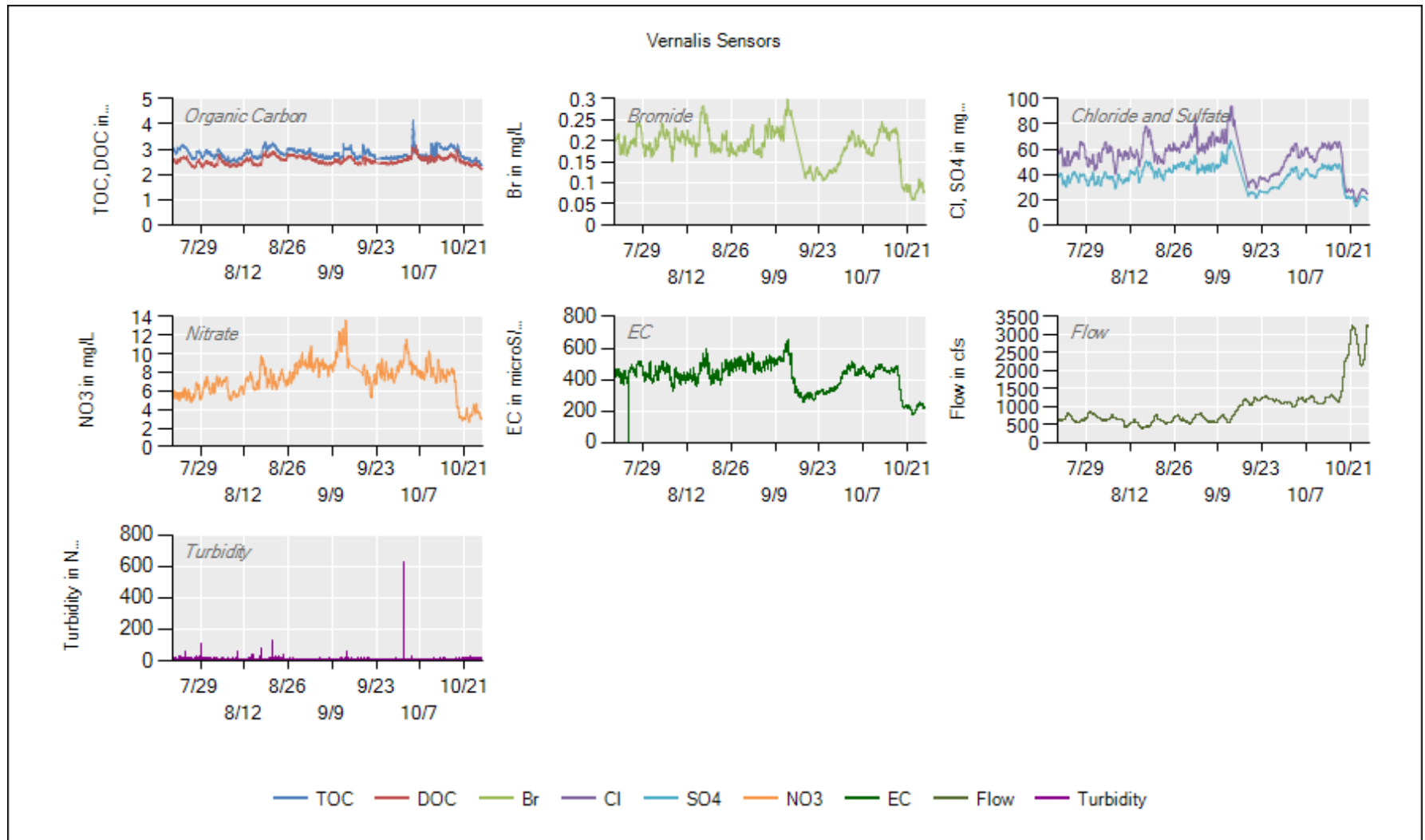
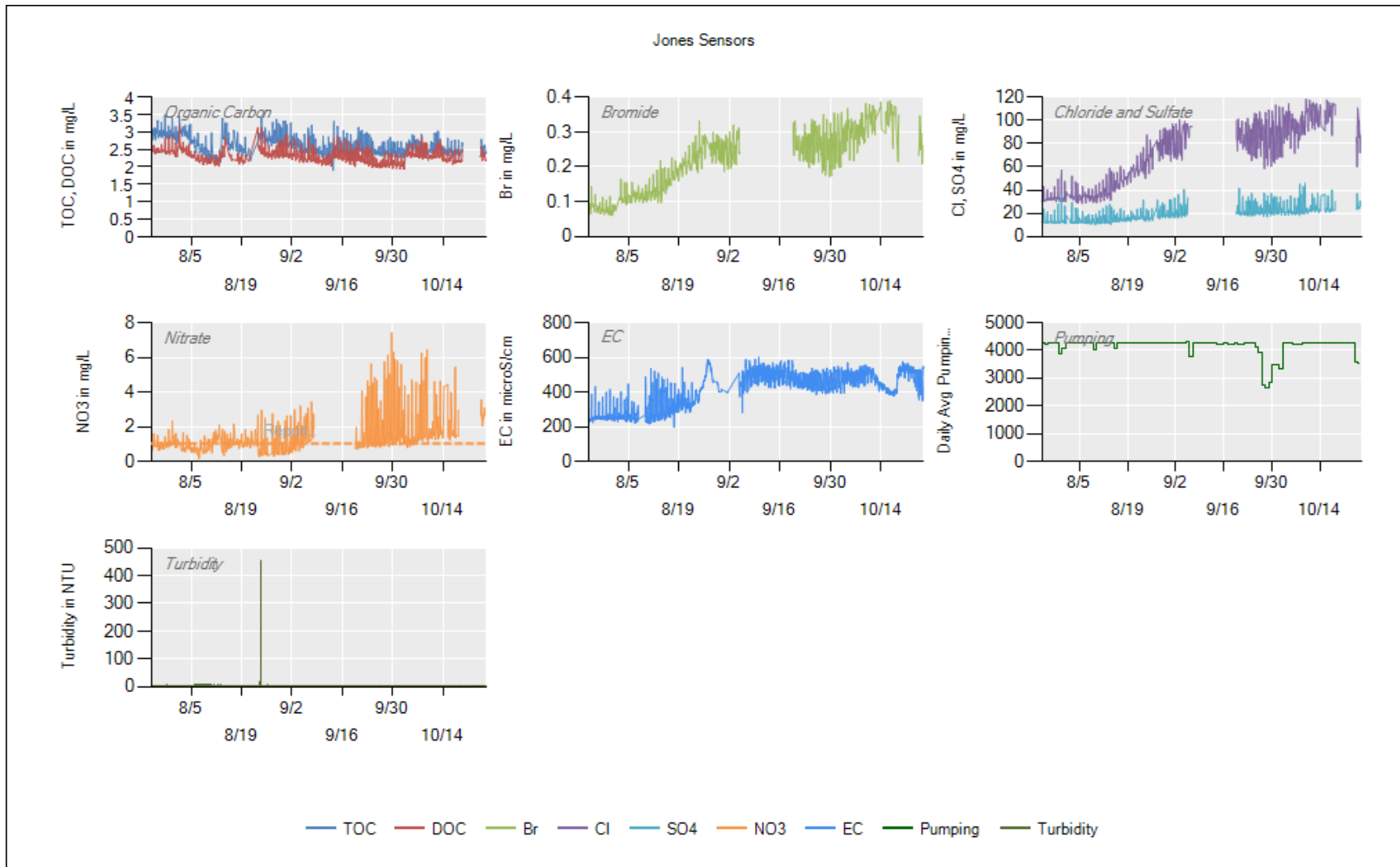


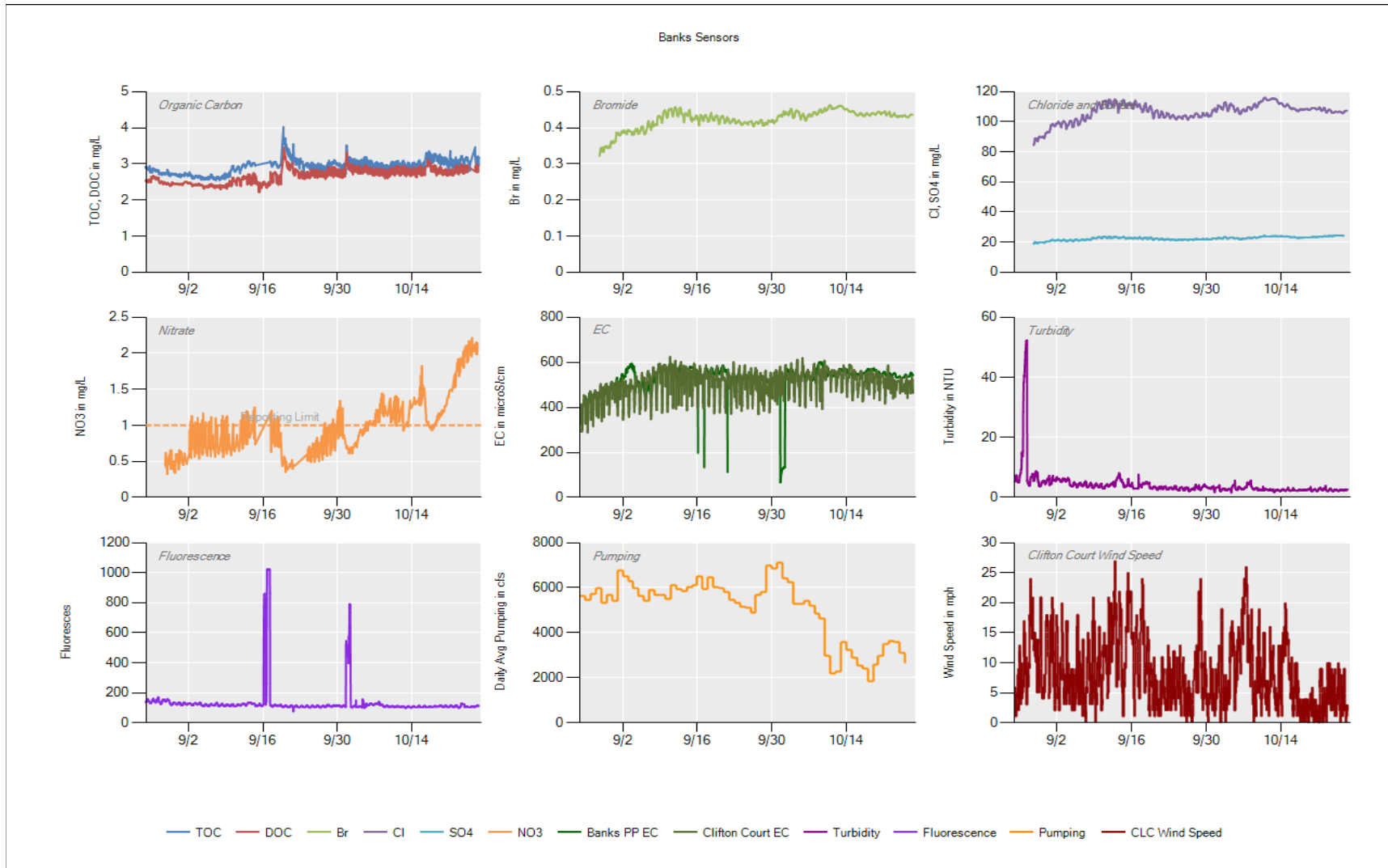
9/19: QC sample analysis, filter replacement – 9/20: Carbon analyzer UV lamp replacement – 9/21: Cleaned analyzer sample inlet, ran hydrogen peroxide through the unit. 10/17: QC sample analysis, filter replacement



Events: **9/18** = QC run. New filters. New acid, oxidizer, and UV lamp for Sievers. Dionex pump leak caused shut down of analyzer on 9/13. Control device for leaks installed on 9/18 and the Dionex restarted (Technical service required and scheduled). **10/10**: TOC solenoid valve began to leak on ~ 10/3, causing Sievers to run TOC continuously. Replaced on 10/10, along with new 50 micron TOC filters. **10/12**: Flow sensor stuck in the "ON" position, causing Sievers to run continuously for a couple days and overlap TOC data with DOC data. Sensor cleaned, new DI and check standard for the Dionex. **10/18**: QC run. New filters.

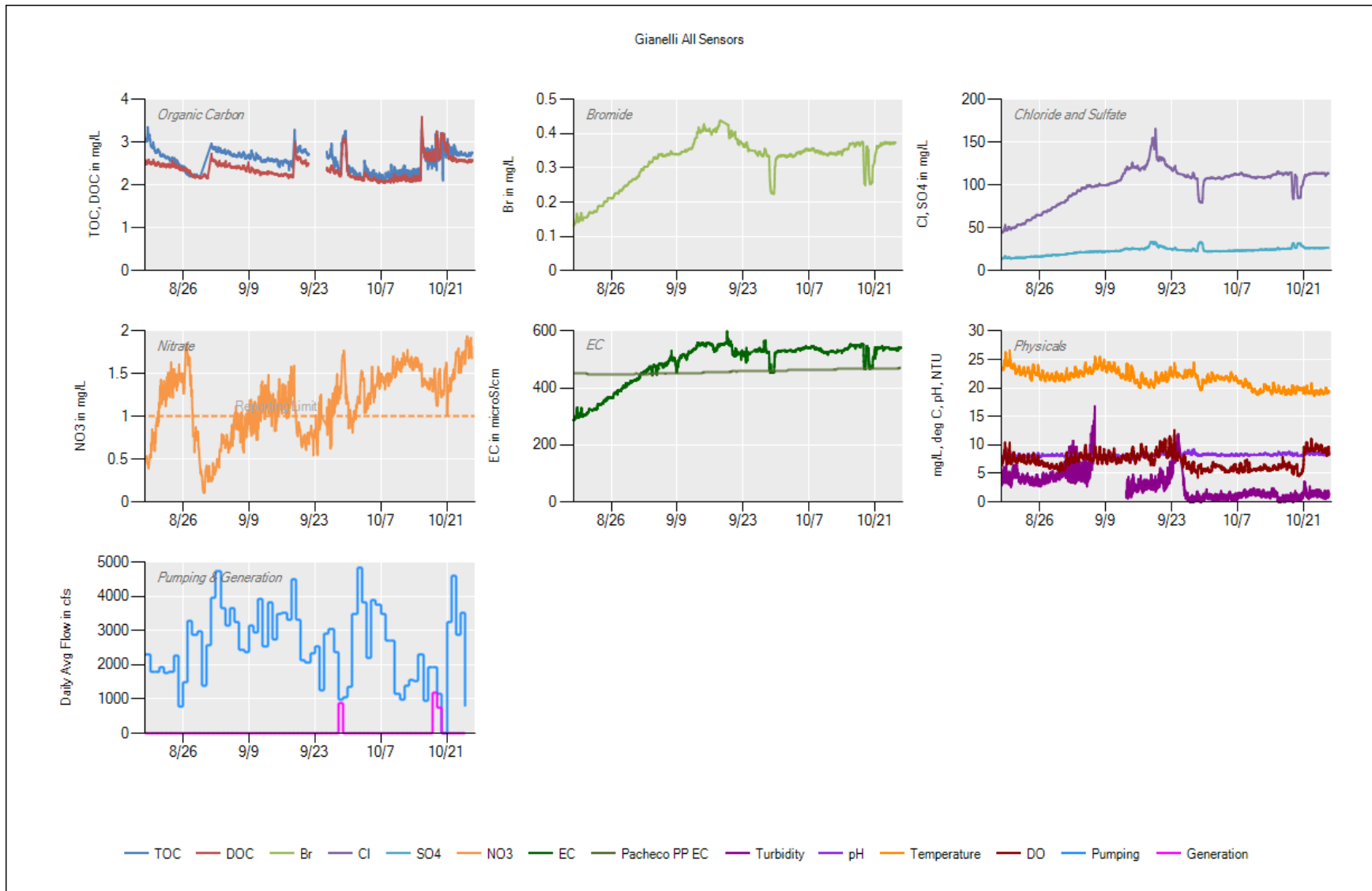


In mid-September, there was a leak detected within the Dionex due to defective pump seals. In late October, there was a clog within the Dionex system and reporting was stopped. Also in late October, the organic carbon analyzer shut itself down due to lack of memory hard drive space. All issues have been addressed and both instruments are operating normally. There has been a general increase in chloride, nitrate and bromide over the past several months, likely from low outflow and higher tidal influence.

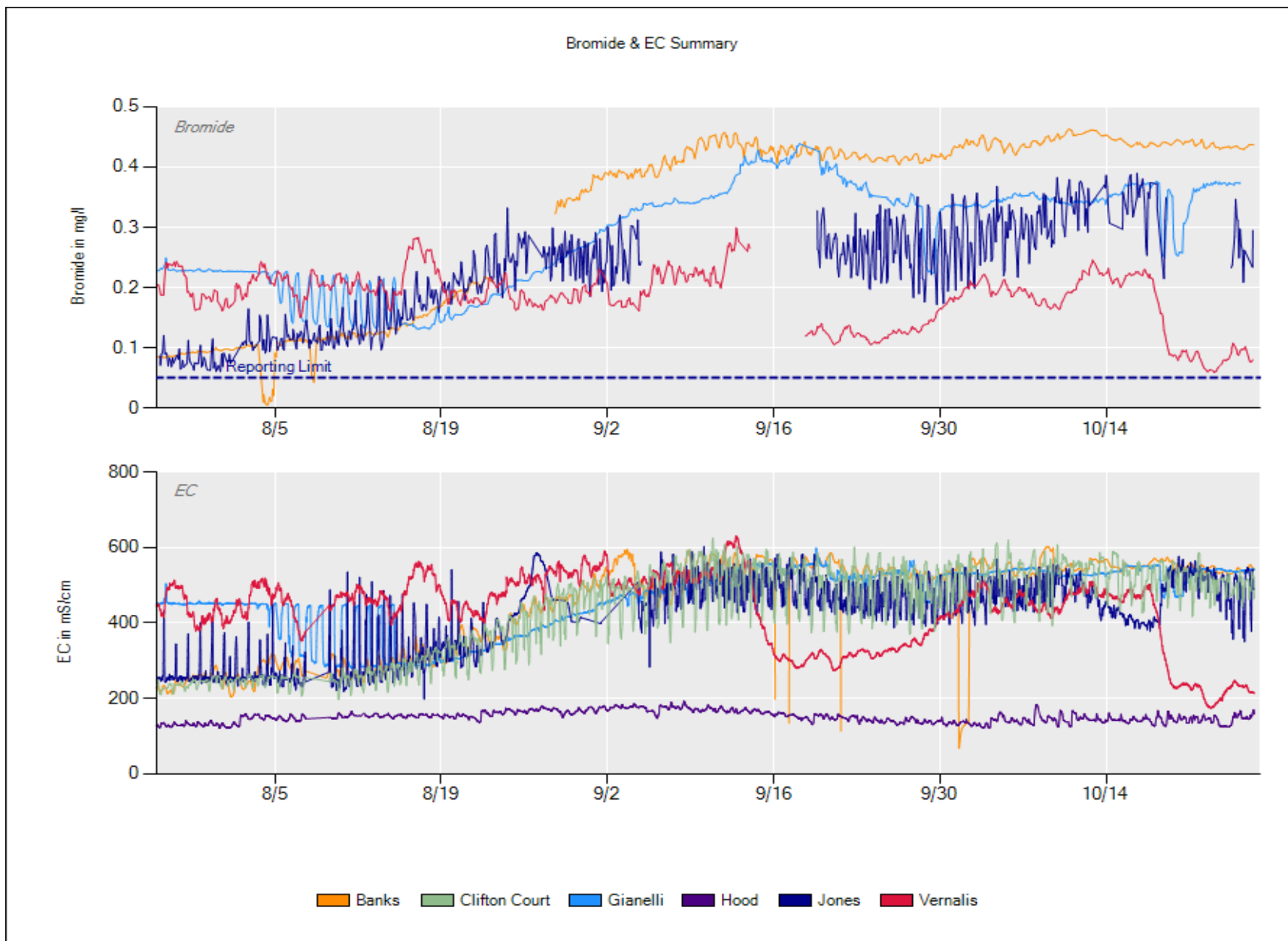


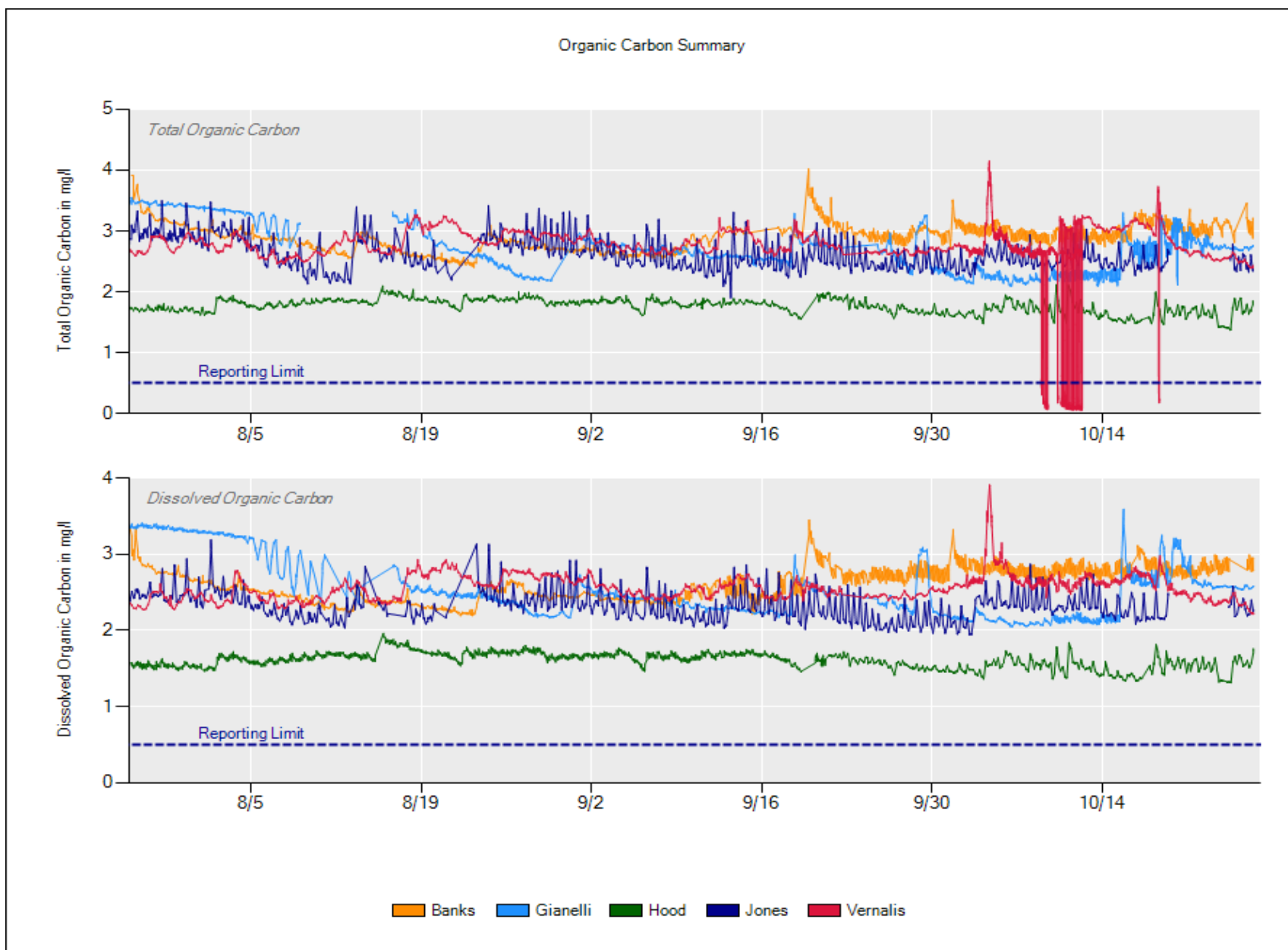
Significant Events: August 25th, 2018 to October 27th, 2018

- **Filter Changes:** regular maintenance done every 2 weeks including RTMQC every month.

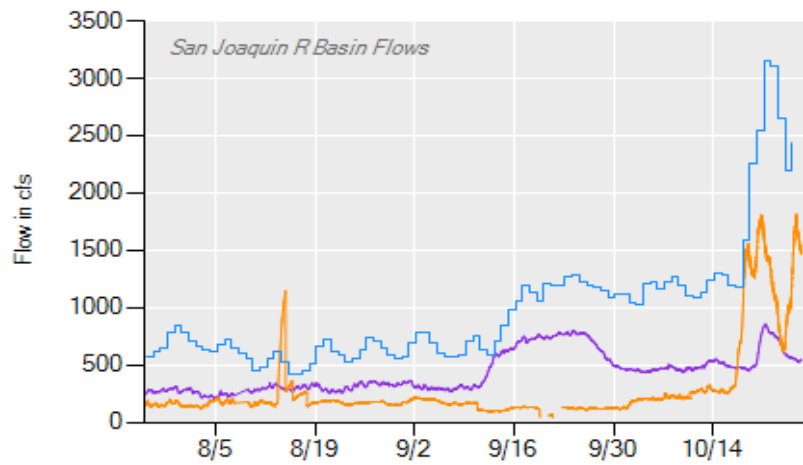
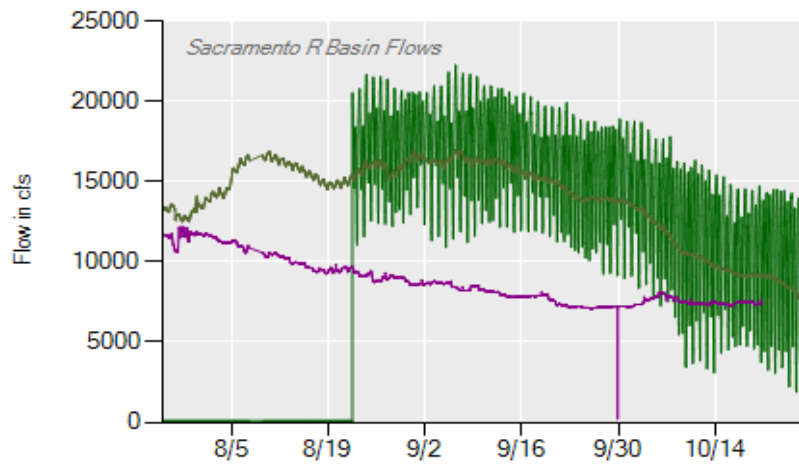
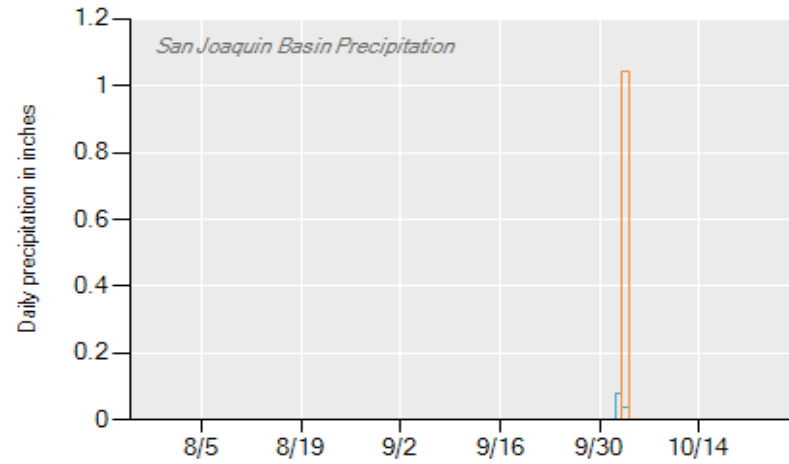
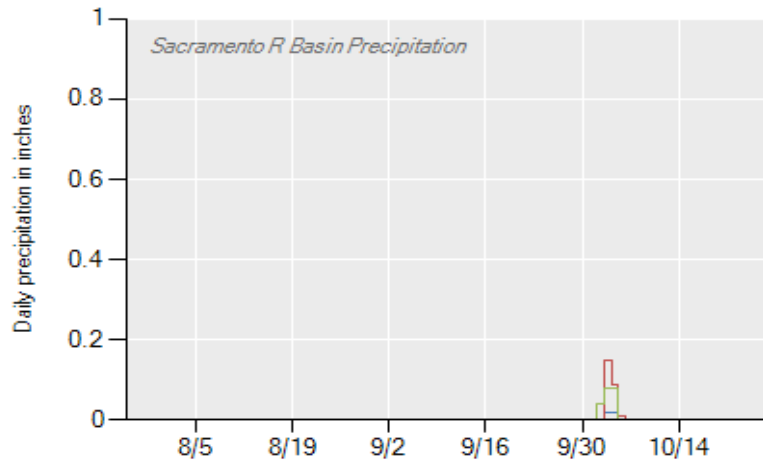


- 9/5 to 9/13 – The turbidimeter became fouled and reported erroneous data.
- 10/10 to 10/22 – The Sievers was running nonstop due to a problem with water supply and at times analyzed stagnant or no water.
- Salinity in August and early September – Increase reflects a slow increase seen in Delta water exported at Banks.





Precipitation & Flow



- CSU Sacramento
- Oroville Dam
- Redding Fire Station
- Exchequer Dam, Merced R.
- Friant Dam
- Stockton Fire Station
- Sac R at Freeport
- Sac R at Verona
- Sac R at Vina-Woodson Br
- SJR at Crows Landing
- Tuolumne R at Modesto
- Stanislaus R at Ripon
- SJR R at Vernalis