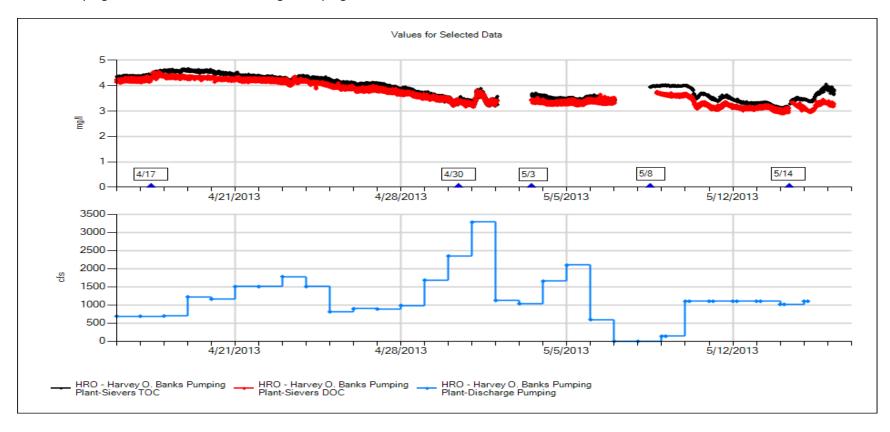
### Banks Pumping Plant TOC, DOC and Discharge Pumping



4/17/2013 – Delivery system filters changed.

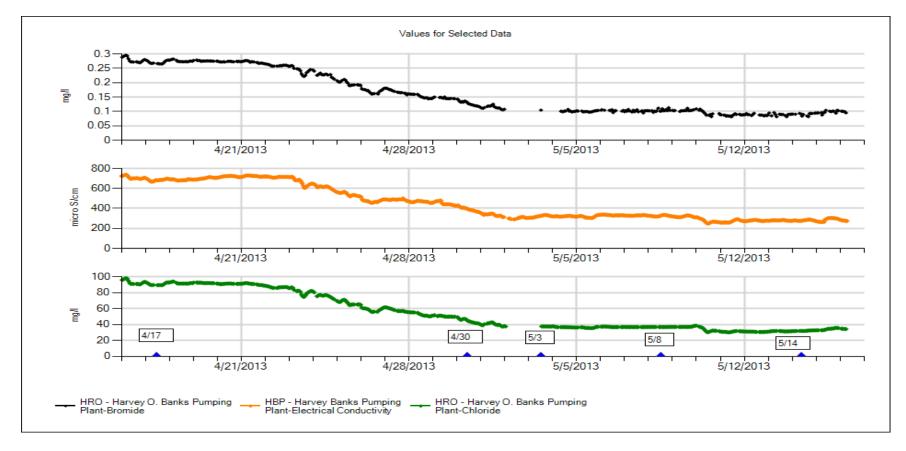
4/30/2013 - Delivery system filters changed.

5/3/2013 – The carbon unit developed an internal clog. All of the sample inlet lines were removed and flushed. The clogged line could not be cleared so it was replaced.

5/8/2013 - Delivery system filters changed.

5/14/2013 - Delivery system filters changed and lines cleaned.

### Banks Pumping Plant Selected Anions and EC



4/17/2013 – Delivery system filters changed.

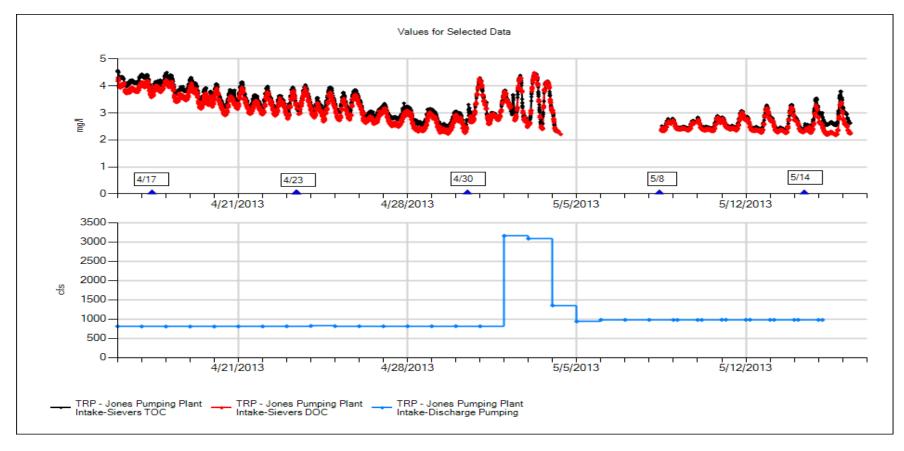
4/30/2013 - Delivery system filters changed.

5/3/2013 – The Dionex lost pressure while at the station. After some troubleshooting, the pressure was restored.

5/8/2013 - Delivery system filters changed.

5/14/2013 - Delivery system filters changed and lines cleaned.

## Jones Pumping Plant TOC, DOC and Discharge Pumping



4/17/2013 – Delivery system filters changed.

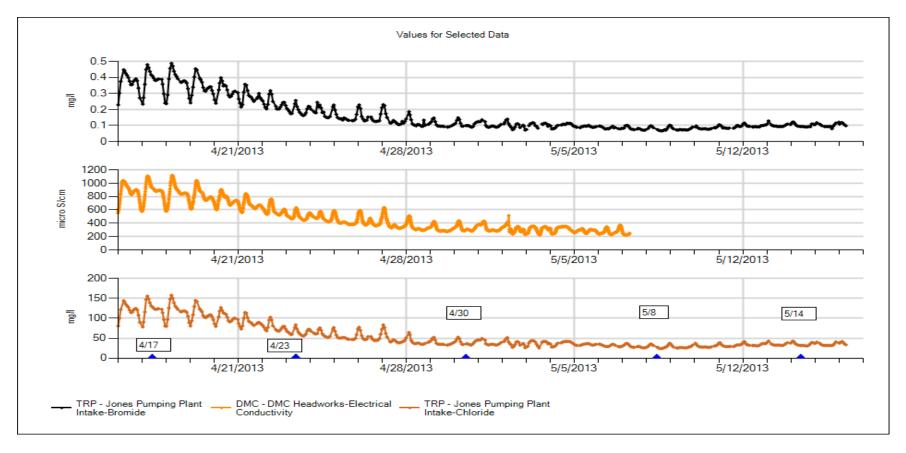
4/23/2013 – Delivery system filters changed.

4/30/2013 – Delivery system filters and tubing changed. Oxidizer replacement.

5/8/2013 – 100 um pre-filter changed. Cleaned and flushed StreamWalker lines. Flushed Sievers sample inlet lines.

5/14/2013 – Delivery system filters changed.

#### Jones Pumping Plant Selected Anions and EC



4/17/2013 – Delivery system filters changed.

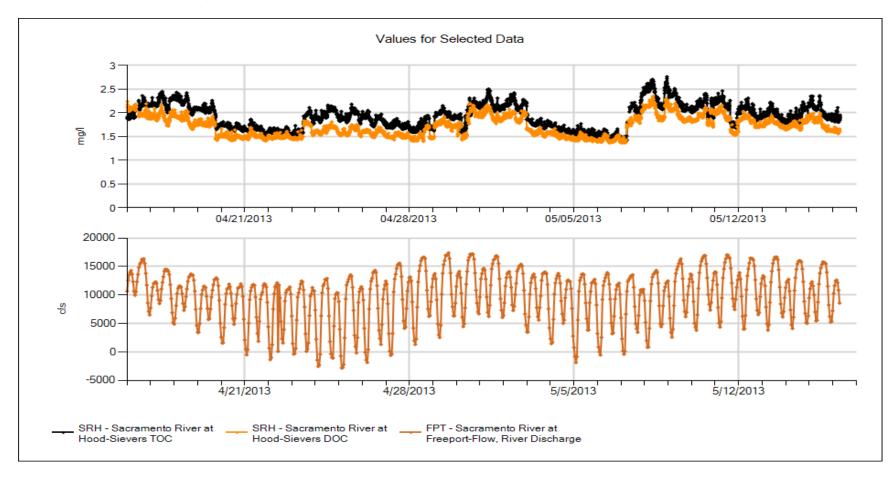
4/23/2013 – Delivery system filters changed.

4/30/2013 – Delivery system filters and tubing changed. The Sievers oxidizer was replaced.

5/8/2013 – 100 um pre-filter changed. Cleaned and flushed StreamWalker lines. Flushed Sievers sample inlet lines.

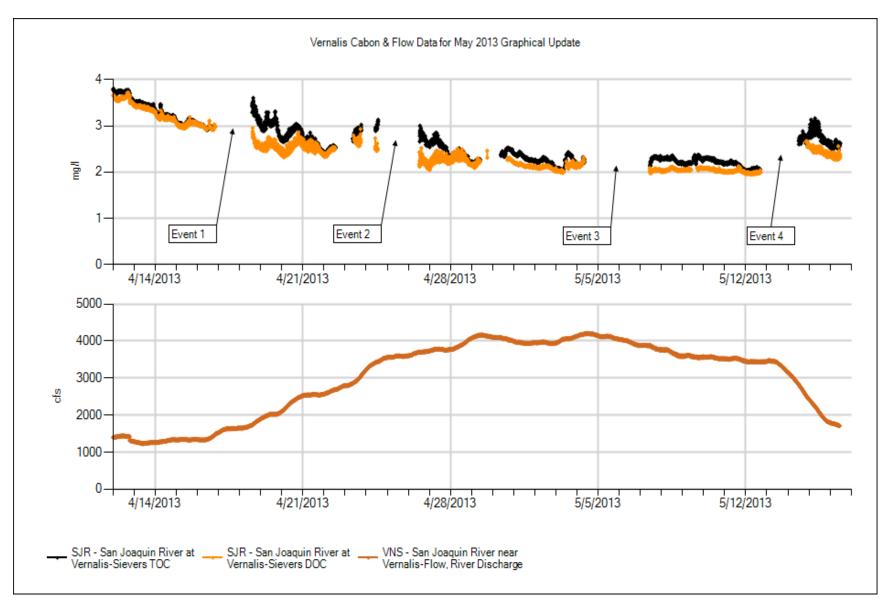
5/14/2013 – Delivery system filters changed.

#### Sacramento River at Hood: TOC, DOC and Flow

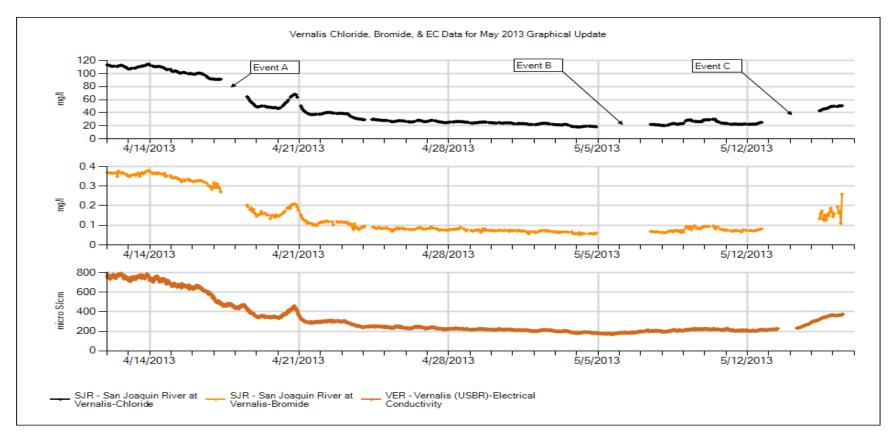


## Events from 4/16/2013 - 5/16/2013

- ➤ 4/23 filter change
- ➤ 4/30 filter change
- > 5/7 filter change. QC check was performed but resulted in erroneous data because the incorrect standard was being used. The correct standard has been ordered and is en route.
- > 5/14 filter change



#### Vernalis Selected Anions and EC



Filter changes occurred on: 4/18, 4/23, 4/24, 4/26, 4/30, 5/3, 5/7, 5/9, 5/14. Outages due to clogged filters created most data gaps.

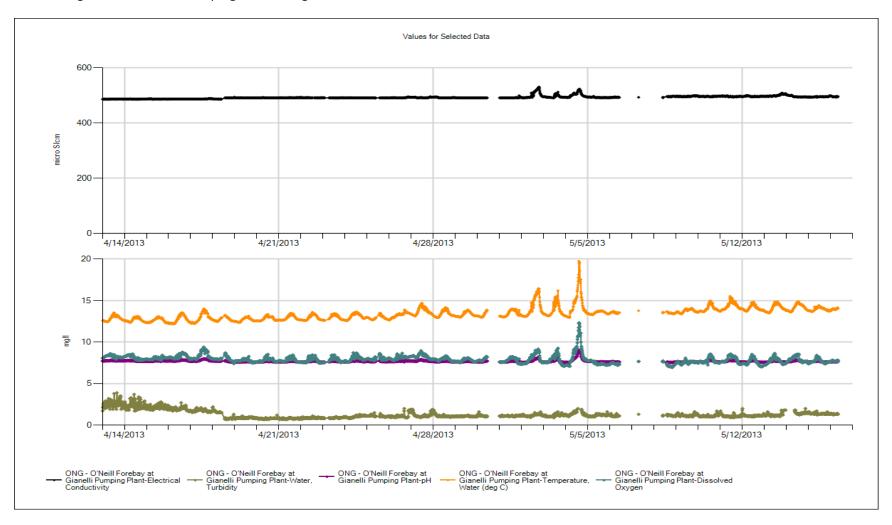
Events 1 & A were due to a bad pump motor.

Event 2 and the outages just before it were due to filter clogging and then "Error 57 Oxidizer syringe" errors on the 24<sup>th</sup> and 25<sup>th</sup>.

Events 3 & B were due to clogged filters.

Events 4 & C were due to a power outage.

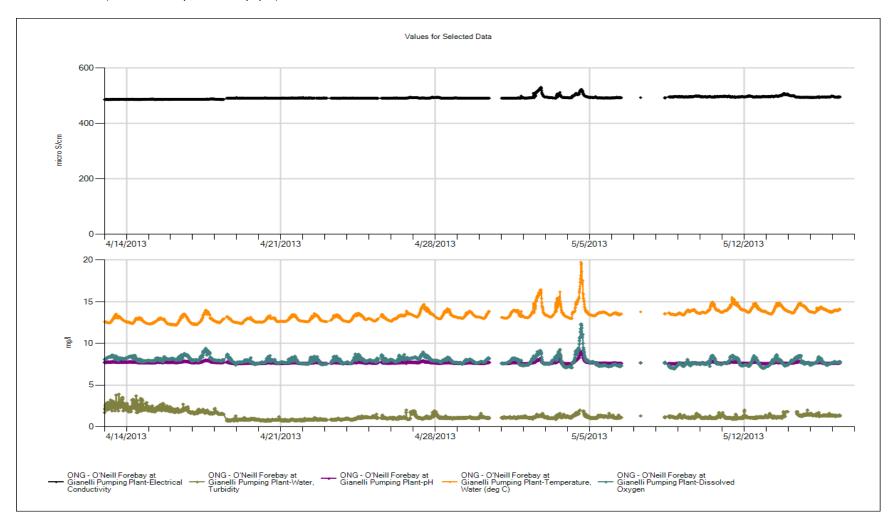
### Gianelli Organic Carbon and Pumping/Generating:



# Gianelli Significant Sievers Events: Apr 13, 2013 – May 16, 2013

- ➤ Air bubble in oxidizer syringe caused turbulent DOC values from 4/5 until 4/25.
- Passed QC on 4/25 and 5/8.
- > Lost computer connection from 4/22 to 4/23.

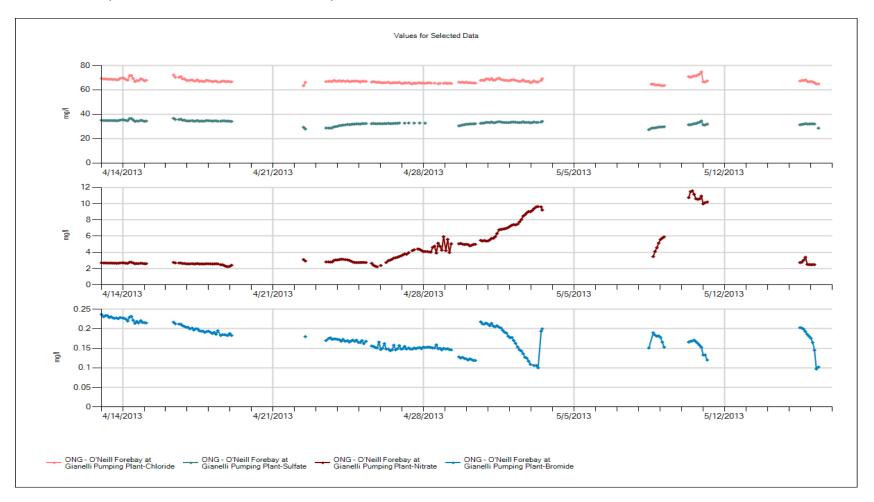
#### Gianelli Sonde (EC, DO, Temp, Turbidity, pH):



# Gianelli Significant Sonde Events: Apr 13, 2013 – May 16, 2013

- > Calibrated on 4/18.
- ➤ Lost computer connection **4/30** and from **5/6** to **5/8**. Data will need to be backfilled.

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



# Gianelli Significant Metrohm Events: Apr 13, 2013 – May 16, 2013

- > The Metrohm shut down due to high pressure from 4/15 to 4/16.
- Instrument lost communication with a periphery device and shut down from 4/19 to 4/23, 5/4 to 5/8, 5/9 to 5/10, and 5/11 to 5/15.
- > Errors in peak analysis caused errant readings for sulfate from 4/29 to 4/30.
- ➤ High nitrate values from 4/26 to 5/15 could be due to filter clogging.

#### DOC at all Stations

