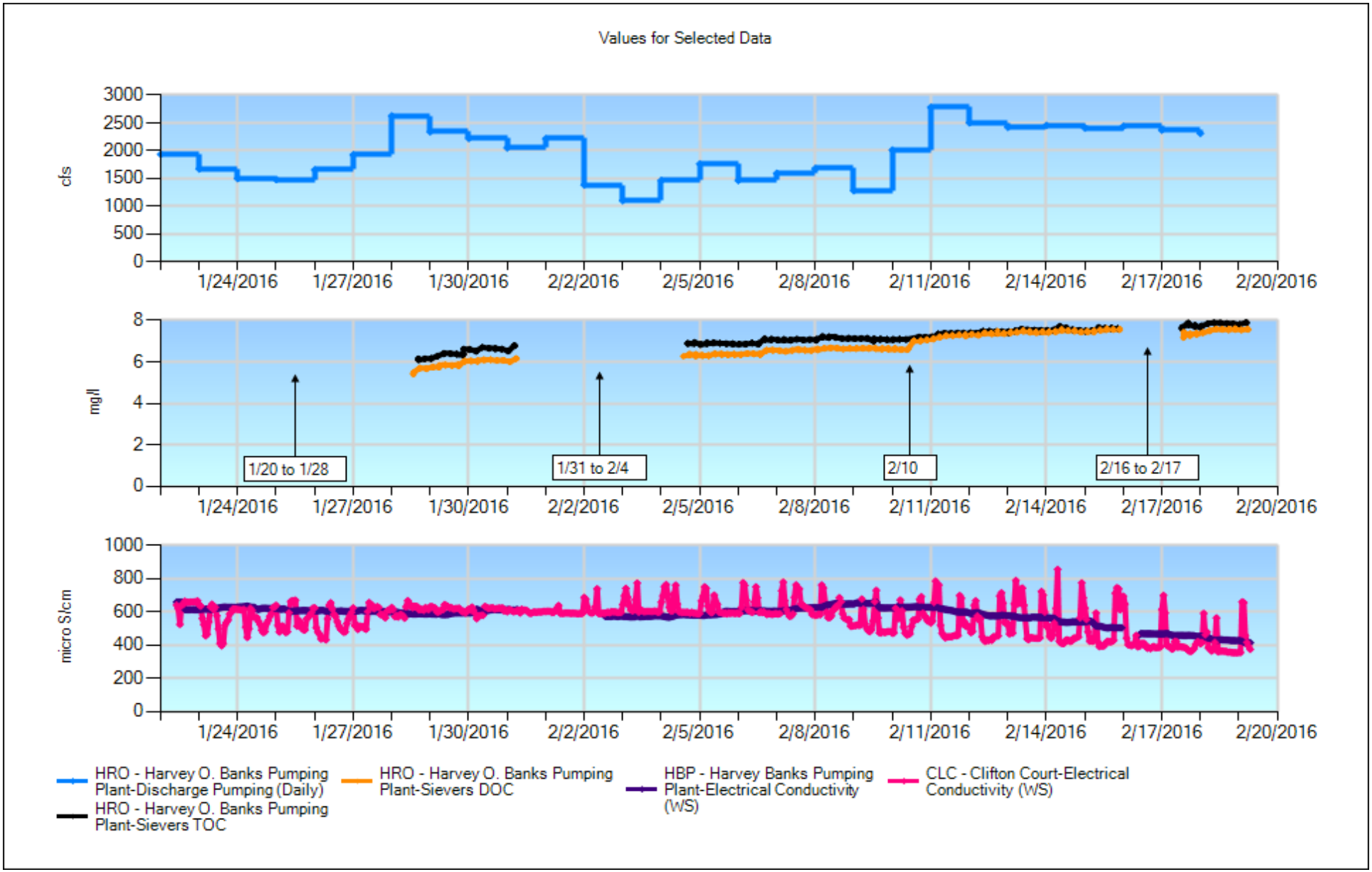
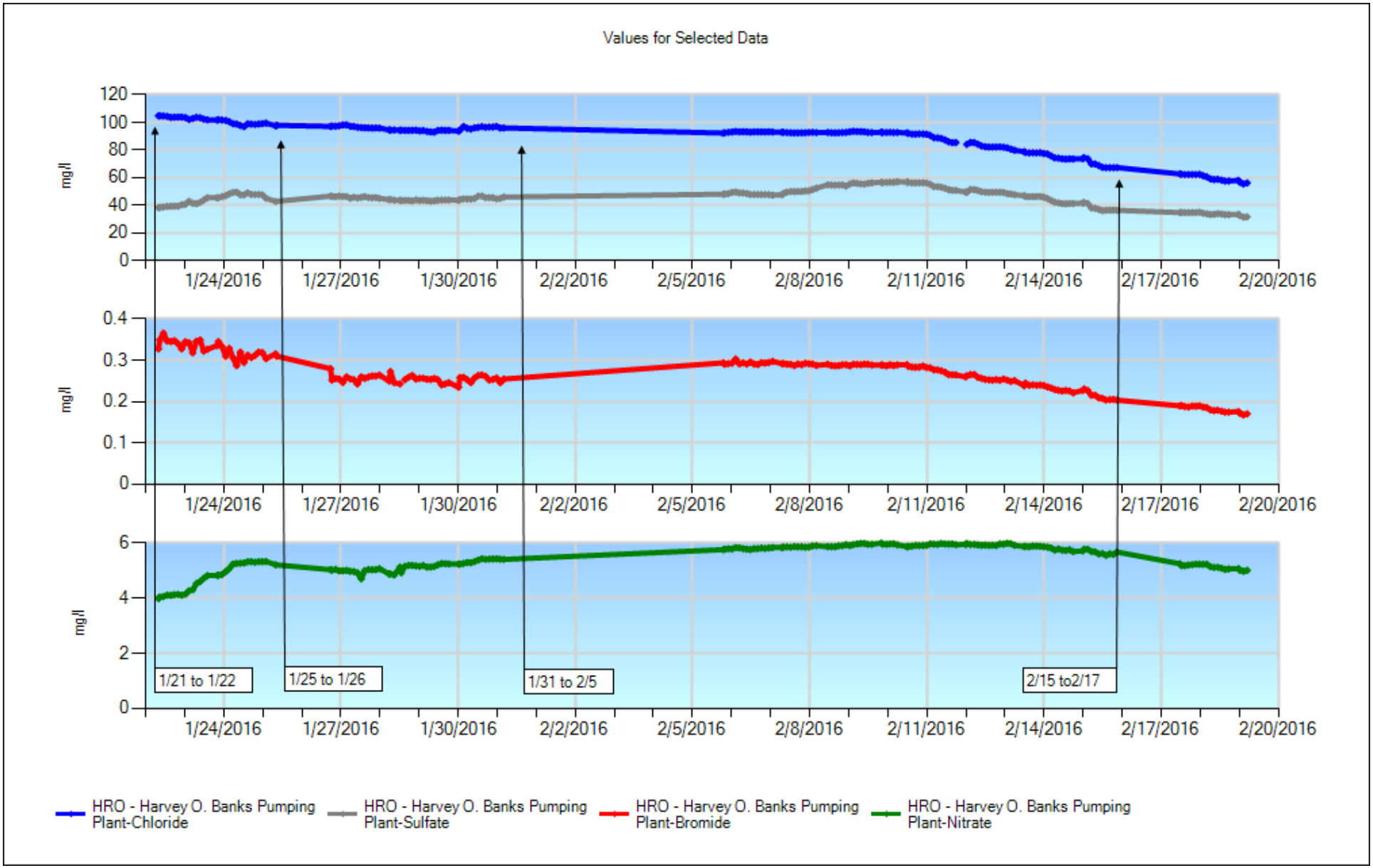
Banks Pumping Plant: Pumping – TOC, DOC - EC Clifton Court Forebay EC



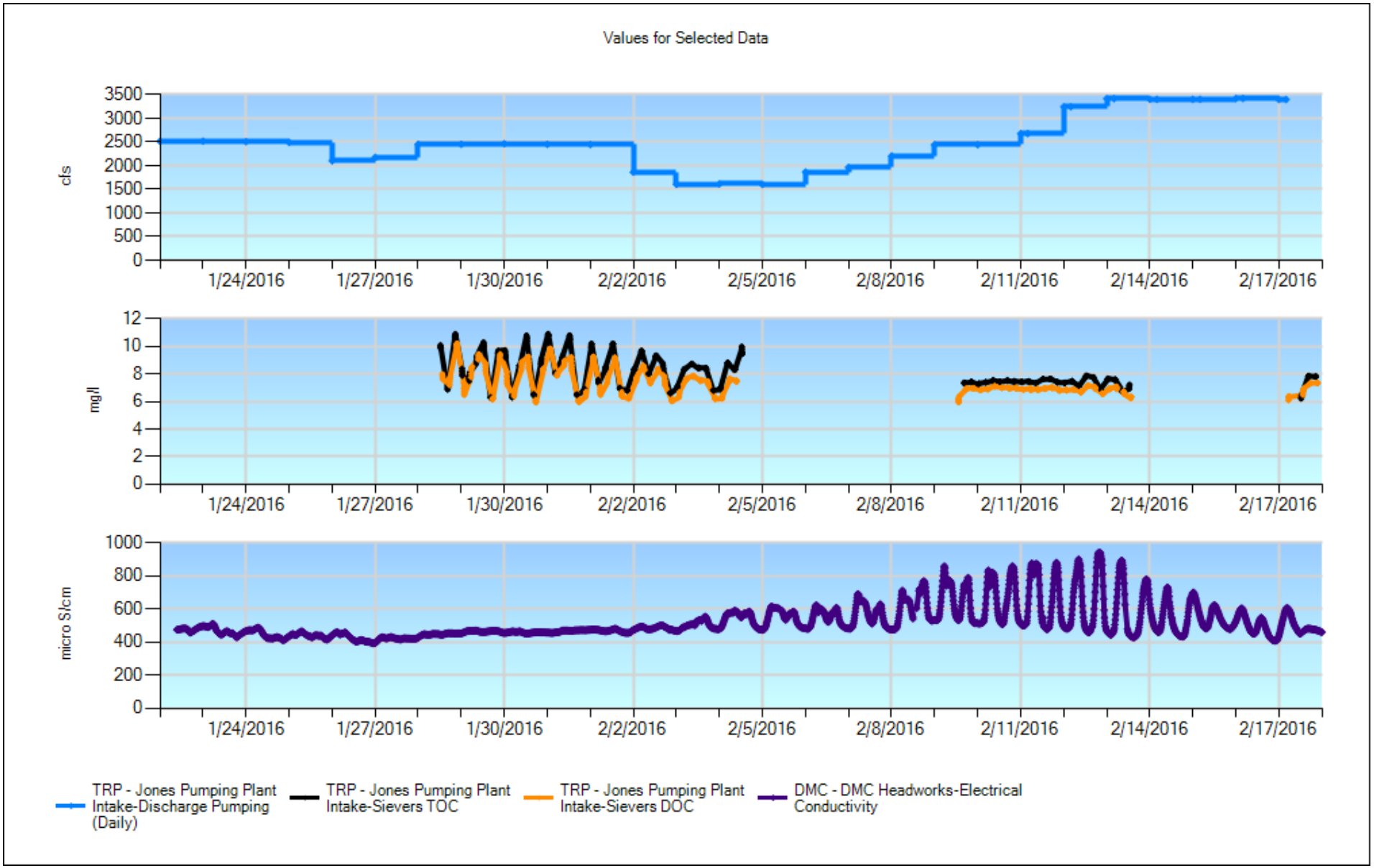
1/20 to 1/28: Carbon analyzer annual service and calibration - 1/31 to 2/4: Power Outage - 2/10: QC sample analysis and sample delivery system filter change, DOC increase possibly due to TOC valve leakage causing raw wtaer to mix with filtered water - 2/16 to 2/17: Power outage due to transfer from generator to normal power supply

Banks Pumping Plant: Chloride, Sulfate – Bromide - Nitrate



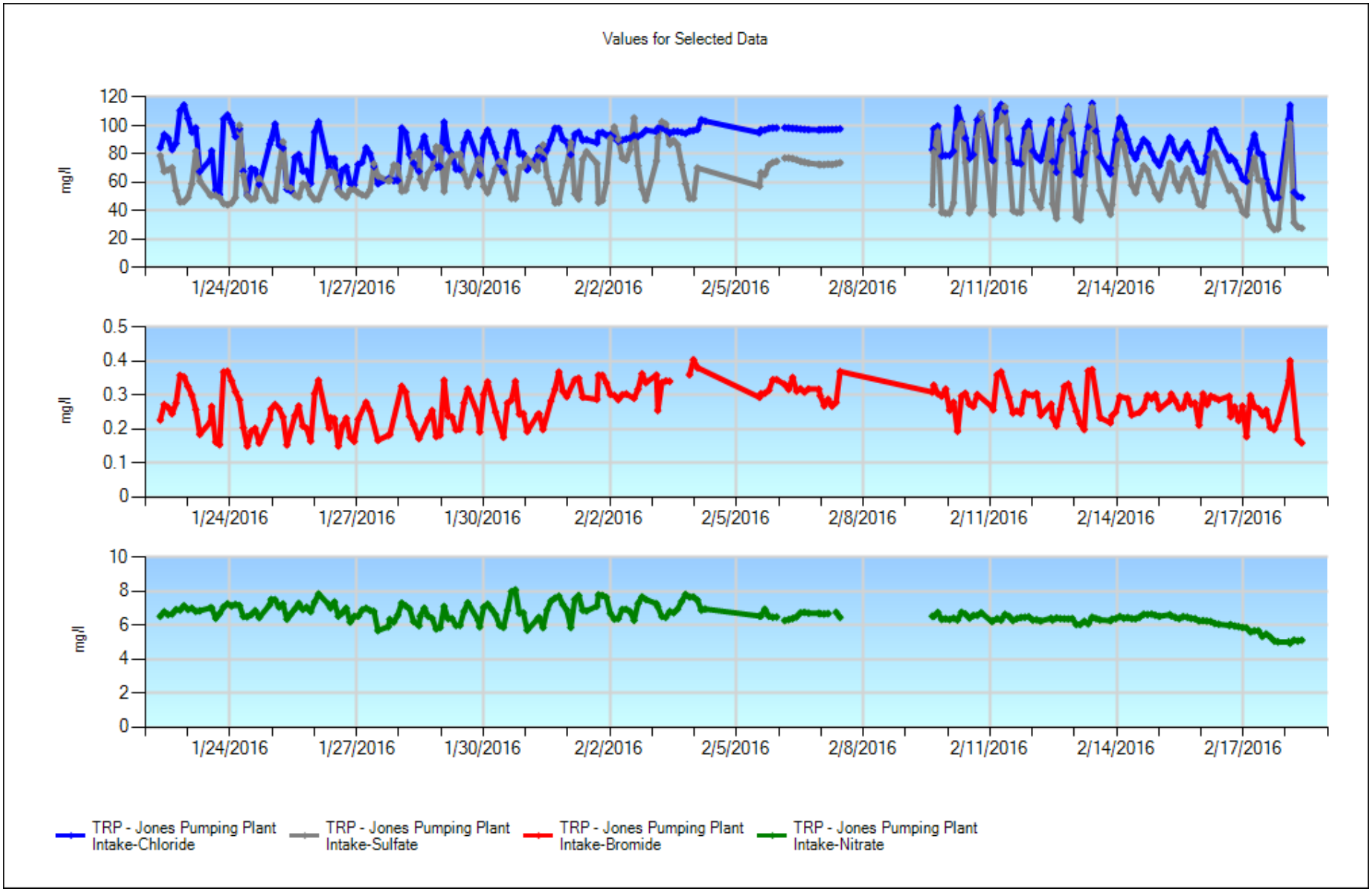
1/21 to 1/22: Power outage – 1/25 to 1/26: Power outage – 1/31 to 2/5: Power outage, anion analyzer component replacement and re-calibration – 2/15 to 2/17: Power outage due to transfer from generator to normal power supply

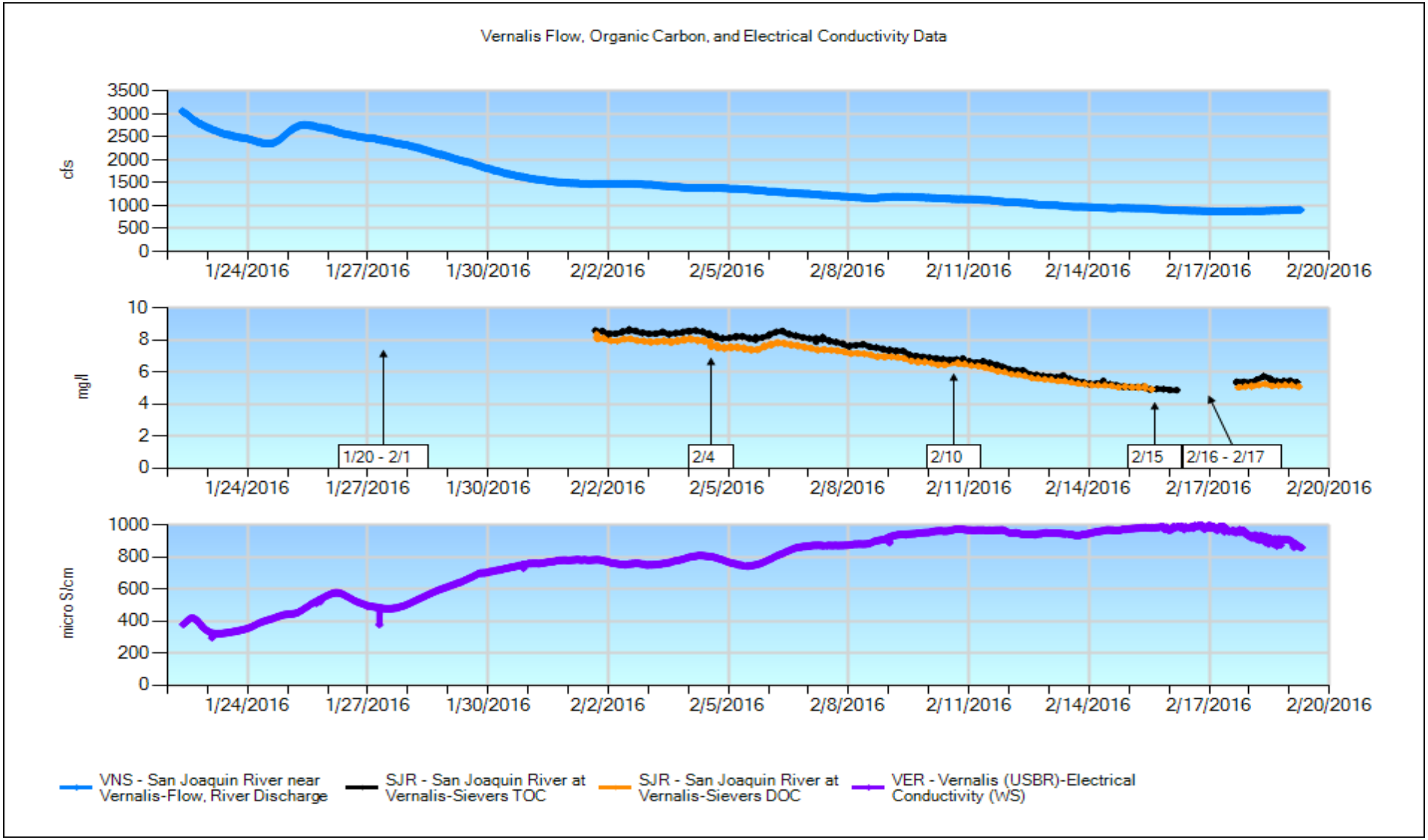
Jones PP – Discharge, Organic Carbon and EC



1/20/16 – 1/28/16 – Sievers underwent annual calibration **2/4/16 - 2/9/16** - low flow caused instrument shutdown. **2/13/16 – 2/17/16** – A clog in the flow intake obstructed flow to Sievers

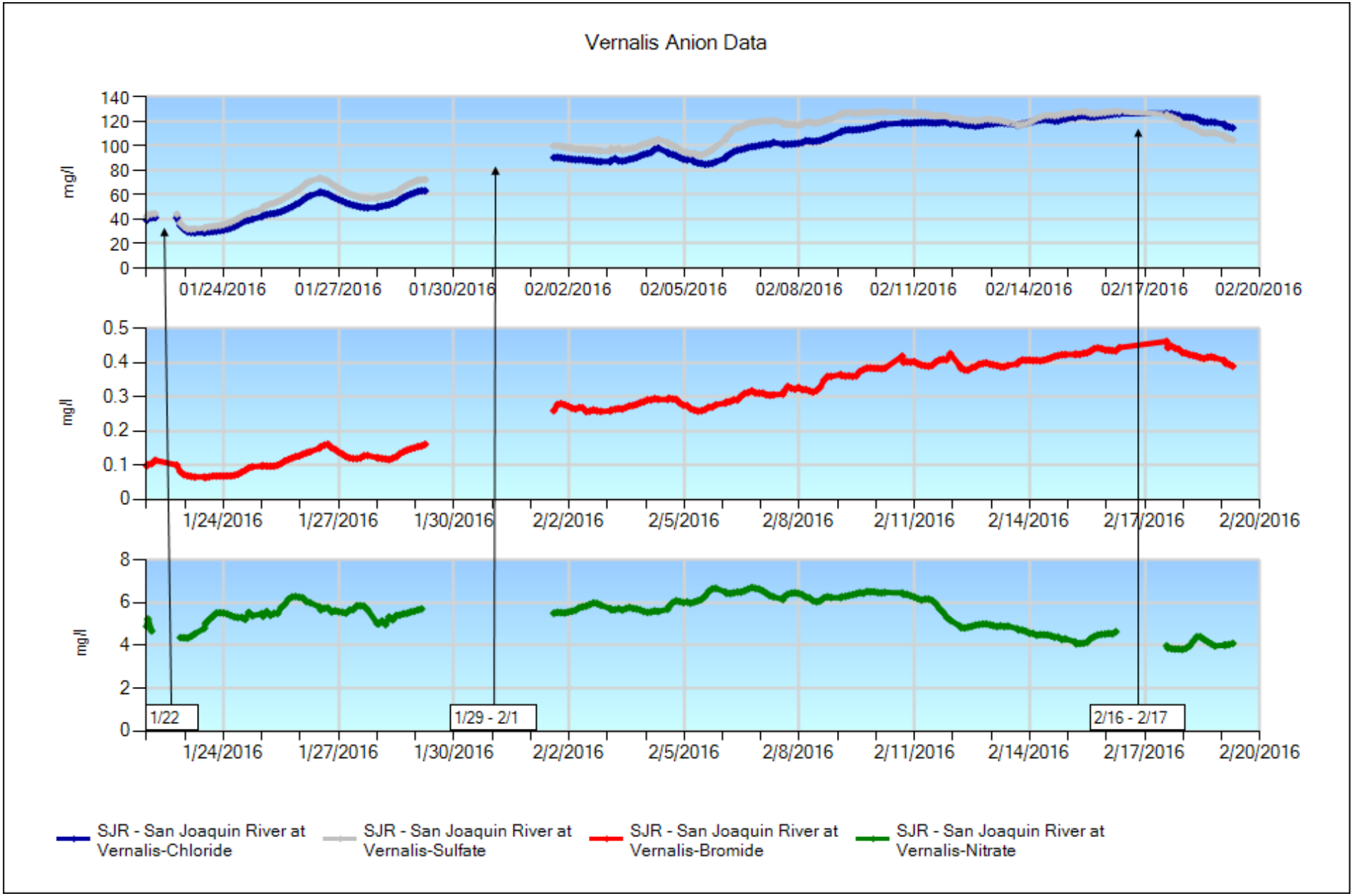
Jones PP – Chloride, Sulfate, Nitrate and Bromide



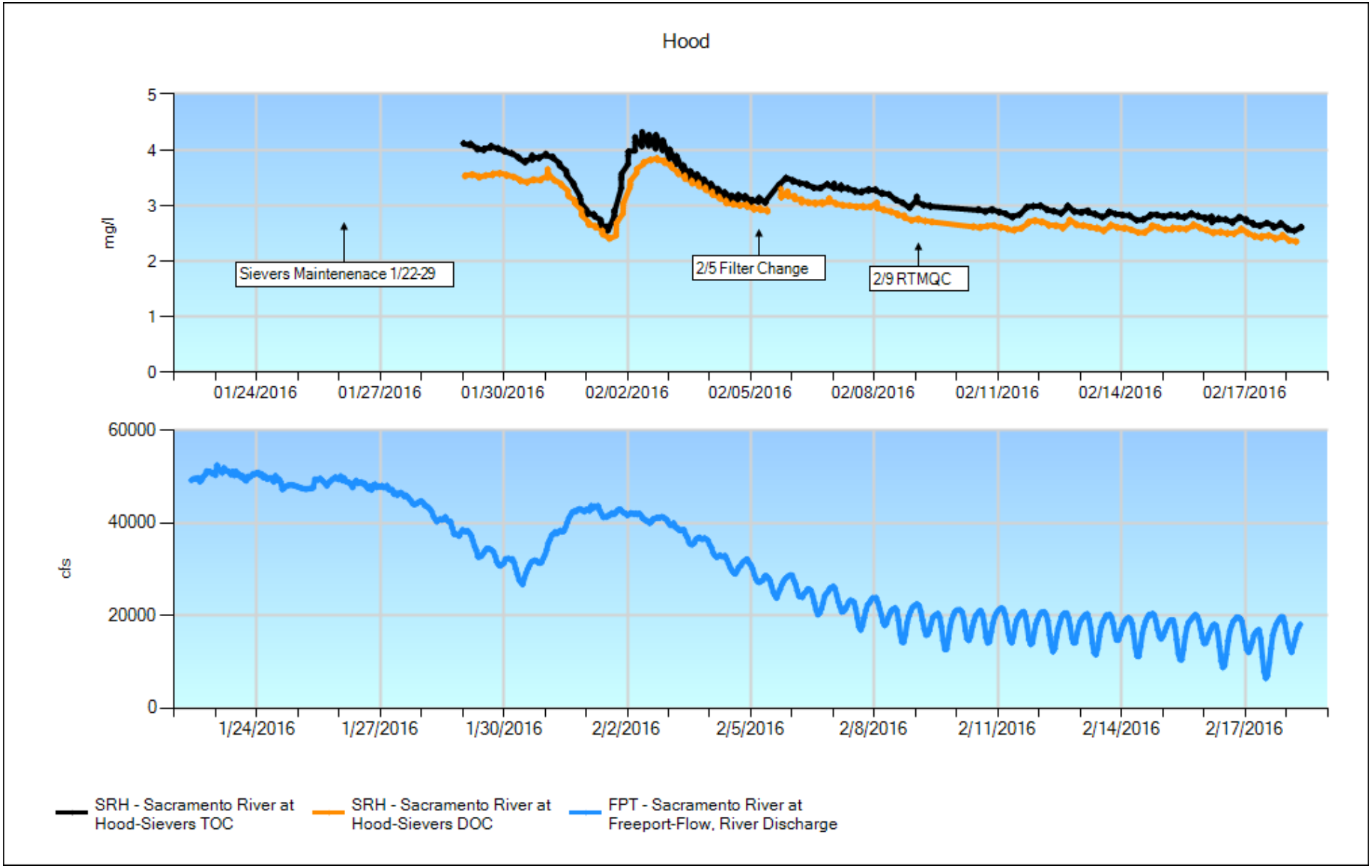


Filter Changes: 1/20 = DOC side only. **2/1 =** All filters. **2/4 =** Prefilters only. **2/10 =** All filters. **2/17 =** All except 0.45 micron. **Events: 1/20 – 2/1 =** Sievers removed for annual service and calibration. **2/10 =** QC and cleaned pump intake. **2/15 =** Filter clog on DOC side. **2/16 – 2/17 =** Pump motor finally burned-out. Combination replaced with a rebuilt pump from Hood and a used motor, to sacrifice in turbid conditions.

2/4/16 – 2/5/16 – Dionex calibration **2/5/16 – 2/7/16** – anion values seemed to have leveled off due to higher fresh water outflow from storm events**. 2/7/16 – 2/9/16** – lack of sample flow caused instrument to shut down



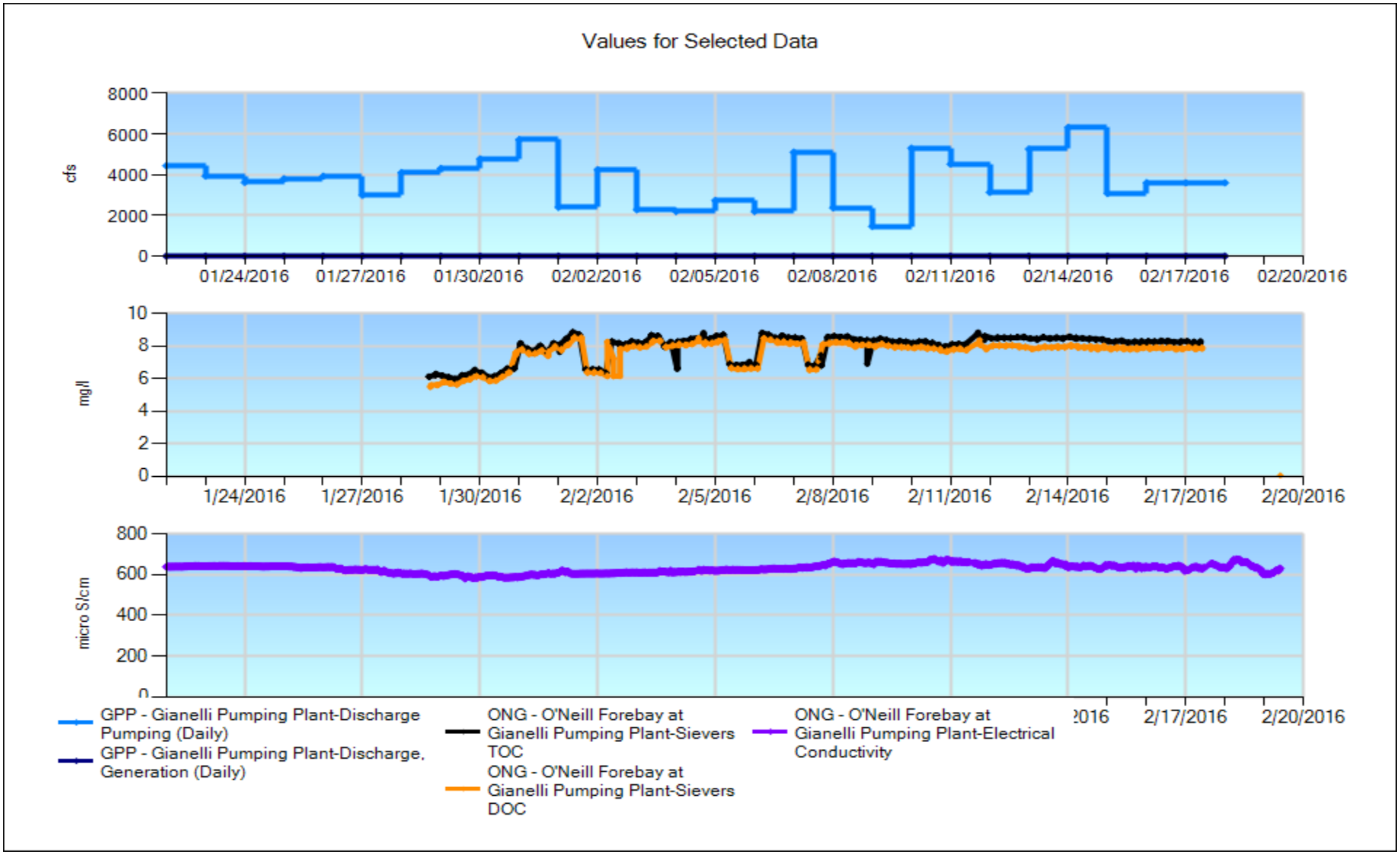
Events: 1/22 = Temporary clog in Dionex 1/8" DOC line. **1/29 – 2/1 =** Pump intake clogged. Pump pulled from river and cleaned. **2/10 =** QC and pump intake cleaned. **2/16 – 2/17 =** Pump motor failure/burn-out. Replaced with used pump and motor.



Significant Events: January 22th 2016 to February 19th 2016

- **1/22-29 Sievers Maintenance:** GE did the annual maintenance on the Sievers. It was down for a week.
- **2/5 Filter Change:** Changed all filters. Filters were over filtering and caused DOC and TOC to converge**.**
- **2/9 RTMQC:** Changed the 100µ micron filter.

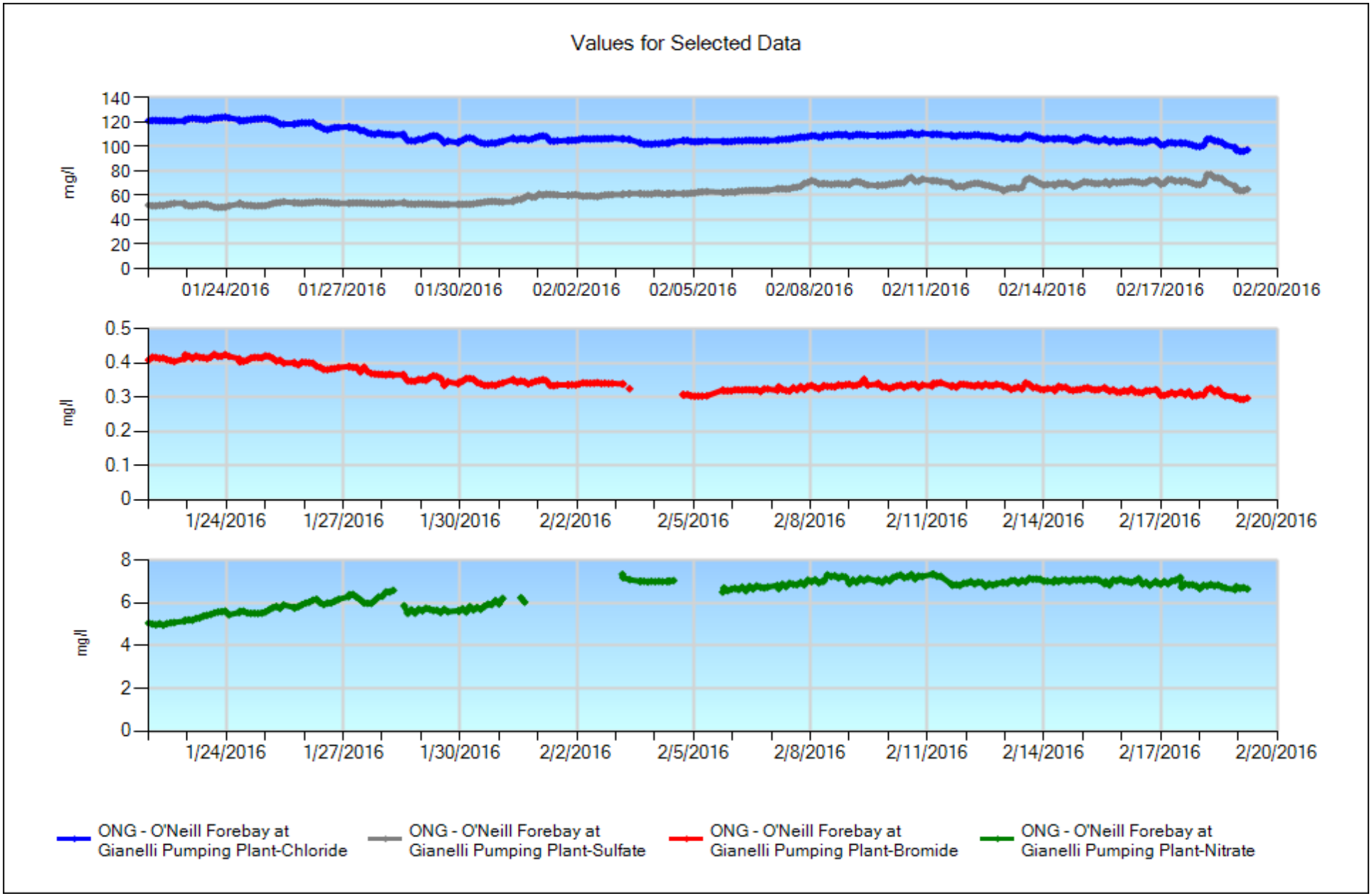
O'Neill Forebay at Gianelli Pumping Plant: Pumping – TOC, DOC - EC



(1/21 - 1/28): Instrument out of service for maintenance and calibration.

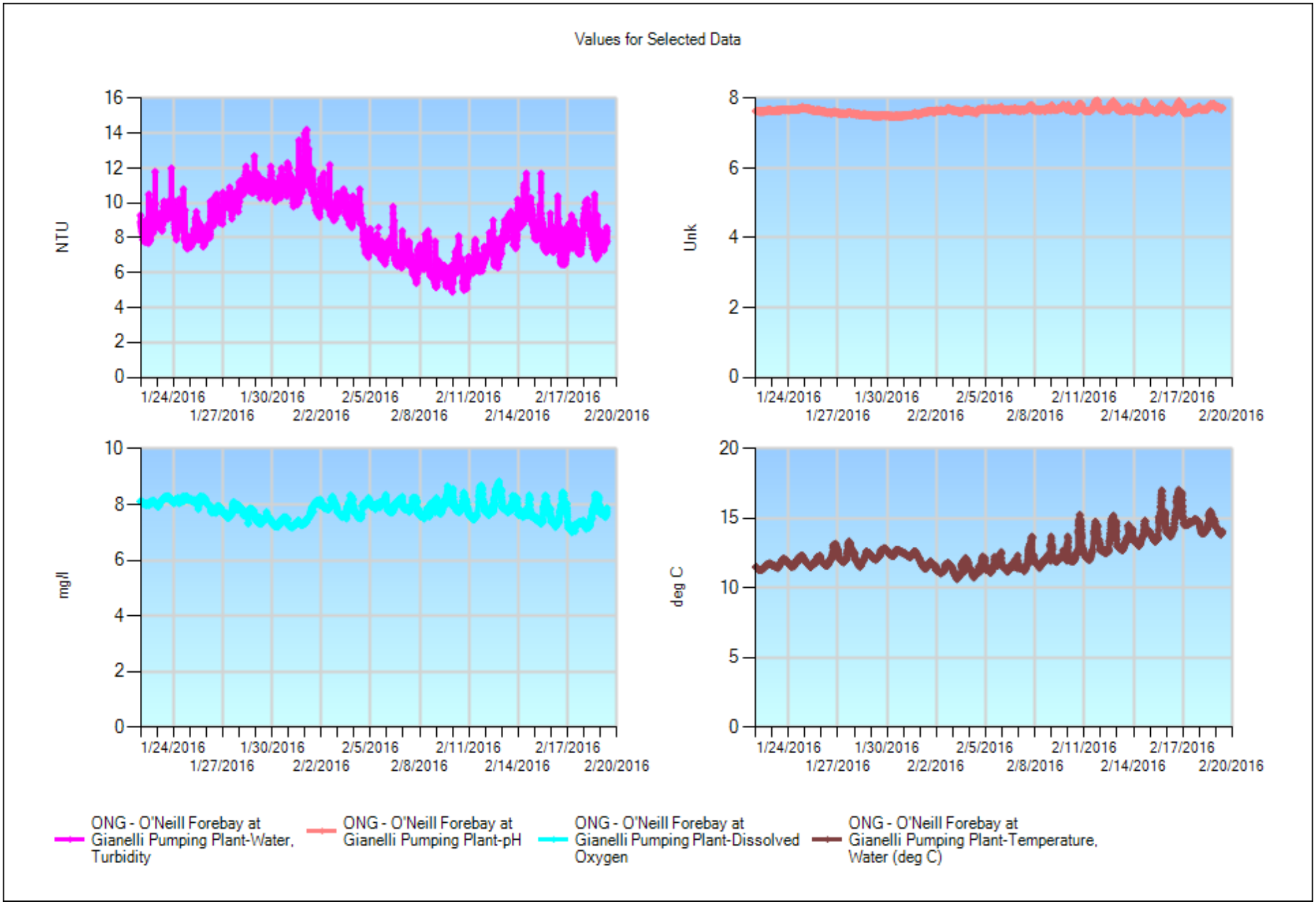
(1/28 - 2/17): Fouling and/or clogs caused bad readings.

O'Neill Forebay at Gianelli Pumping Plant: Chloride, Sulfate, Bromide, Nitrate

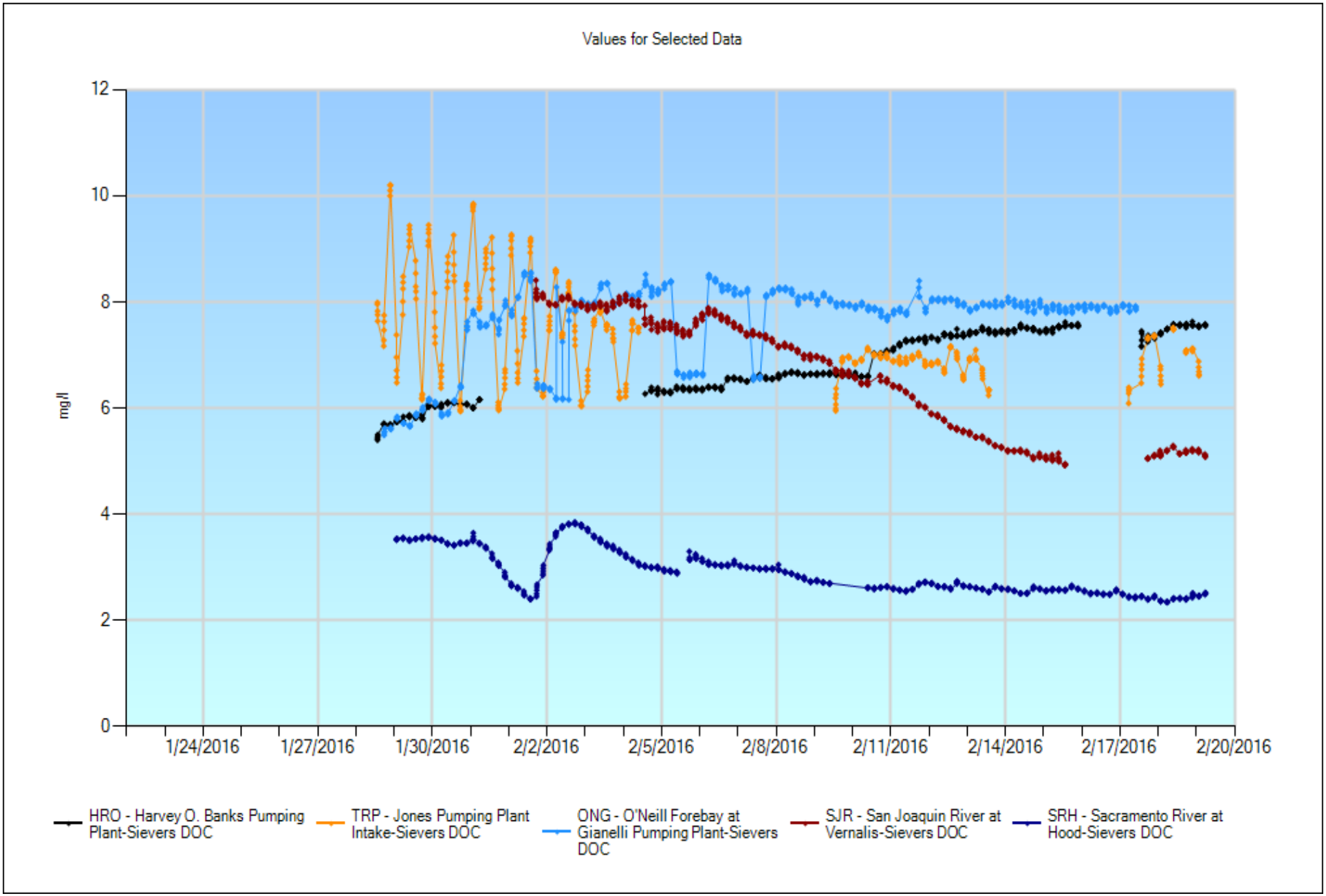


(1/31 - 2/6): Chromatography peaks were misshapen or mislabeled. Updating the software program corrected this issue.

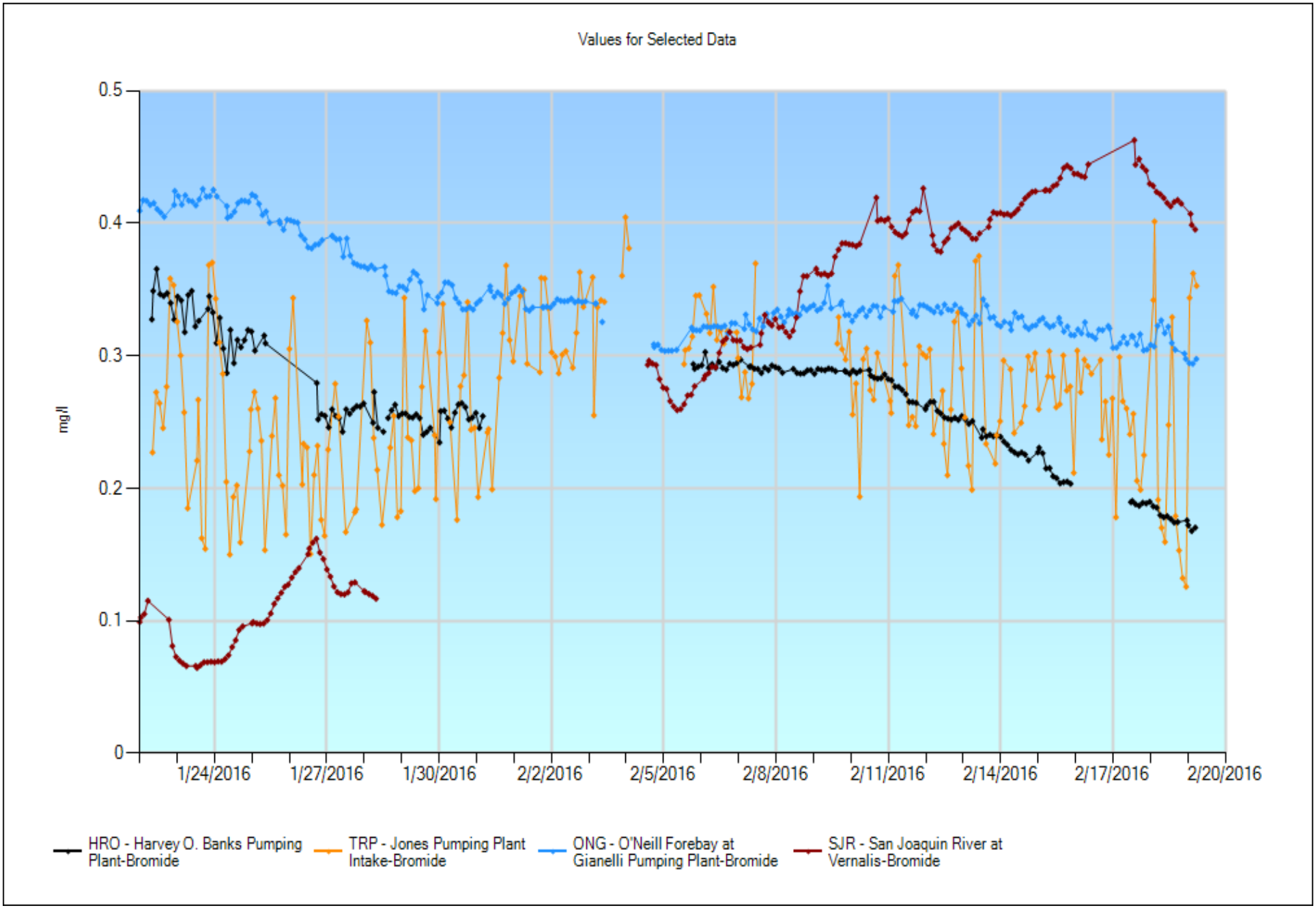
O'Neill Forebay at Gianelli Pumping Plant: Turbidity, pH, DO, Temp



All Station DOC



Banks, Jones, Gianelli, Vernalis - Bromide



All Station + Clifton Court EC