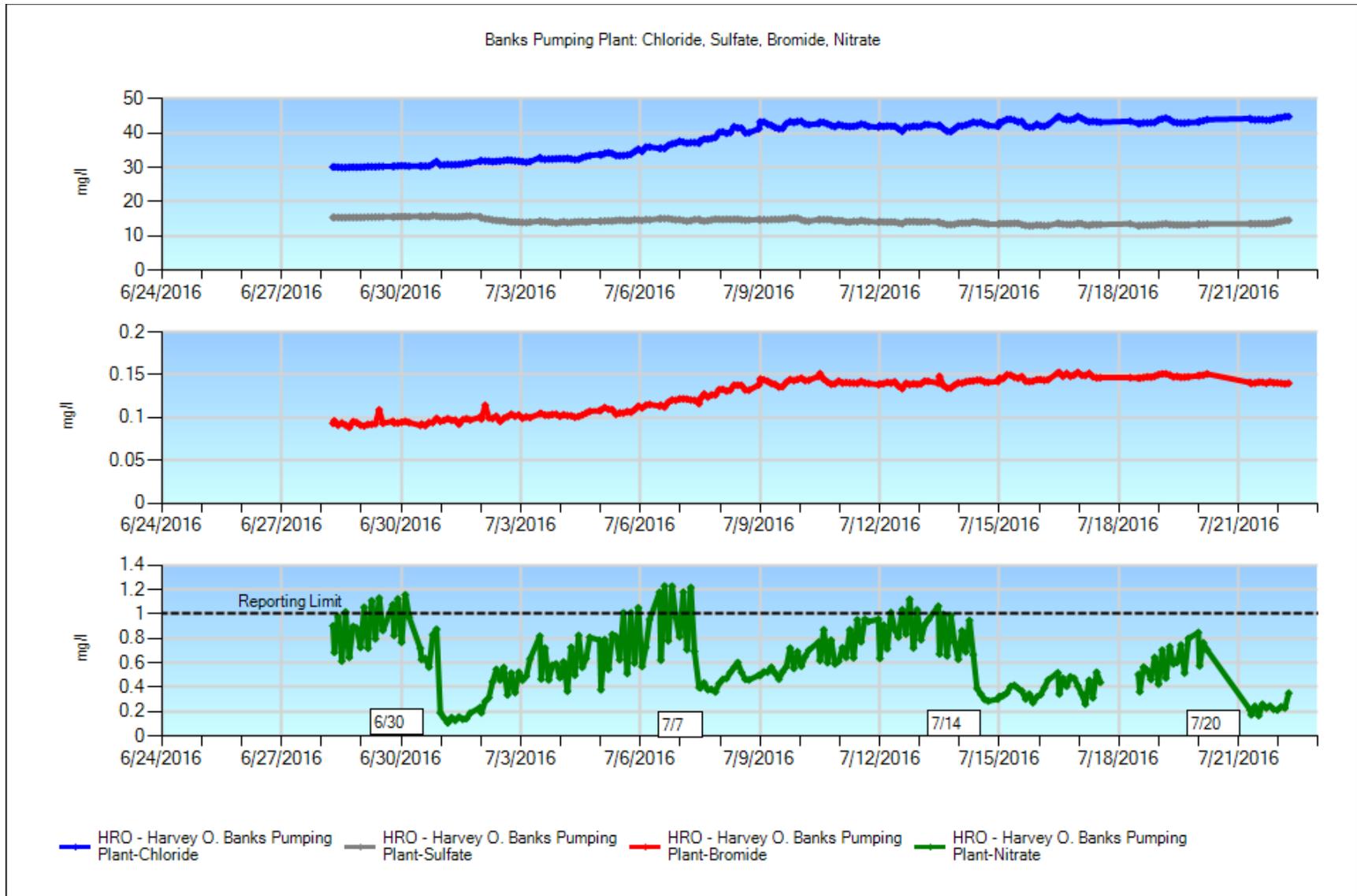
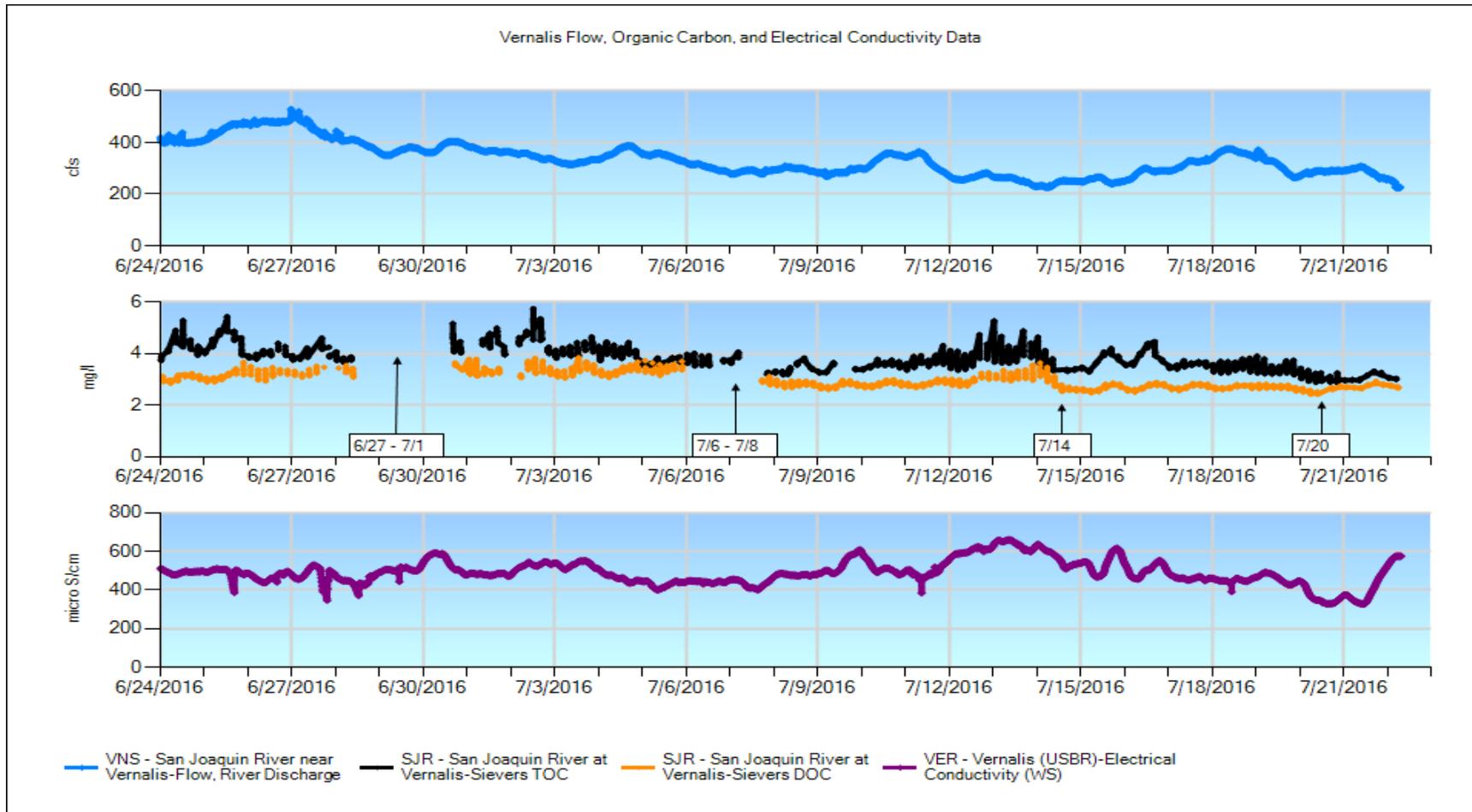


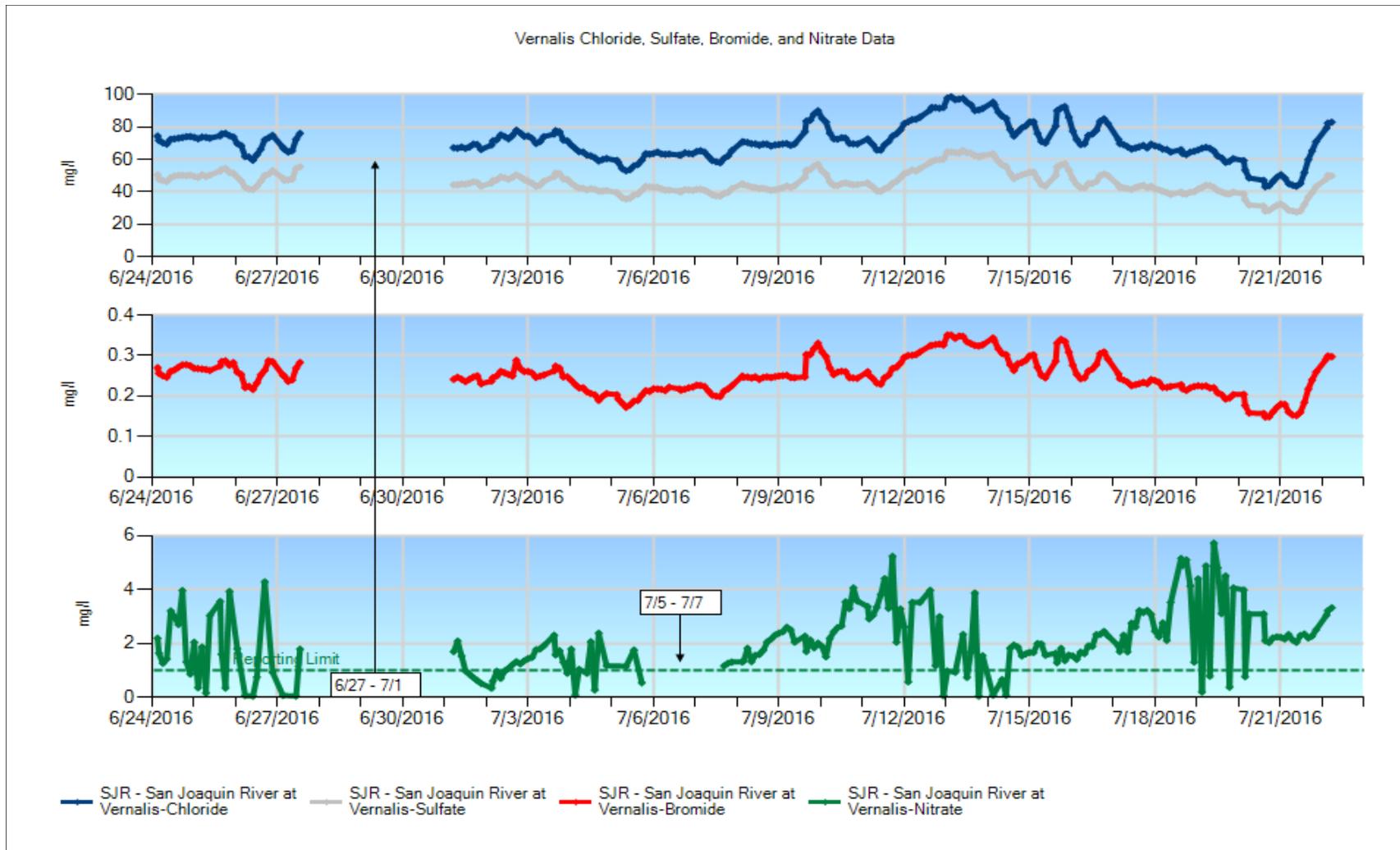
**6/30:** Analyzed all QC samples, all delivery system filters changed **7/7:** All delivery system filters changed **7/14:** All delivery system filters changed except for the 1 um **7/20:** All delivery system filters changed



**6/30:** Analyzed all QC samples, all delivery system filters changed **7/7:** All delivery system filters changed **7/14:** All delivery system filters changed except for the 1 um **7/20:** All delivery system filters changed, anion analyzer annual preventative maintenance performed



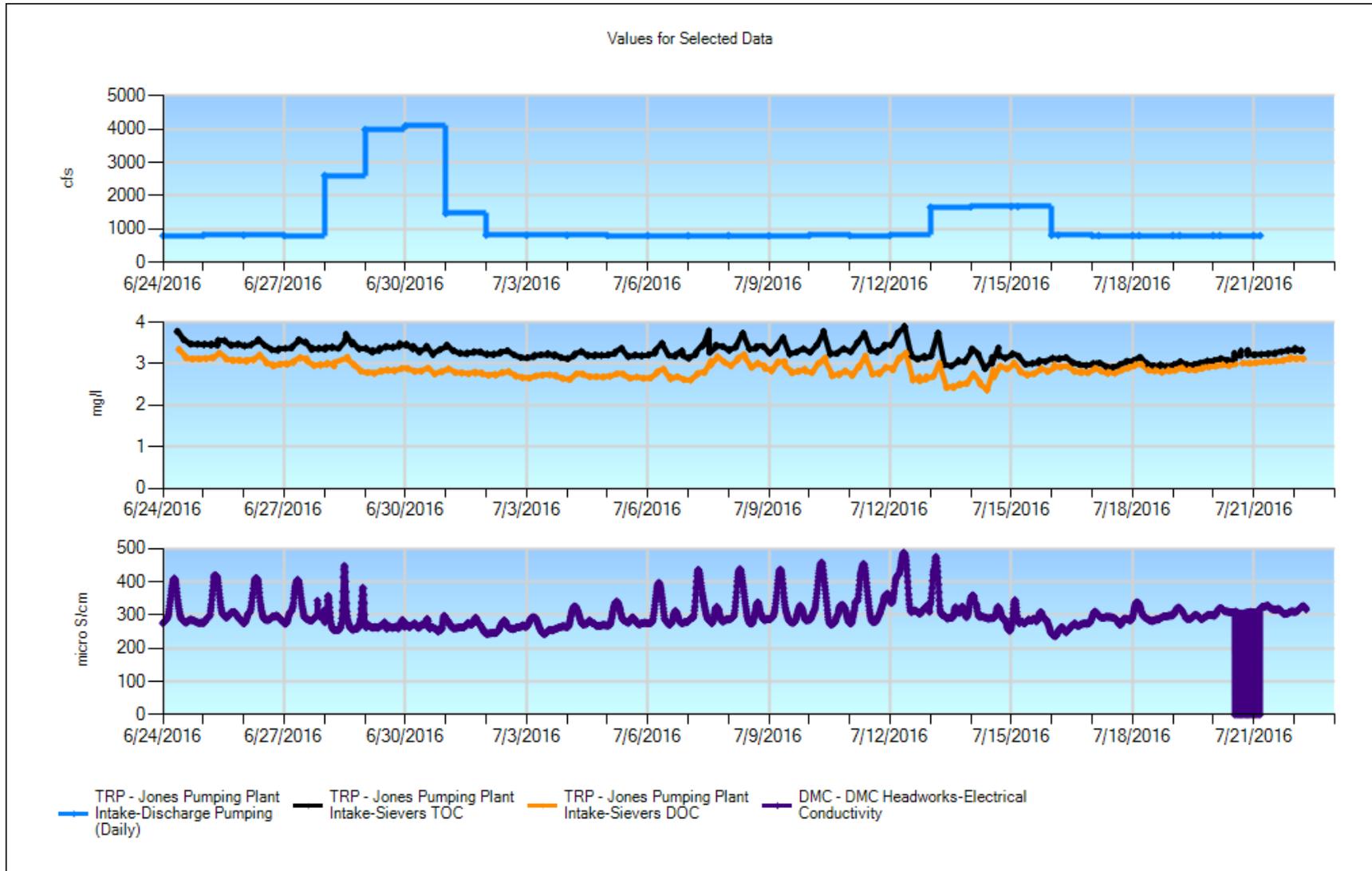
**Filter Changes:** 6/30, 7/20 = All filters. 7/7, 7/14 = Prefilters, 50, & 1 micron only. **Events:** 6/27 – 7/1: Erratic results indicated a carbon analyzer flow obstruction. Backflushed, installed new internal lines, and rebuilt instrument grab sample assembly. 7/6 – 7/8: Results still influenced by a flow problem. Flushed analyzer with hydrogen peroxide. Check standards analyzed to confirm accuracy before going back online. 7/14: Filter change followed by more precise results, indicated a potential problem with the filtration/delivery system. 7/20: QC event. Delivery system solenoid valves backflushed with hydrogen peroxide. All filters changed and TOC line set to run/bypass continuously at ten times the historical rate (this may have corrected the problem with TOC, at the expense of filter life). A filter change late next week will provide more information, but there seemed to be more than one problem during early July.



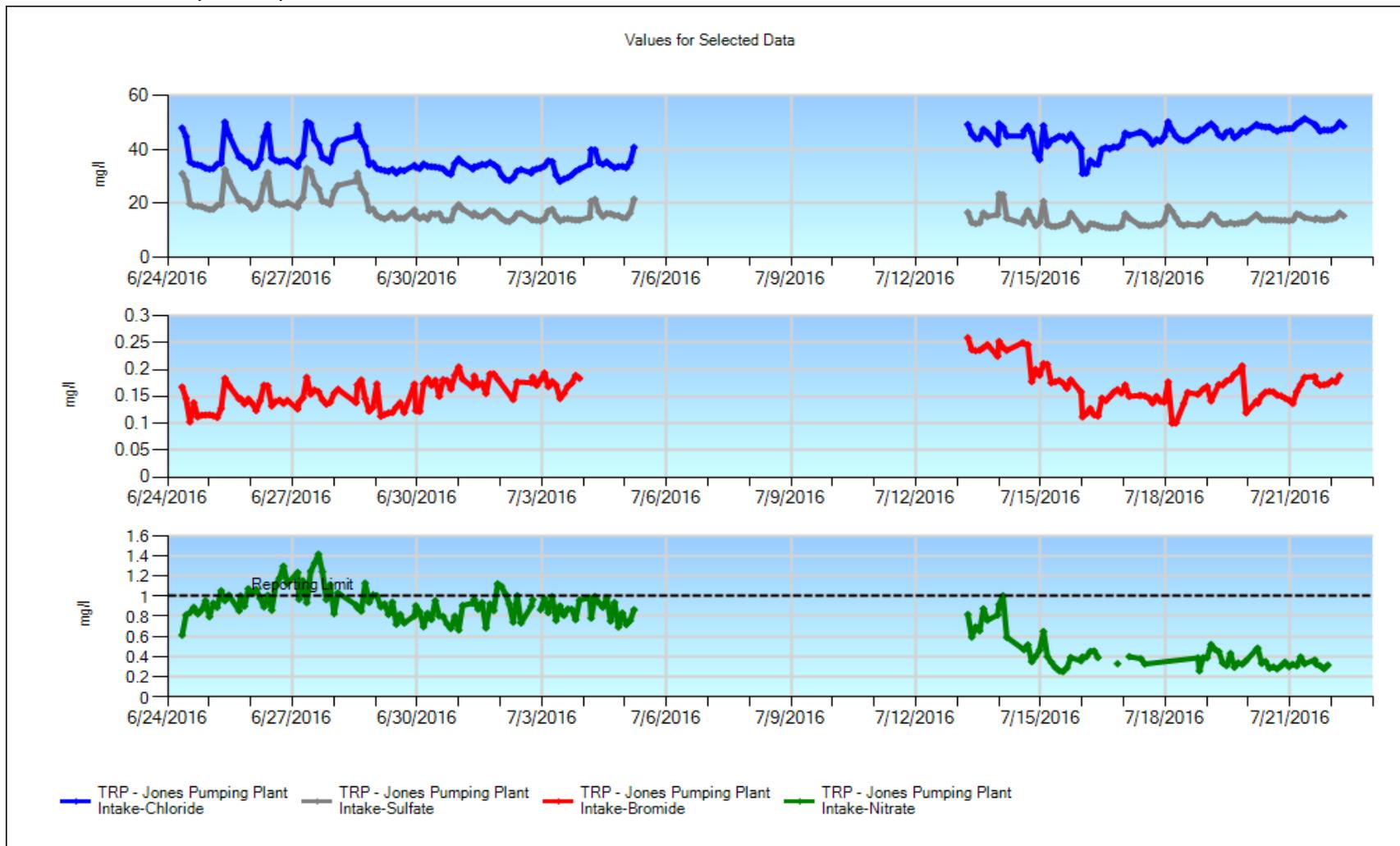
### Anion Update

**Events: 6/27 – 7/1:** A temporary air conditioning unit was installed at the station to adjust the station temperature to instrument based operating temperatures. Online sampling resumed and the internal temperature of the station remains stable. The replacement AC unit arrived at the office on 7/21 and will be installed during next week's maintenance run.

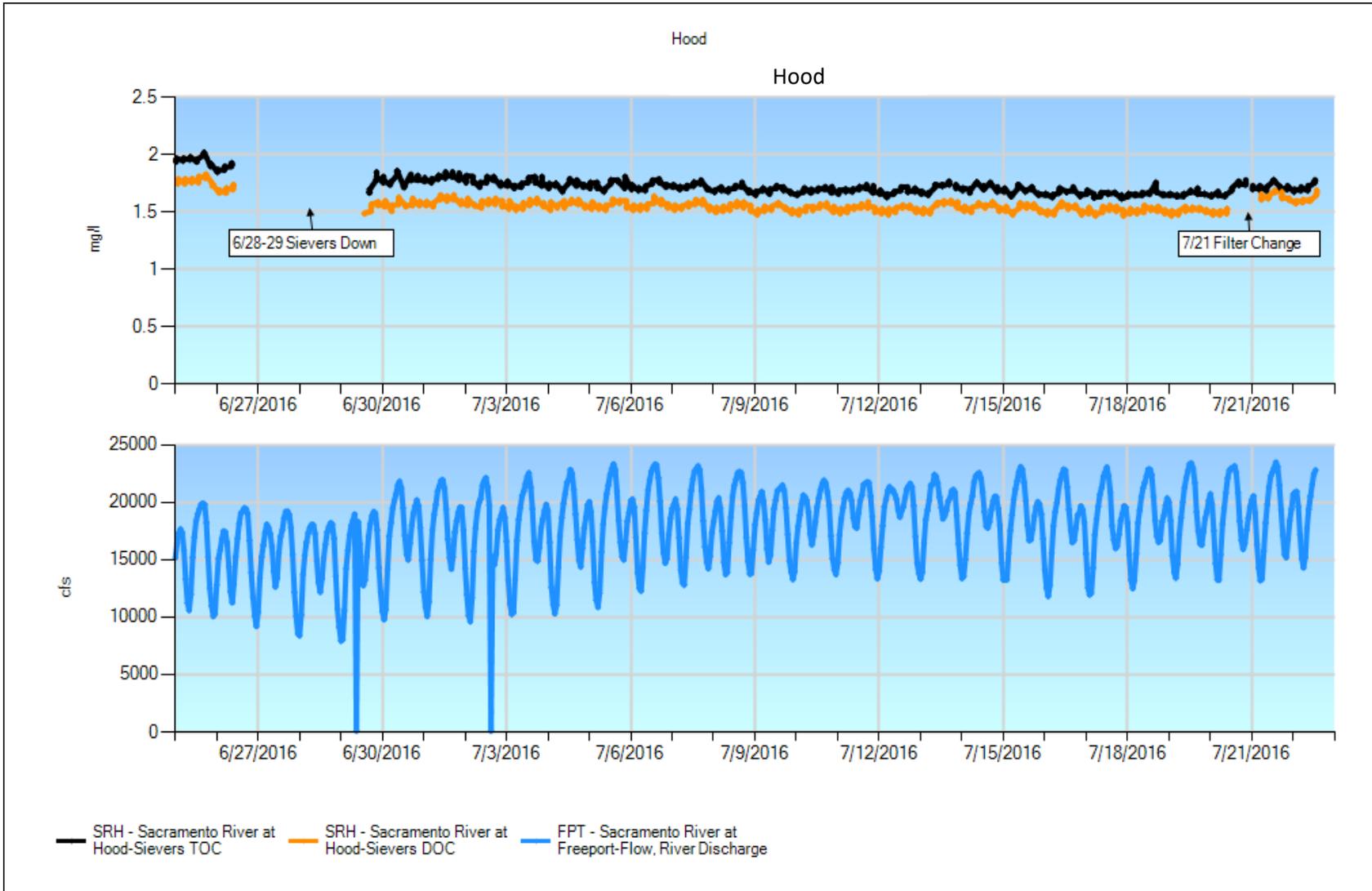
**Jones PP – Pumping, Organic Carbon and EC**



### Jones PP – Chloride, Sulfate, Bromide and Nitrate



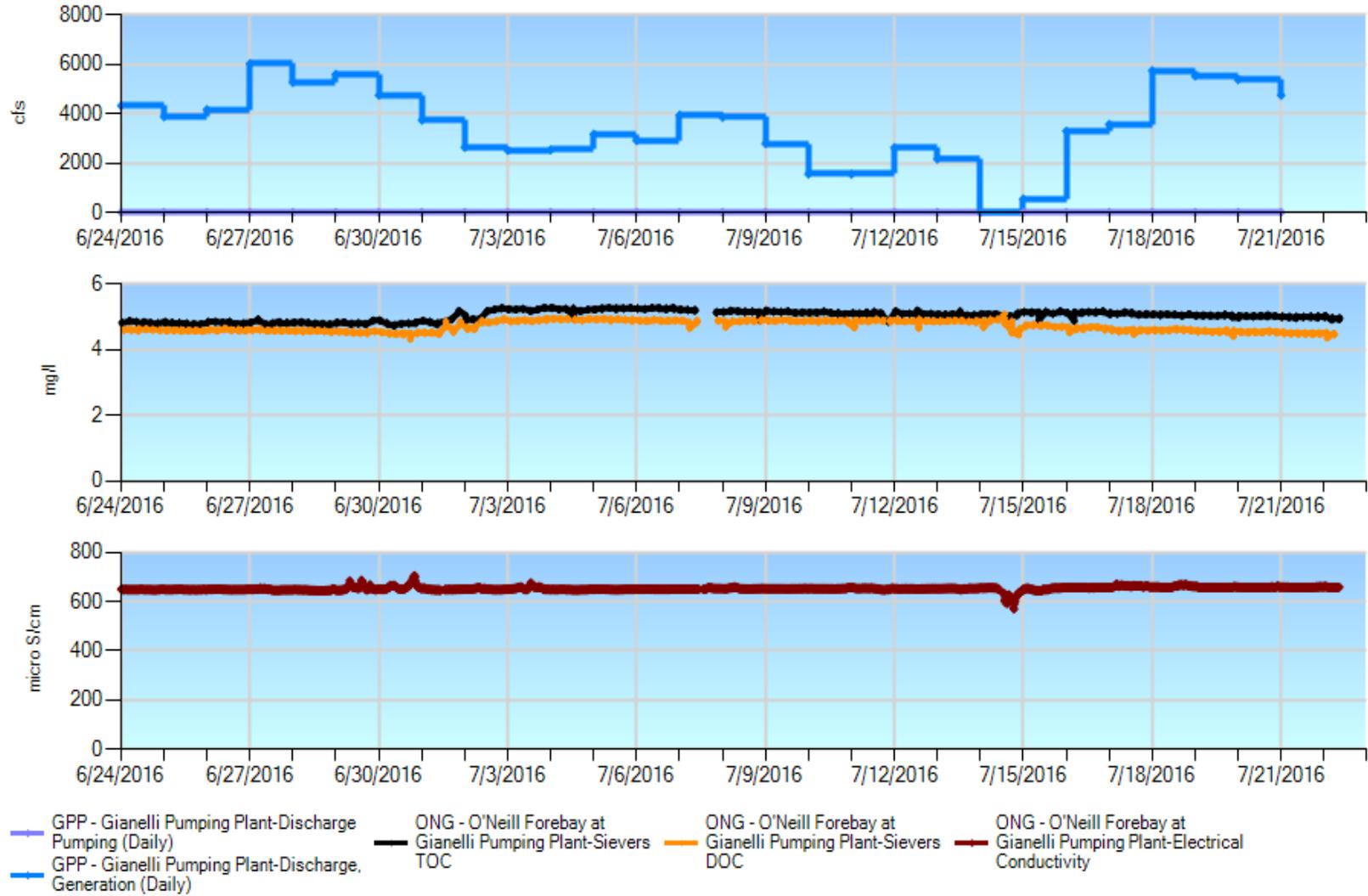
**Note** - Most nitrate values are below the R.L. **7/2 -7/13** - There were three calibrations and removal of unacceptable data. We continue to adjust eluent concentrations within the Dionex in order to improve bromide peaks. Each time we change the eluent concentration, the Dionex has to be recalibrated. **7/8** – replaced anion stock standard.



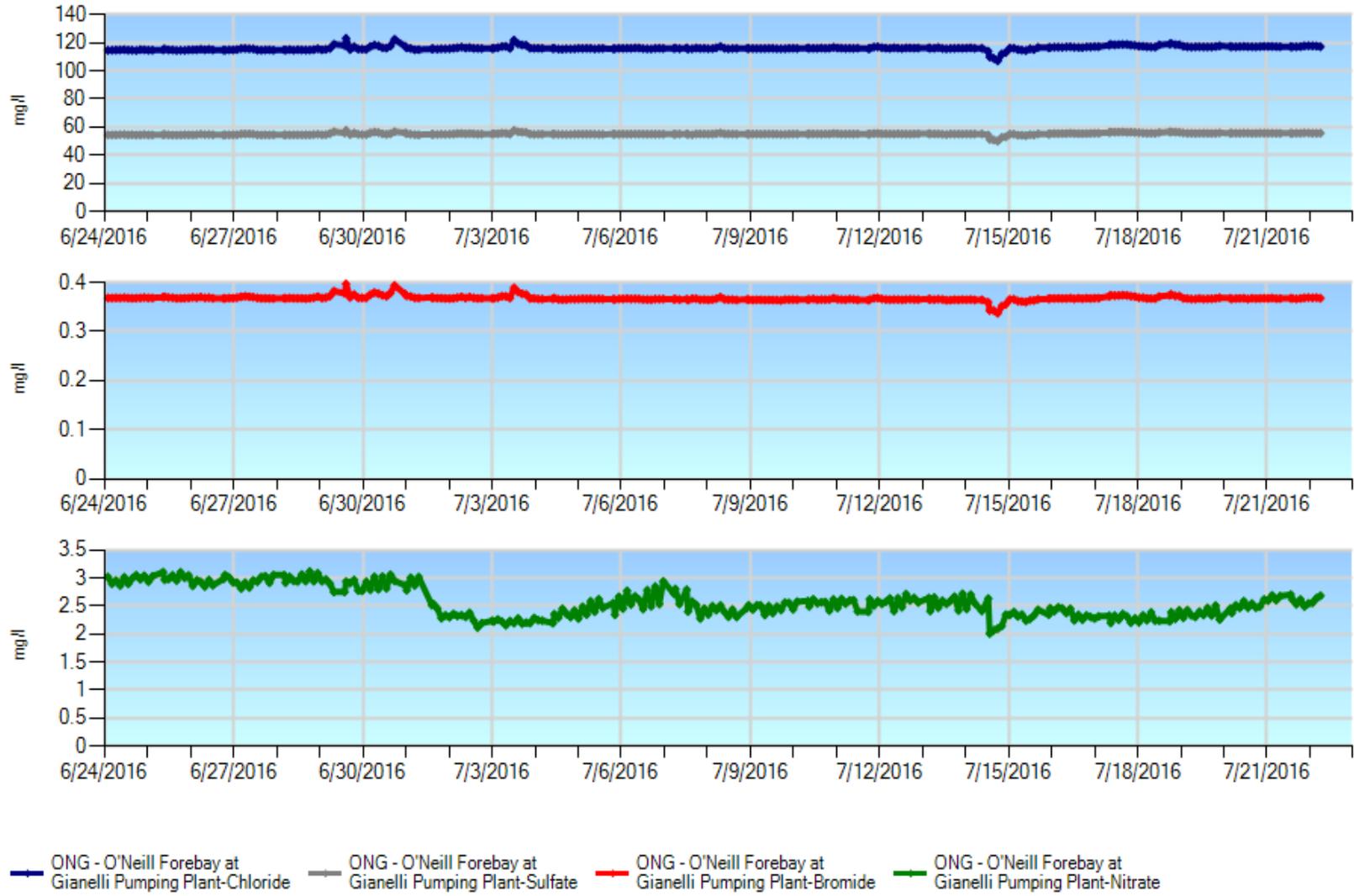
**Significant Events: June 25<sup>th</sup> 2016 to July 22<sup>th</sup> 2016**

- **6/28-29: Sievers Firmware Error:** Hood was not operational due to a firmware error on the sievers. A new firmware was installed in the Sievers and it started operating normally.
- **7/21 Filter Change:** The 100 micron and .45 micron filters were replaced. This caused a spike on the TOC and DOC side on the graph.

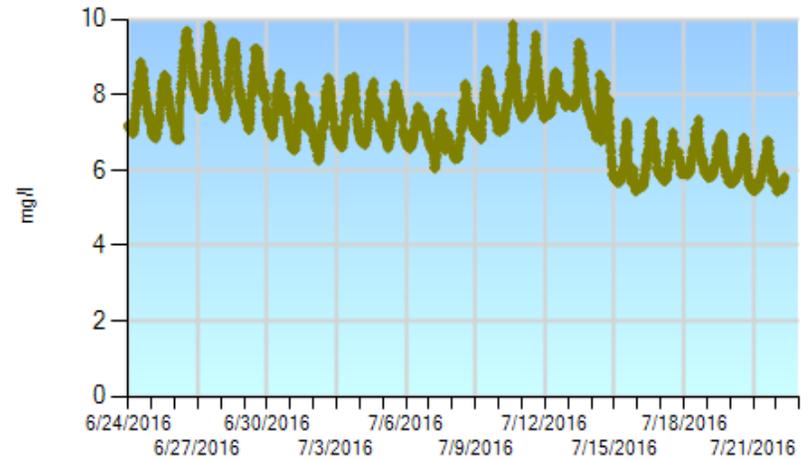
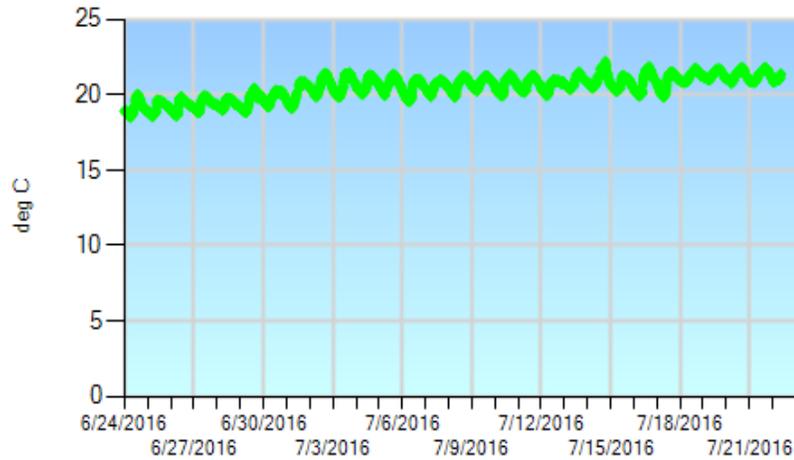
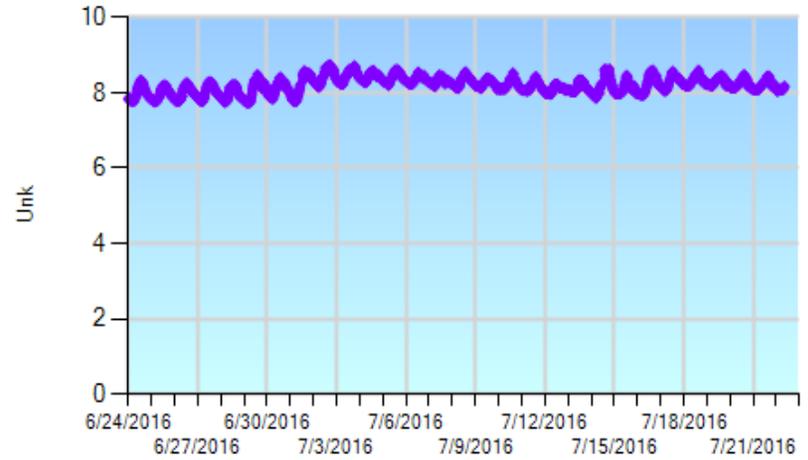
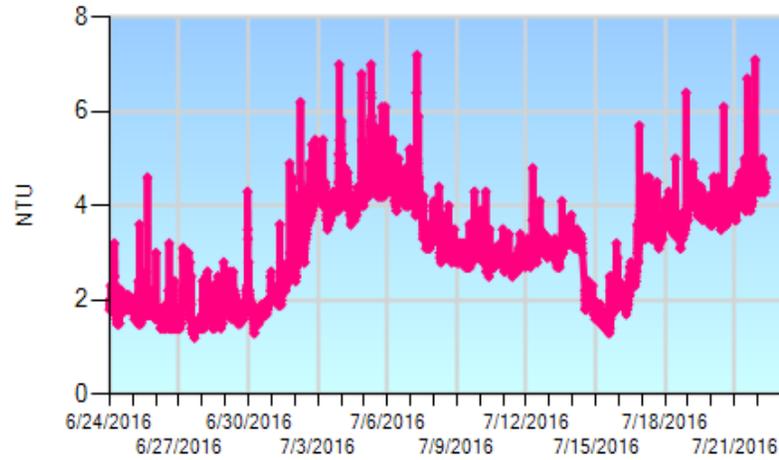
Gianelli: Pumping - TOC, DOC - EC



Gianelli: Chloride, Sulfate, Bromide, Nitrate

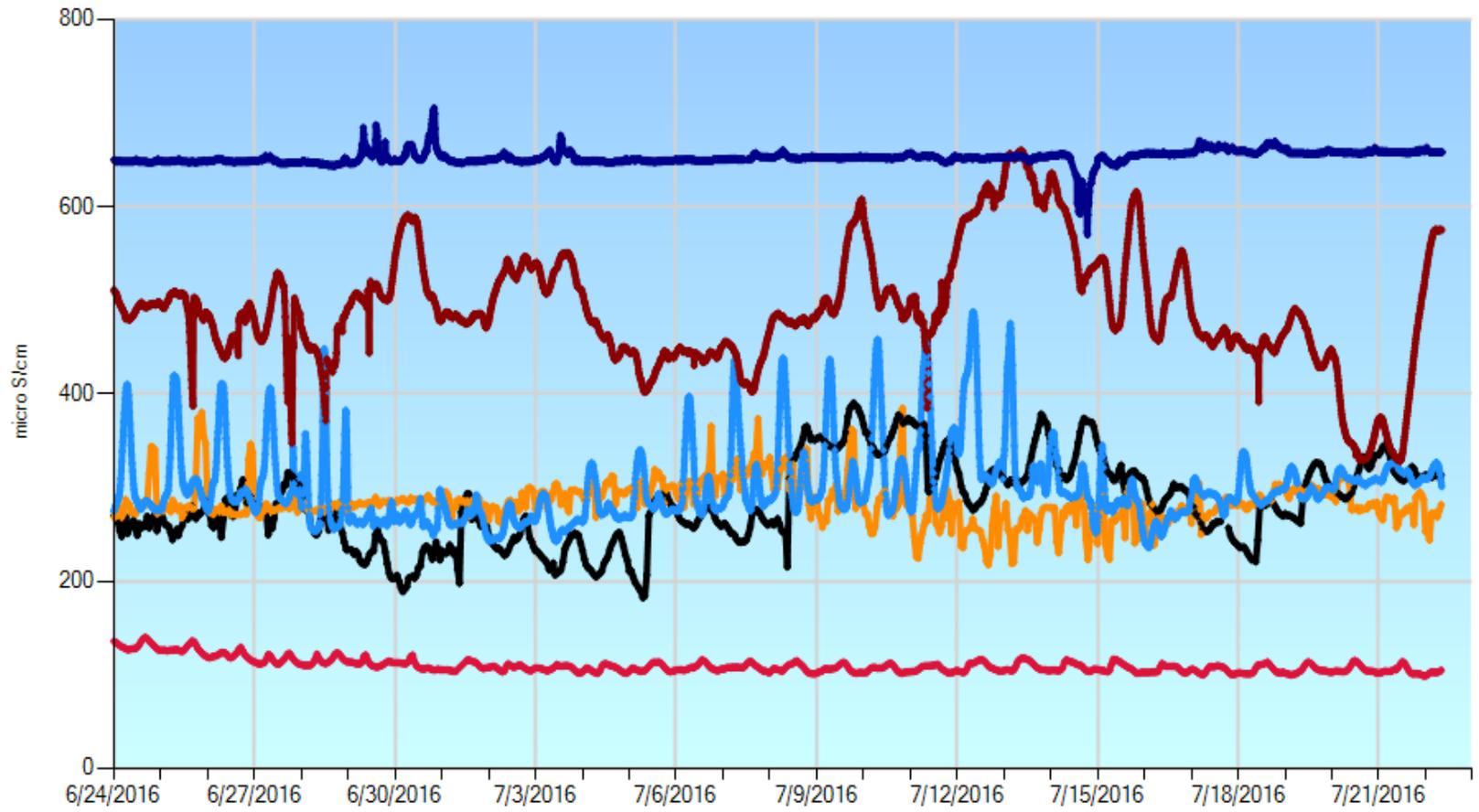


Gianelli: Turbidity, pH, Temperature, Disolved Oxygen



— ONG - O'Neill Forebay at Gianelli Pumping Plant-Water, Turbidity  
— ONG - O'Neill Forebay at Gianelli Pumping Plant-pH  
— ONG - O'Neill Forebay at Gianelli Pumping Plant-Temperature, Water (deg C)  
— ONG - O'Neill Forebay at Gianelli Pumping Plant-Dissolved Oxygen

EC



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

Bromide

