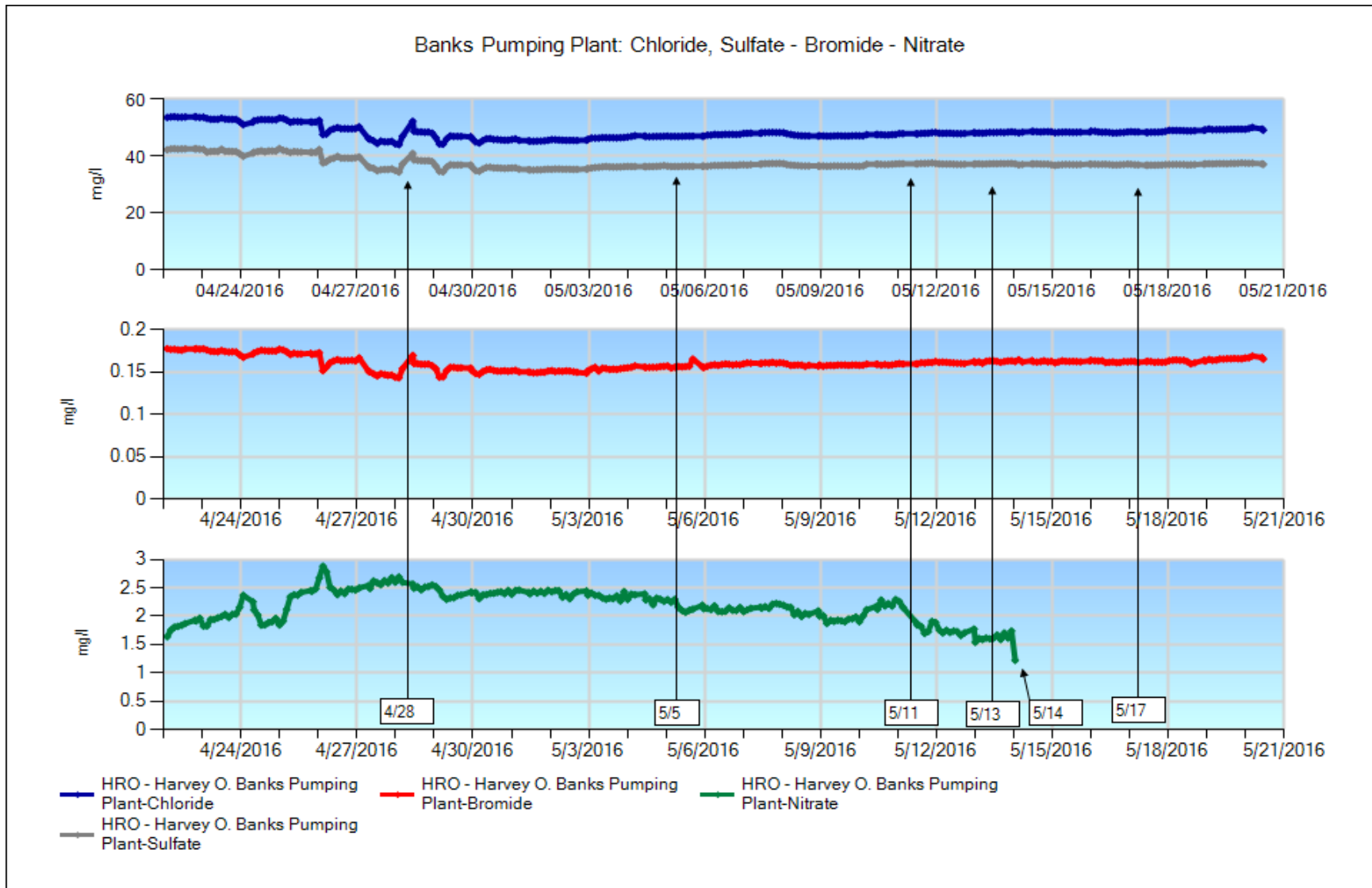
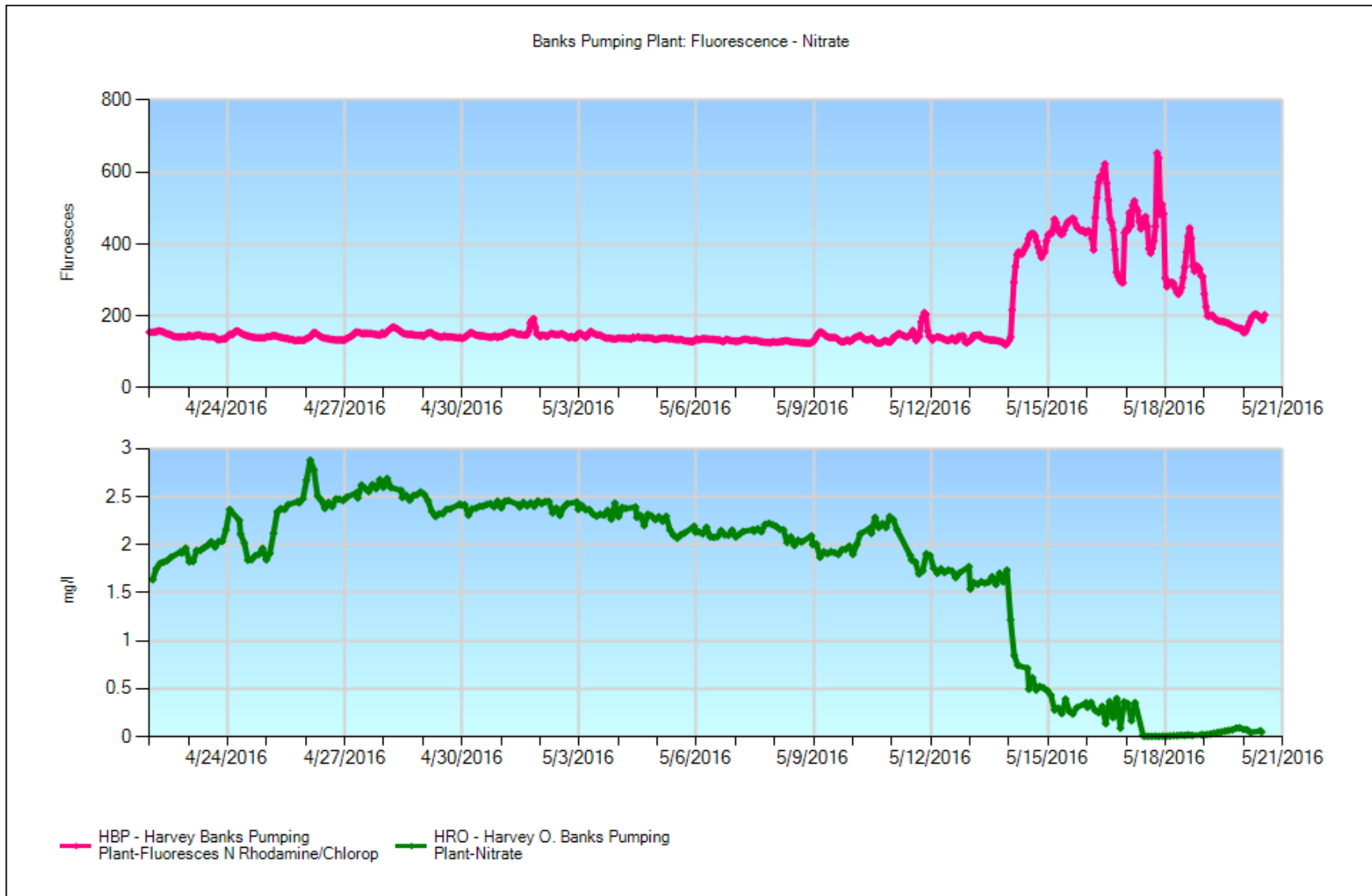


4/28: Changed all delivery system filters, analyzed all QC samples **5/5:** Changed all delivery system filters **5/11:** Changed the 100 and 0.45 μ m filters, replaced all delivery system lines, replaced organic carbon analyzer oxidizer, analyzed all QC samples **5/12:** DOC troubleshooting - reporting values equal to TOC, did not separate over normal filter break-in period, checked system, appears OK **5/13:** DOC troubleshooting continued - re-checked valves, replaced 0.45 μ m filter, TOC-DOC separation obtained, DOC not reporting **5/17:** Restarted Indigo (organic carbon) software, DOC began reporting, changed all delivery system filters

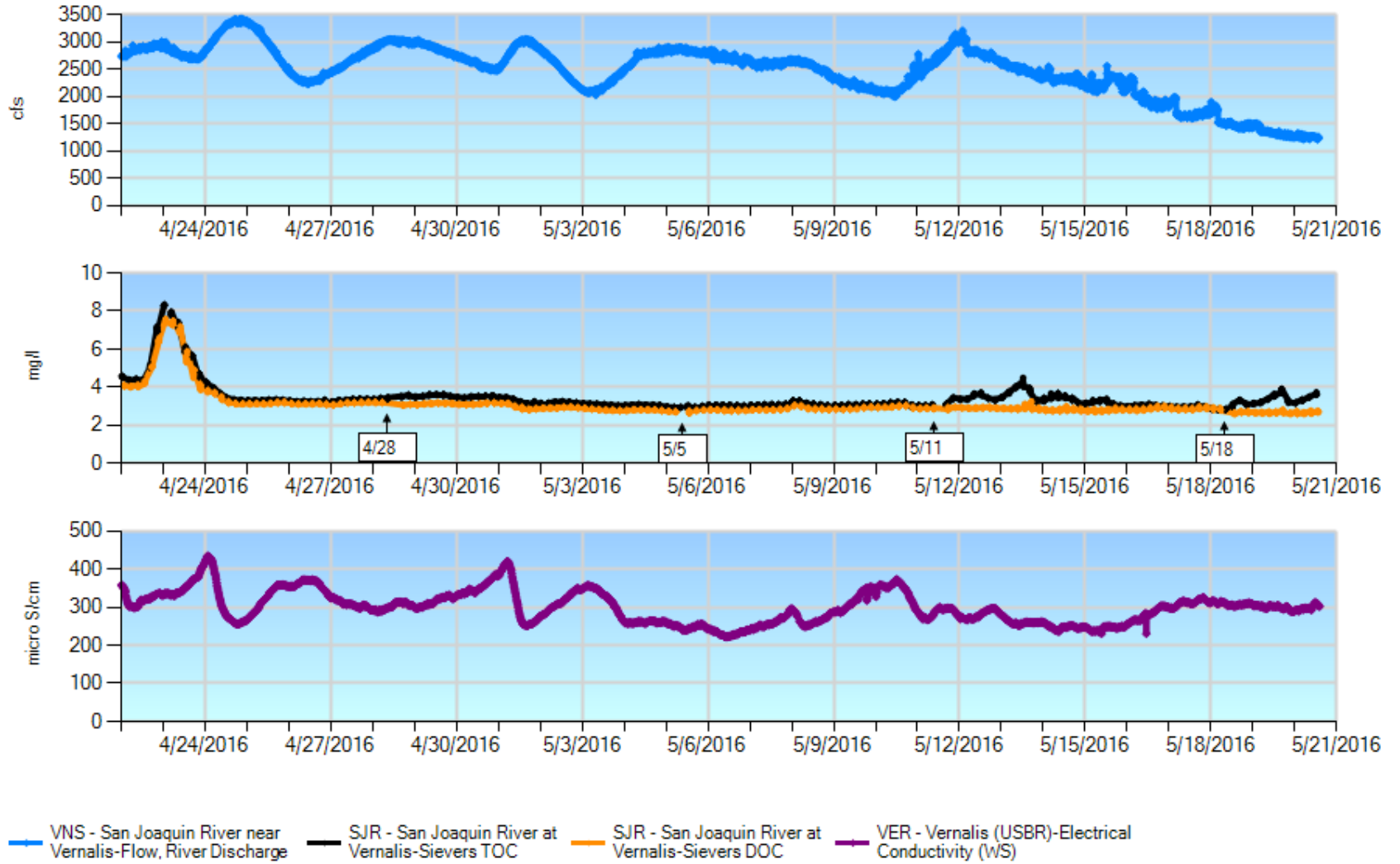


4/28: Changed all delivery system filters, analyzed all QC samples
5/5: Changed all delivery system filters
5/11: Changed the 100 and 0.45 uM filters, replaced all delivery system lines, replaced organic carbon analyzer oxidizer, analyzed all QC samples
5/13: Replaced 0.45 uM filter
5/14: Skinner Fish Facility down, no flow for five days
5/17: Changed all delivery system filters

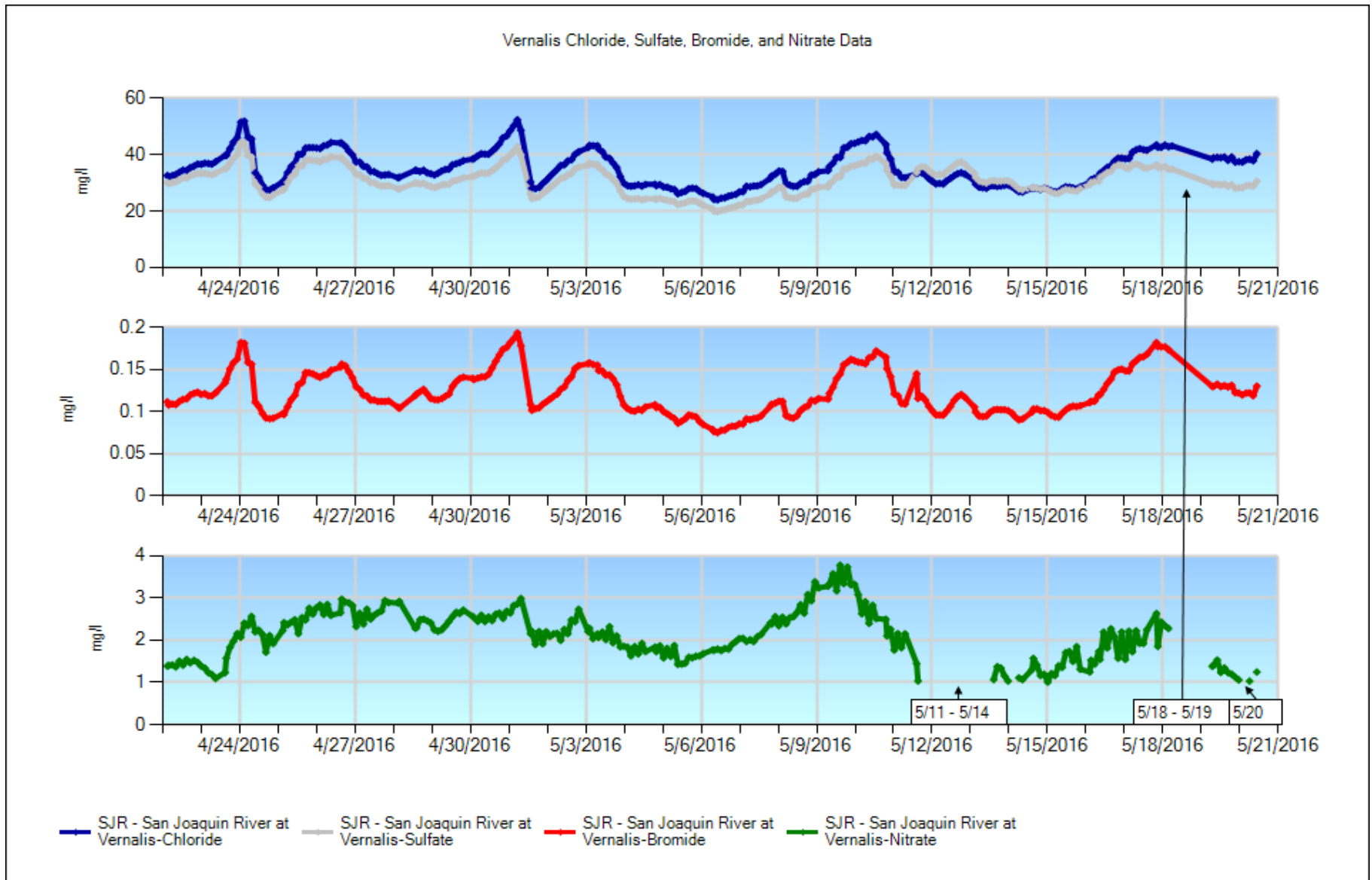


5/14: Skinner Fish Facility work started on the 14th and initial flow limitation was 5650 cfs. There will be a complete shutdown of Banks from 5/23 to 5/27, five full days of zero flow.

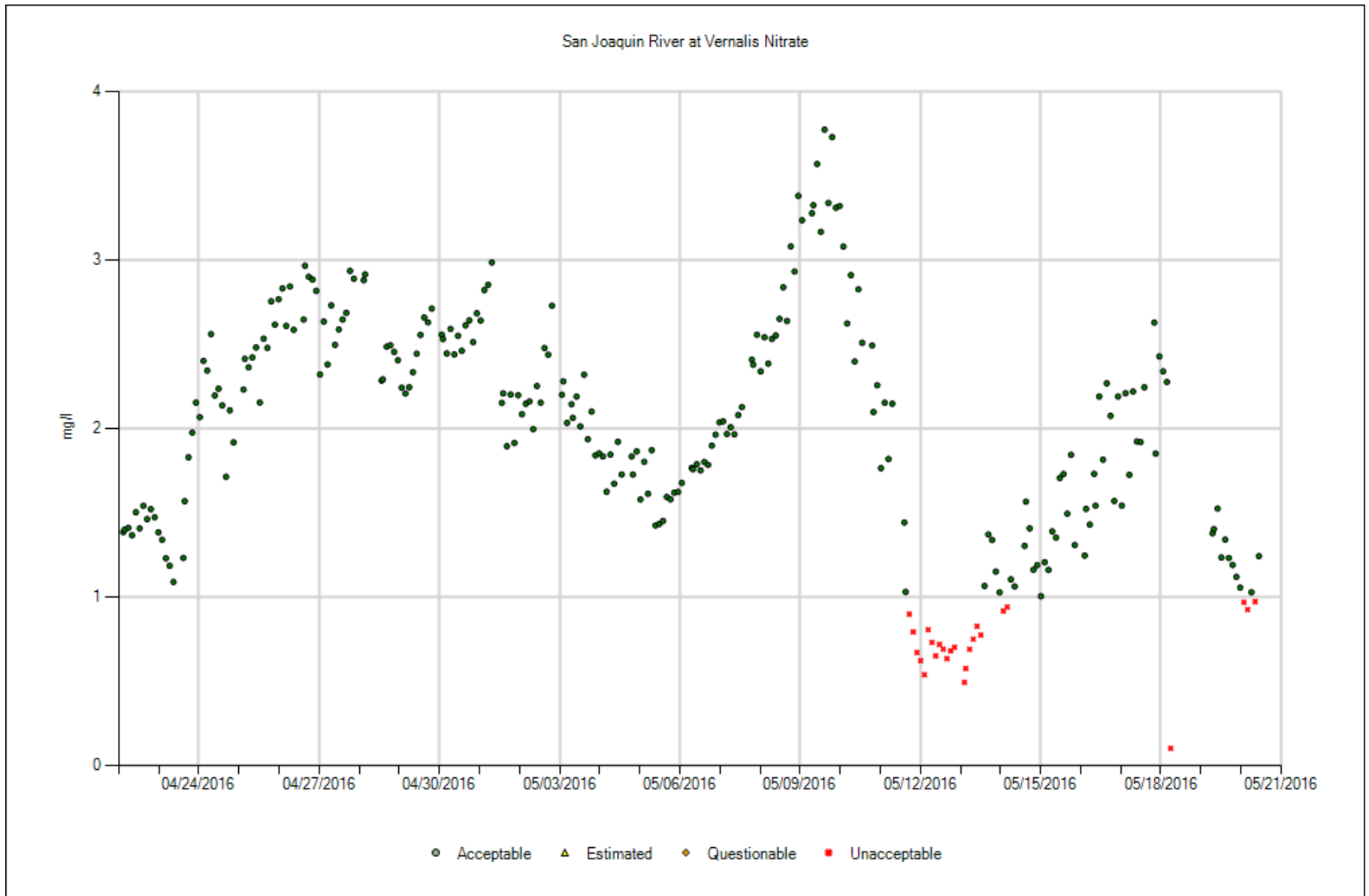
Vernalis Flow, Organic Carbon, and Electrical Conductivity Data



Filter Changes: 4/20, 5/11, 5/18 = Prefilters only. 4/28, 5/5, 5/11 = All filters. Events: 4/28 = QC. 5/11 = QC.

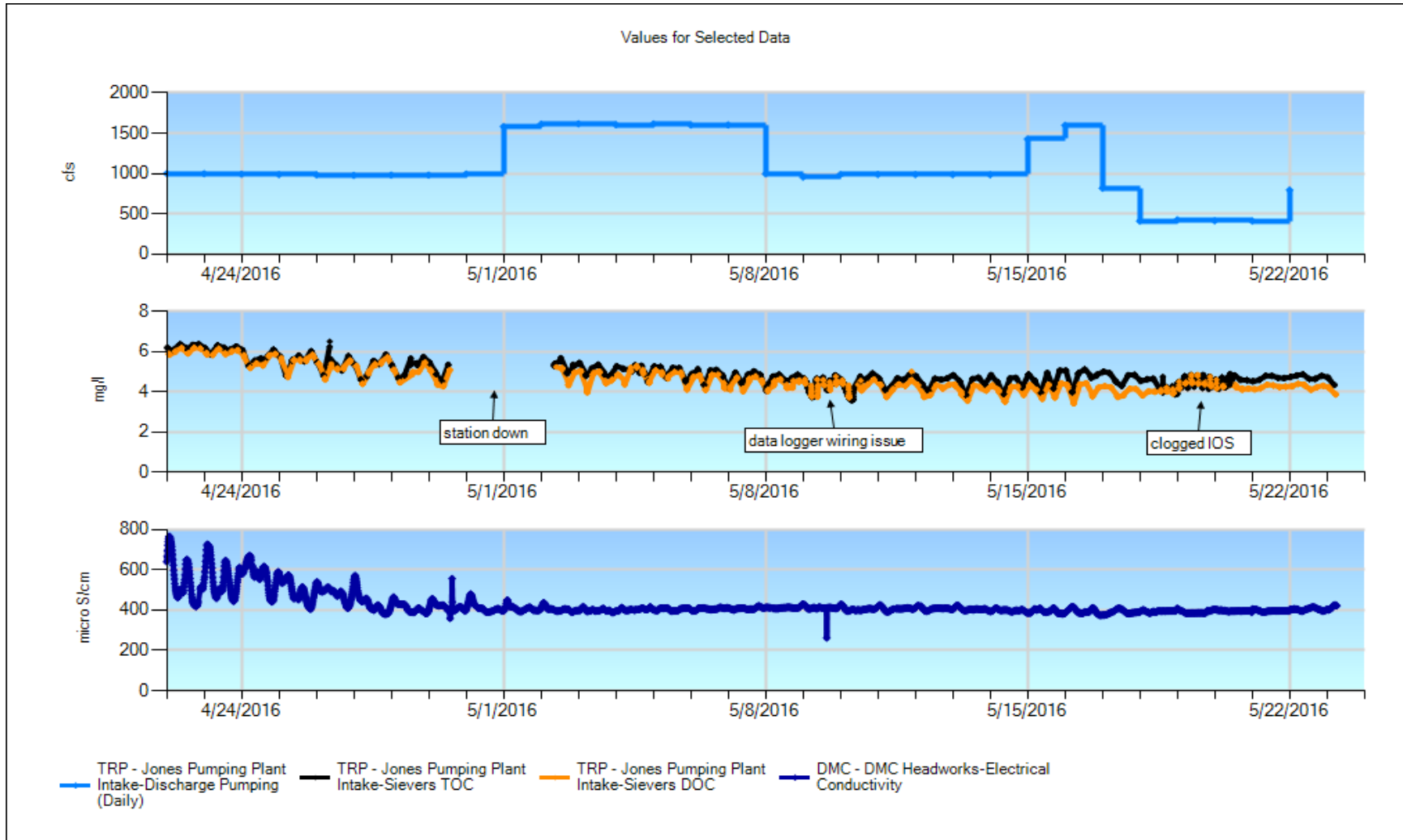


Events: 5/11 – 5/14 & 5/20 = Nitrate levels fall below reporting limit. 5/18 – 5/19 = Guard and Analytical column change on the Dionex, followed by a calibration.



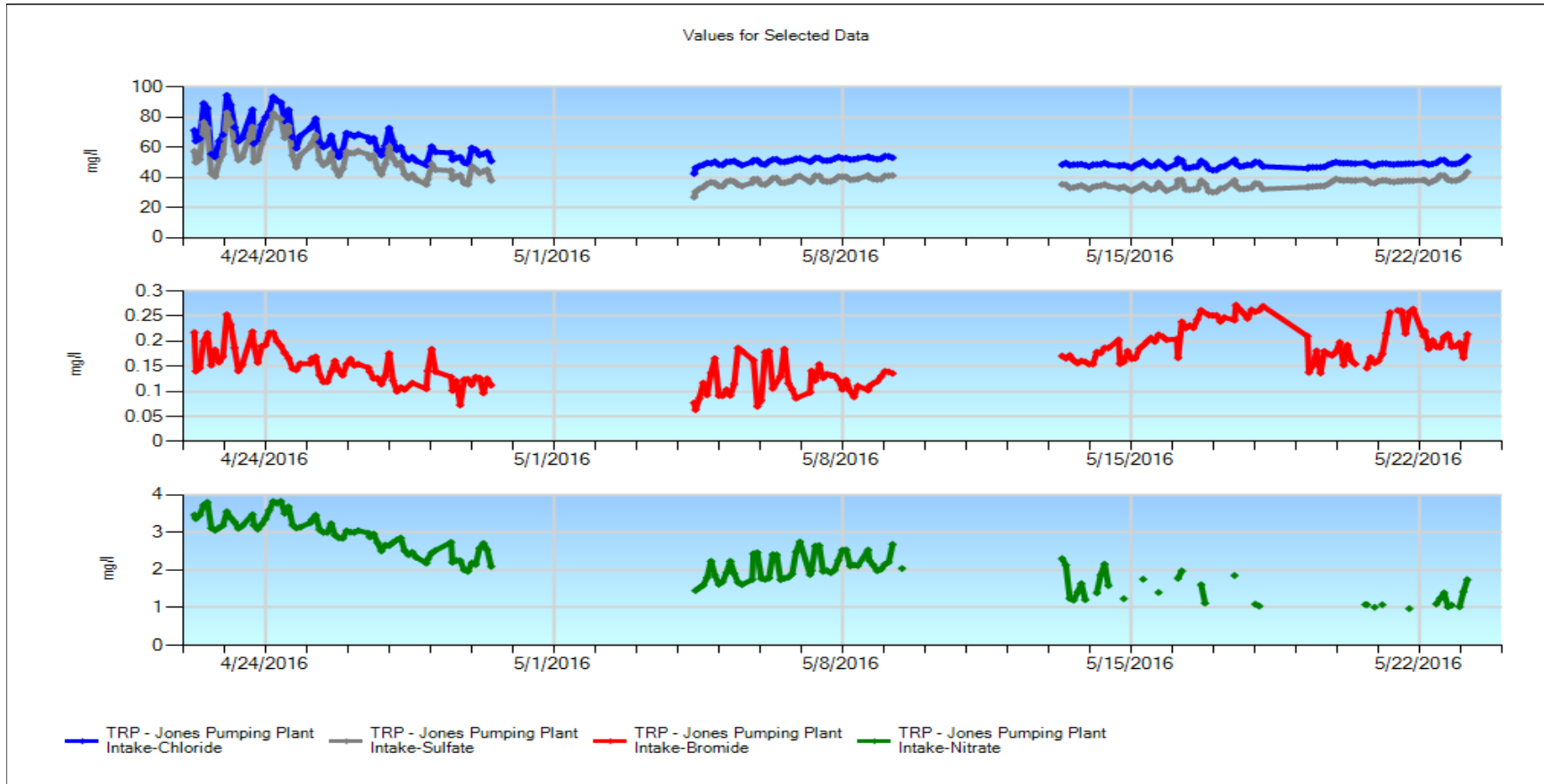
Edit Screen: Showing Nitrate data. Red data points indicate levels below reporting limit of 1.0 mg/L.

Jones PP – Discharge, Organic Carbon and EC

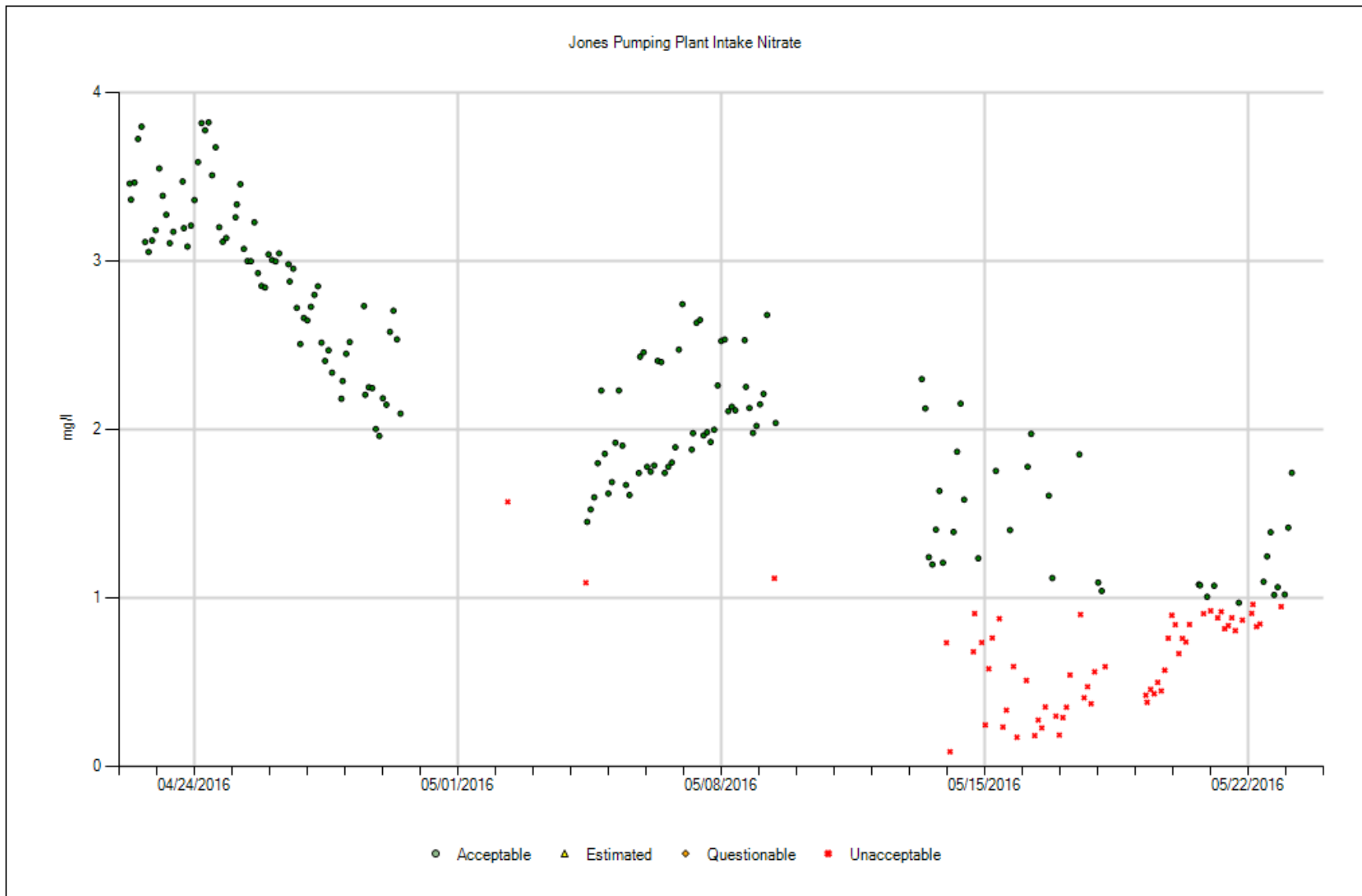


4/28/16 – QC run and filter change. **4/29/16 – 5/2/16** – power outage at the station over the weekend. **5/4/16** – filter change. **5/9/16** – wire from relay board to valve became disconnected. The wire was reset. **5/10/16** – filter change. **5/18/16** – replaced oxidizer cartridge. **5/20/16** – cleaned IOS on Sievers.

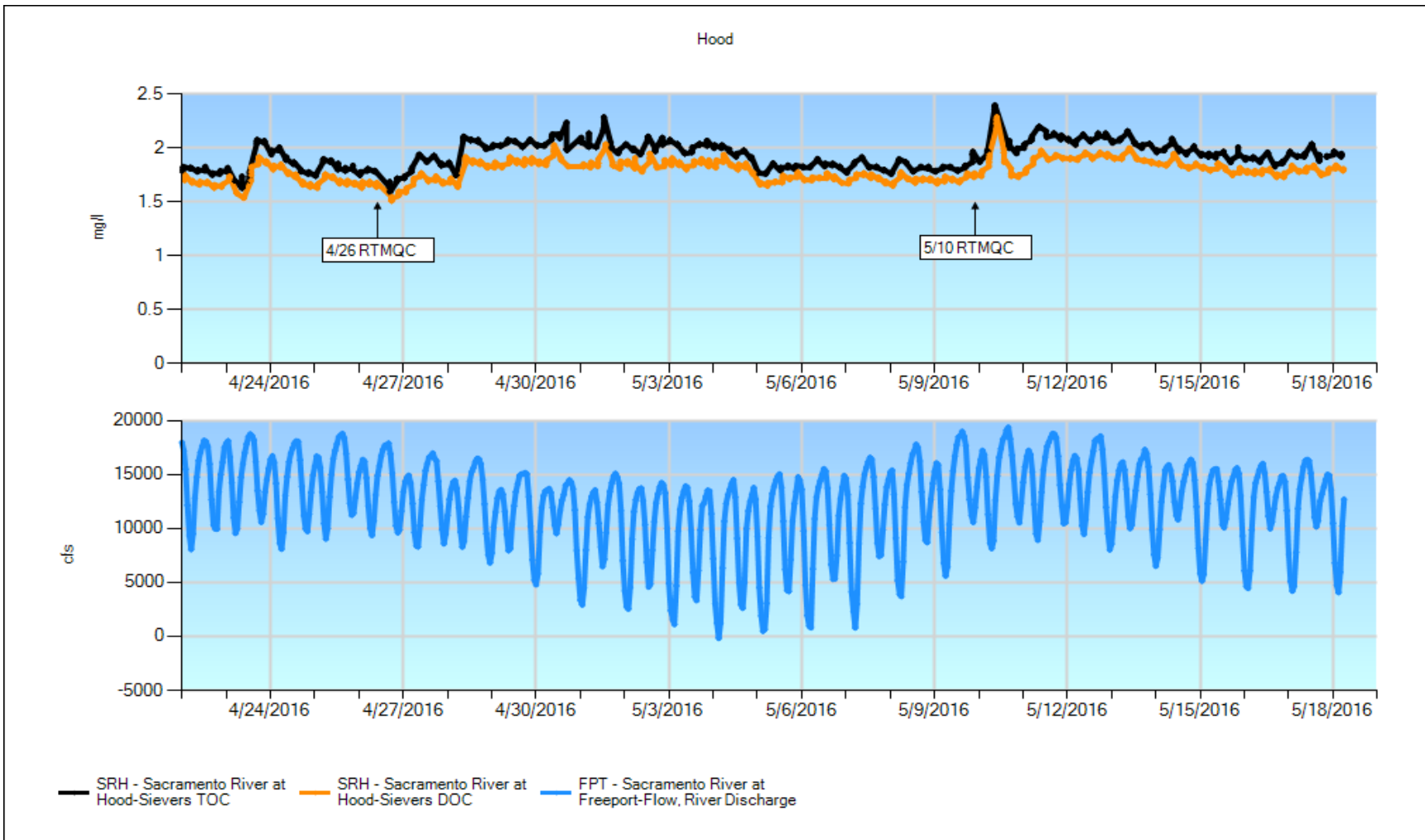
Jones PP – Chloride, Sulfate, Bromide and Nitrate



4/29/16 – 5/2/16 – power outage at the station over the weekend. 5/9/16 – 5/13/16 – changed eluent concentration levels. Dionex recalibrated. 5/10/16 – Replaced Eluent Generator. Dionex recalibrated. 5/18/16 – replaced guard and separator column. Dionex recalibrated. Nitrate has been reporting, but recently has been reporting below the reporting limit. See graph below for nitrate levels that fall below the reporting limit.



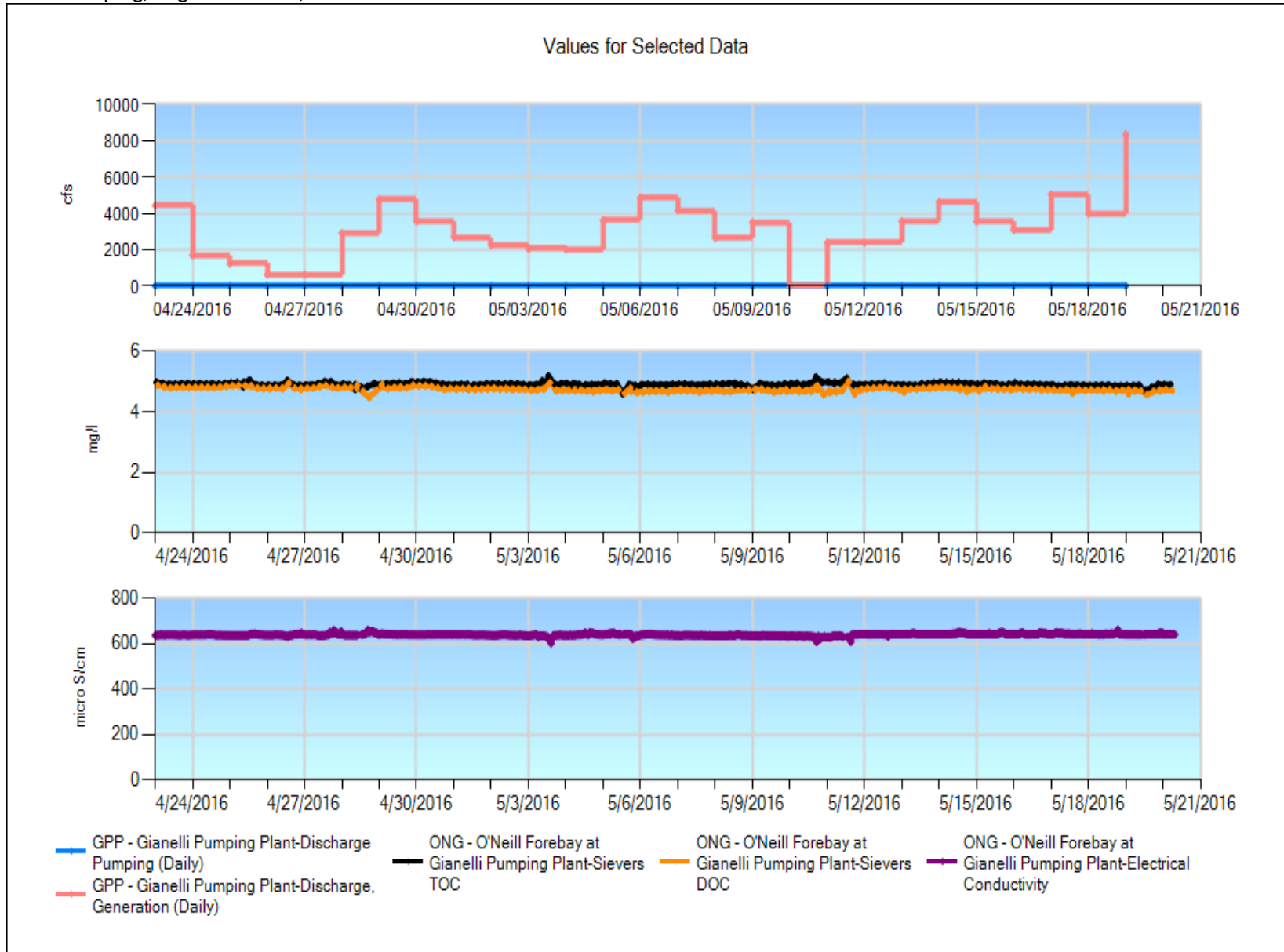
Nitrate reporting limit of 1.0 ppm.



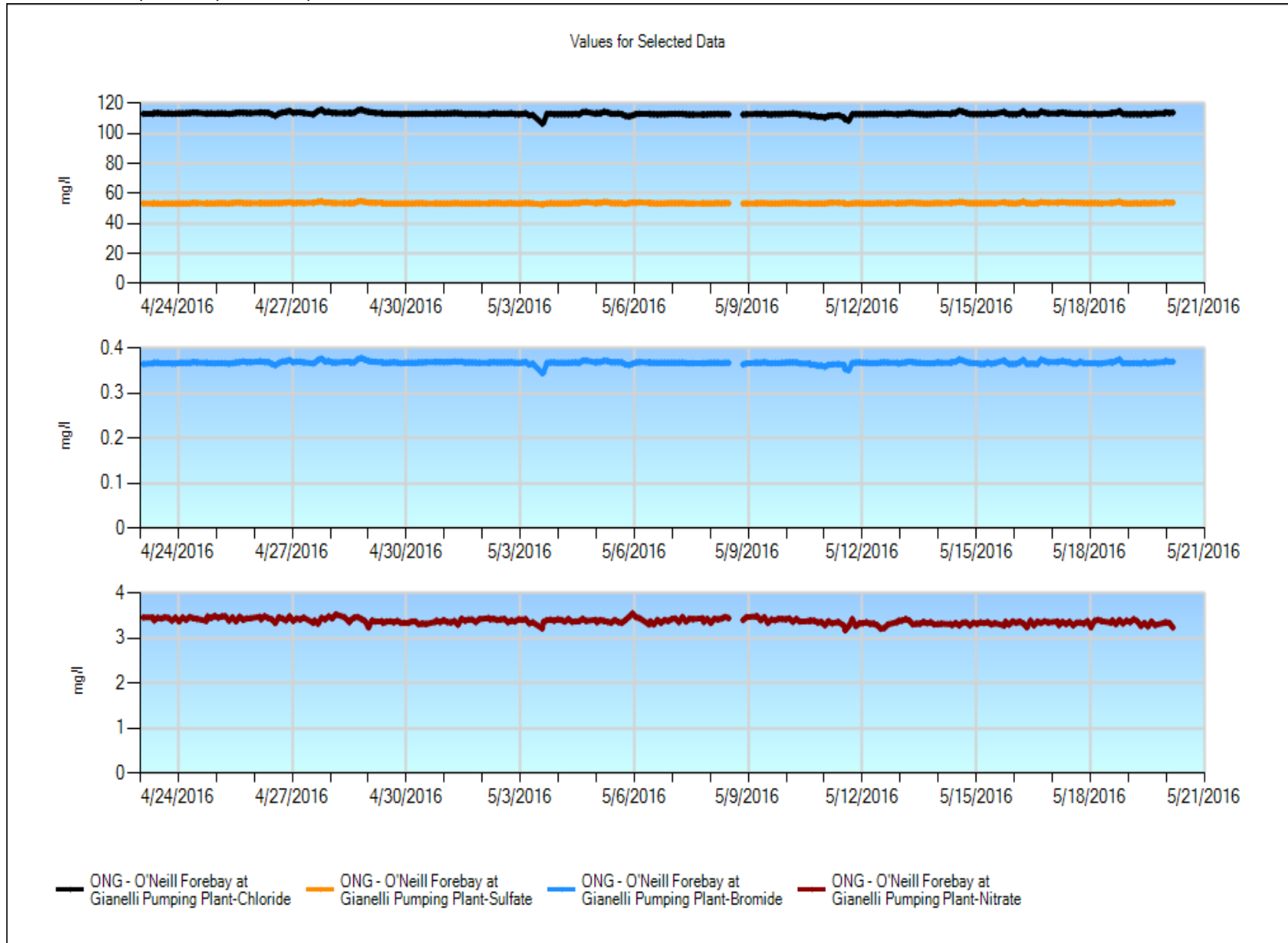
Significant Events: April 22th 2016 to May 18th 2016

- **4/26 RTMQC:** Changed pre filters, 100 μ (micron) and 50 μ filter.
- **5/10 RTMQC:** Changed all filters.

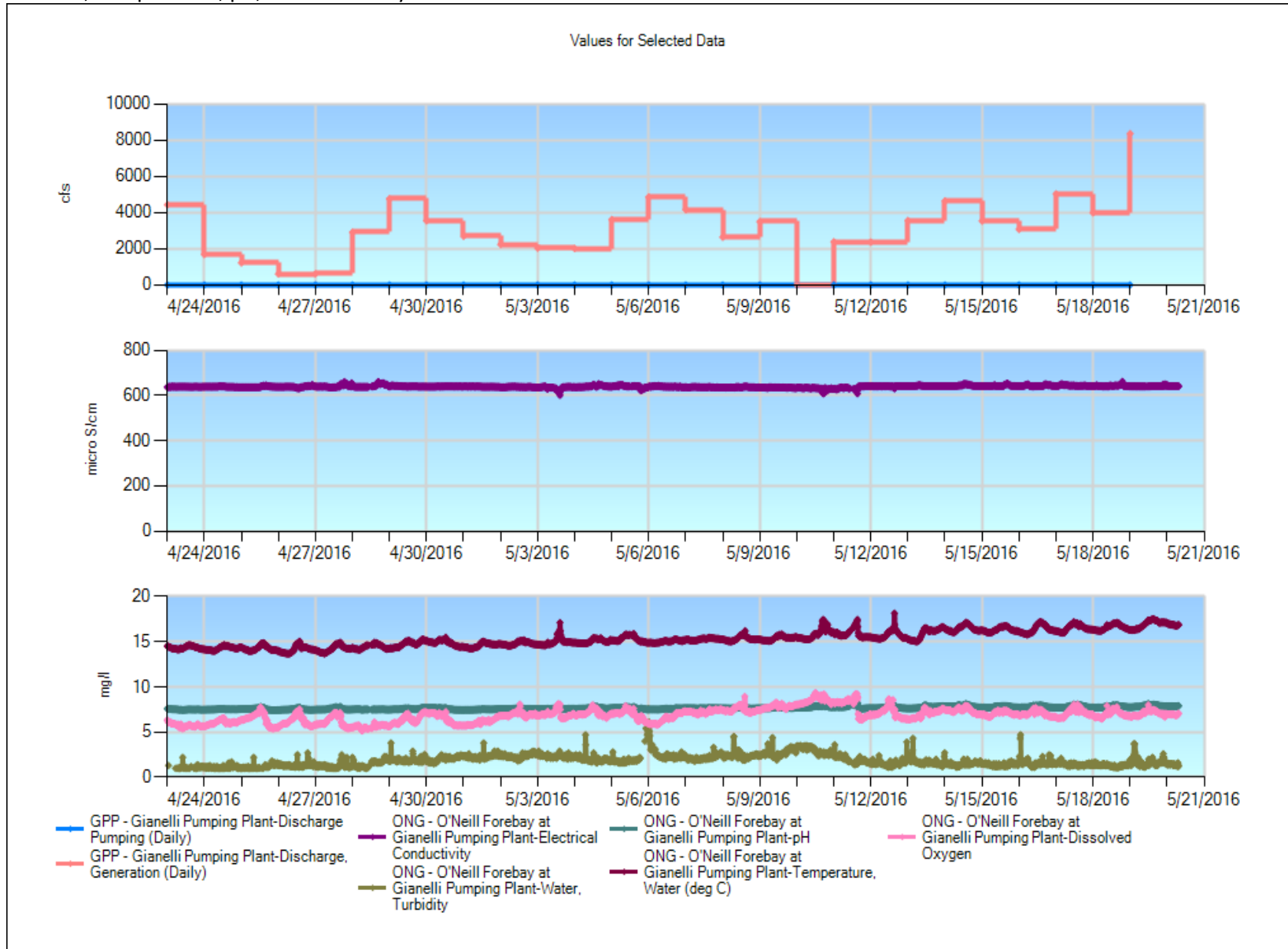
Gianelli – Pumping, Organic Carbon, EC



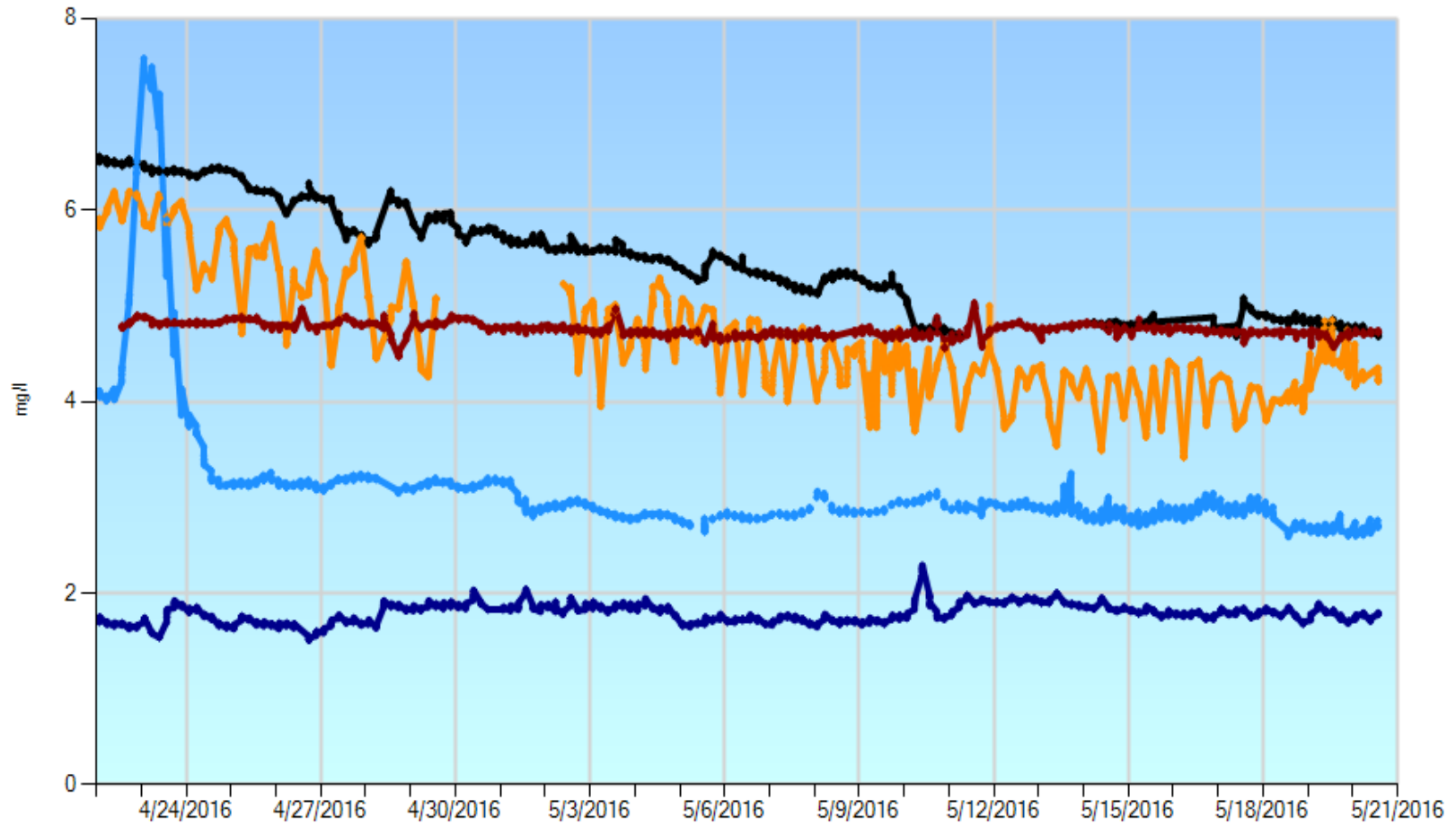
Gianelli – Chloride, Sulfate, Bromide, Nitrate



Gianelli – EC, Temperature, pH, DO & Turbidity

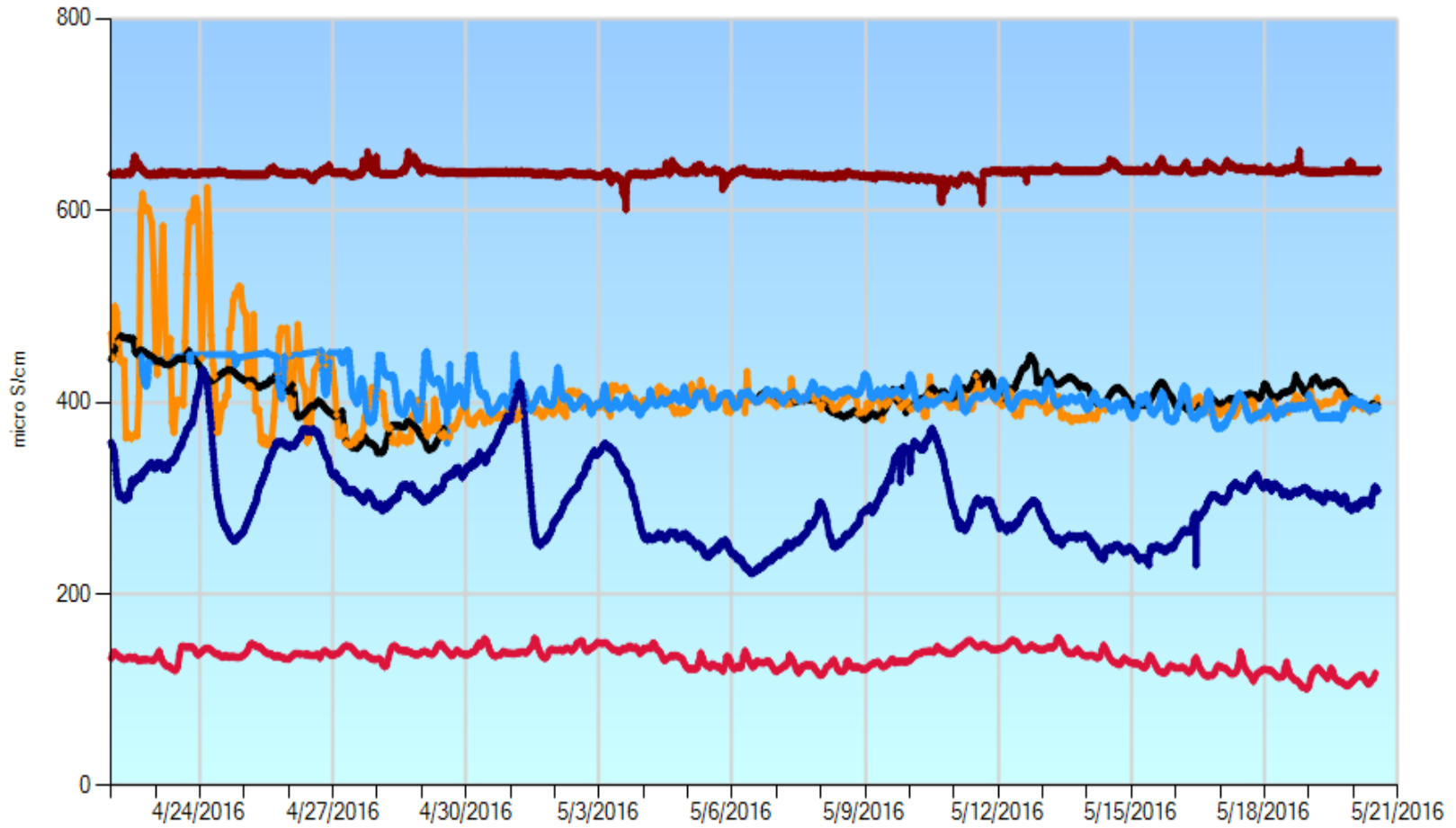


All Station DOC



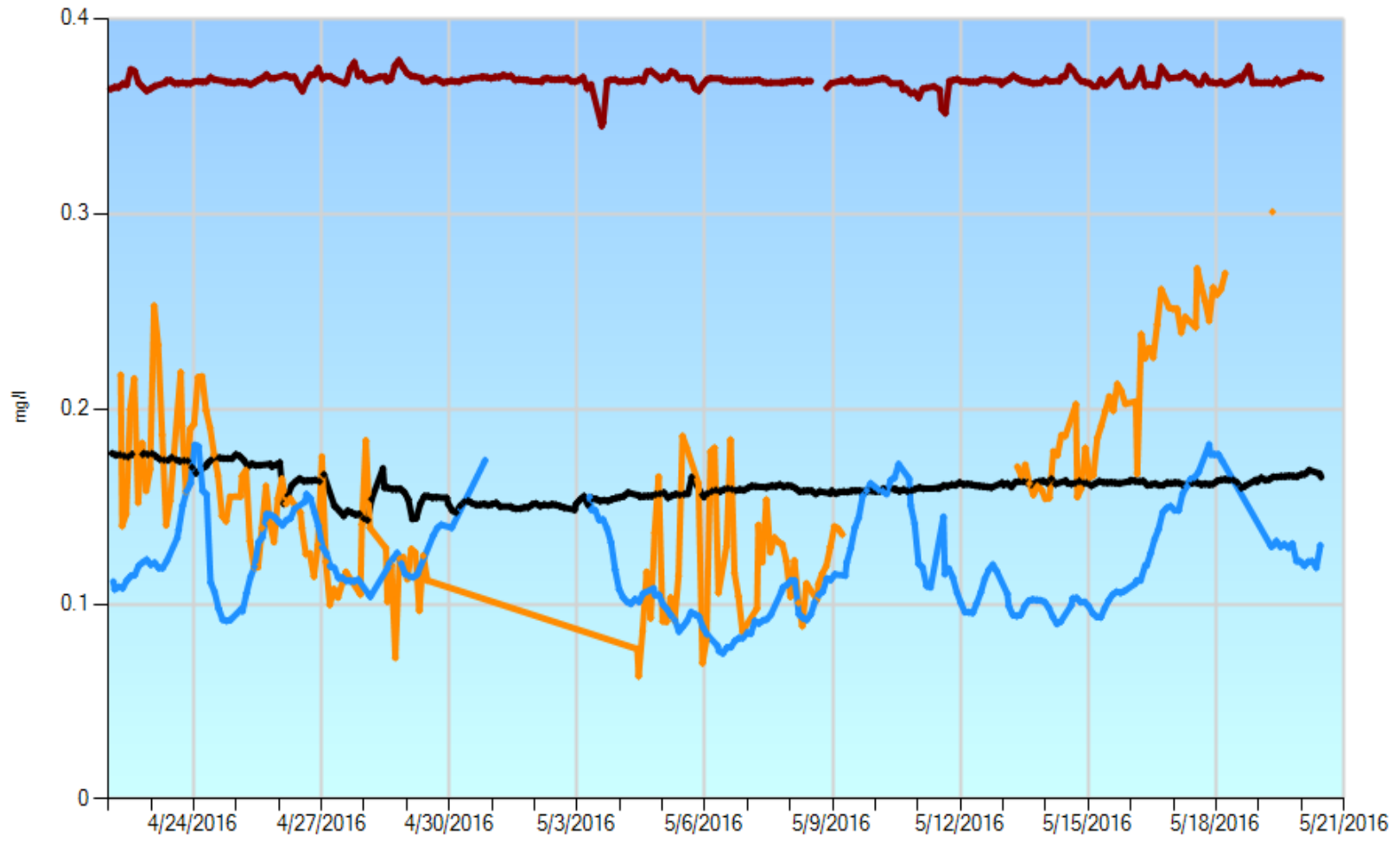
— HRO - Harvey O. Banks Pumping Plant-Sievers DOC — SJR - San Joaquin River at Vernalis-Sievers DOC — ONG - O'Neill Forebay at Gianelli Pumping Plant-Sievers DOC — SRH - Sacramento River at Hood-Sievers DOC
— TRP - Jones Pumping Plant Intake-Sievers DOC

All Station + Clifton Court EC



- HBP - Harvey Banks Pumping Plant-Electrical Conductivity (WS)
- CLC - Clifton Court-Electrical Conductivity (WS)
- DMC - DMC Headworks-Electrical Conductivity
- ONG - O'Neill Forebay at Gianelli Pumping Plant-Electrical Conductivity
- VER - Vernalis (USBR)-Electrical Conductivity (WS)
- SRH - Sacramento River at Hood-Electrical Conductivity (WS)

All Station Bromide



— HRO - Harvey O. Banks Pumping Plant-Bromide — TRP - Jones Pumping Plant Intake-Bromide — SJR - San Joaquin River at Vernalis-Bromide — ONG - O'Neill Forebay at Gianelli Pumping Plant-Bromide