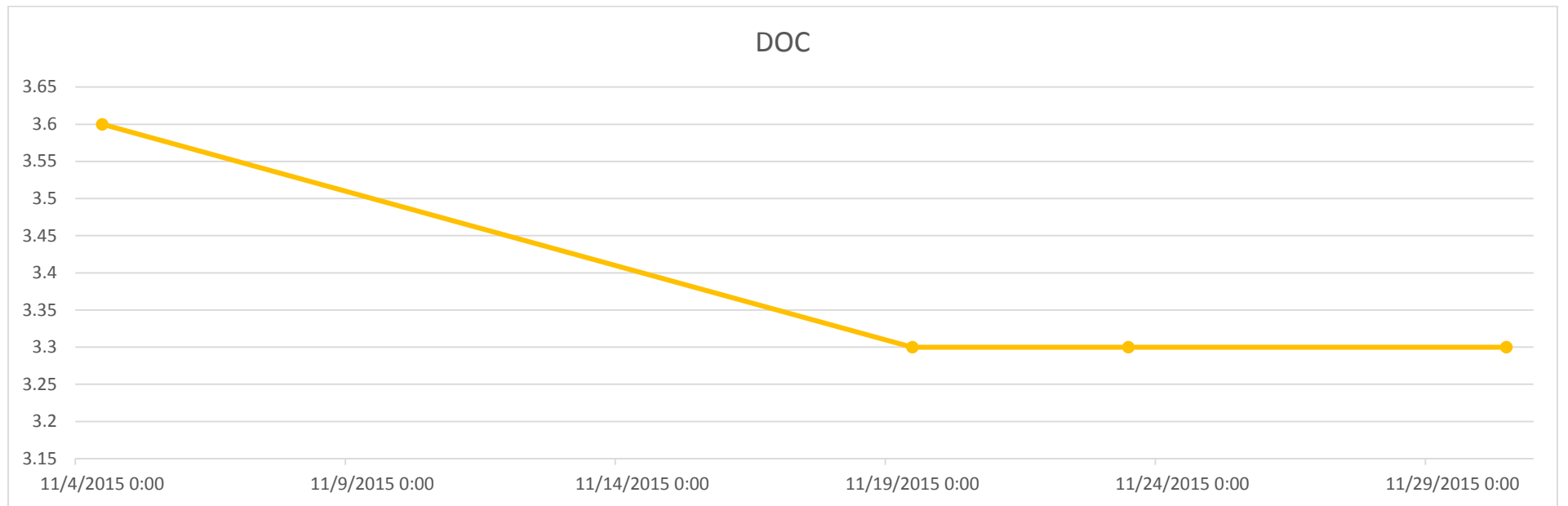
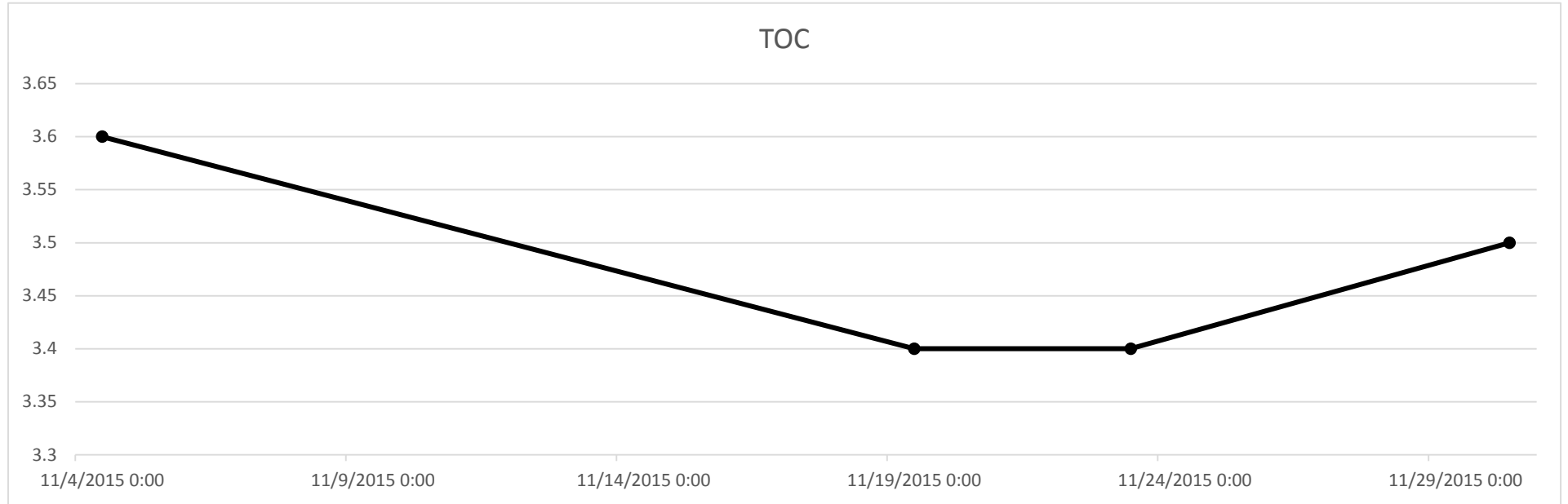
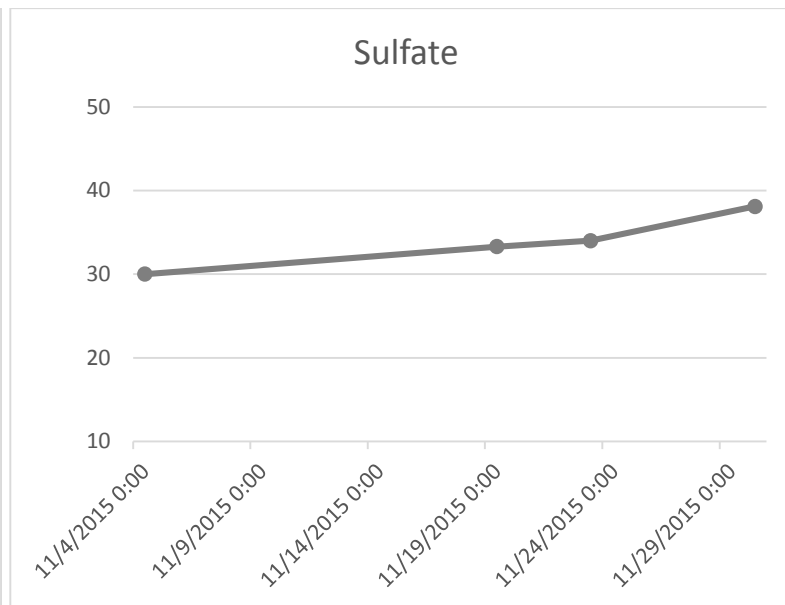
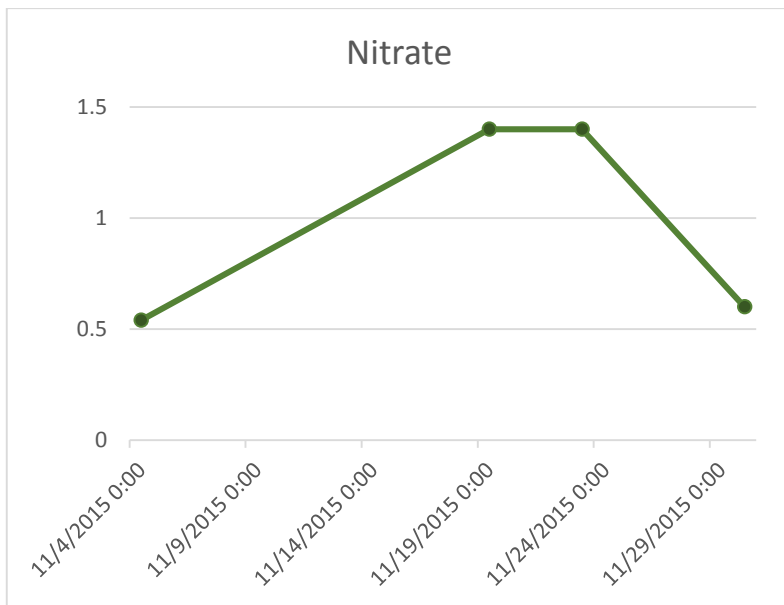
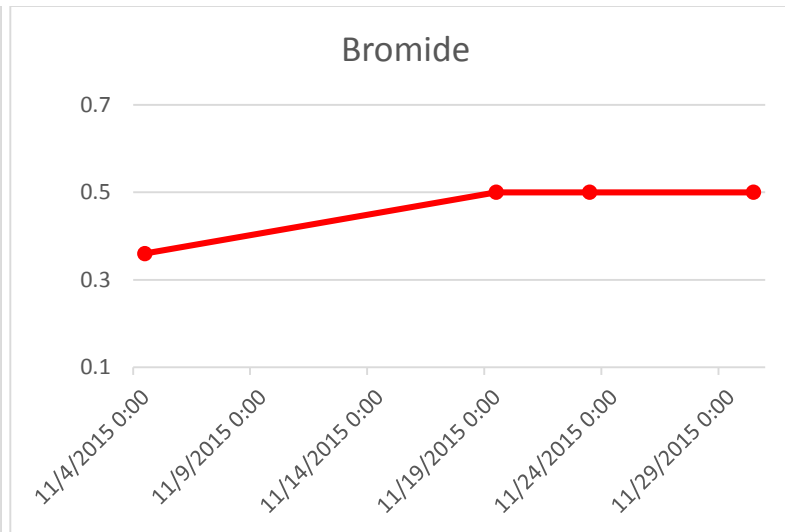
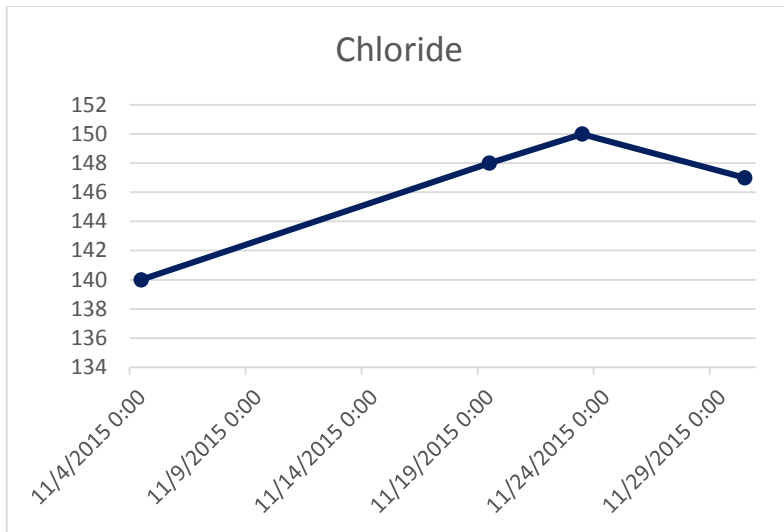


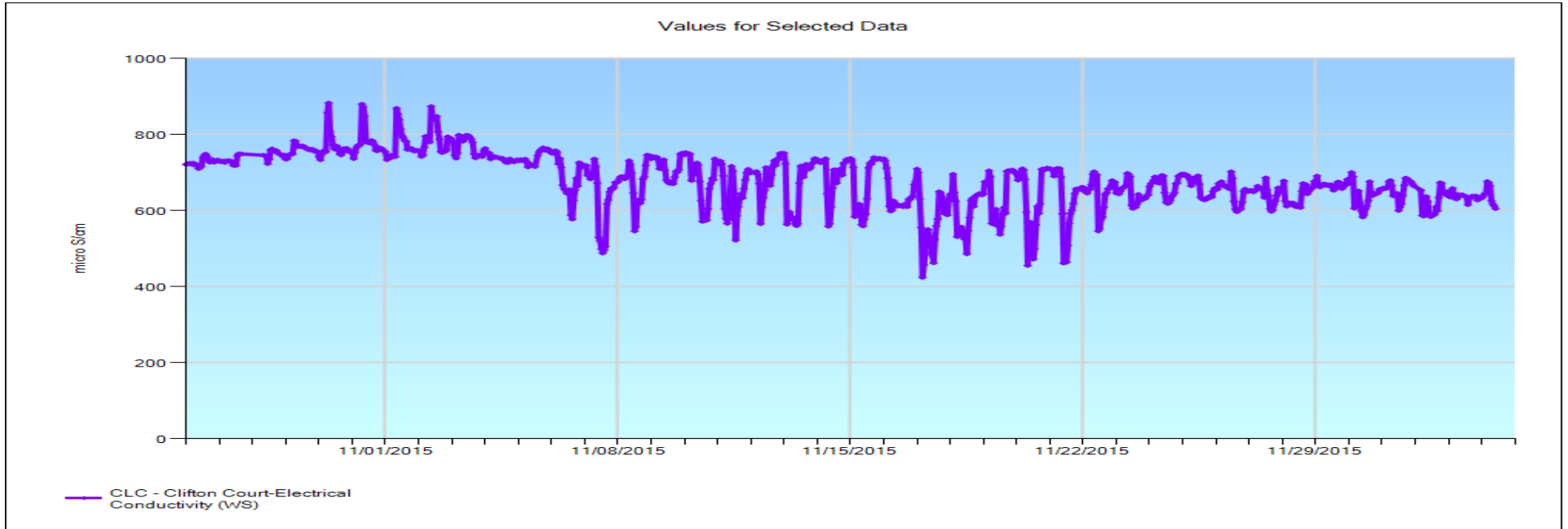
Banks Pumping Plant – Current TOC Grab Samples (During the Power Outage)



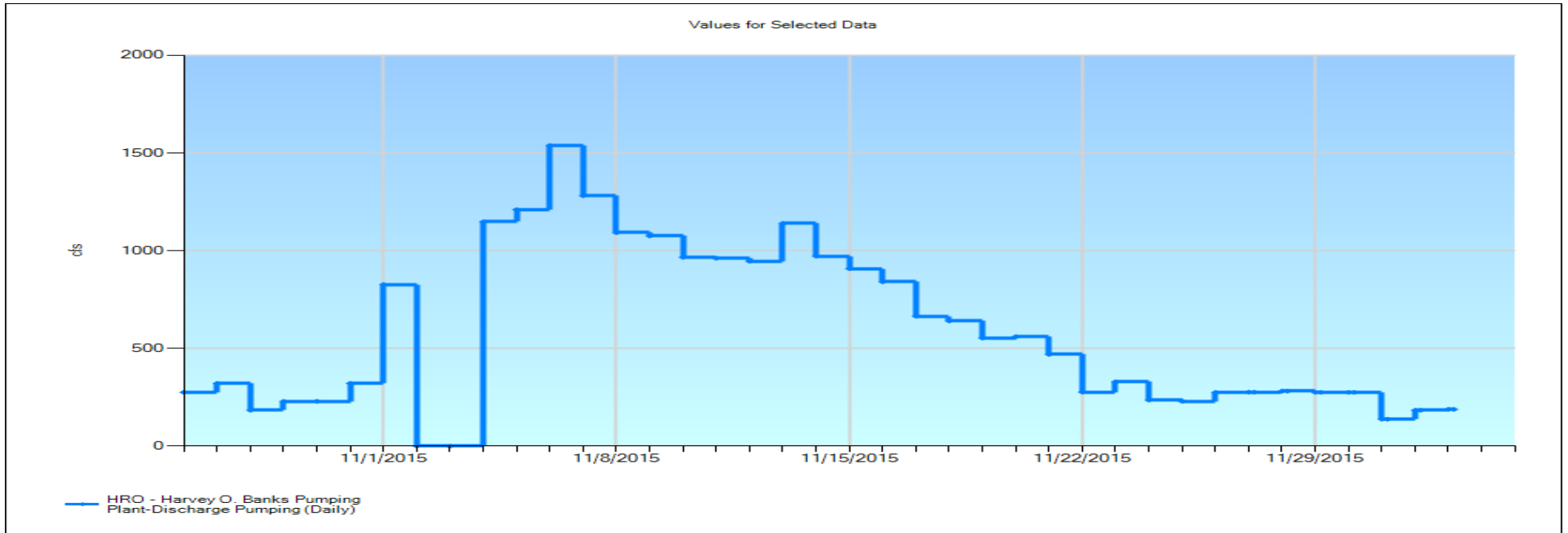
Banks Pumping Plant – Current Anion Grab Samples (During the Power Outage)

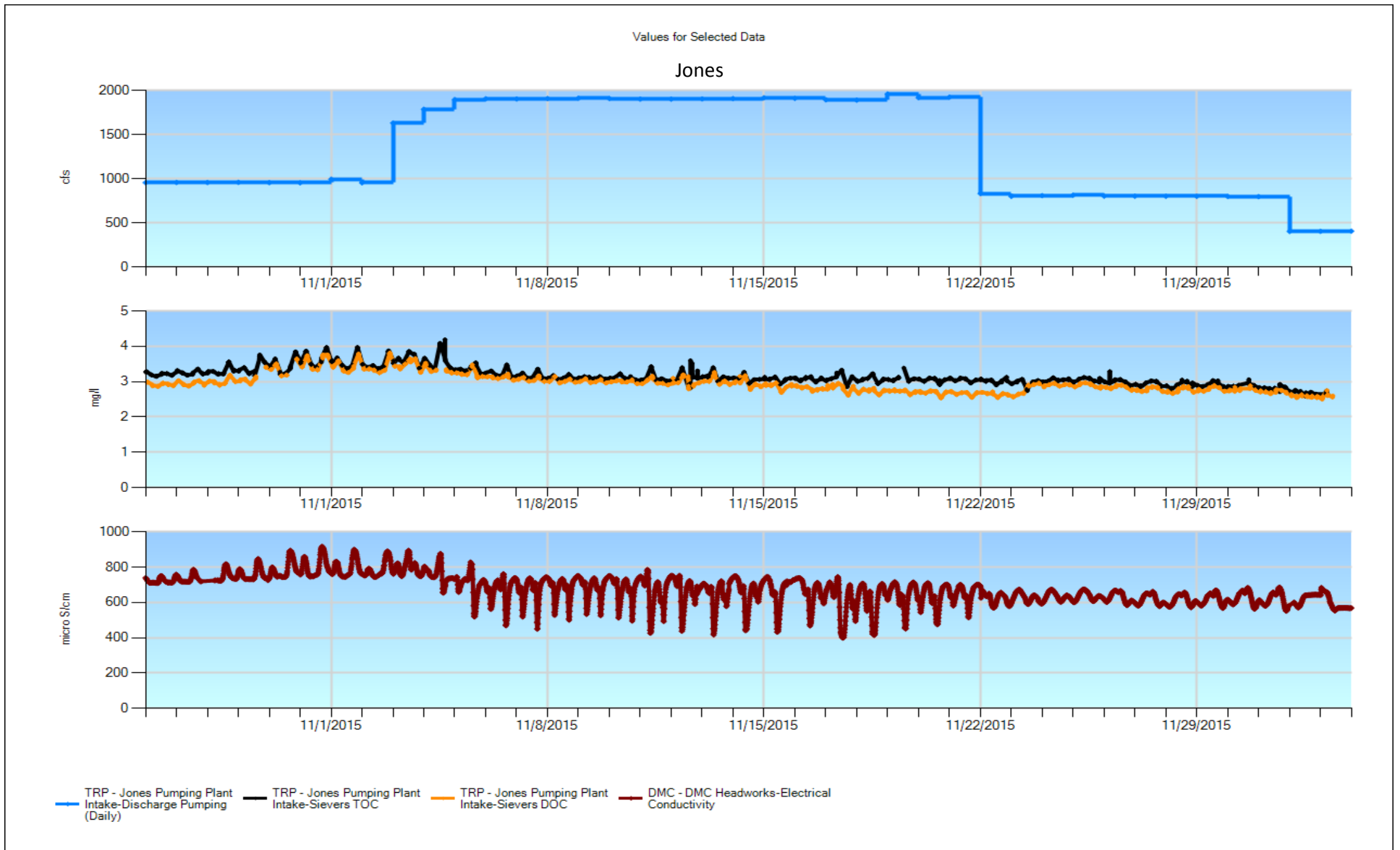


Clifton Court Forebay EC



Banks Pumping Plant - Pumping

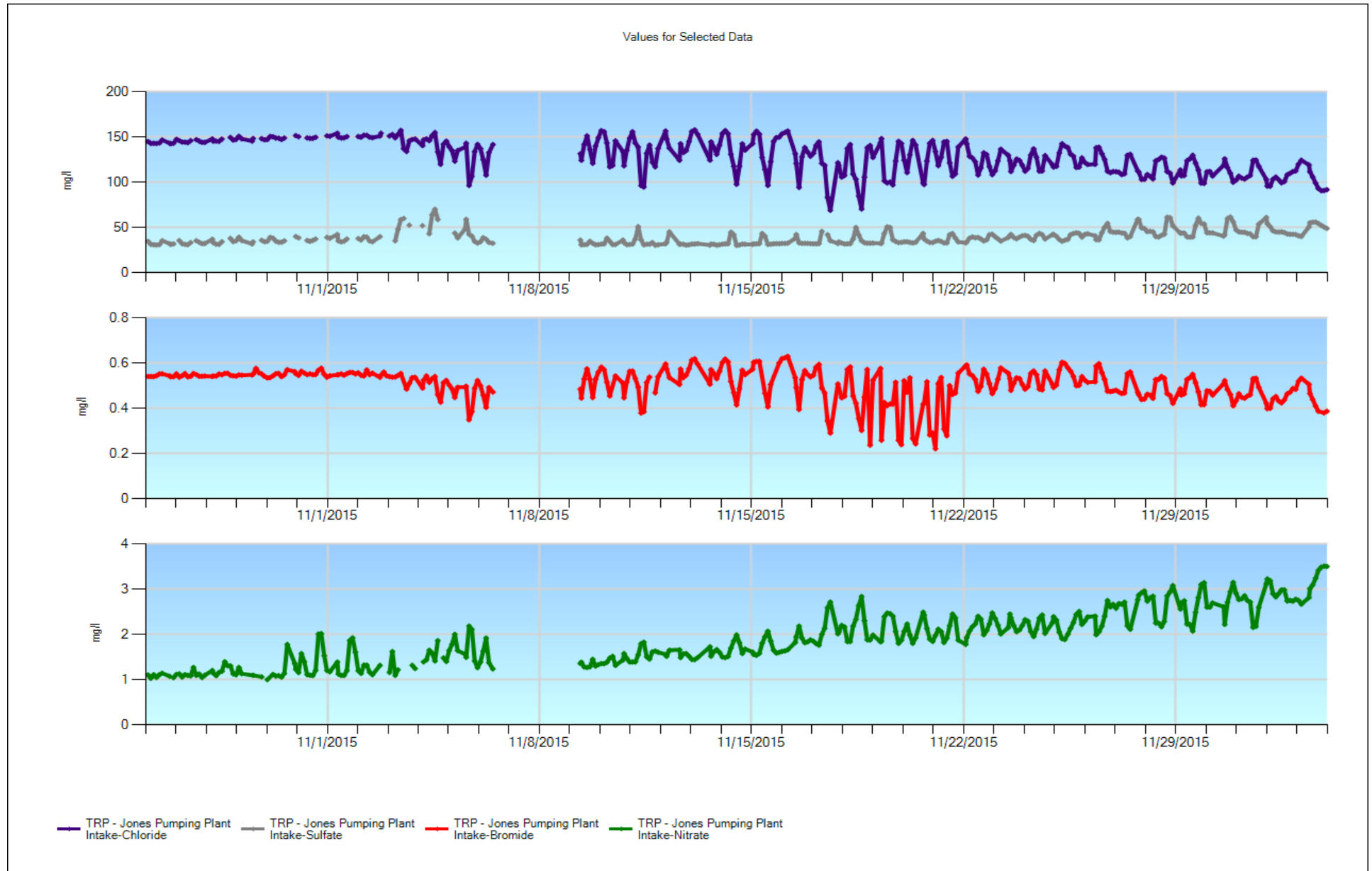




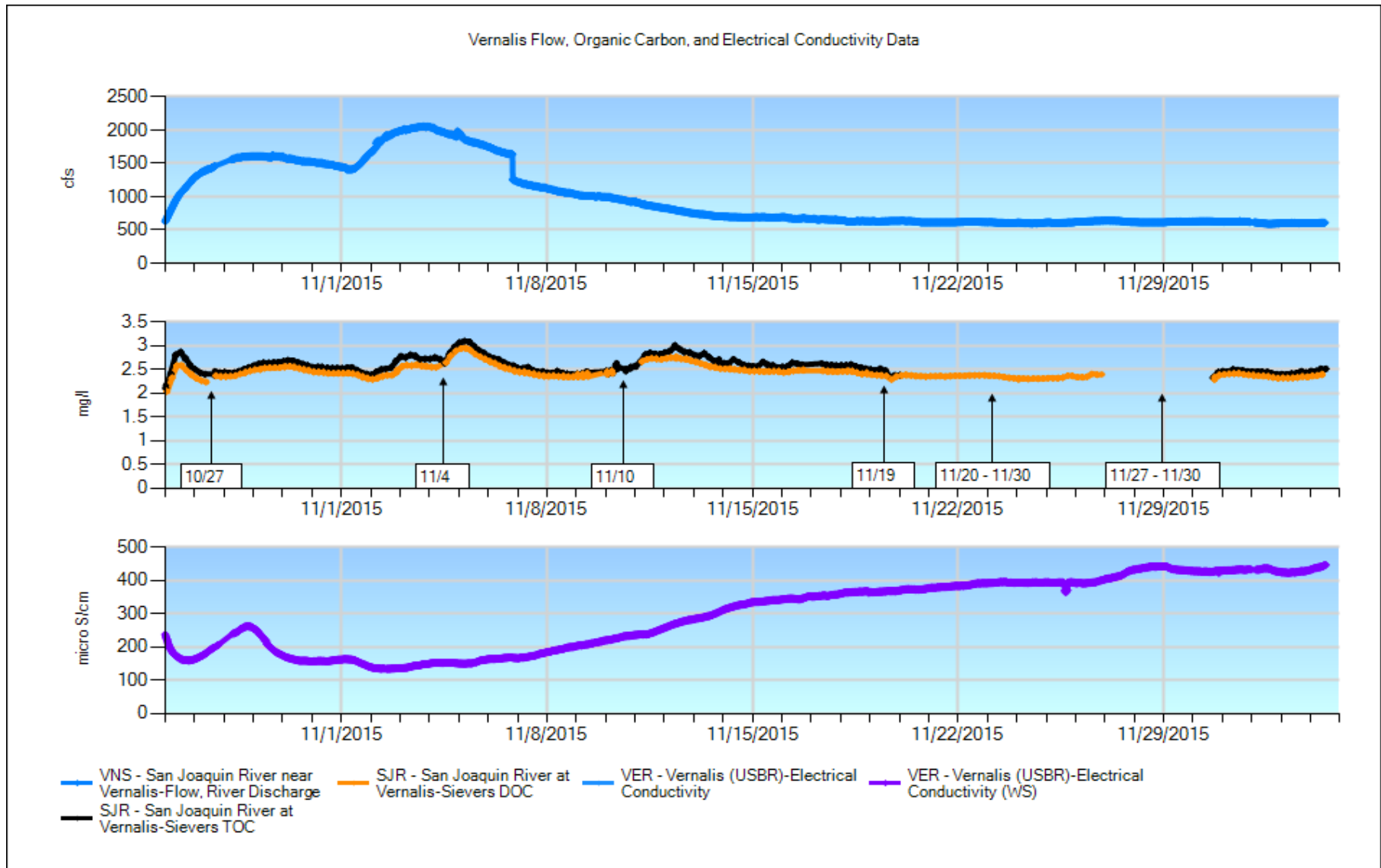
Significant Events: October 26th 2015 to December 4th 2015

10/29 - Replaced all filters. Replaced Oxidizer **11/4** – Replaced 100 micron filter. Spike in TOC, after filter change **11/12** – Replaced all filters **11/19** – **11/23** – 0.45 micron filter overloaded causing DOC to decrease **11/23** – Replaced all filters except the one micron filter **11/30** – replaced 100 micron filter **12/4** – Sievers down due to a clog in the IOS system. Clog was cleared and is currently operational.

Jones

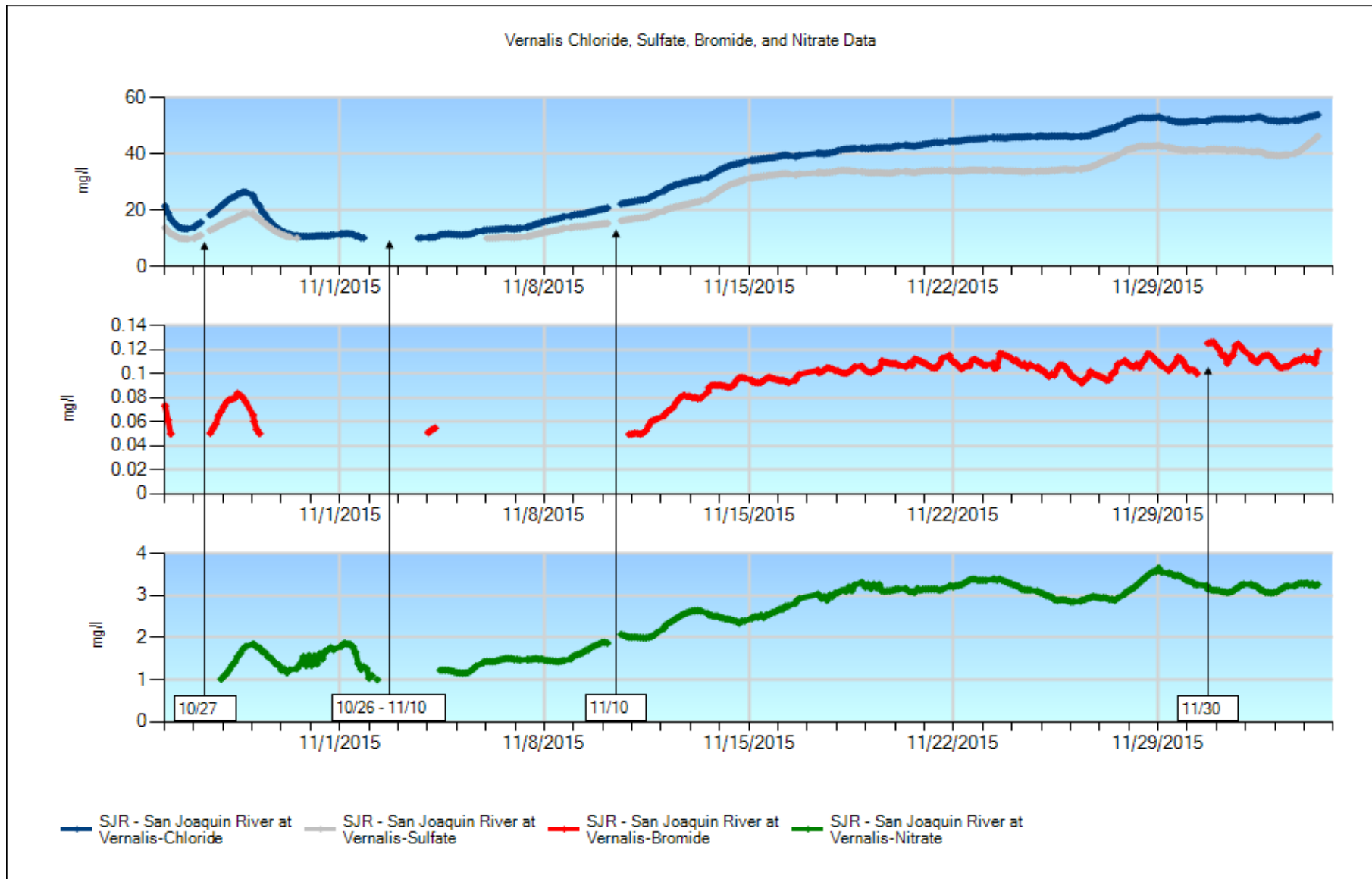


11/6 – 11/9 – Replaced the CR-ATC column. Dionex had to be recalibrated and was down during the weekend. **11/23** – There was a clog in the Dionex sample intake line that was cleared.



Filter

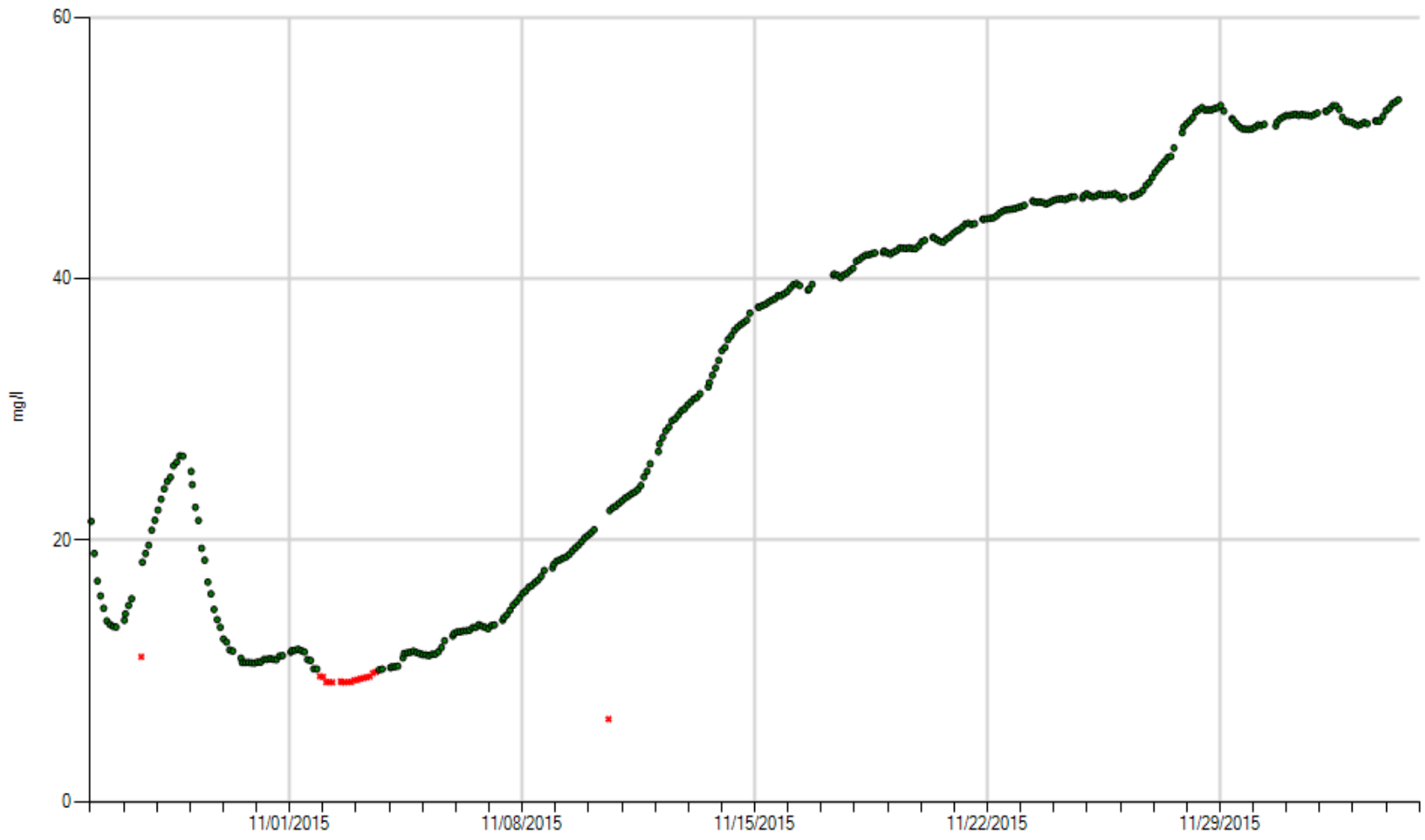
Changes: 11/4, 11/19 = Prefilters only. 10/27, 11/10, 11/30 = All filters. **Events:** 11/20 - 11/30 = Valve controlling the TOC stream failed, stopping flow to the Sievers carbon analyzer. 11/27 - 11/30 = Valve controlling DOC stream failed. Both valves replaced Monday after holiday.



Events:

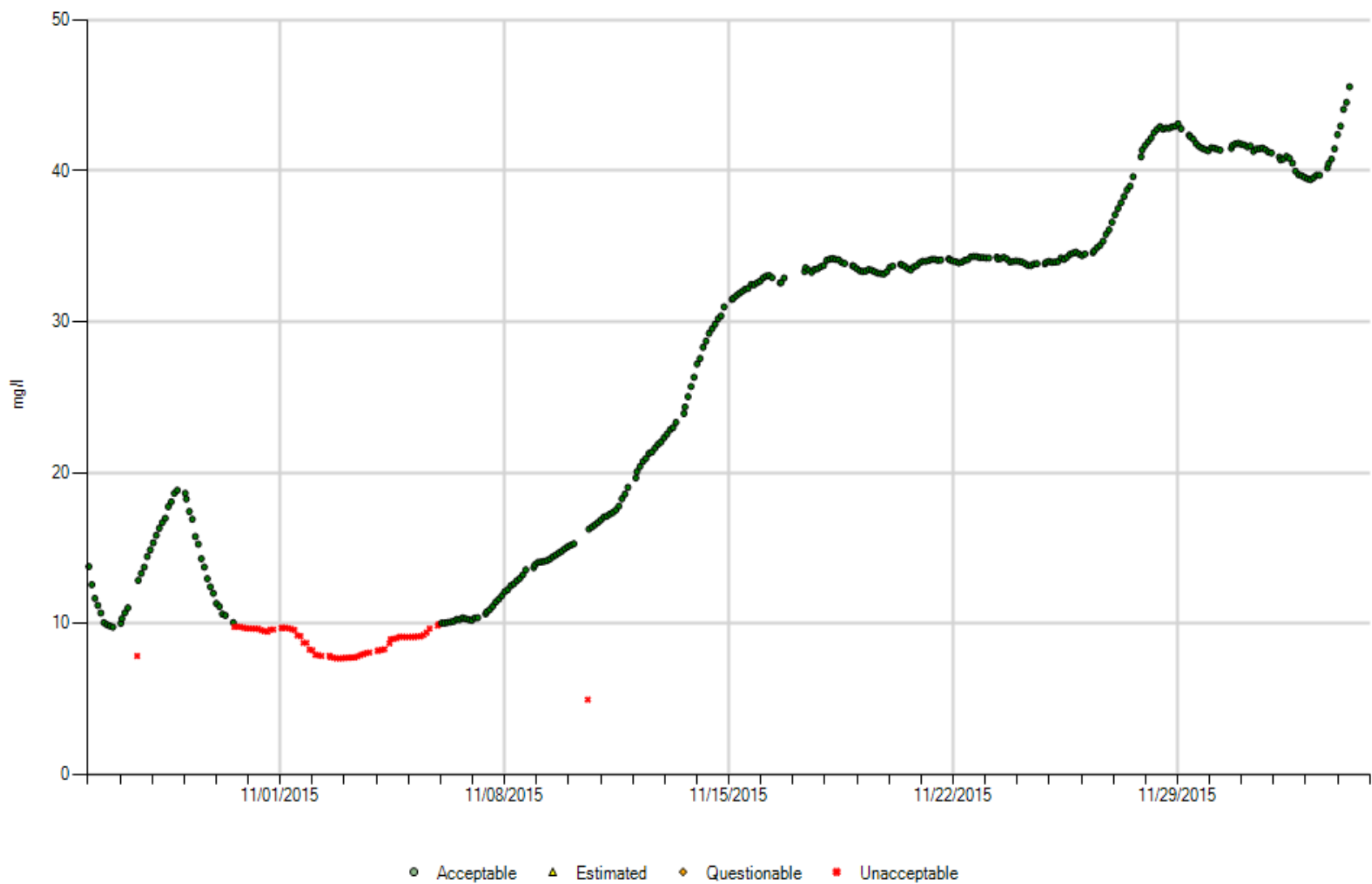
10/27 = QA/QC visit. **10/26 – 11/10** = Water quality constituents below reporting limit sometimes, mostly bromide. See graphs below for raw and edited data. **11/10** = QA/QC visit. **11/30** = QA/QC visit. Filter change affected bromide the most.

San Joaquin River at Vernalis Chloride

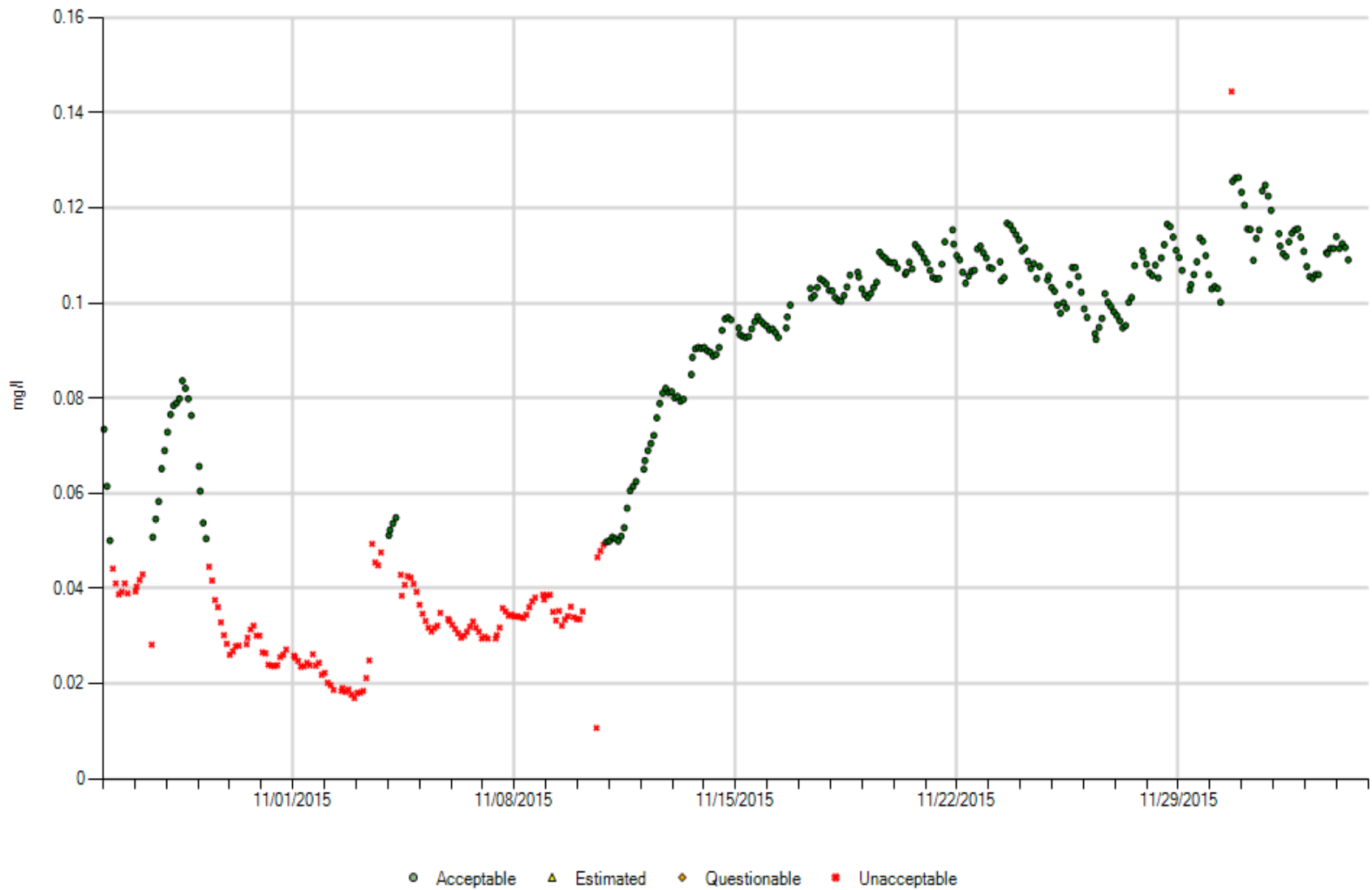


● Acceptable ▲ Estimated ◆ Questionable ■ Unacceptable

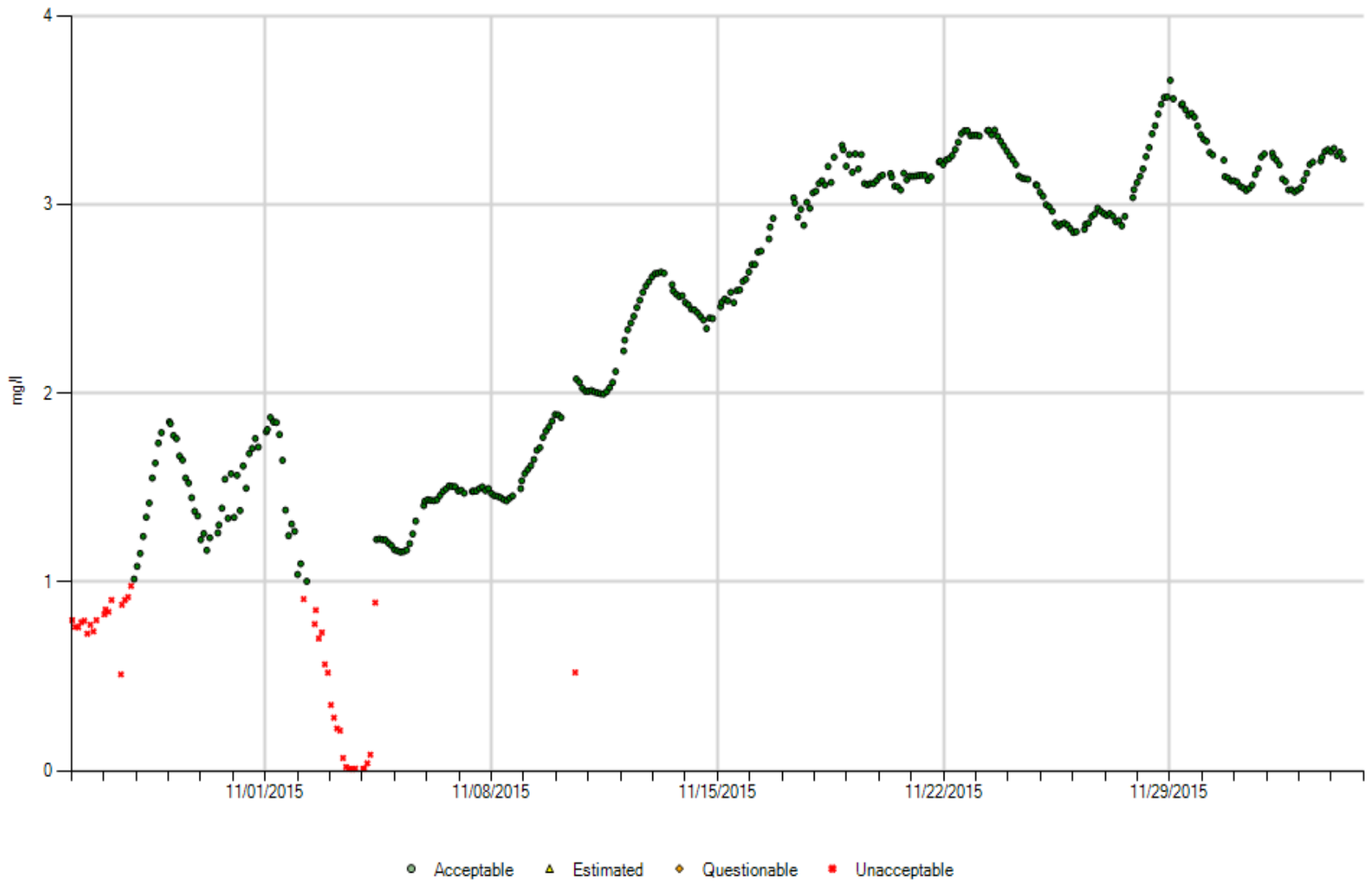
San Joaquin River at Vernalis Sulfate

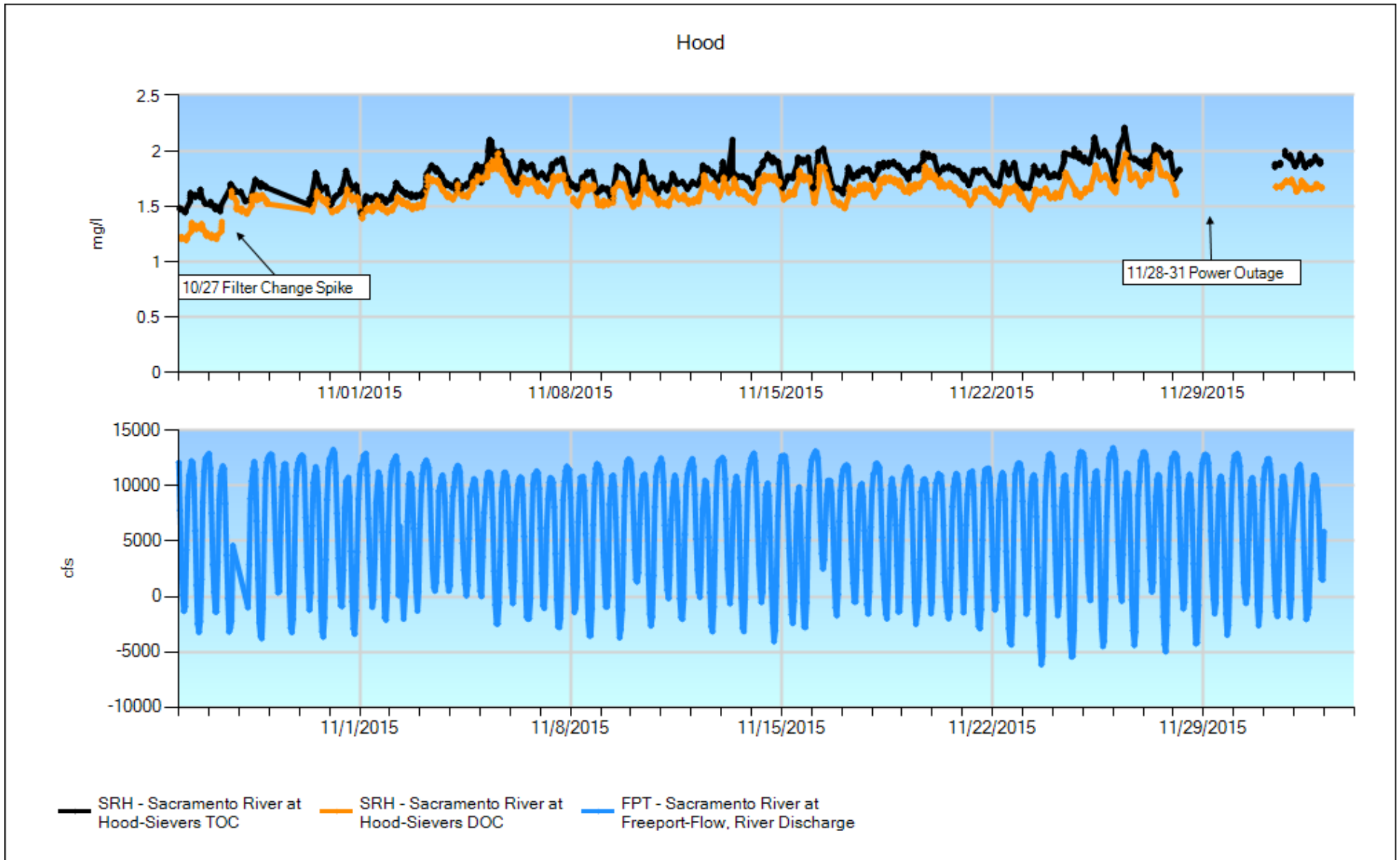


San Joaquin River at Vernalis Bromide



San Joaquin River at Vernalis Nitrate

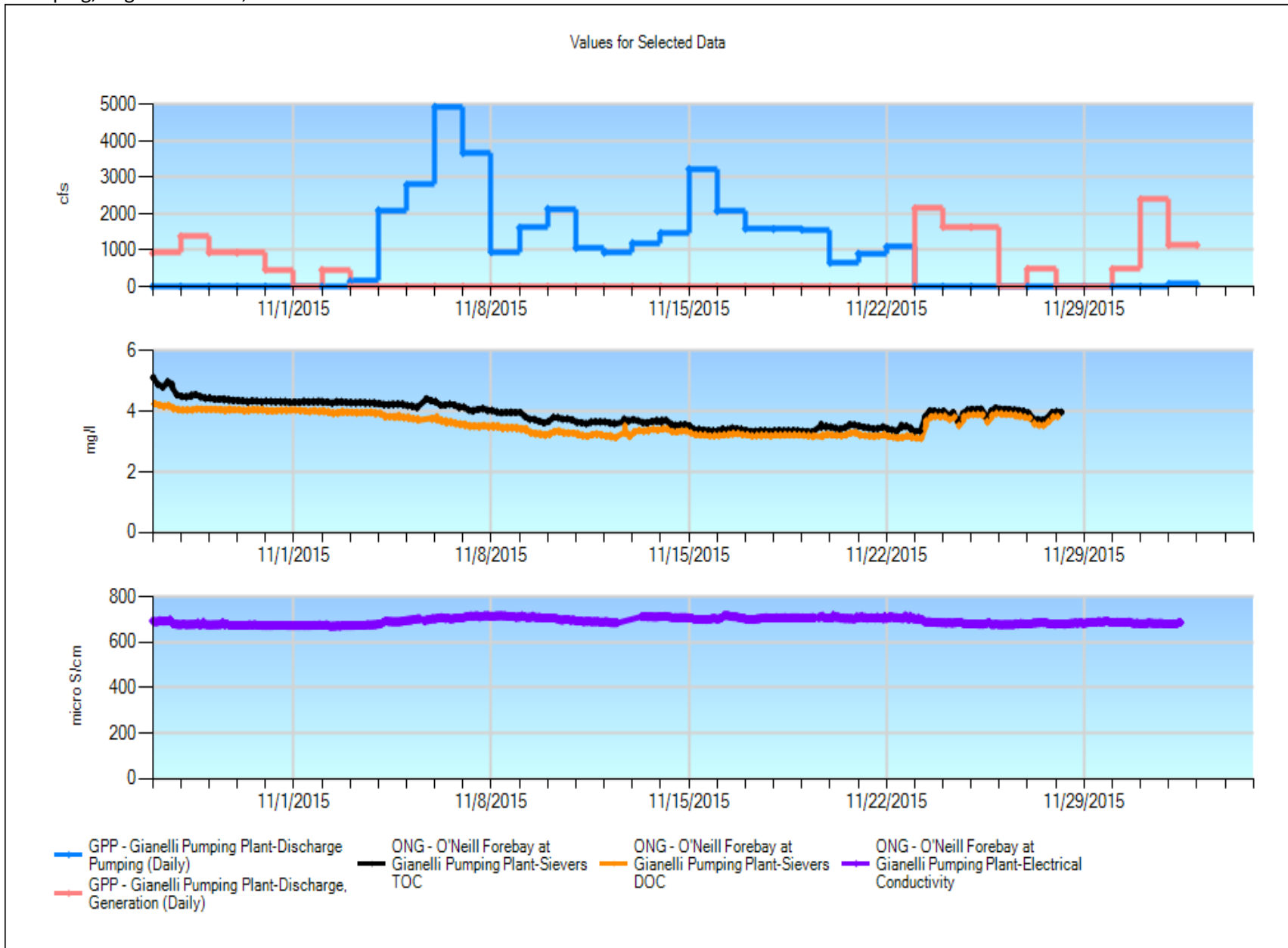




Significant Events: October 26th 2015 to December 4th 2015

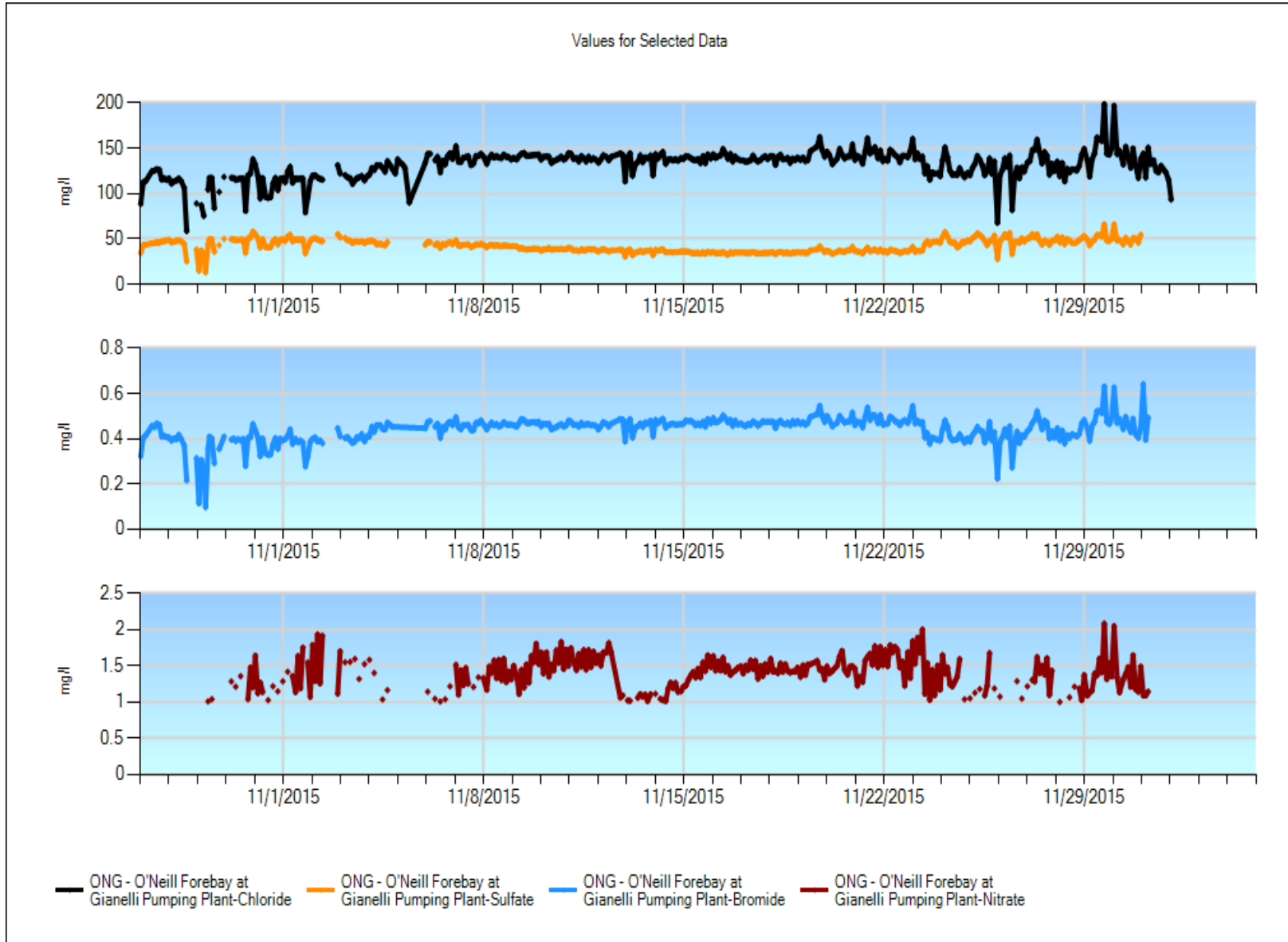
- **10/27 RTMQC:** Changed all filters.
- **11/28-31 Power Outage:** There was a power outage on the 28th causing the computer to shut down and closing indigo.

Gianelli – Pumping, Organic Carbon, EC



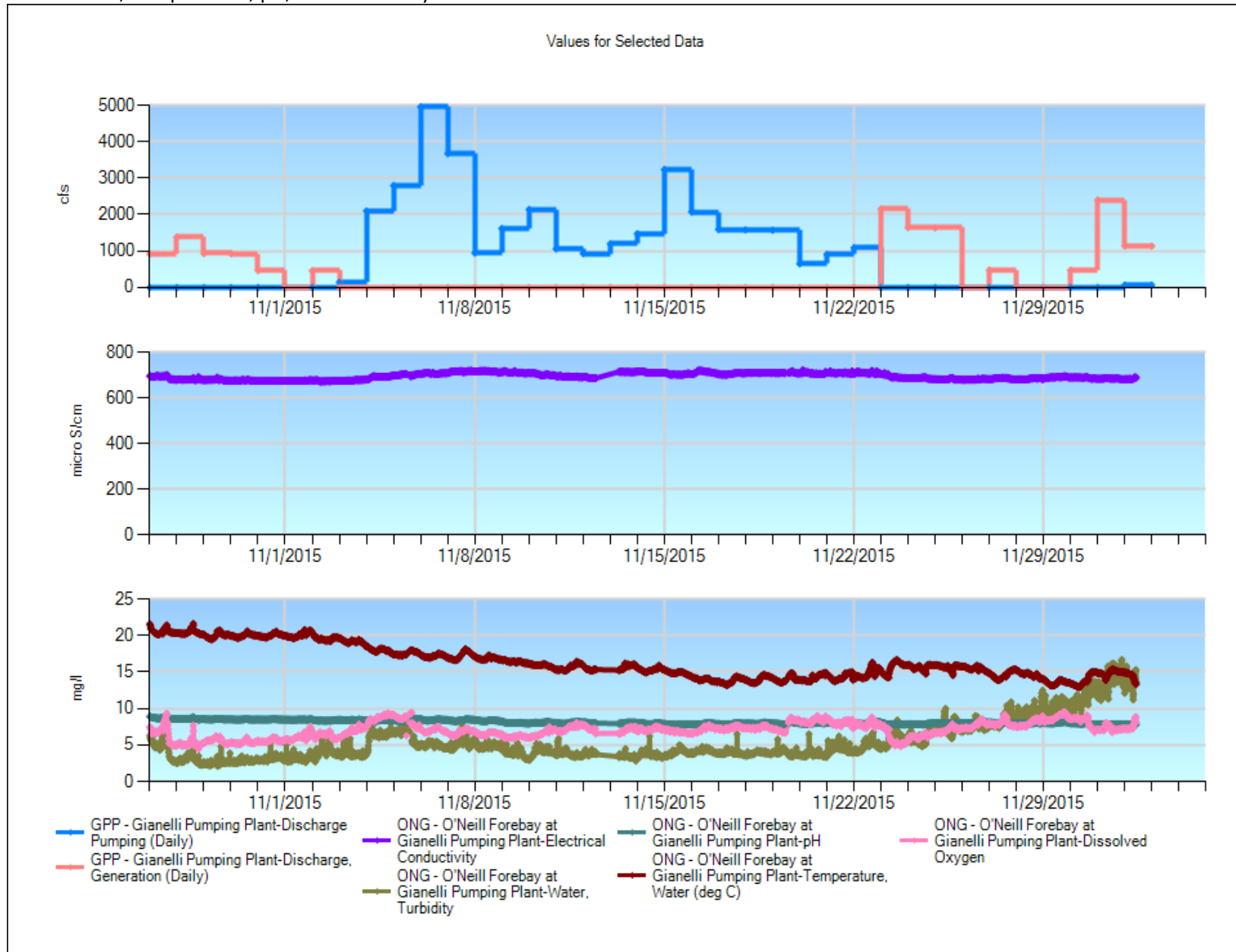
- TOC & DOC (11/28 – 12/2) --- Oxidizer syringe error.
- TOC & DOC (12/2 – present) --- Station pump started leaking.

Gianelli – Chloride, Sulfate, Bromide, Nitrate



- All parameters (10/28 – 10/31) --- Air built up in the transfer coil and caused intermittent problems
- All parameters (11/26 – 11/30) --- Air built up in the transfer coil and caused intermittent problems
- Nitrate intermittently dropped below the reporting limit of 1 mg/L.
- All parameters (12/2 – present) --- Station pump started leaking.
- 12/2 – Metrohm uninstalled and Dionex install began.

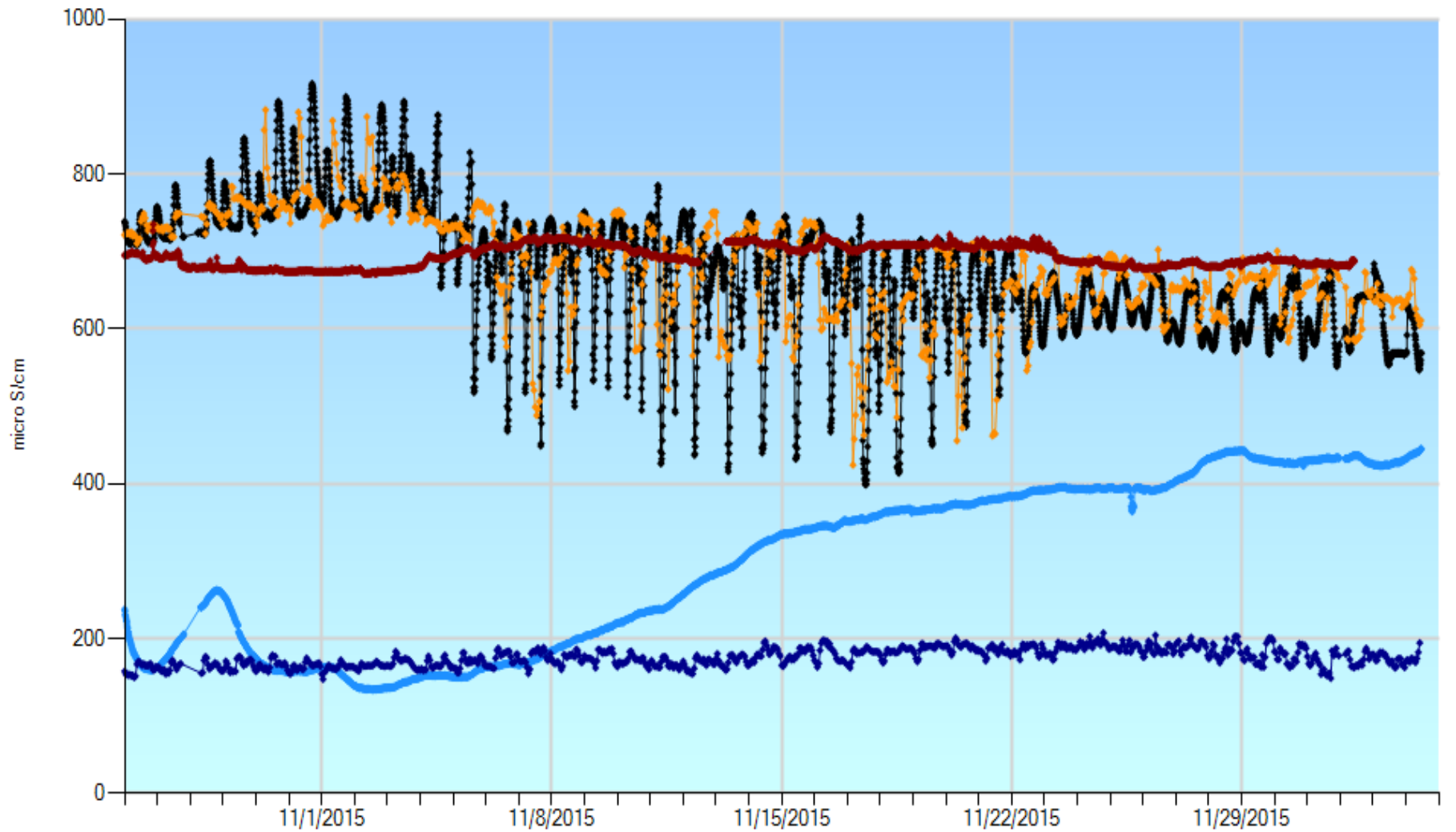
Gianelli – EC, Temperature, pH, DO & Turbidity



- Turbidity (~11/25 – 12/2) --- A large buildup of muck in the housing caused errant turbidity readings.
- All parameters (12/2 – present) --- Station pump started leaking.

All Station (Except Banks) EC

Values for Selected Data



DMC - DMC Headworks-Electrical Conductivity CLC - Clifton Court-Electrical Conductivity (WS) Series2 ONG - O'Neill Forebay at Gianelli Pumping Plant-Electrical Conductivity SRH - Sacramento River at Hood-Electrical Conductivity (WS)

All Station (Except Banks) DOC

Values for Selected Data

