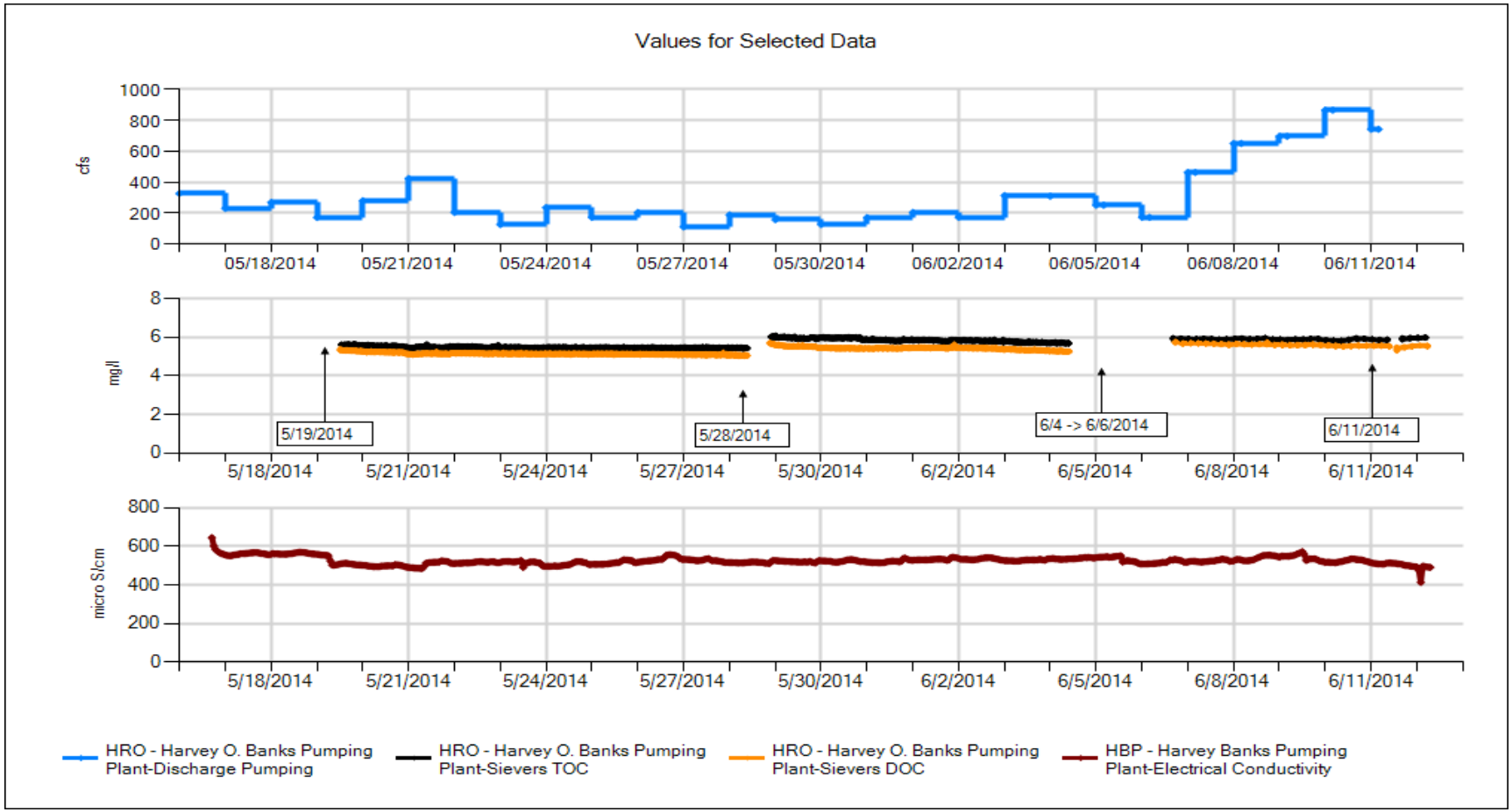
**Banks Pumping Plant – Discharge Pumping, TOC, DOC and EC**



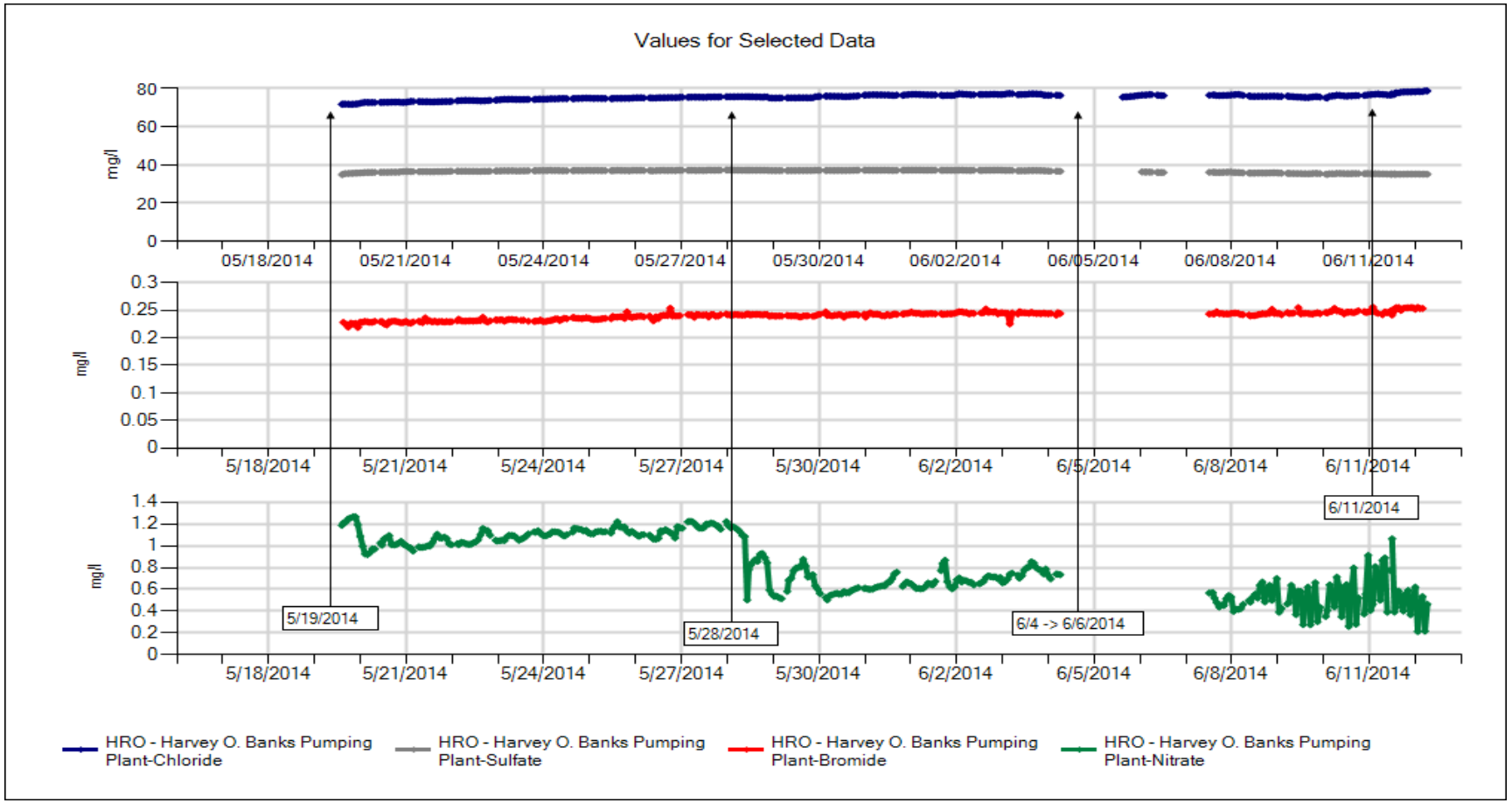

5/19/2014 – Restarted instruments after power outage

5/28/2014 – Changed all delivery system filters, analyzed all QC samples, installed new oxidizer cartridge in carbon analyzer, cleaned delivery system lines

6/4 to 6/6/2014 – Installed new reduced sampling organic carbon delivery manifold and re-plumbed entire sample delivery system

6/11/2014 – Changed 100 um pre-filter, analyzed all QC samples including new LCS and LCS duplicate standards

**Banks Pumping Plant – Chloride, Sulfate, Bromide and Nitrate**

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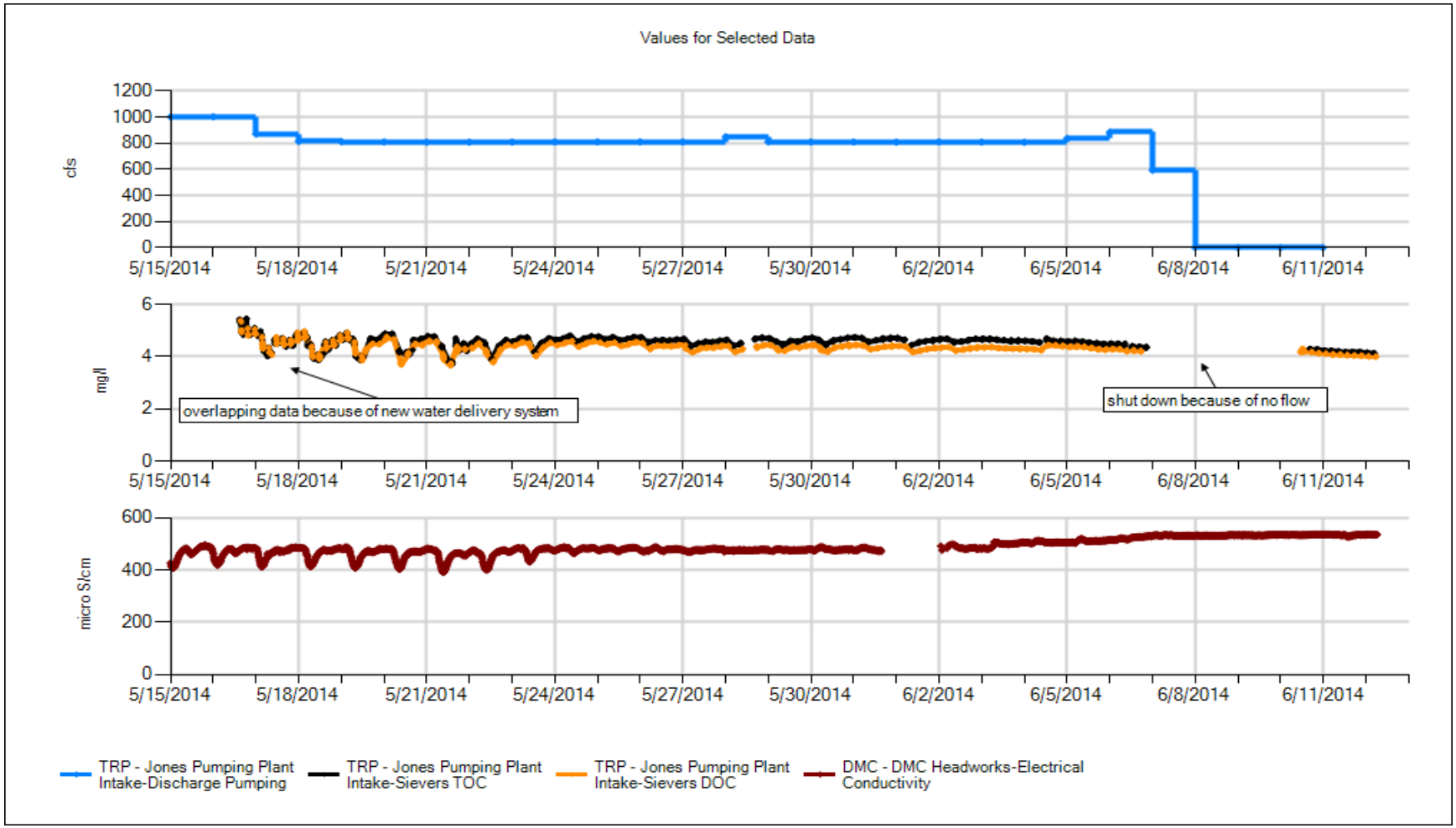
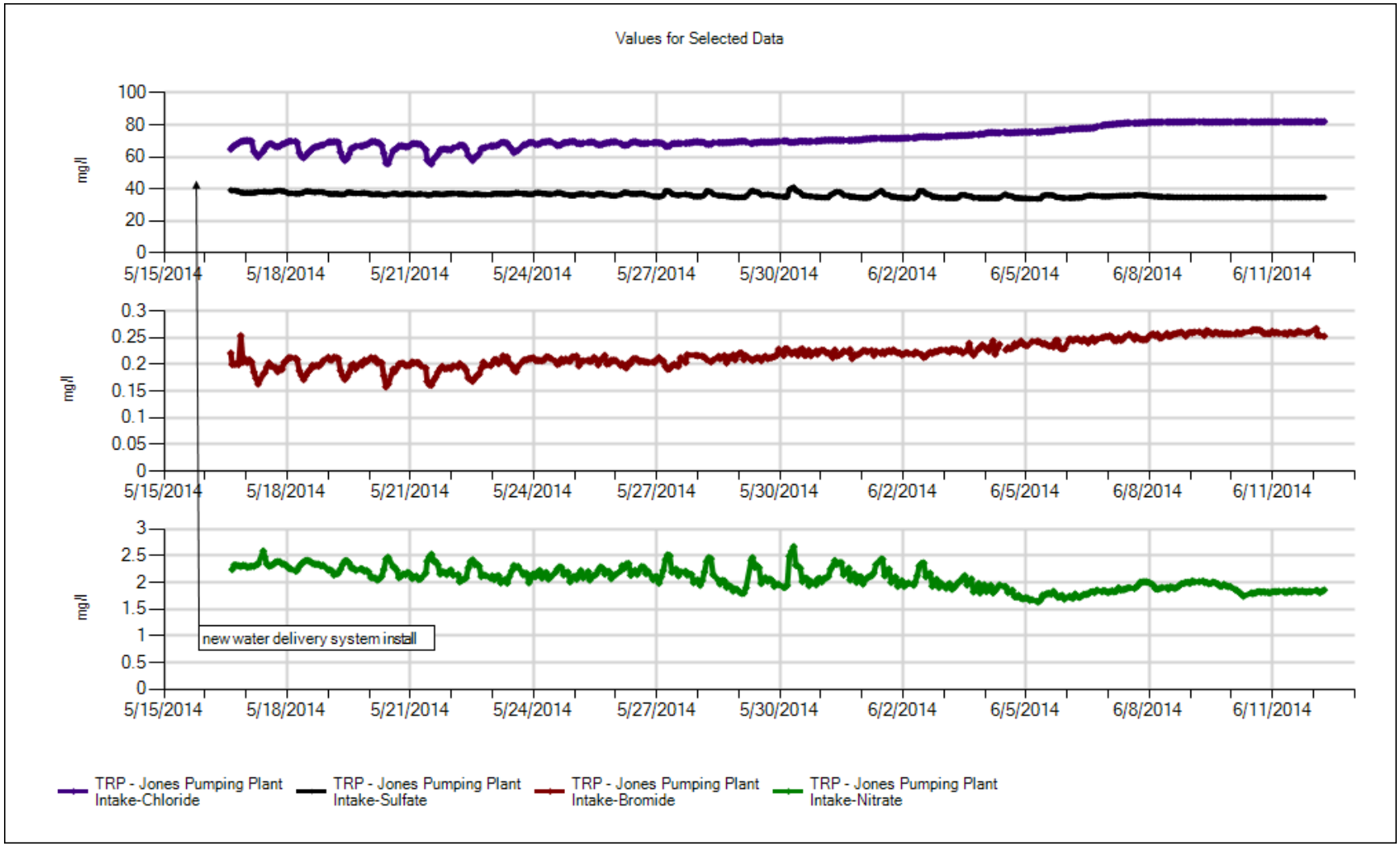
**Jones PP – Pumping, Organic Carbon, and EC**

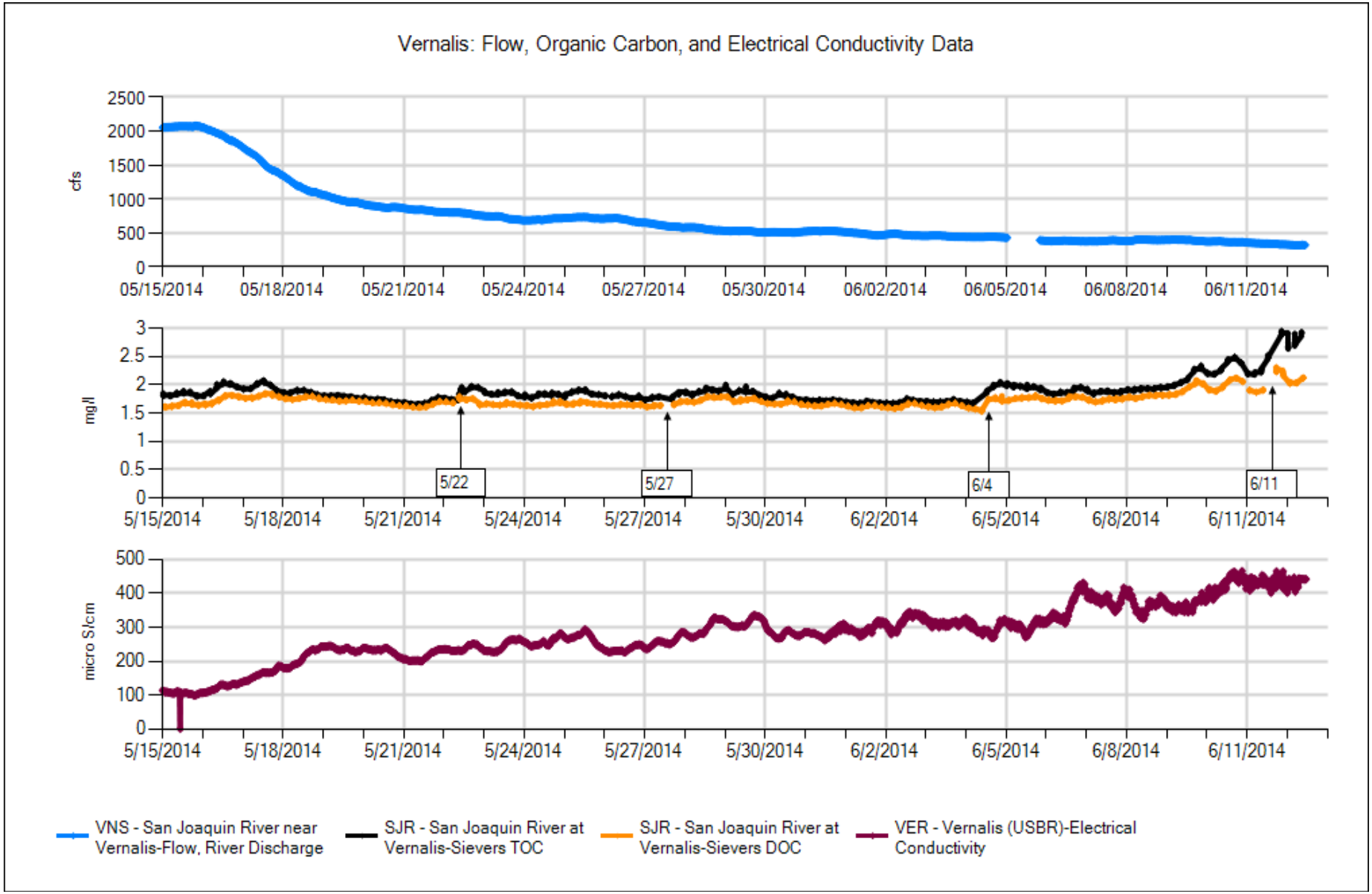



**5/15 – 5/17** – The system was down due to new water delivery system install **5/17 -5/18** –The new data logging program was not working properly. Updated patch was installed. **5/19** – Flow sensor was stuck in the "on" position. IOS was cleaned and flow returned to normal. **5/28** – all pre-filters were changed. **5/24 -6/7** – almost no tidal influence due to minimal pumping - there will be no pumping at the plant between **6/8 – 6/28. 6/4** – changed 75 and 0.45 micron filters. **6/7 – 6/10** – The system shut itself off for reasons unknown. **6/10** - There was a lack of flow getting to the instruments, which caused the shut off. Flow was restored.

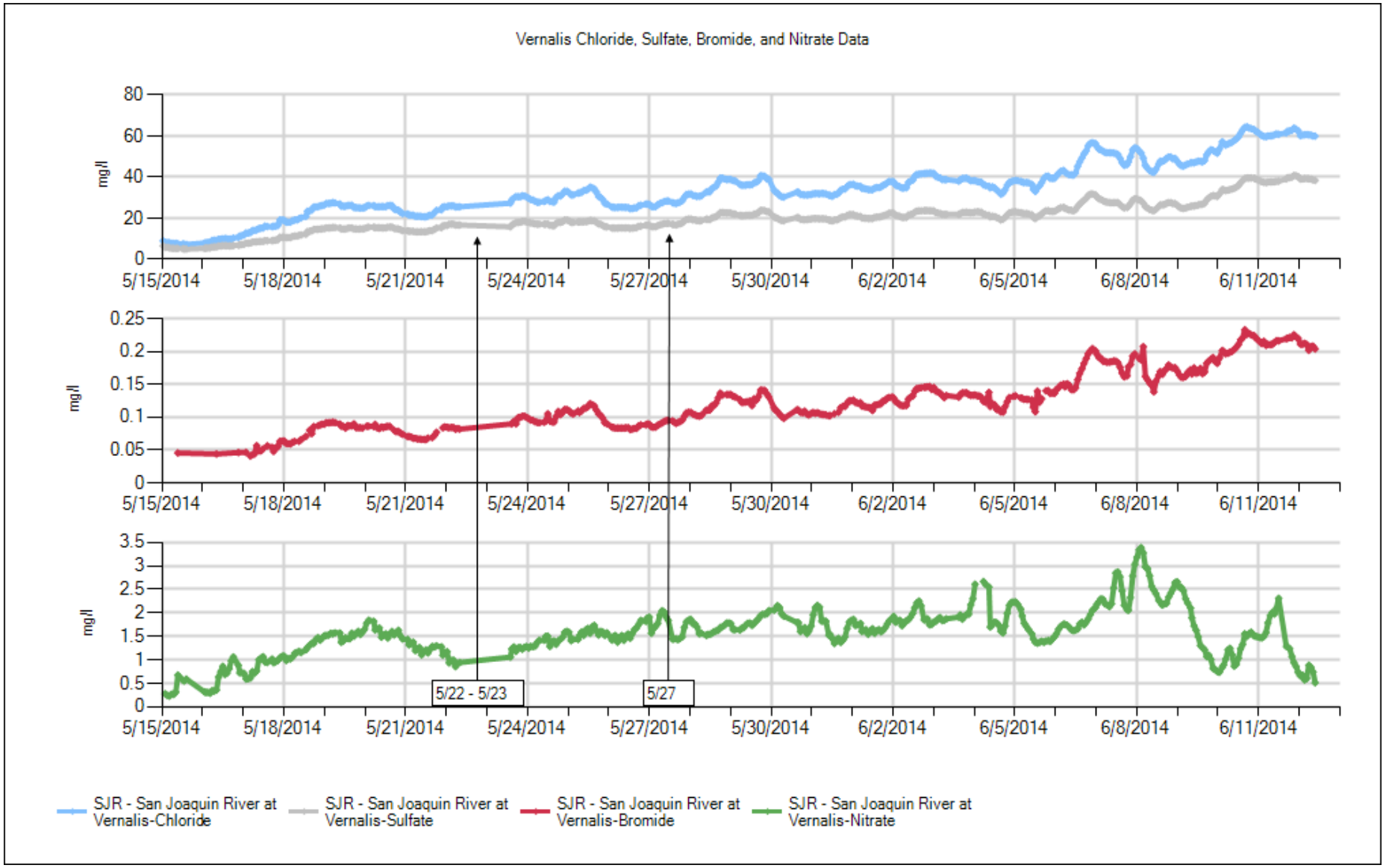
**Jones PP – Chloride, Sulfate, Bromide, and Nitrate**



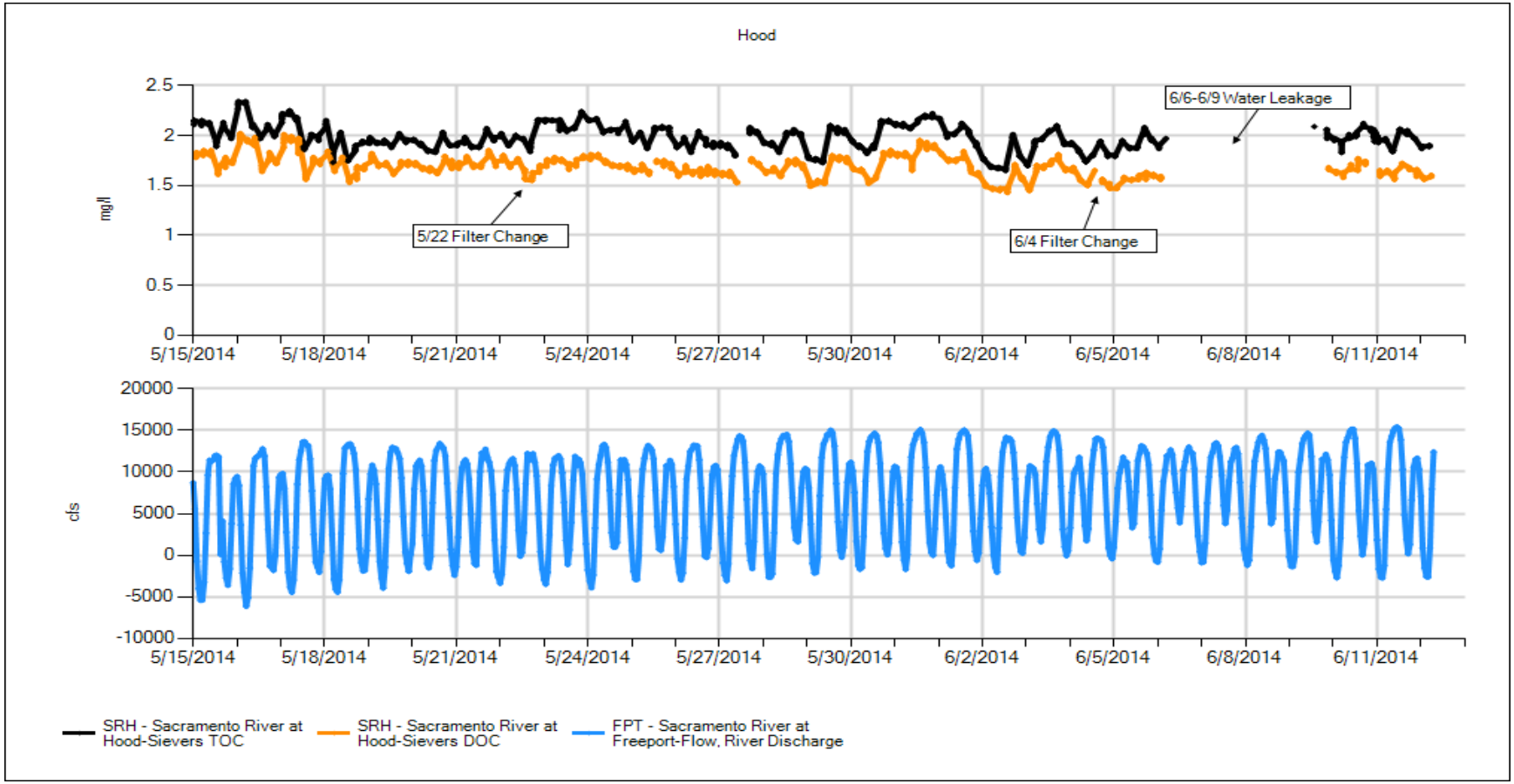

**5/15 – 5/17** – new water delivery system installed. **6/4** – new guard column installed. Anion values have "flat lined" because as of 6/8, Jones Pumping Plant is no longer pumping. Jones will resume pumping 6/29. Both instruments are running smoothly to date. The amount of filters needed to be changed weekly has decreased significantly.




**Filter Changes: 5/22 prefilters, 5/27 all filters, 6/4 prefilters, 6/11 all filters. Events: 5/27 & 6/11:** Cleaned pump intake screen.




**Events: 5/22-5/23:** The loading pump was leaking, causing the analyzer to go to "idle" mode. Pump was exchanged with the dilution pump and system primed to get the analyzer back online. **5/27:** The leaking pump was rebuilt by the Dionex Tech, and new peristaltic tubing was added.

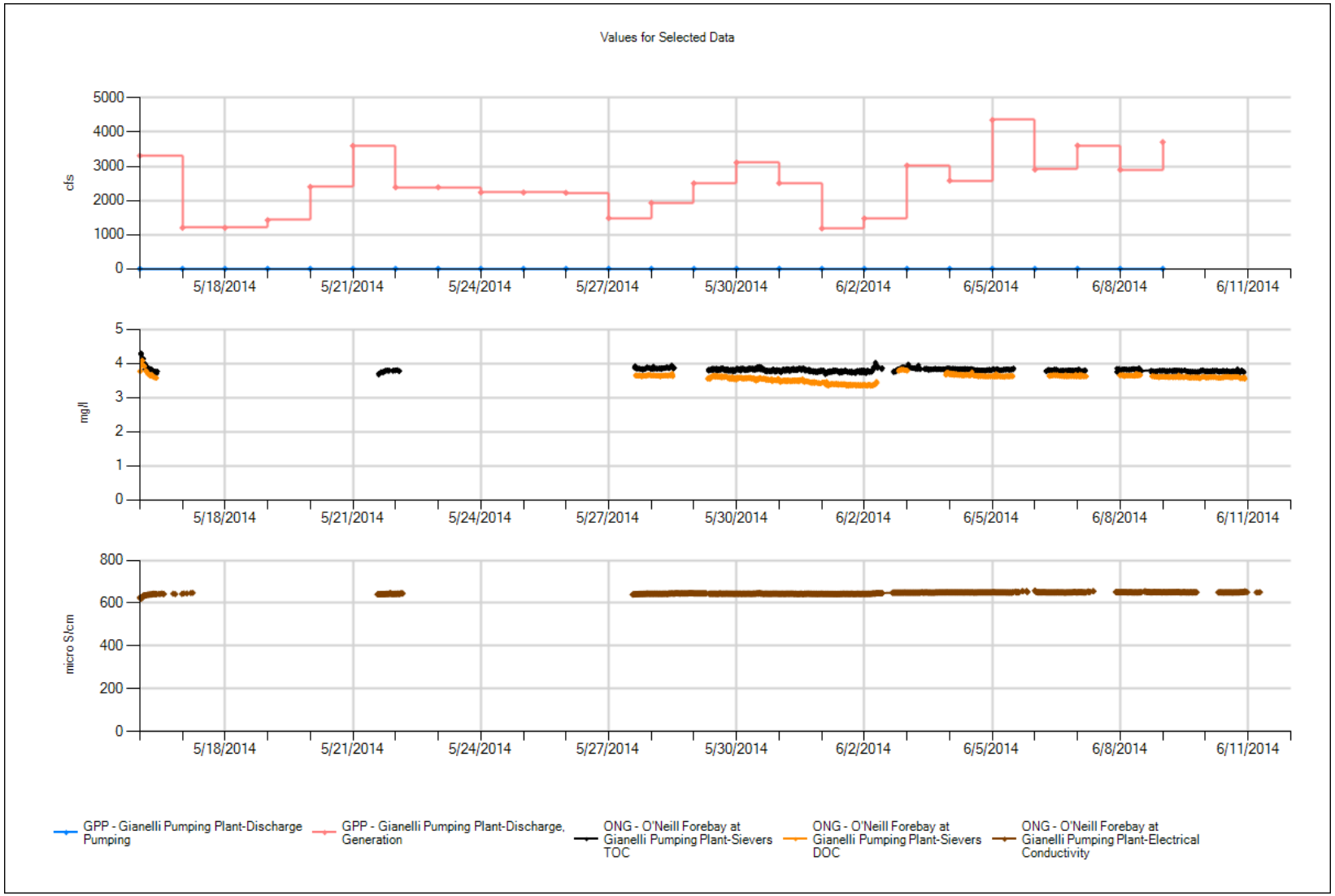



**Significant Events:** May 15th, 2014 to June 13th, 2014

## Hood Notes

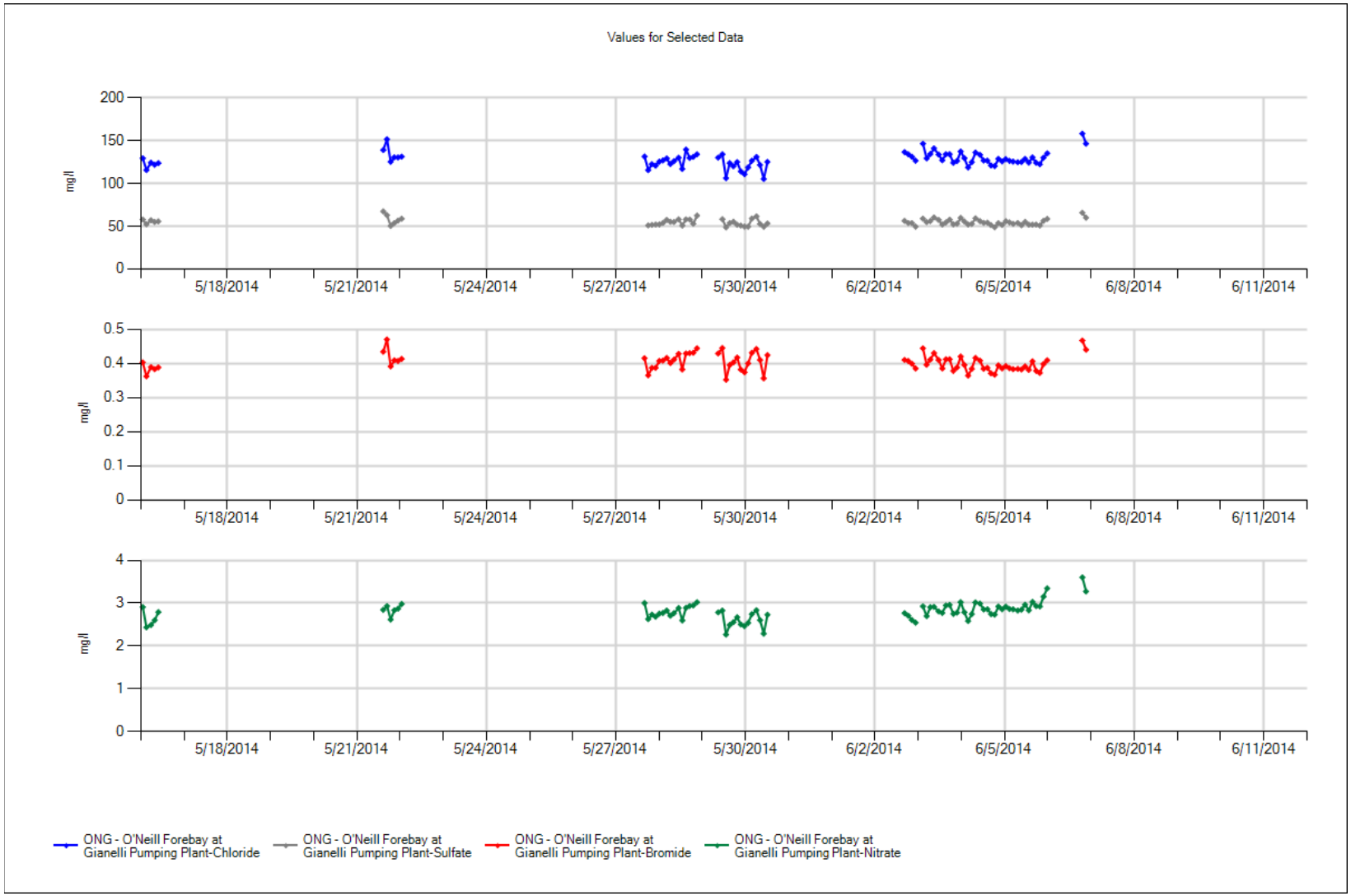
- **5/22 Filter and Acid Cartridge Change:** Changed the 75, 50, and 5 micron filters.
- **6/4 Filter Change:** 75µ changed.
- **6/6-6/9 Water Leakage:** On Friday afternoon (June 6th), the main water supply hose coming from the pump and running underneath the station leaked. This was due to a barb coupler that came undone, and caused the water to spill back to the river instead of reaching the station. The station did not take any readings during that weekend, but it was promptly repaired on Monday to resume operation.

Gianelli – Pumping, Organic Carbon and EC




- Throughout the past month there have been intermittent problems with the intake tubing and the pump getting clogged.

Gianelli – Chloride, Sulfate, Bromide, Nitrate

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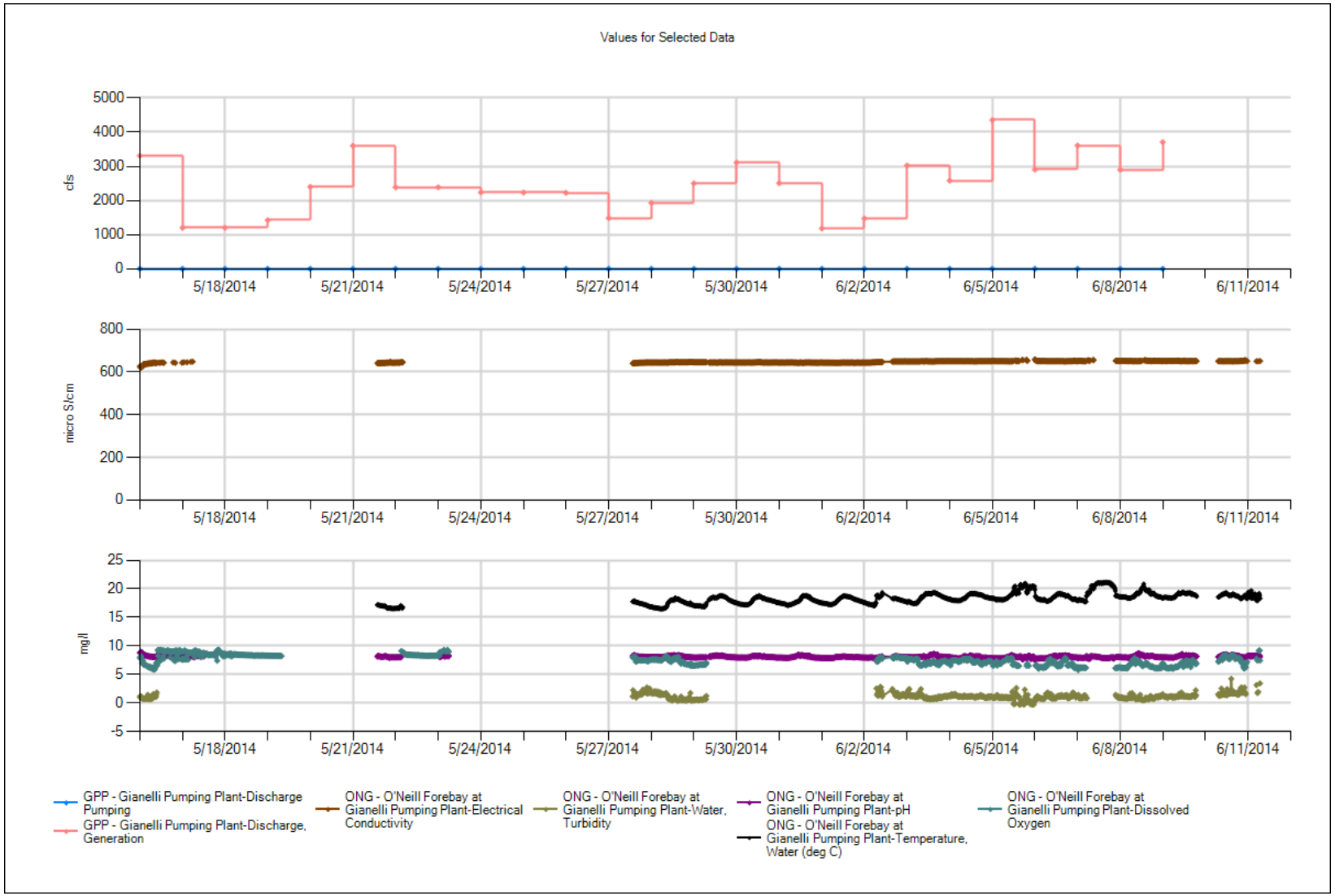
Gianelli – EC, Temperature, pH, DO & Turbidity

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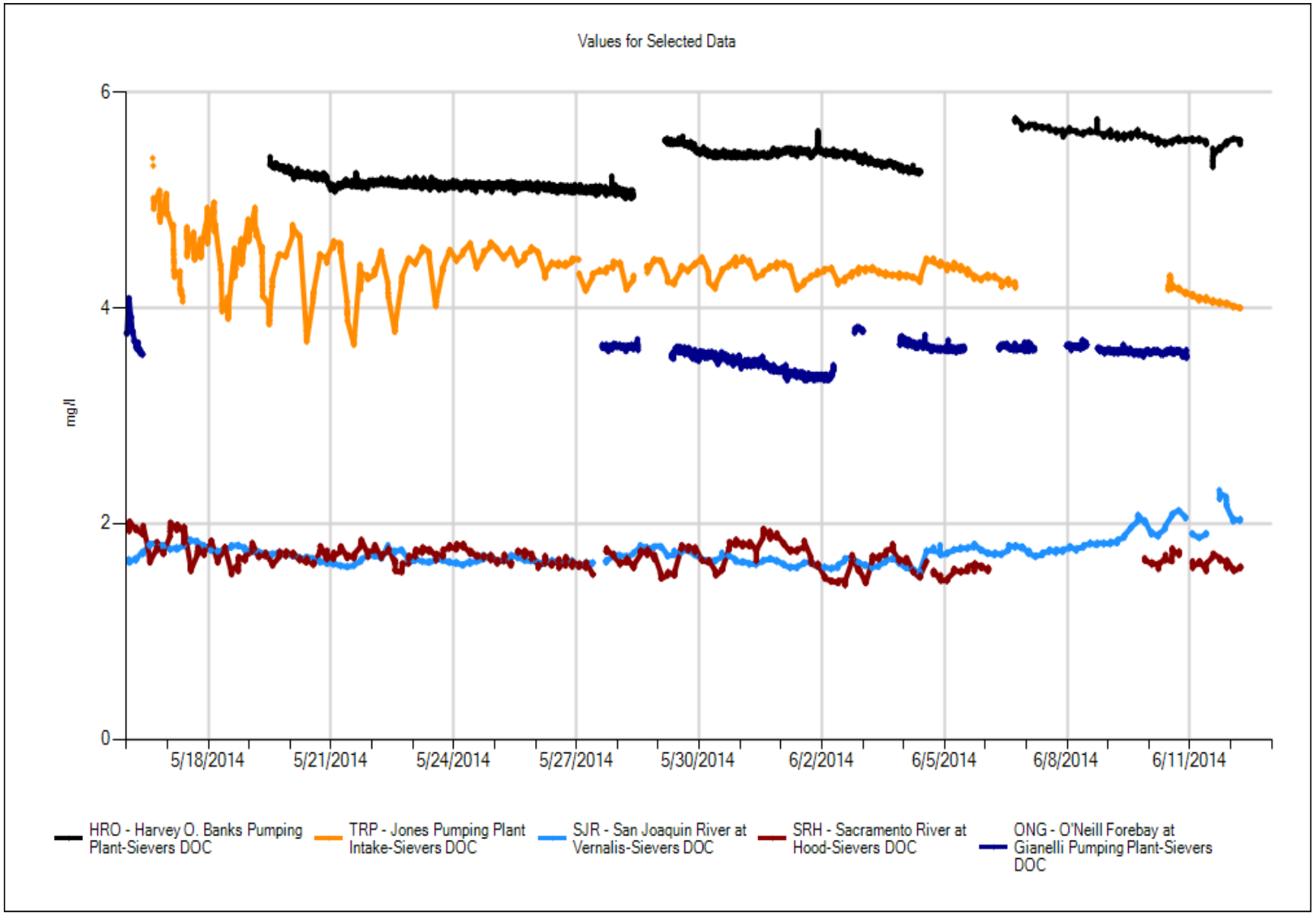
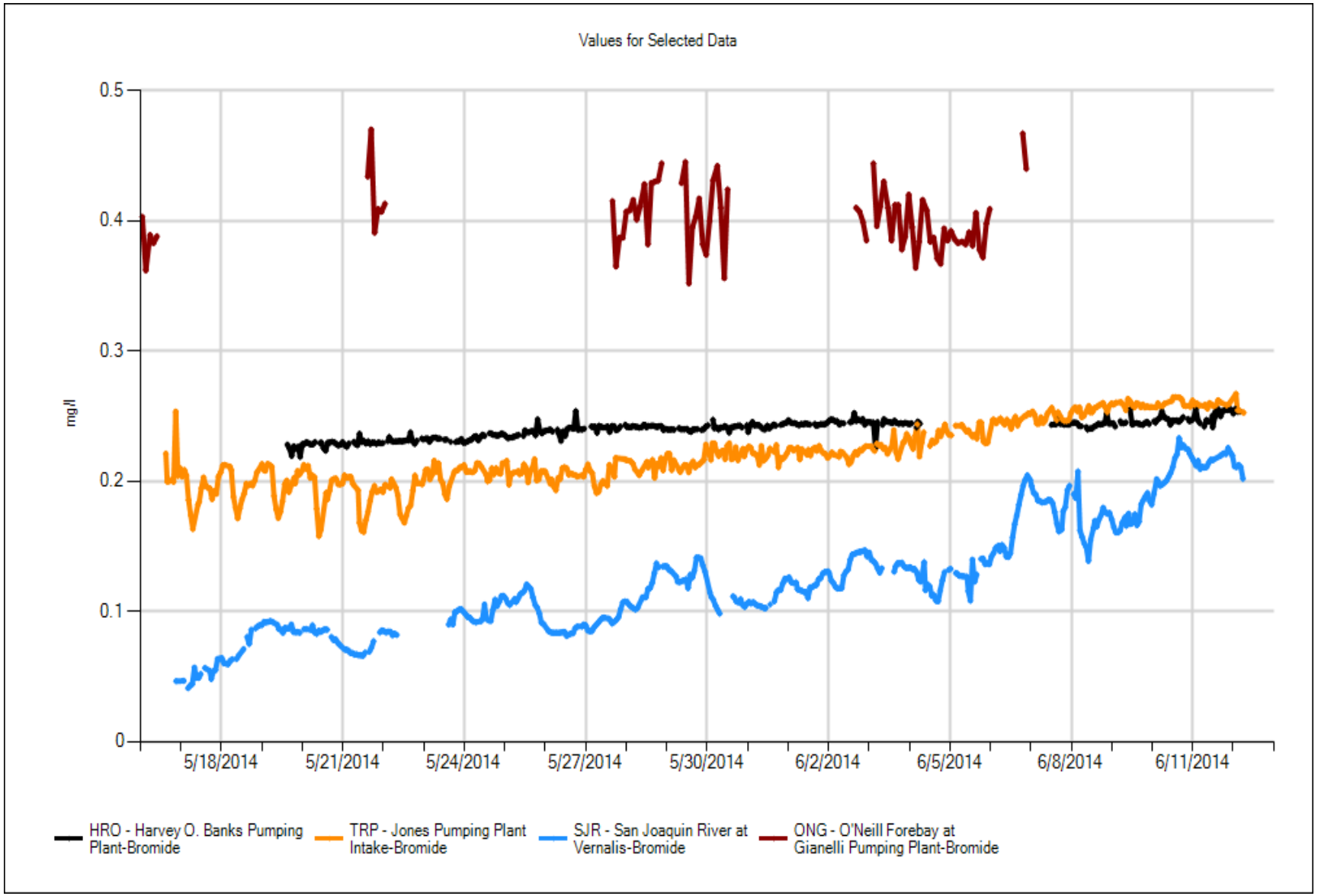
All Stations DOC



All Stations Bromide (Except Hood)



All Stations EC