Events: Sept 15, 2012 – Oct 19, 2012**

- From **9/21 to 9/24** and **10/3 to 10/5** the data logging was turned off.
- The internal memory in the sonde filled up and caused it to stop reporting from **10/7 to 10/8**.

DOC at Banks, Jones and Gianelli Stations:



Bromide and EC at Banks, Jones, and Gianelli:

