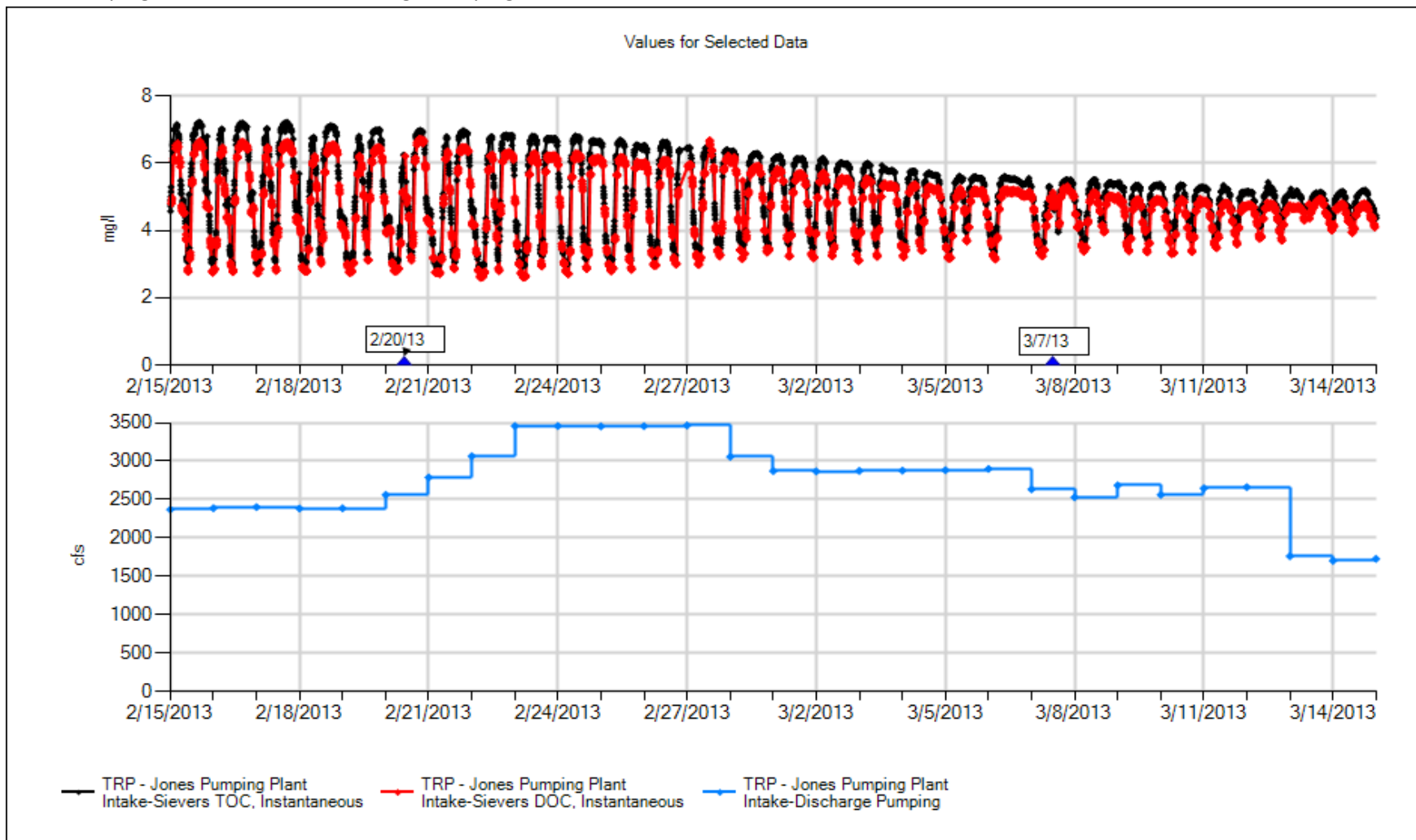


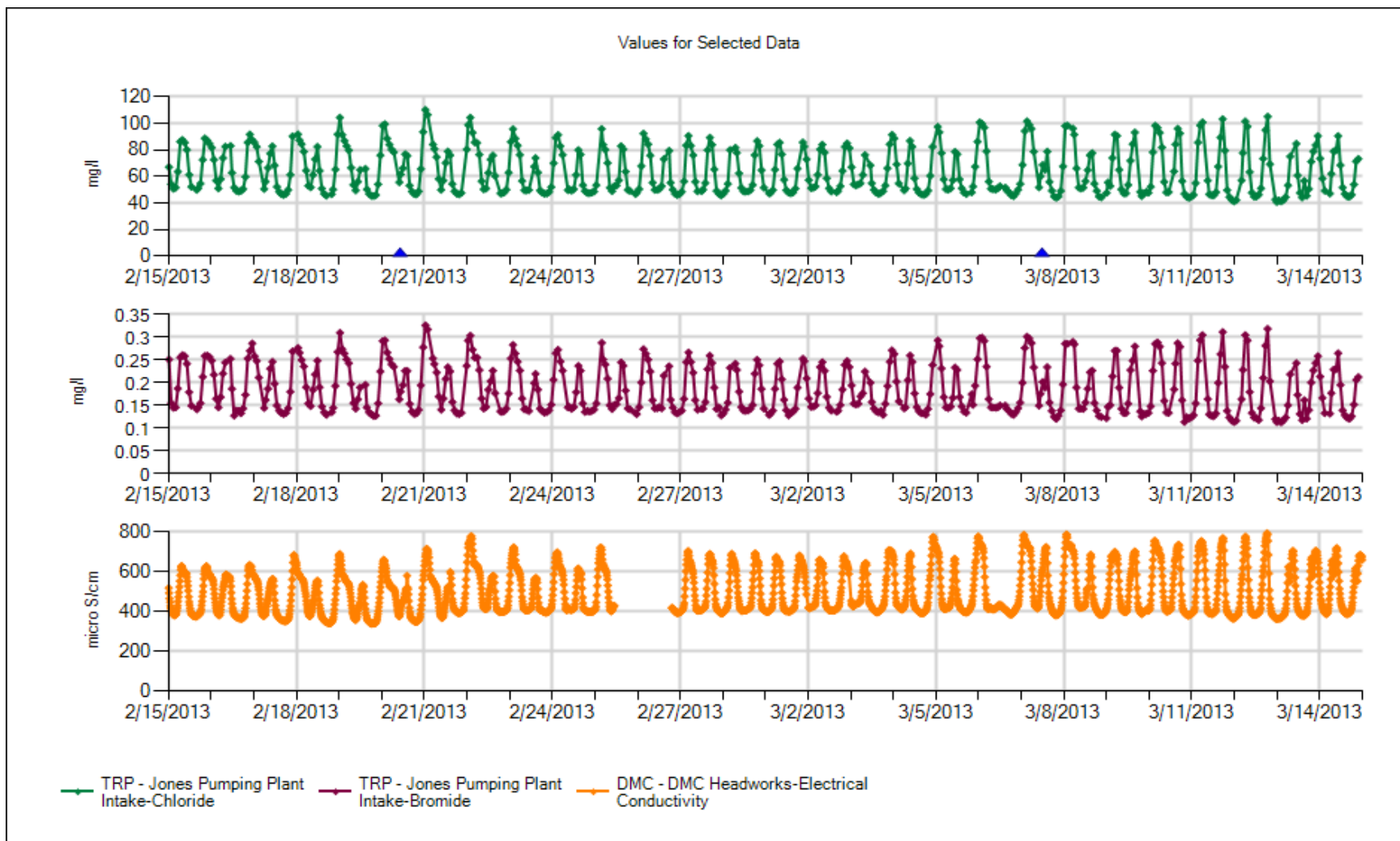
Jones Pumping Plant Carbon and Discharge Pumping



2/20/13 – Delivery system filter change

3/7/13 – Delivery system filter change

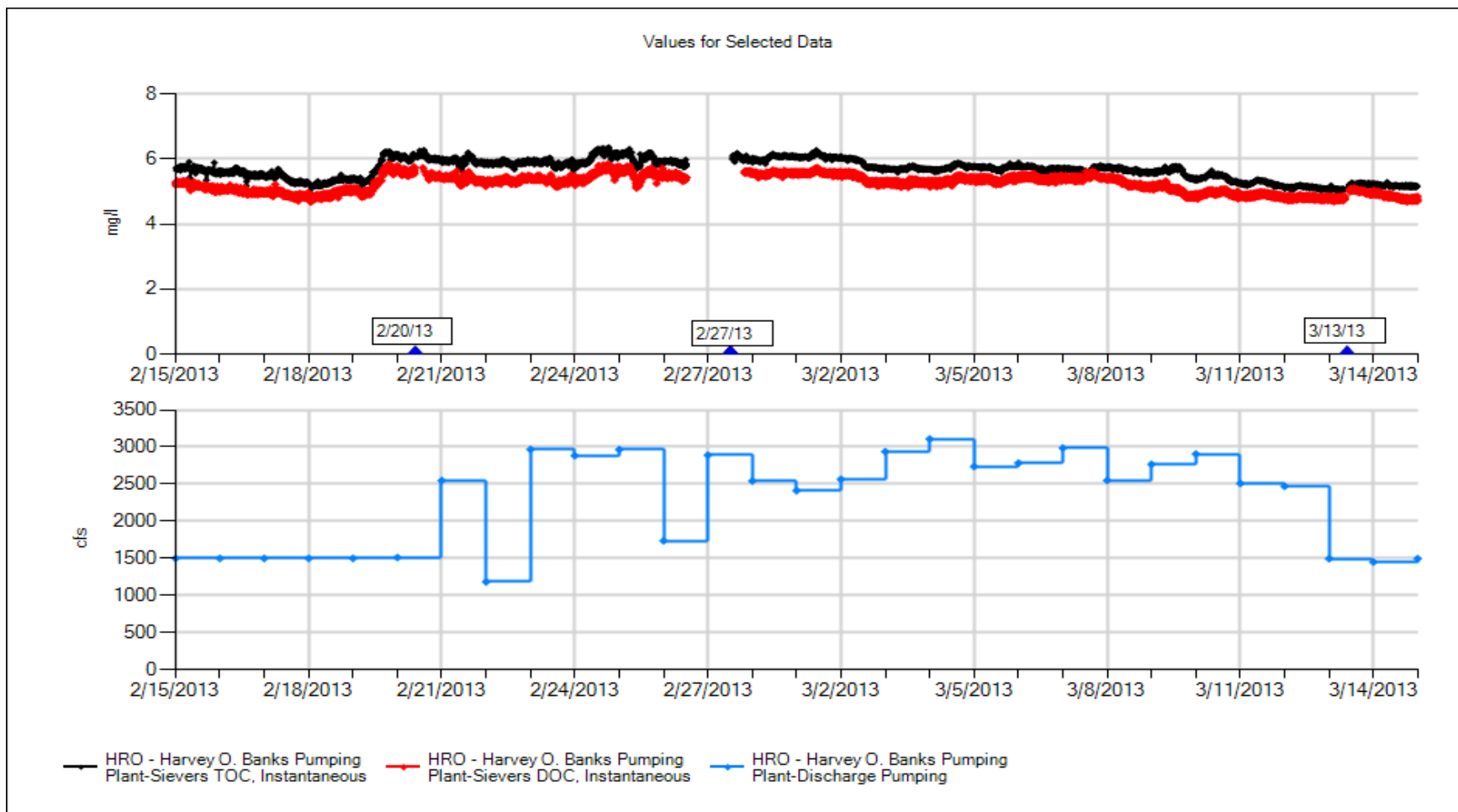
Jones Pumping Plant Selected Anions and EC



2/20/13 – Delivery system filter change

3/7/13 – Delivery system Filter Change

Banks Pumping Plant Carbon and Discharge Pumping

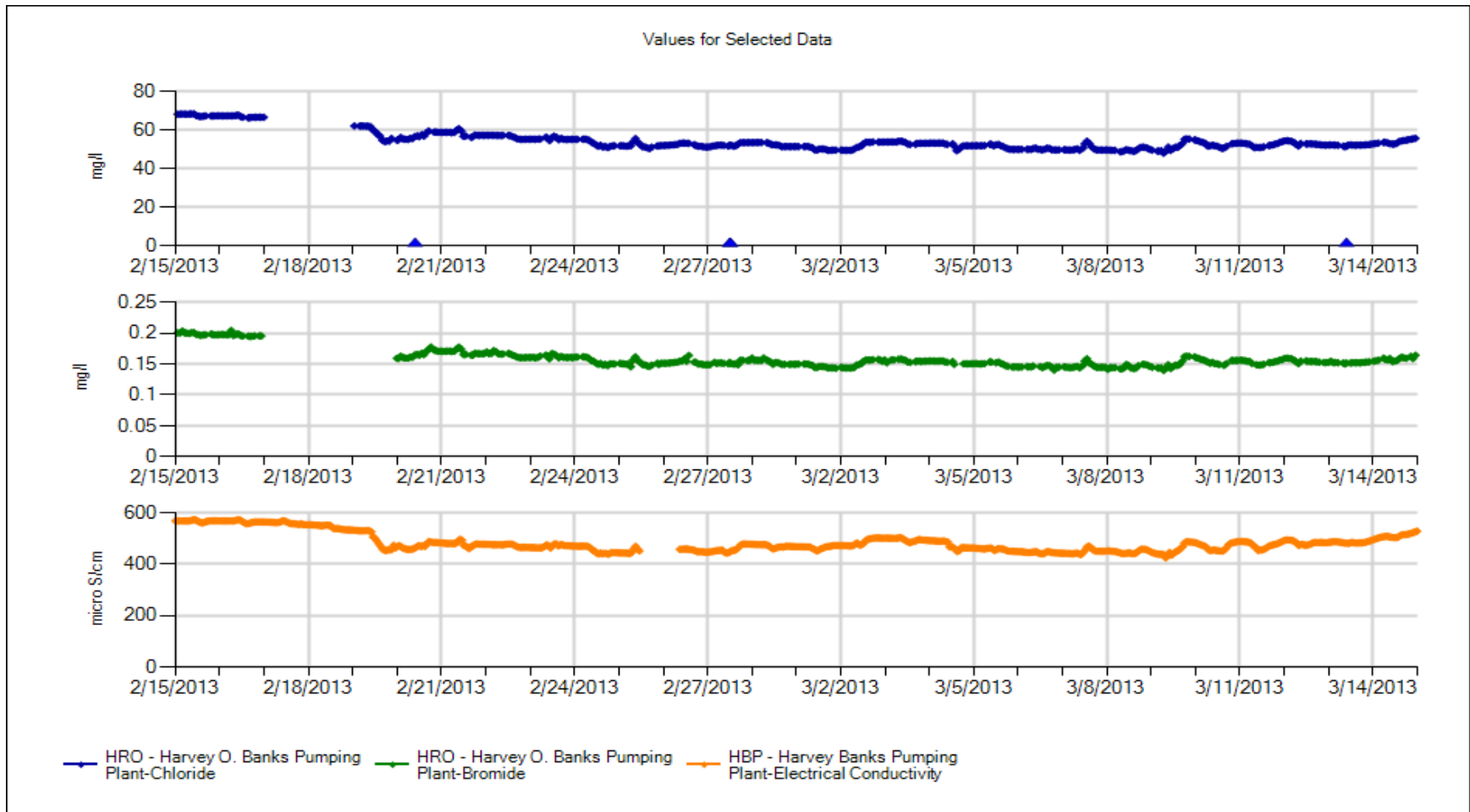


2/20/13 – Delivery system filter change.

2/27/13 – Delivery system filter change. A clog issue on the Sievers was resolved.

3/13/13 – Delivery system filter change.

Banks Pumping Plant Selected Anions and EC

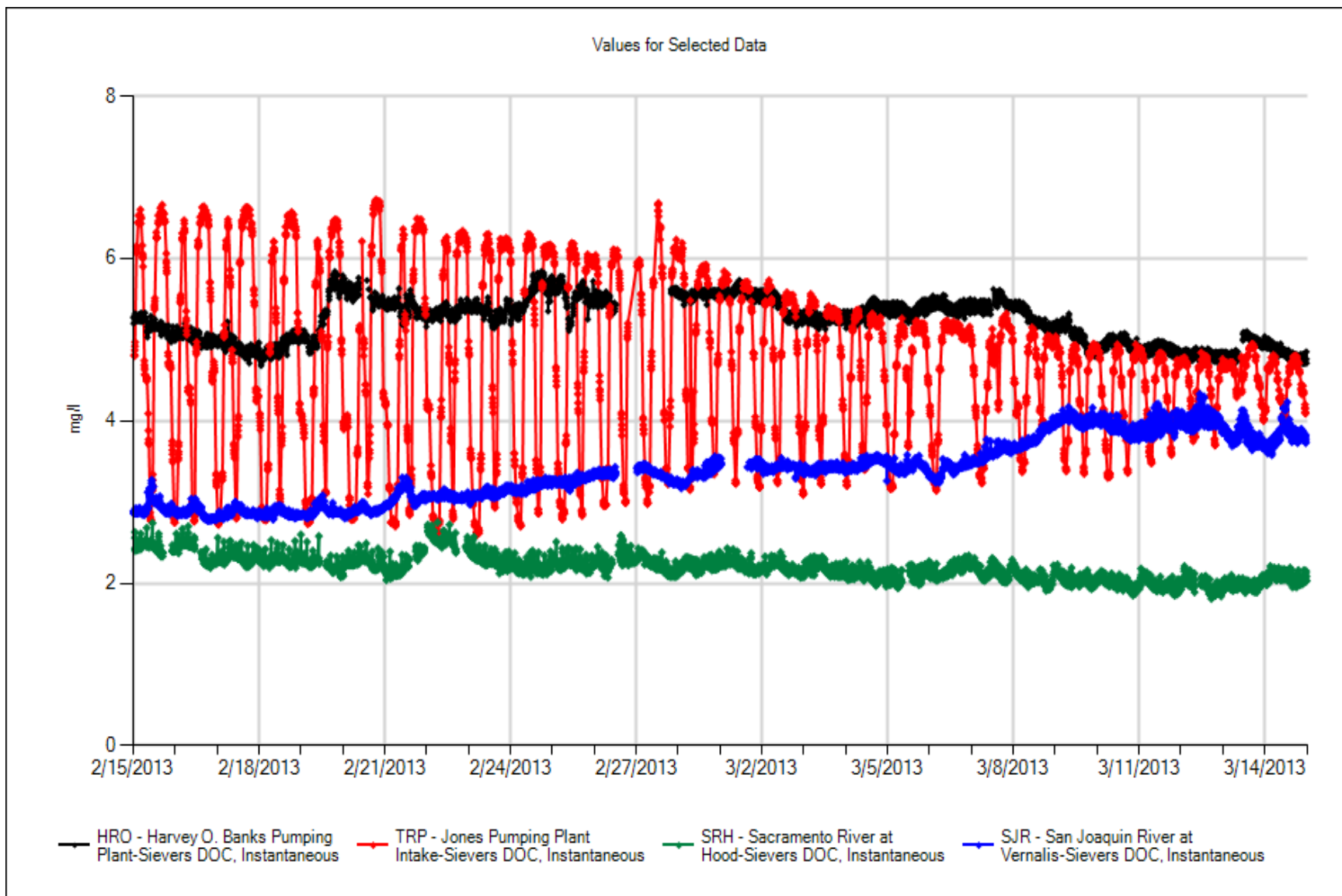


2/20/13 – Delivery system filter change

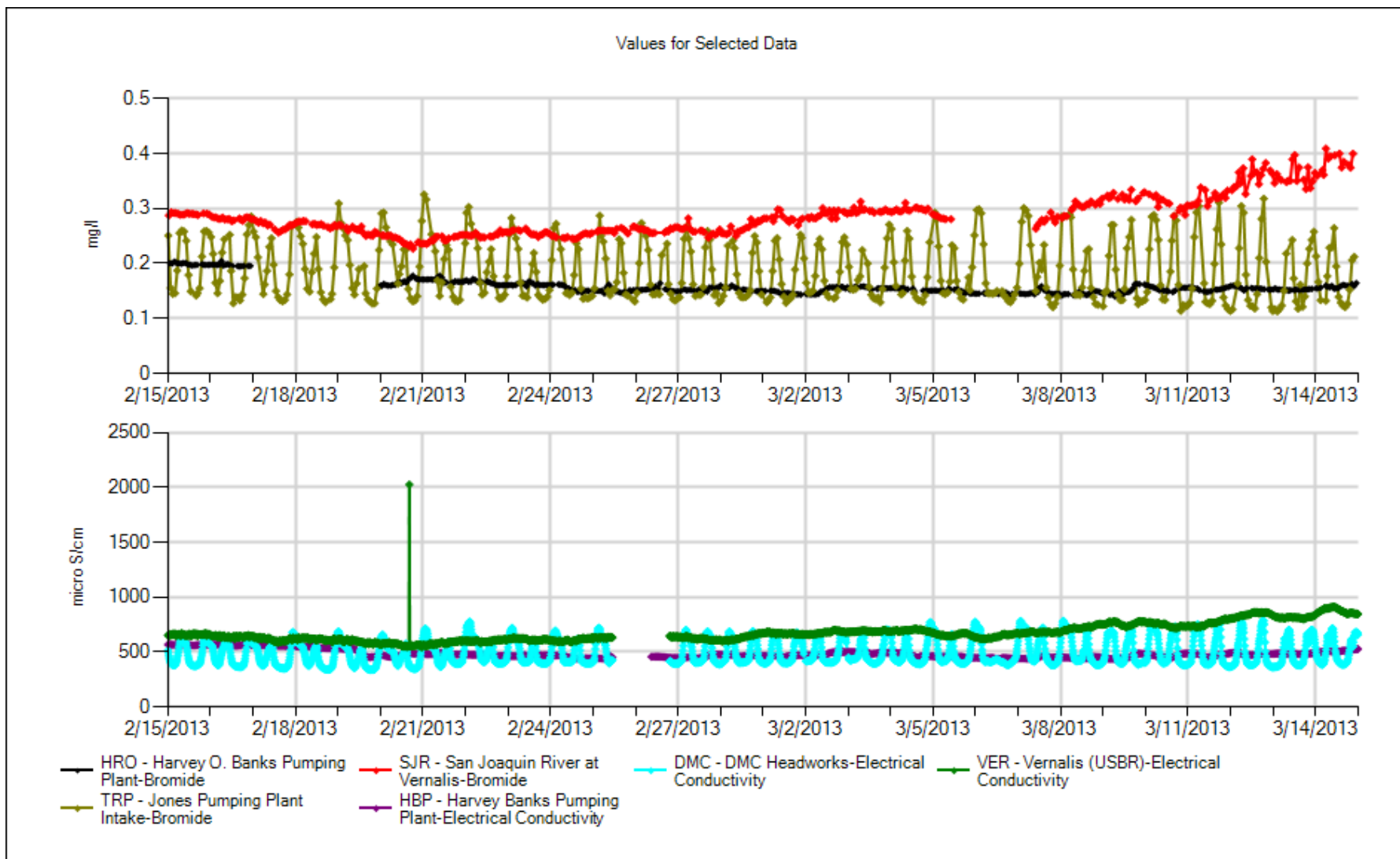
2/27/13 – Delivery system filter change

3/13/13 – Delivery system filter change

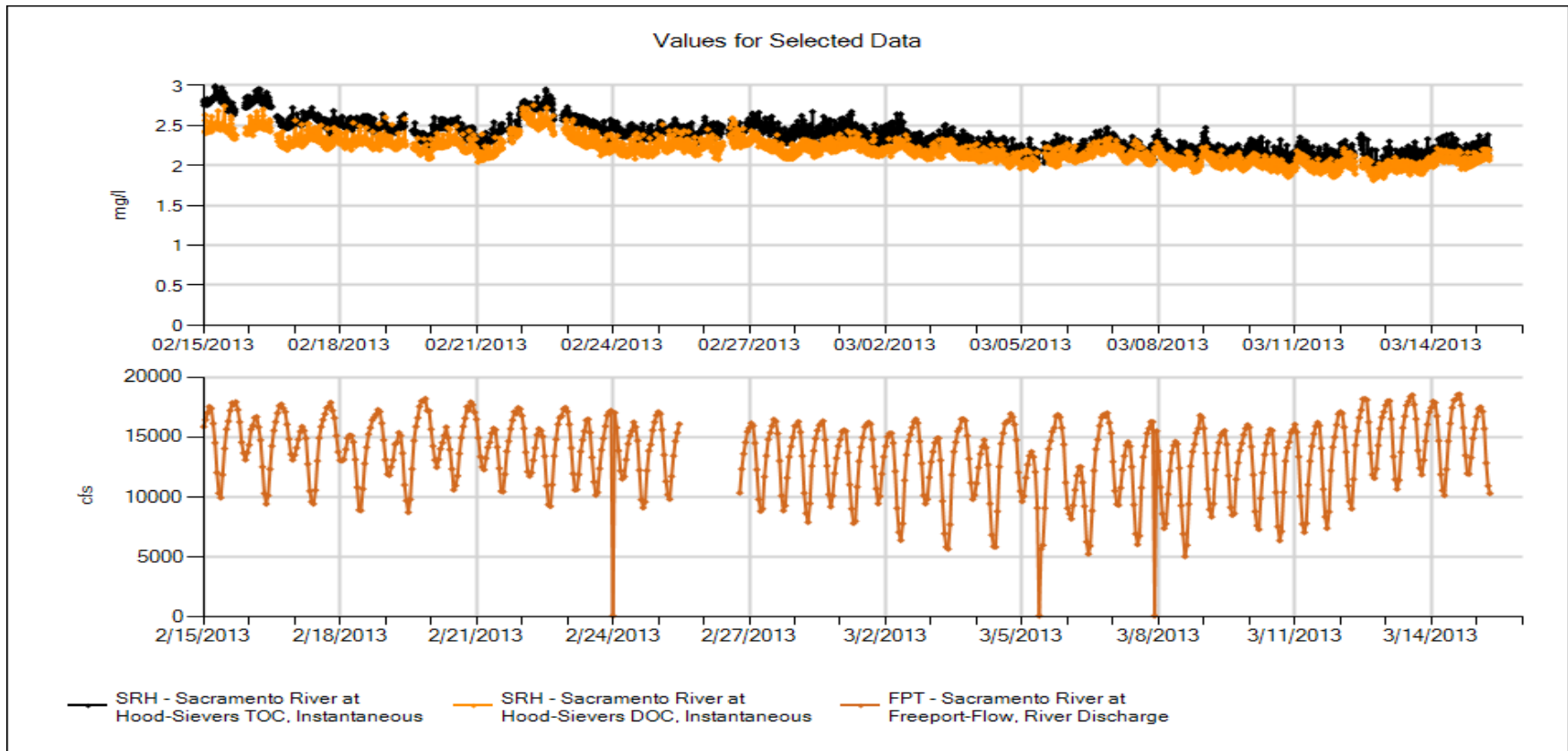
Doc at Banks, Jones Hood and Vernalis



Bromide and EC at Banks, Jones and Vernalis



Hood organic carbon and river flow, Feb. 15 – Mar. 15



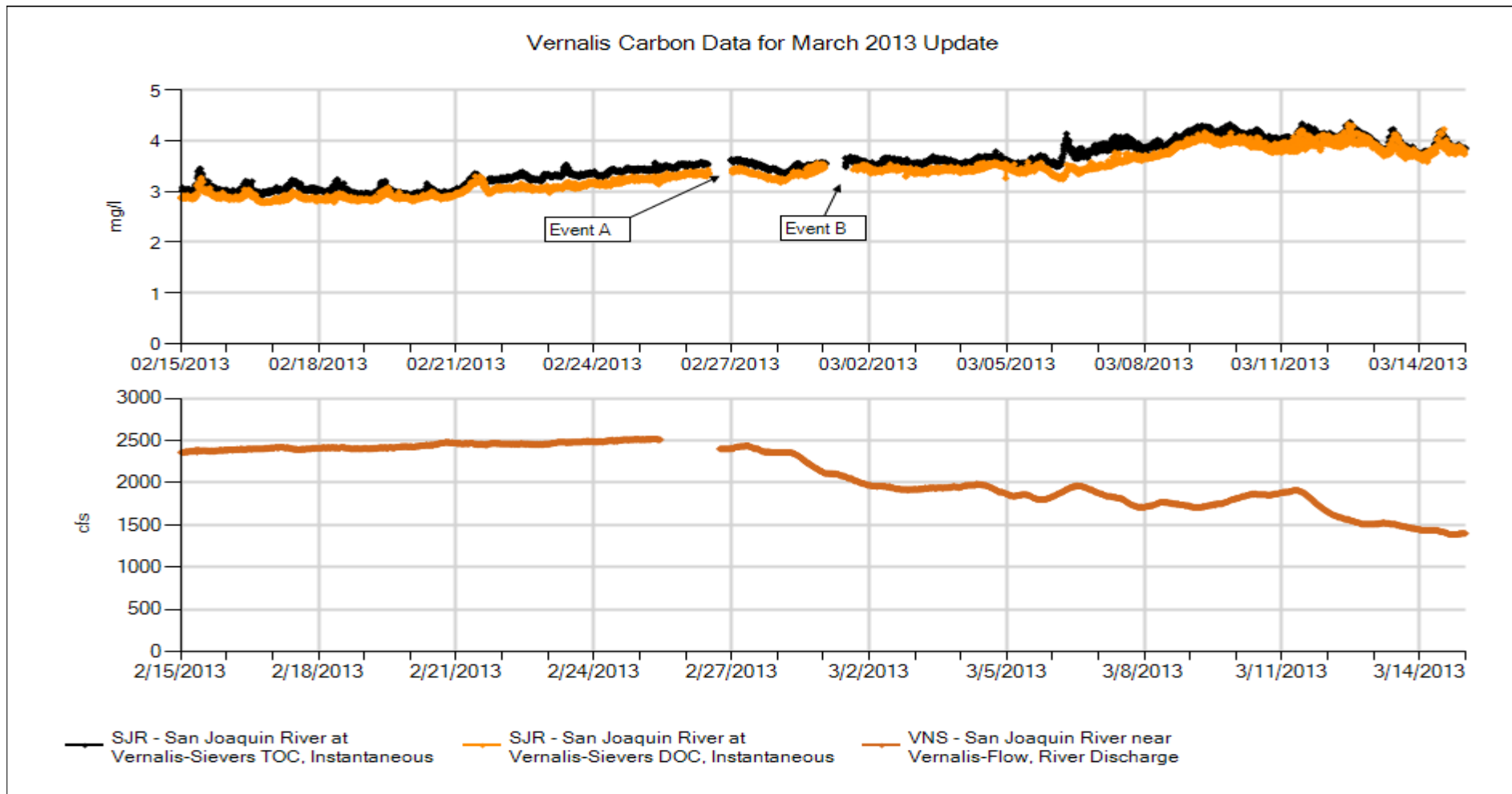
Significant events:

2/21 – Filter change

2/26 – Filter change and quality control check on the TOC analyzer

3/5 – Filter change

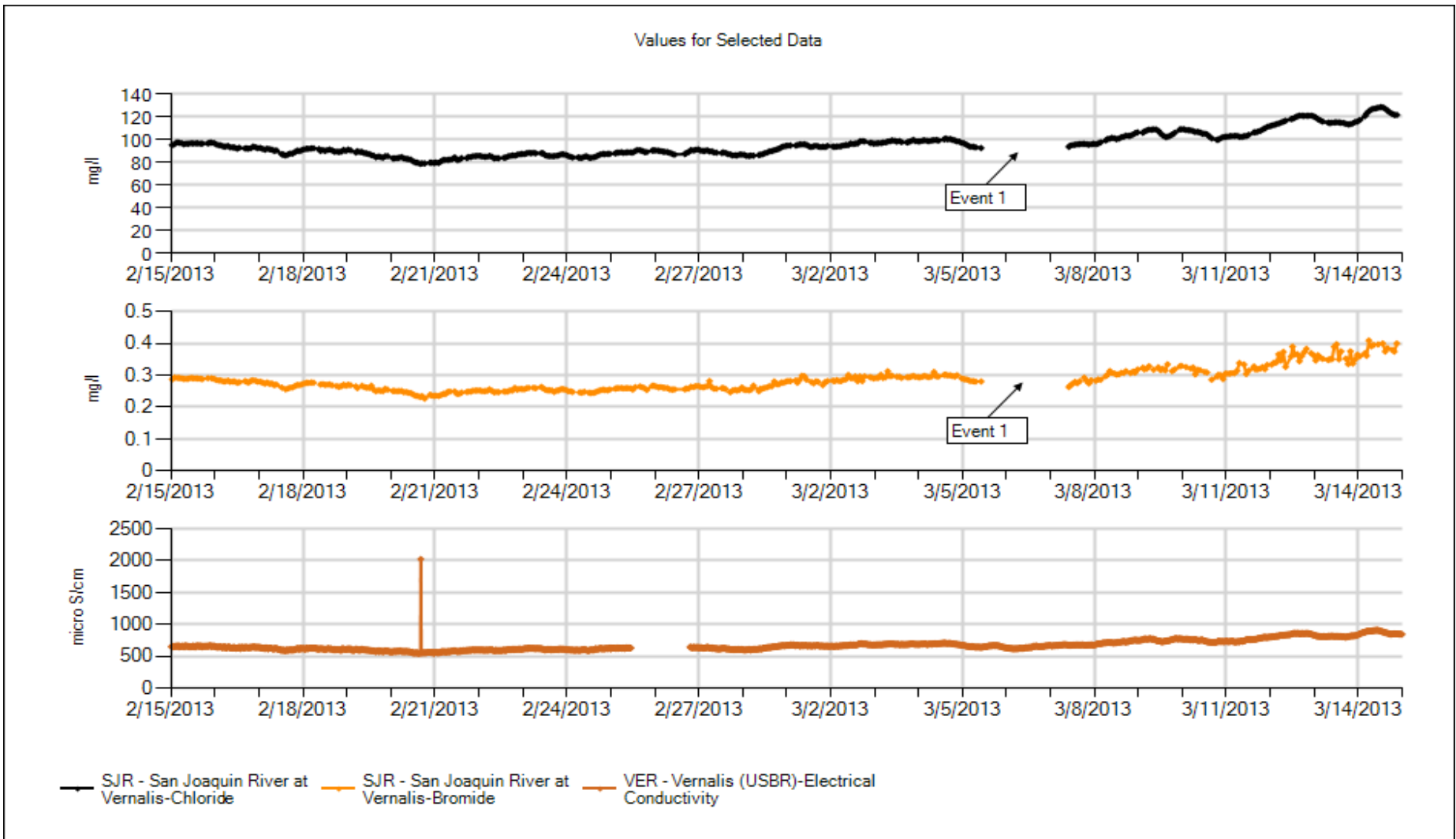
3/12 – Filter change and quality control check on the TOC analyzer



Event A: There was a clog in the IOS delivery system. The internal lines were cleaned out. This procedure is now part of regular maintenance.

Event B: The data is logged on Indigo. I can't explain why it is not included in the Data Utility.

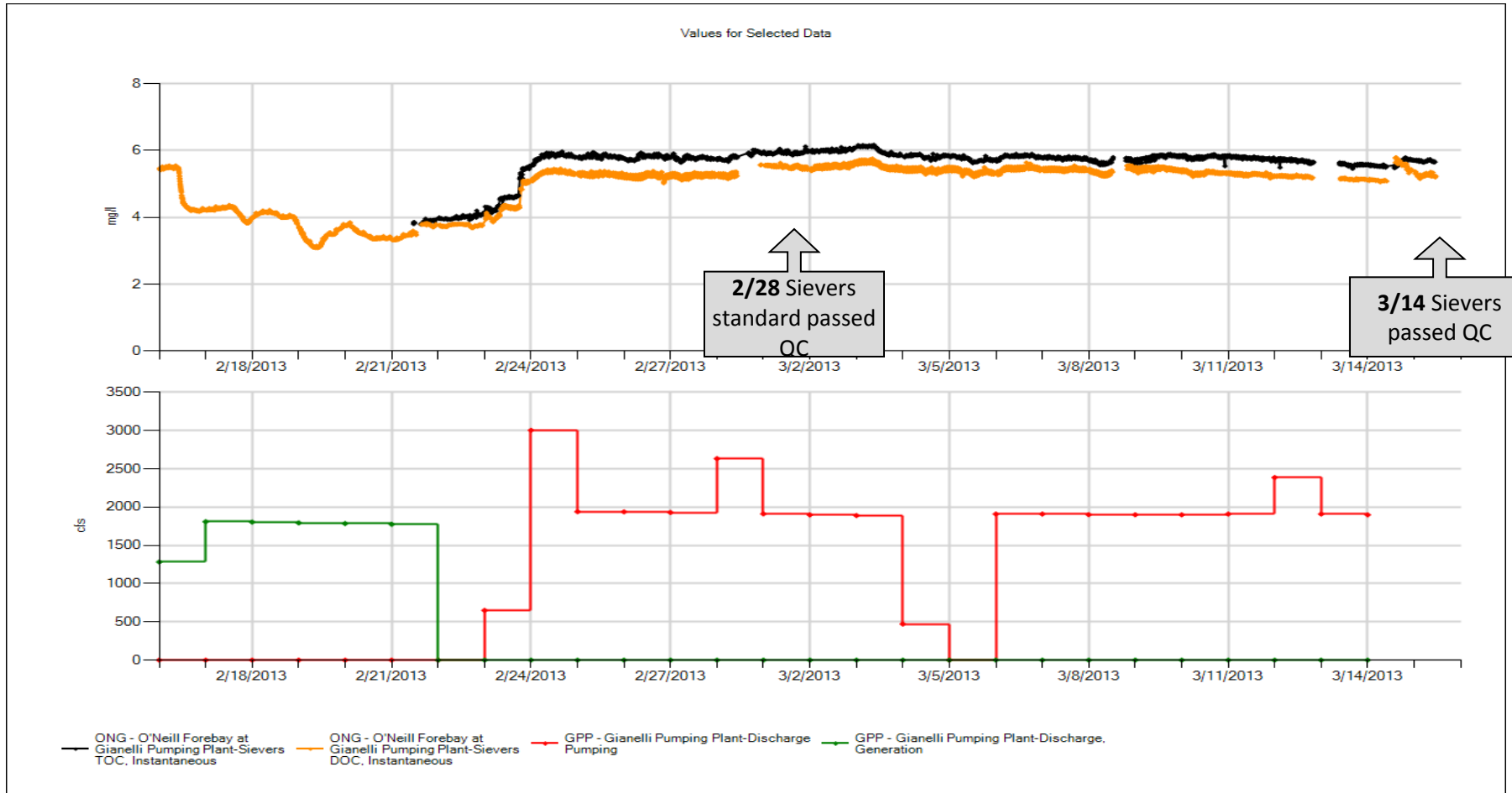
Filter changes: 2/21, 2/27, 3/5, 3/15



Event 1: Leak in the eluent line on 3/5, but needed a replacement part. On 3/7, the line was shortened/replaced by using a coupler.

Filter changes: 2/21, 2/27, 3/5, 3/15

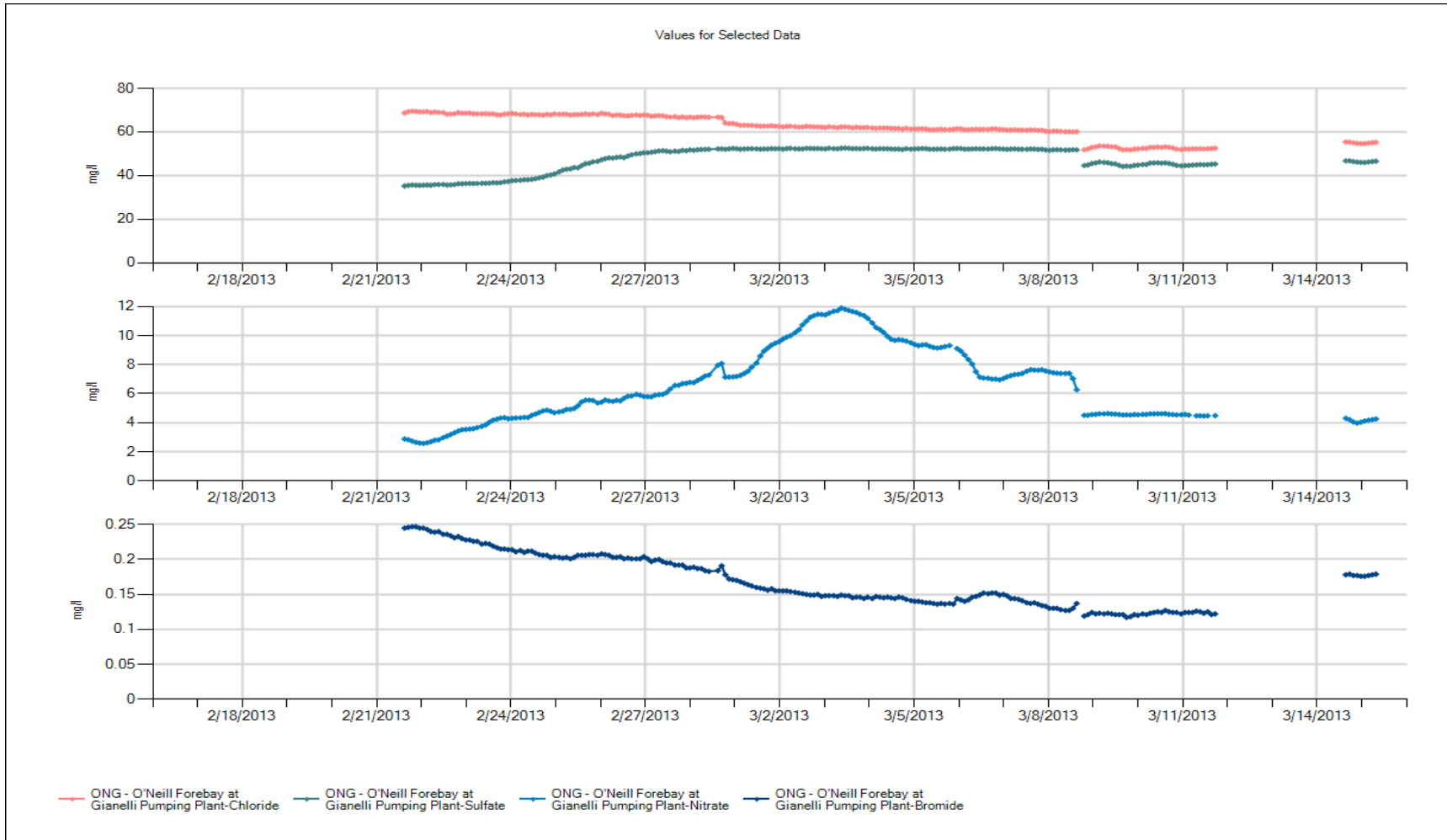
Gianelli Organic Carbon and Pumping/Generating:



Gianelli Significant Sievers Events: Feb 15, 2013 – Mar 14, 2013

➤ StreamWalker was stuck on DOC stream after power outages on 2/14. Computer lost connection from 3/12 – 3/13. Analysis continued during this time, but the data will need to be manually uploaded from the instrument.

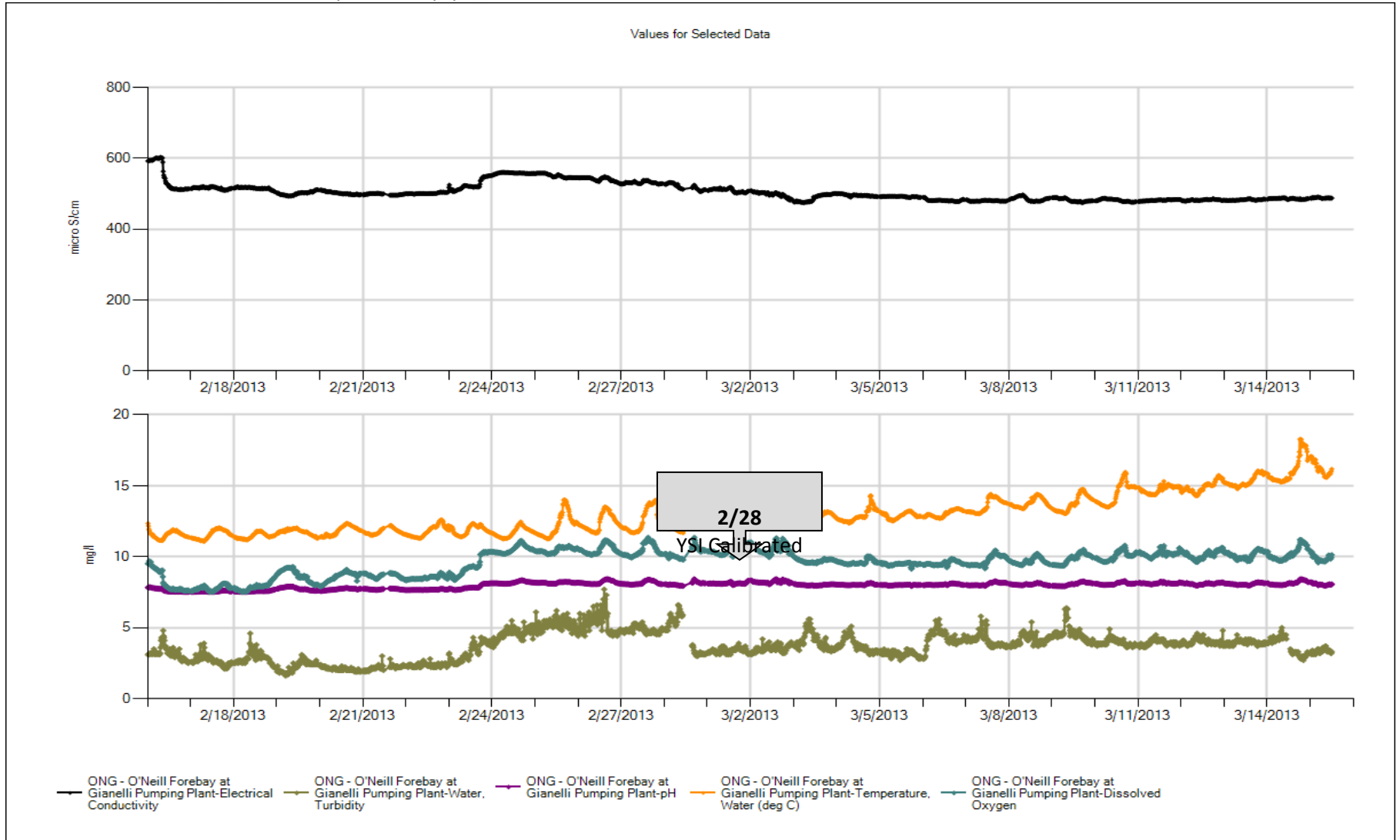
Gianelli Anions (Chloride, Sulfate, Nitrate, & Bromide):



Gianelli Significant Metrohm Events: Feb 15, 2013 – Mar 14, 2013 During the power outages from 2/11 – 2/14, the Metrohm pulled air into the system which caused errors from 2/14 – 2/21.

- Possibly high readings for nitrate from 2/28 – 3-8, due to fouling of the 0.45µm filter.
- Errant readings from 3/12 – 3/14, due to either air in the injection coil or decreased capacity in the guard column (both were fixed at the same time).

Gianelli Sonde (EC, DO, Temp, Turbidity, pH):



Gianelli Significant Sonde Events: Feb 15, 2013 – Mar 14, 2013