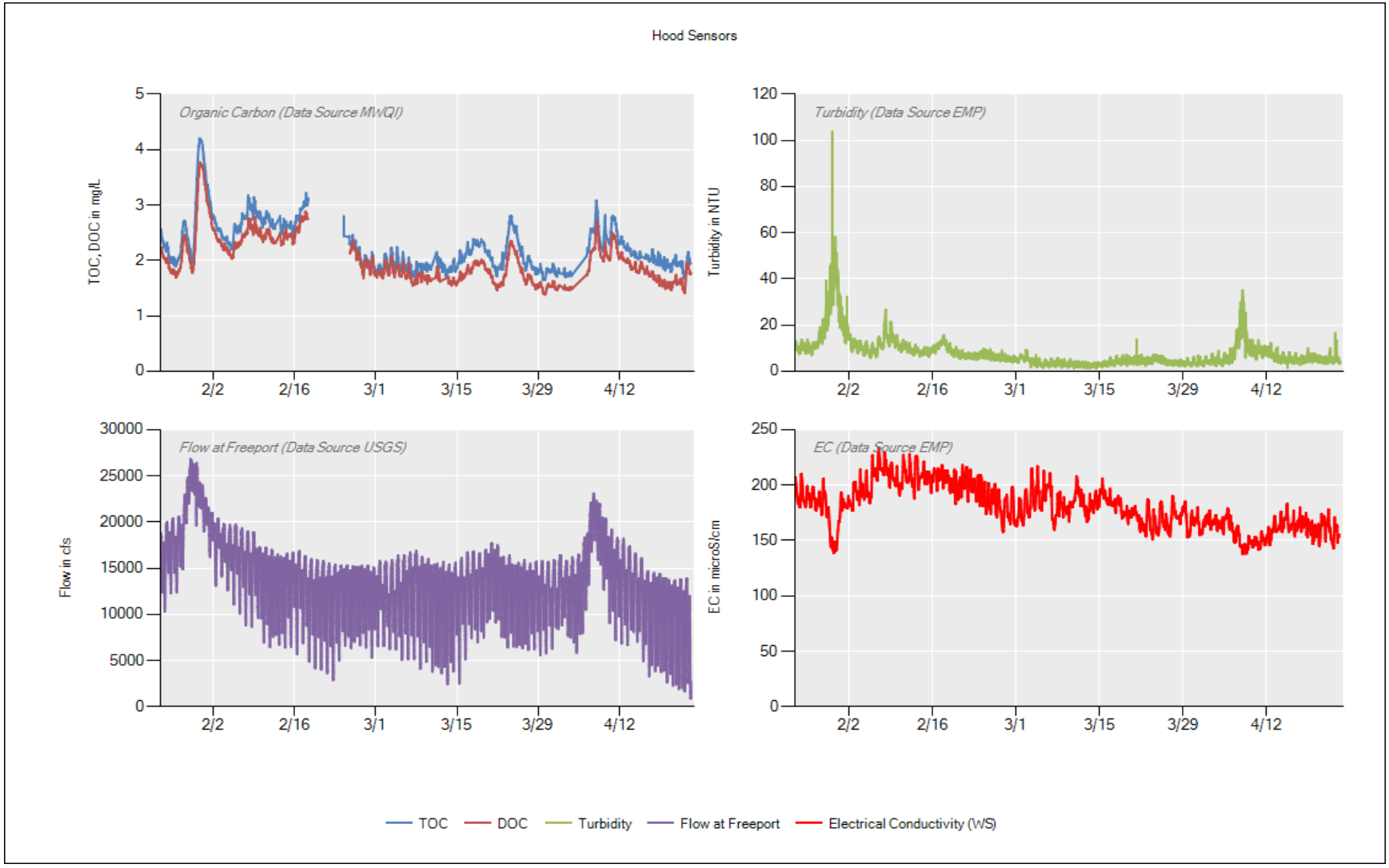
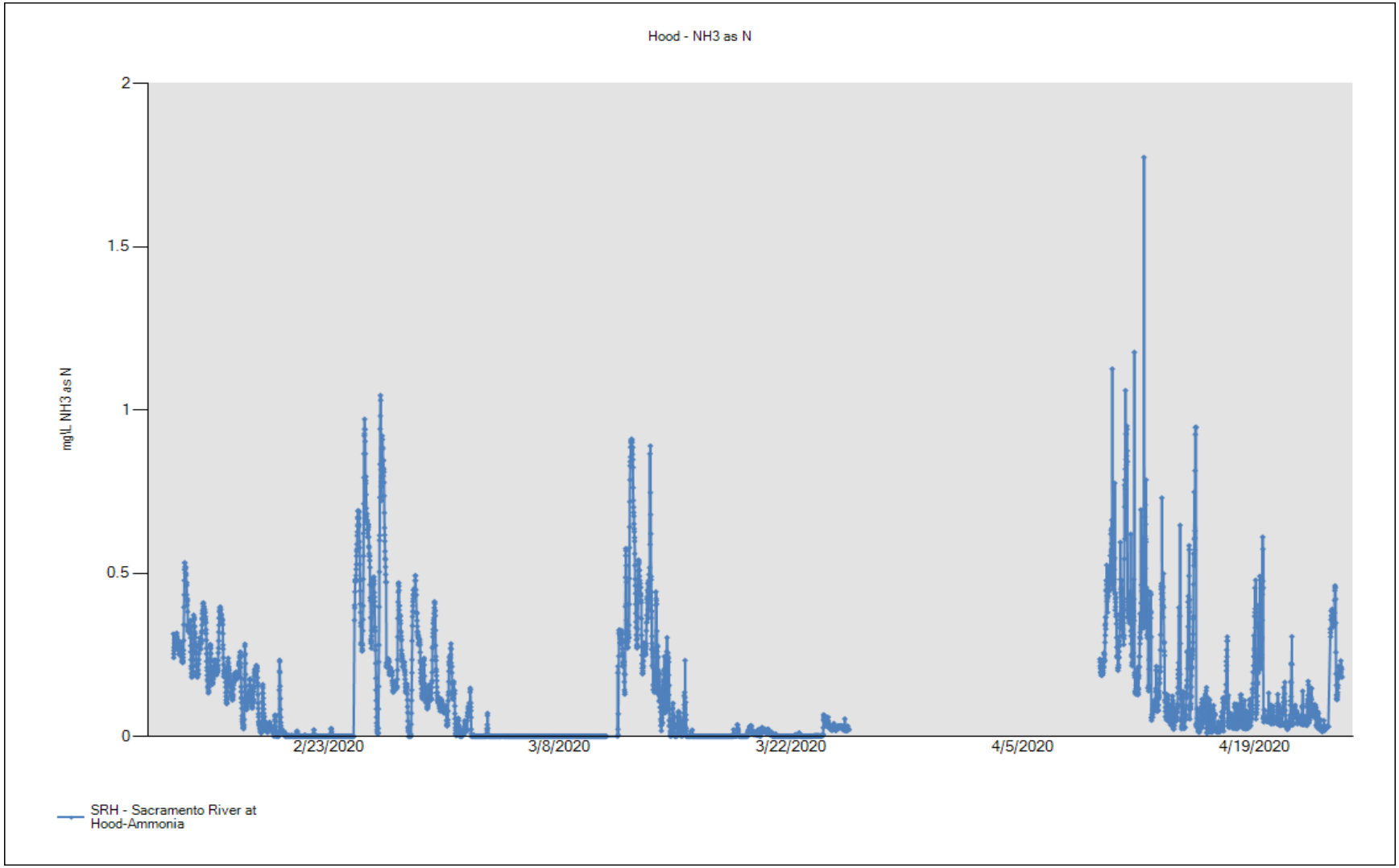
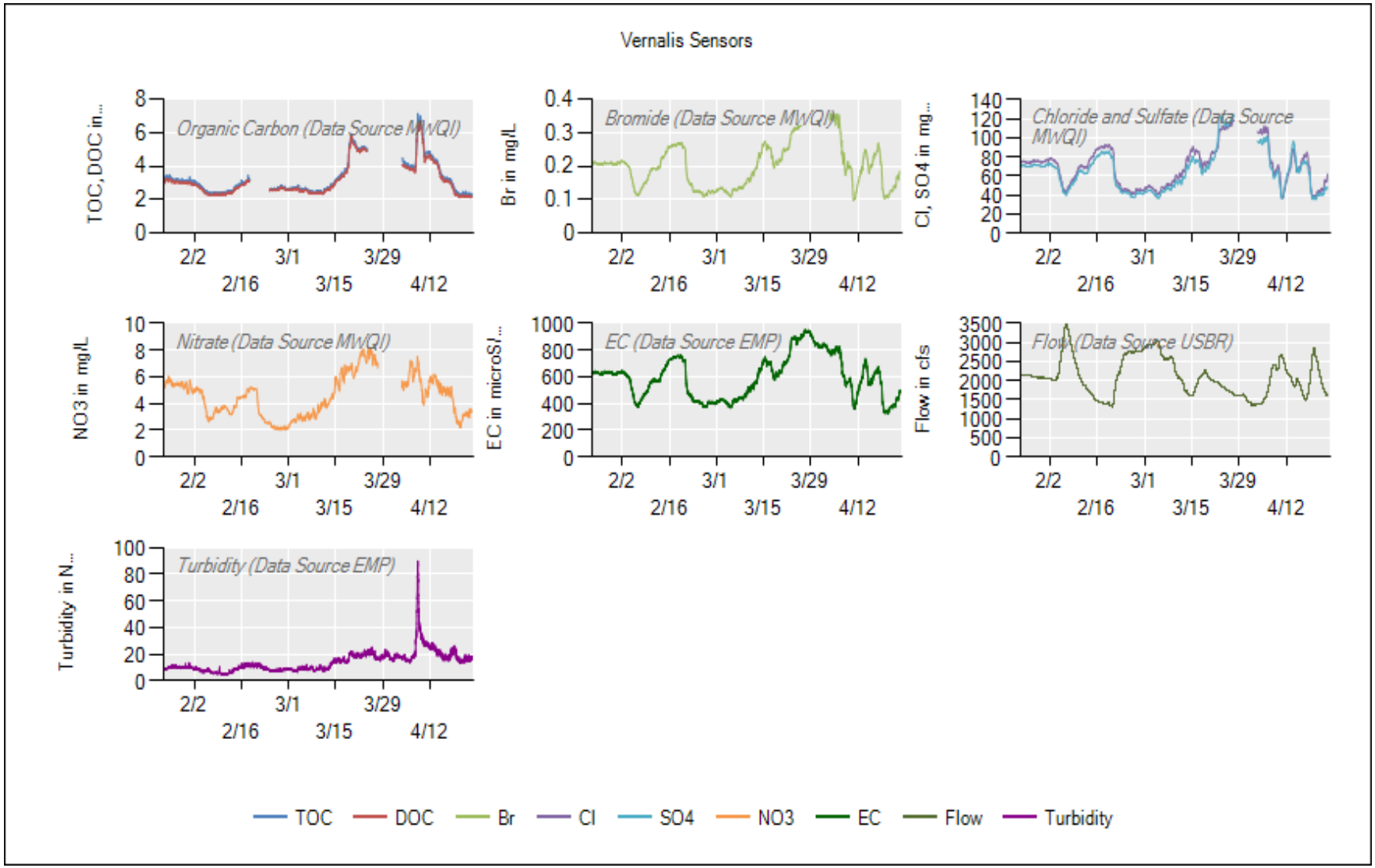


2/24: Re-installed the carbon analyzer – 4/9: Replaced all system filters – 4/23: Replaced all system filters

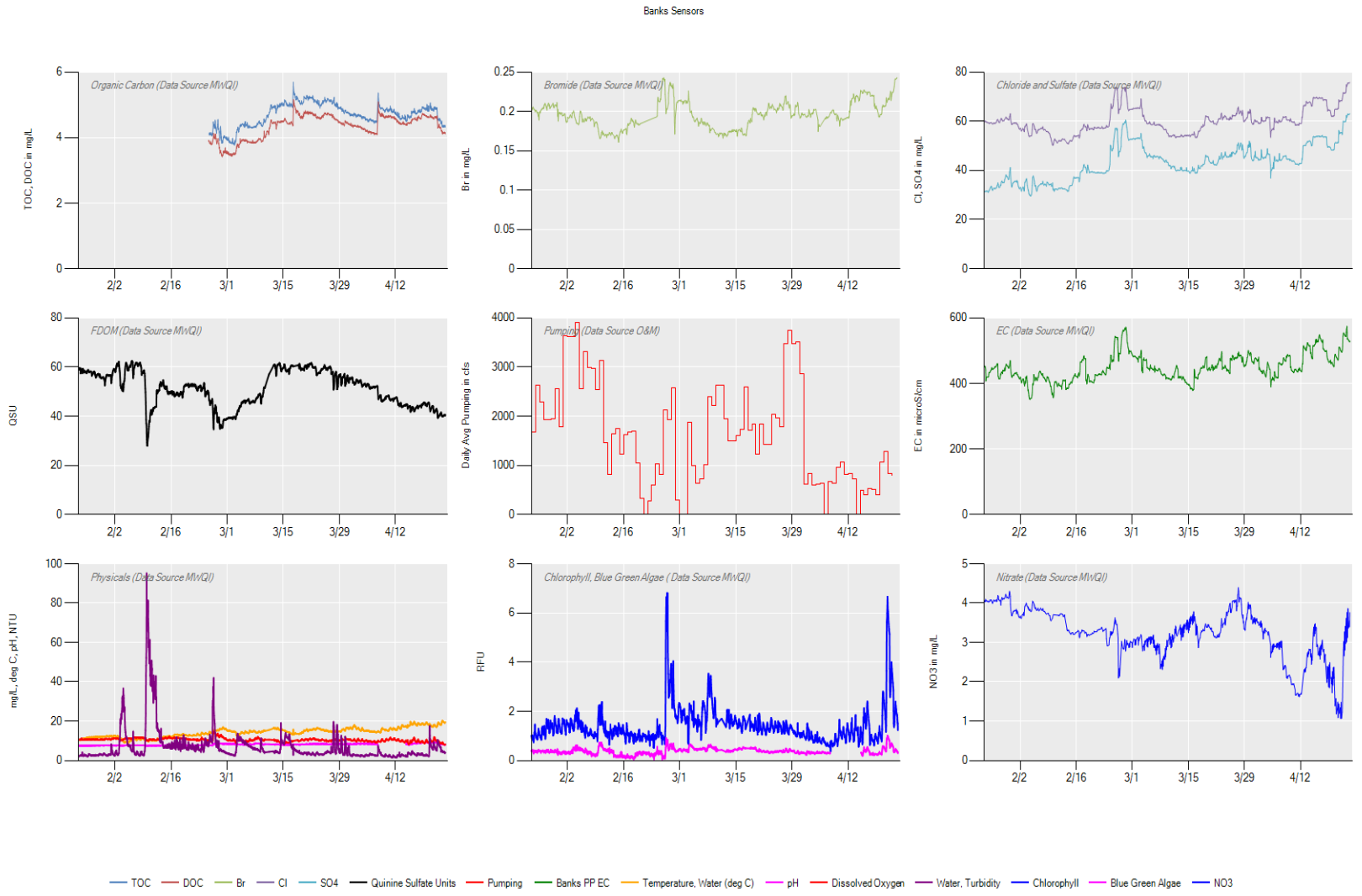
Note: Two of the data outages were caused by Windows update reboots. Joe is working on a fix that would restart the necessary software once the computer is restarted.



3/4: Check standard analysis, 0.1 ppm NH_3-N reported 0.107 ppm, 1 ppm NH_3-N reported 1.02 ppm – 3/11: Analyzer not reporting due to empty reagent container, replaced with new container, flushed and primed system, analyzed a blank, reported 0.0 ppm NH_3-N, analyzed a 0.1 ppm check standard, reported 0.999 ppm – 4/9: Performed annual maintenance on analyzer – 4/23: Rebuilt ammonia probe, 1 ppm check standard reported 1.03 ppm, 0.1 ppm check standard reported 0.119 ppm

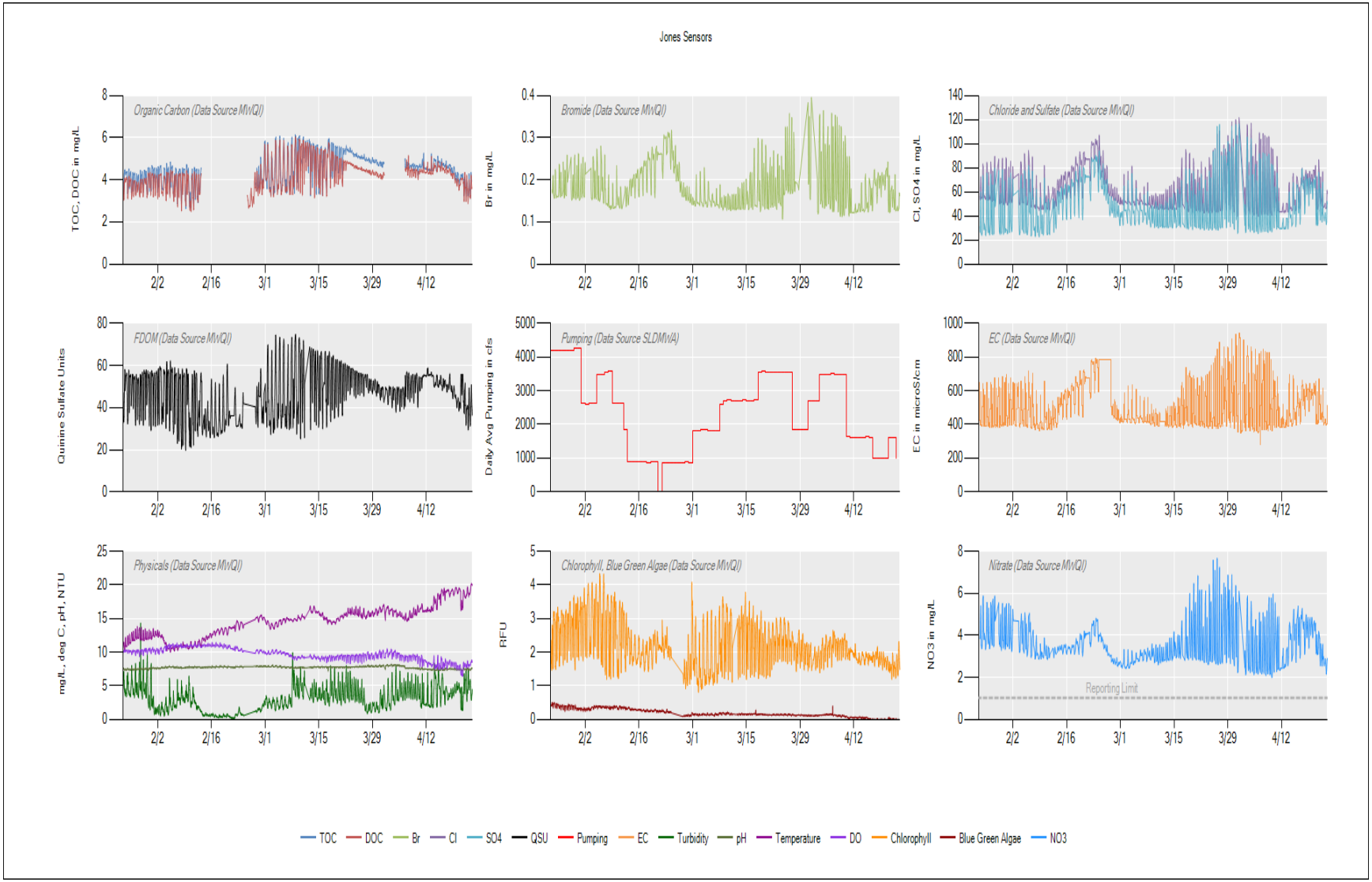


EVENTS: 2/18 – 2/24 = Carbon analyzer out for annual calibration and maintenance. **3/24 – 4/3** = Remote communication issue until 3/27 when a circuit breaker tripped, cutting power to the analyzers. Power restored and filters changed on 4/3, along with other maintenance. Anion data from 3/24 -27 transferred. Organic carbon data from those three days will be patched in soon. Spring pulse flows release peak (at Goodwin) on 4/8, 4/13, 4/18, and 4/23 with flow increases of 700-1000 cfs per pulse.

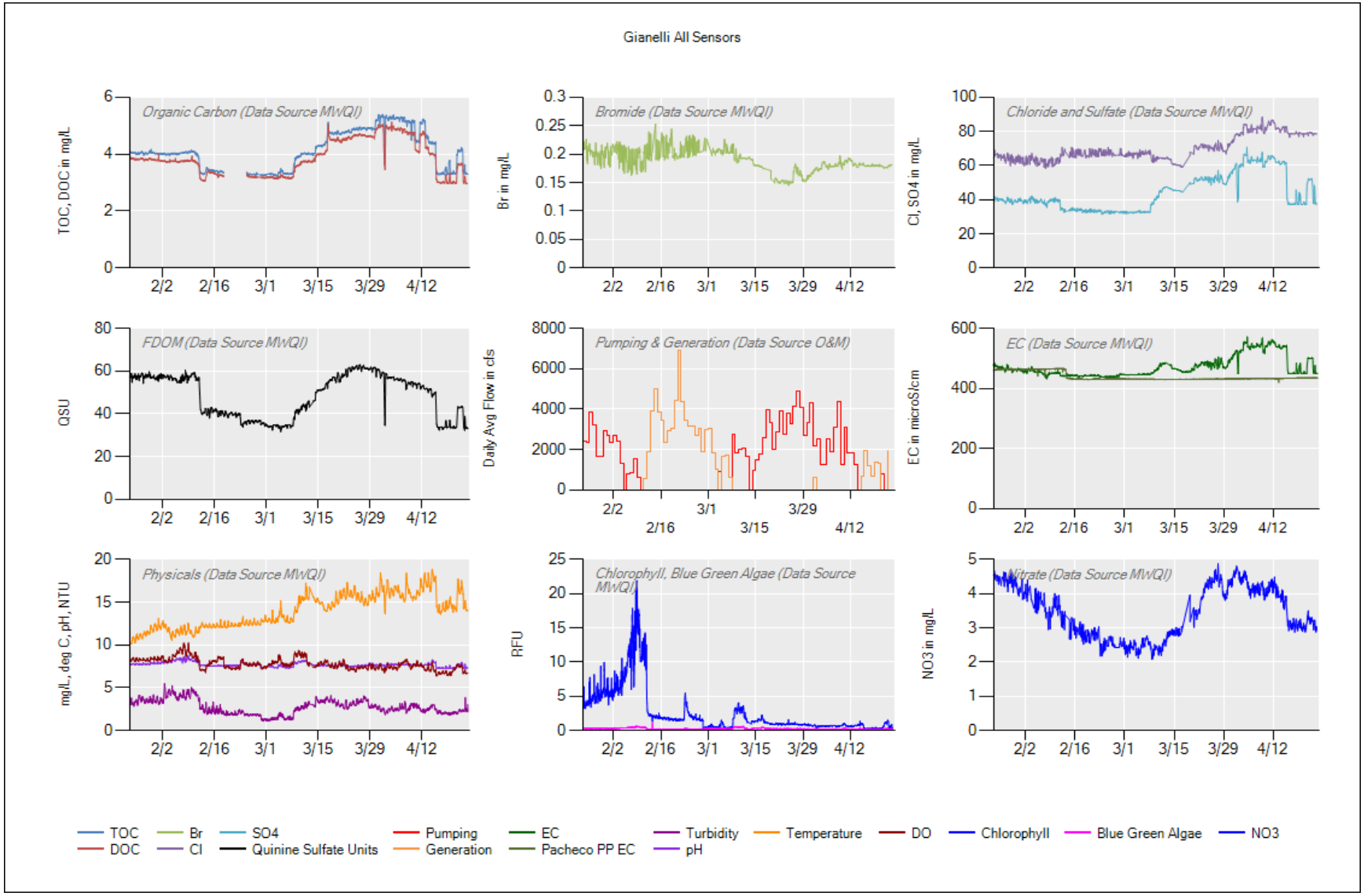


Significant Events: January 24th, 2020 to April 24th, 2020

- **1/30-2/26:** Sievers Main motherboard stopped working. A replacement took some time. During that time a yearly maintenance was also done.

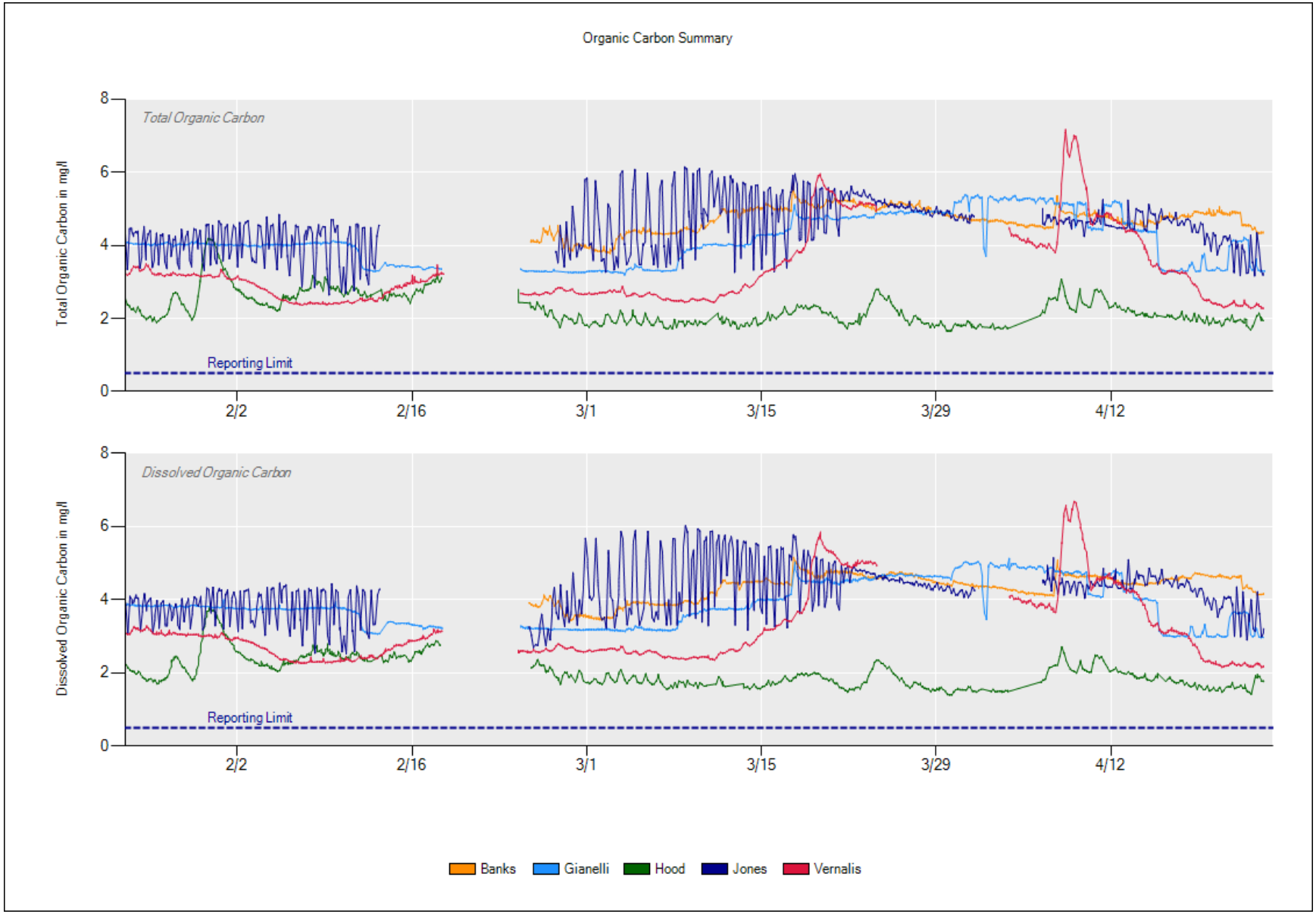


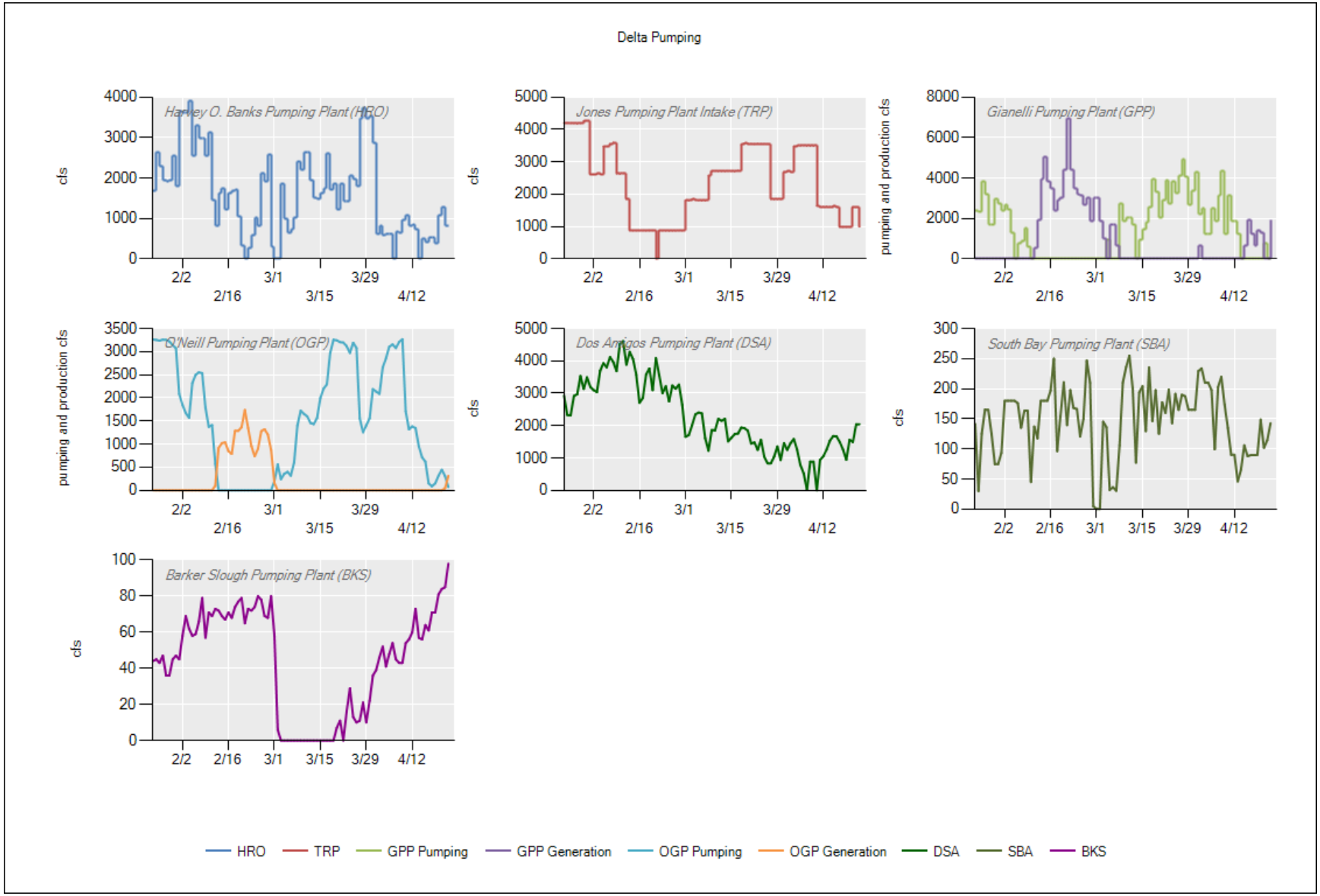
Beginning of April there was a power outage at the station. The Dionex and EXO instruments were able to be restarted remotely, but the Sievers was not, resulting in a brief lapse in data. Aside from that, all instruments have been operating and reporting during the last month. Because of the COVID-19 pandemic, station visits have been reduced to a minimum, but we continue to remotely check our stations to ensure data quality.

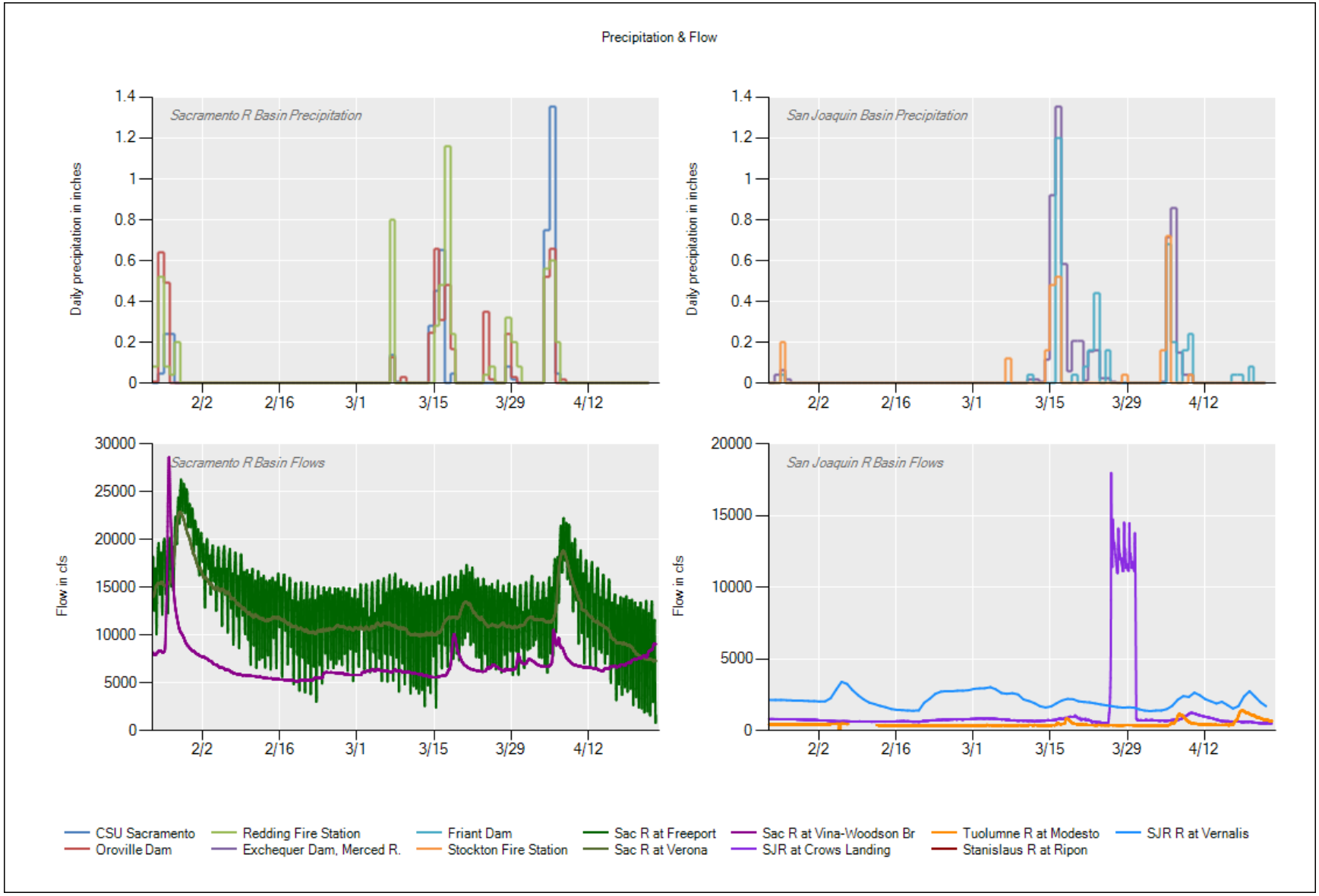


2/13: Replaced system filters, performed QC analysis on carbon and anion analyzers 2/18: Removed carbon analyzer for annual maintenance and calibration 2/24: Reinstalled carbon analyzer 2/28: Exchanged sonde 3/17: Replaced filters, replaced anion analyzer components


Bromide & EC Summary
Bromide (Data Source MWQI)
Bromide in mg/l
0.4
0.3
0.2
0.1
0
Reporting Limit
2/2
2/16
3/1
3/15
3/29
4/12
EC (Data Source MWQI, EMP, O&M)
EC in mS/cm
1200
1000
800
600
400
200
0
2/2
2/16
3/1
3/15
3/29
4/12
Banks
Clifton Court
Gianelli
Hood
Jones
Vernalis


Organic Carbon Summary
Total Organic Carbon
Total Organic Carbon in mg/l
Reporting Limit
Dissolved Organic Carbon
Dissolved Organic Carbon in mg/l
Reporting Limit
0
2
4
6
8
2/2
2/16
3/1
3/15
3/29
4/12
Banks
Gianelli
Hood
Jones
Vernalis


Delta Pumping
Harvey O. Banks Pumping Plant (HRO)
Jones Pumping Plant Intake (TRP)
Gianelli Pumping Plant (GPP)
O'Neill Pumping Plant (OGP)
Dos Amigos Pumping Plant (DSA)
South Bay Pumping Plant (SBA)
Barker Slough Pumping Plant (BKS)
cfs
pumping and production cfs
2/2
2/16
3/1
3/15
3/29
4/12
HRO
TRP
GPP Pumping
GPP Generation
OGP Pumping
OGP Generation
DSA
SBA
BKS


Precipitation & Flow
Sacramento R Basin Precipitation
San Joaquin Basin Precipitation
Daily precipitation in inches
1.4
1.2
1
0.8
0.6
0.4
0.2
0
2/2
2/16
3/1
3/15
3/29
4/12
Sacramento R Basin Flows
San Joaquin R Basin Flows
Flow in cfs
30000
25000
20000
15000
10000
5000
0
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