

MWQI Metrohm 850 IC at Jones PP



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Sample Filtering set-up



Current Set-up at Jones PP and Vernalis

Metrohm 850 IC



Dionex DX-800

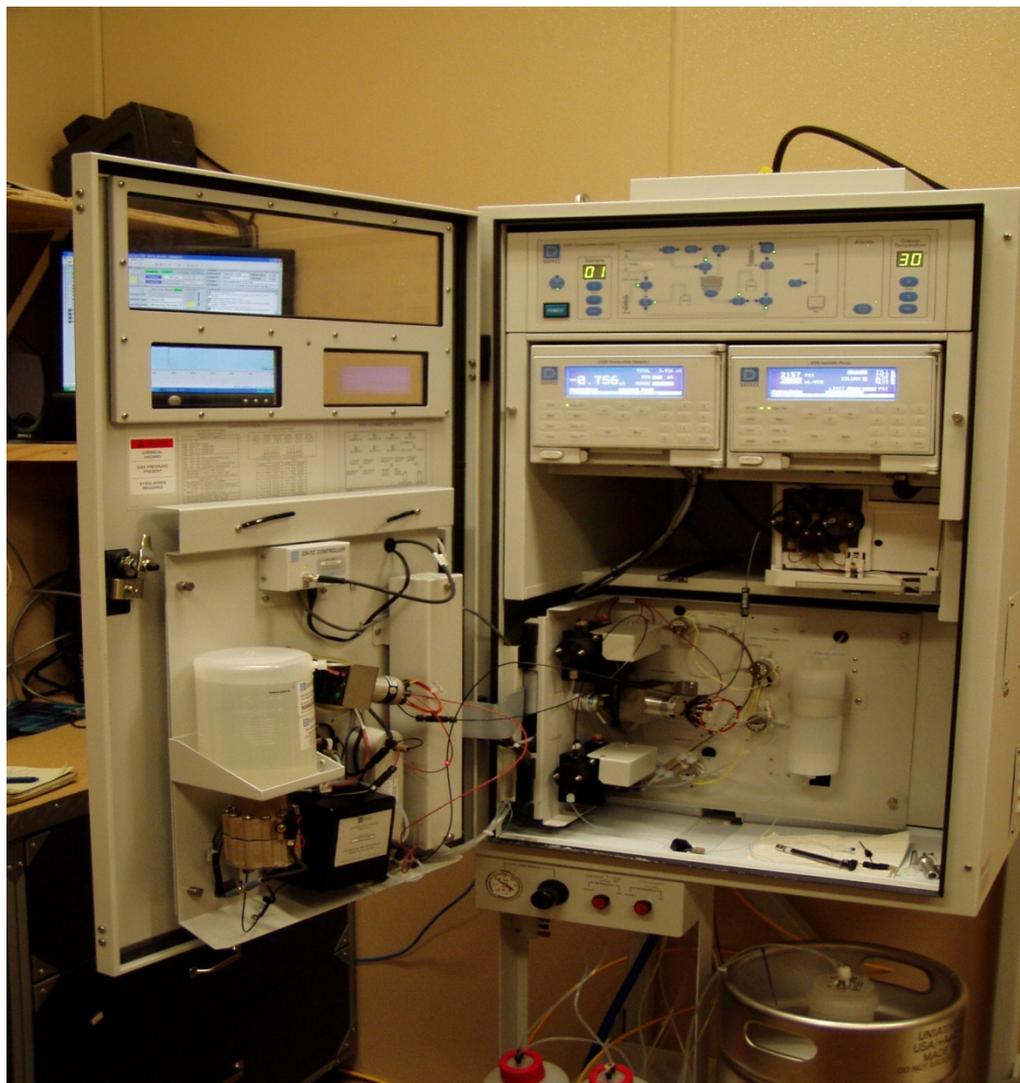


Side by side

Metrohm 850 IC



Dionex DX-800



Differences

Eluent Generation (Mobile phase)

- Metrohm 850-IC – Carbonate/Sodium Bicarbonate
- Dionex DX-800 – Potassium Hydroxide

Differences

Suppression (Removing background conductivity)

- Metrohm 850 IC – Chemical
- Dionex DX-800 – Electro-chemical

Pump and Gas Needs

Metrohm 850 IC

- No gas requirements
- Sample brought into instrument via delivery system water pressure
- Reagents and standards delivered via electronic syringes (Dosinos)

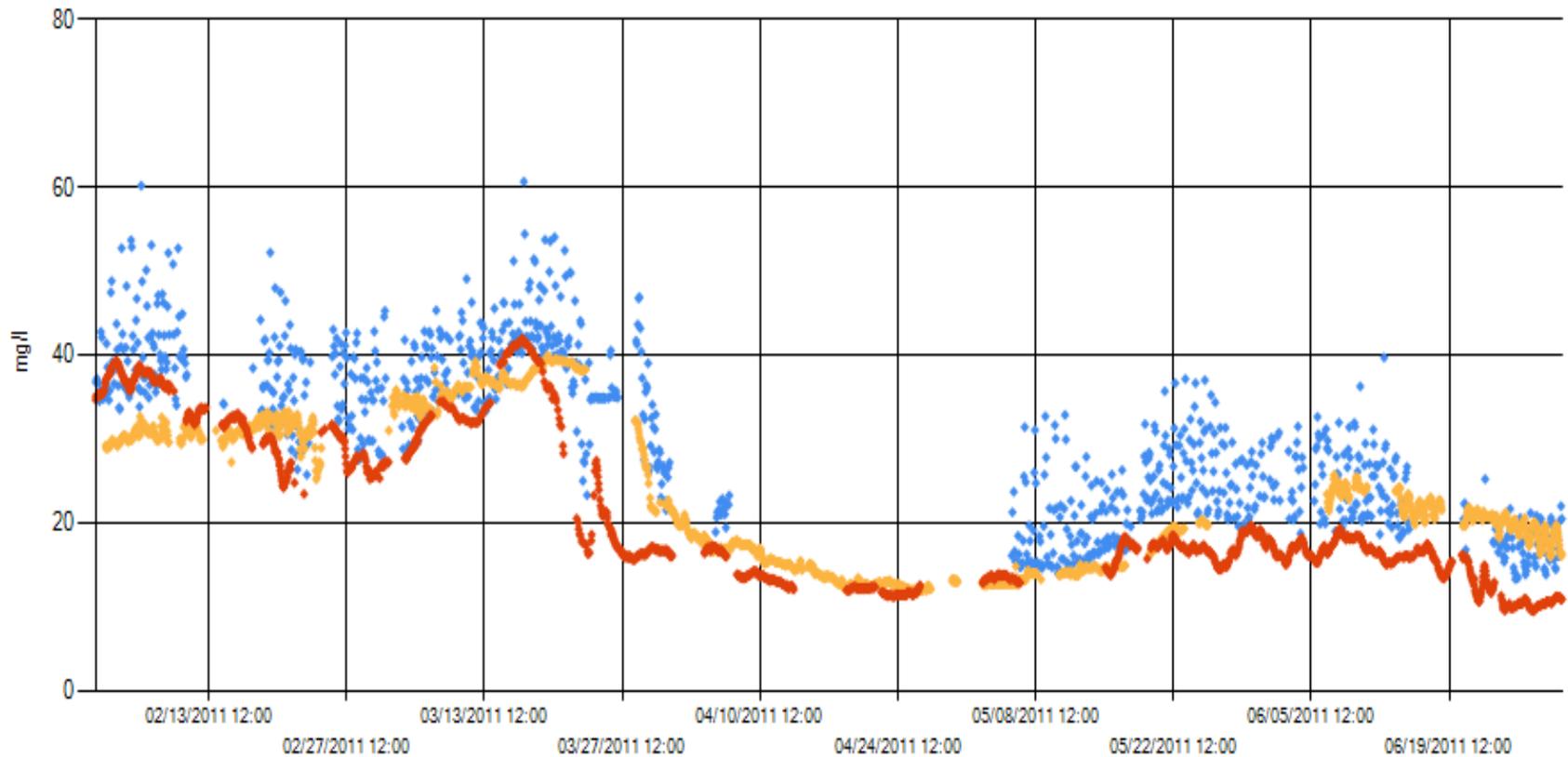
Pump and Gas Needs

Dionex DX-800

- Compressed air and nitrogen required
- Sample delivered to instrument via pneumatic pump
- Standards delivered to instrument via pneumatic pump

Data Comparison Chloride

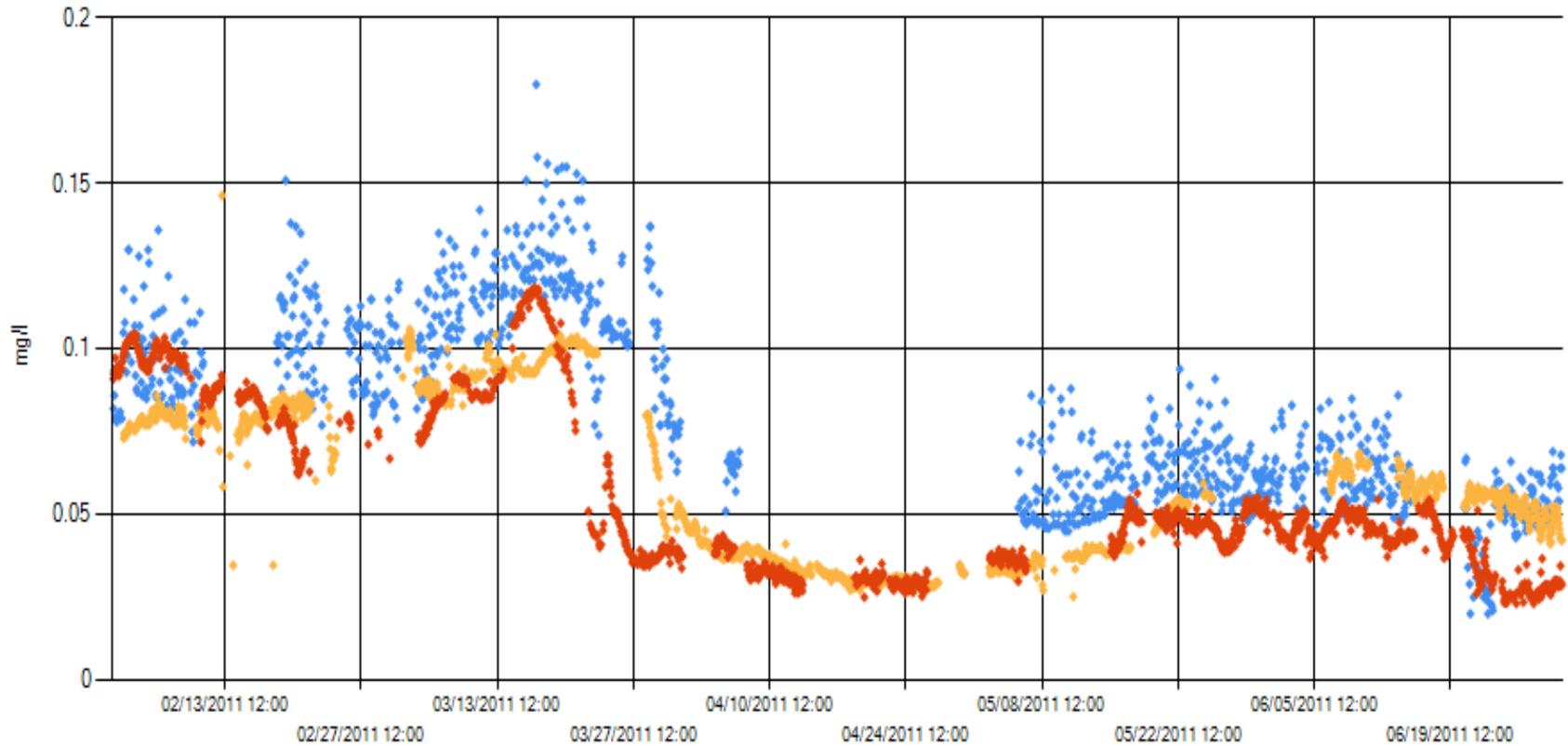
Values for Selected Data



• Jones Pumping Plant Intake-Chloride • H.O. Banks at Headworks-Chloride • San Joaquin River at Vernalis-Chloride

Data Comparison Bromide

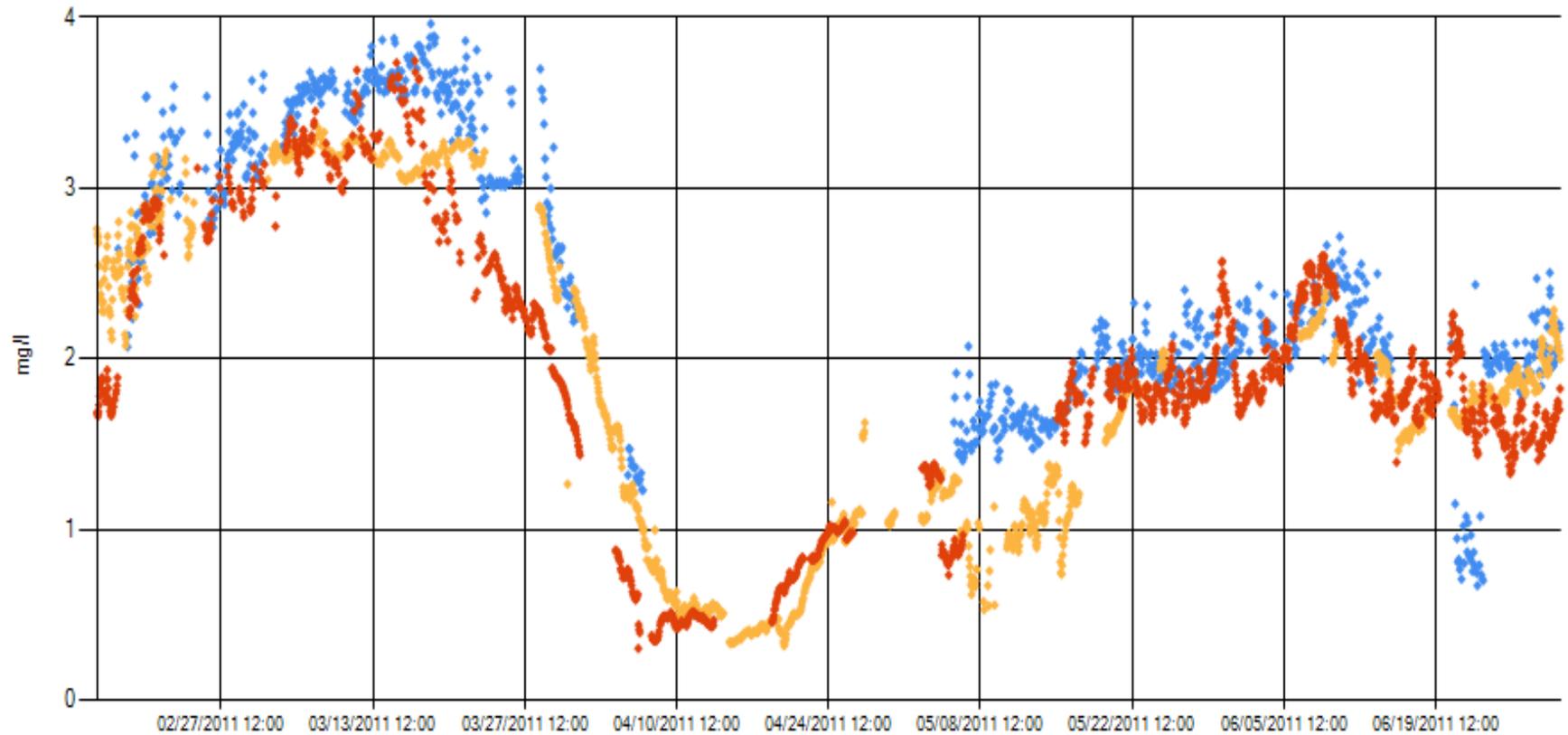
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• Jones Pumping Plant Intake-Bromide • H.O. Banks at Headworks-Bromide • San Joaquin River at Vernalis-Bromide

Data Comparison Nitrate

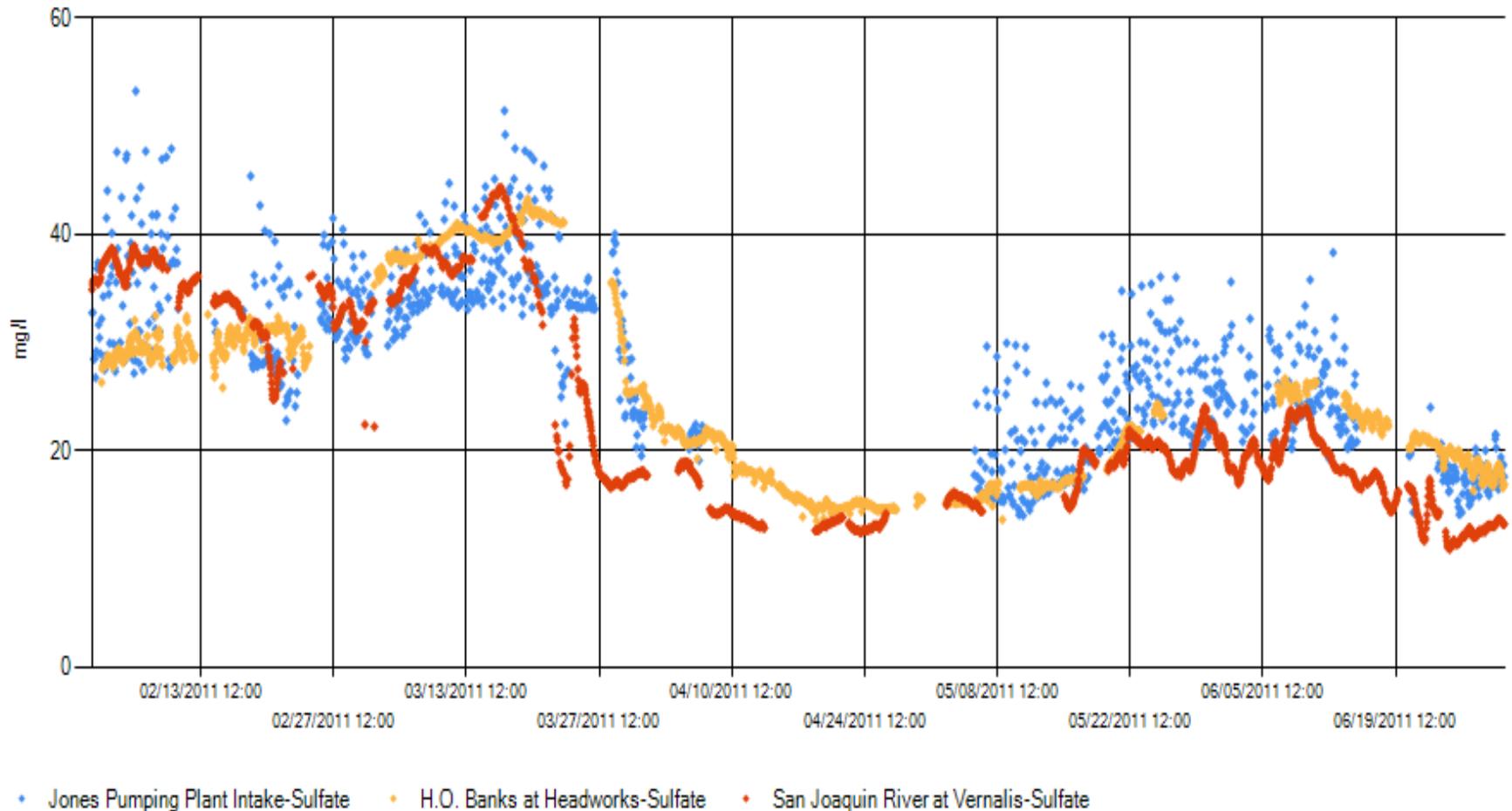
Values for Selected Data



• Jones Pumping Plant Intake-Nitrate • H.O. Banks at Headworks-Nitrate • San Joaquin River at Vernalis-Nitrate

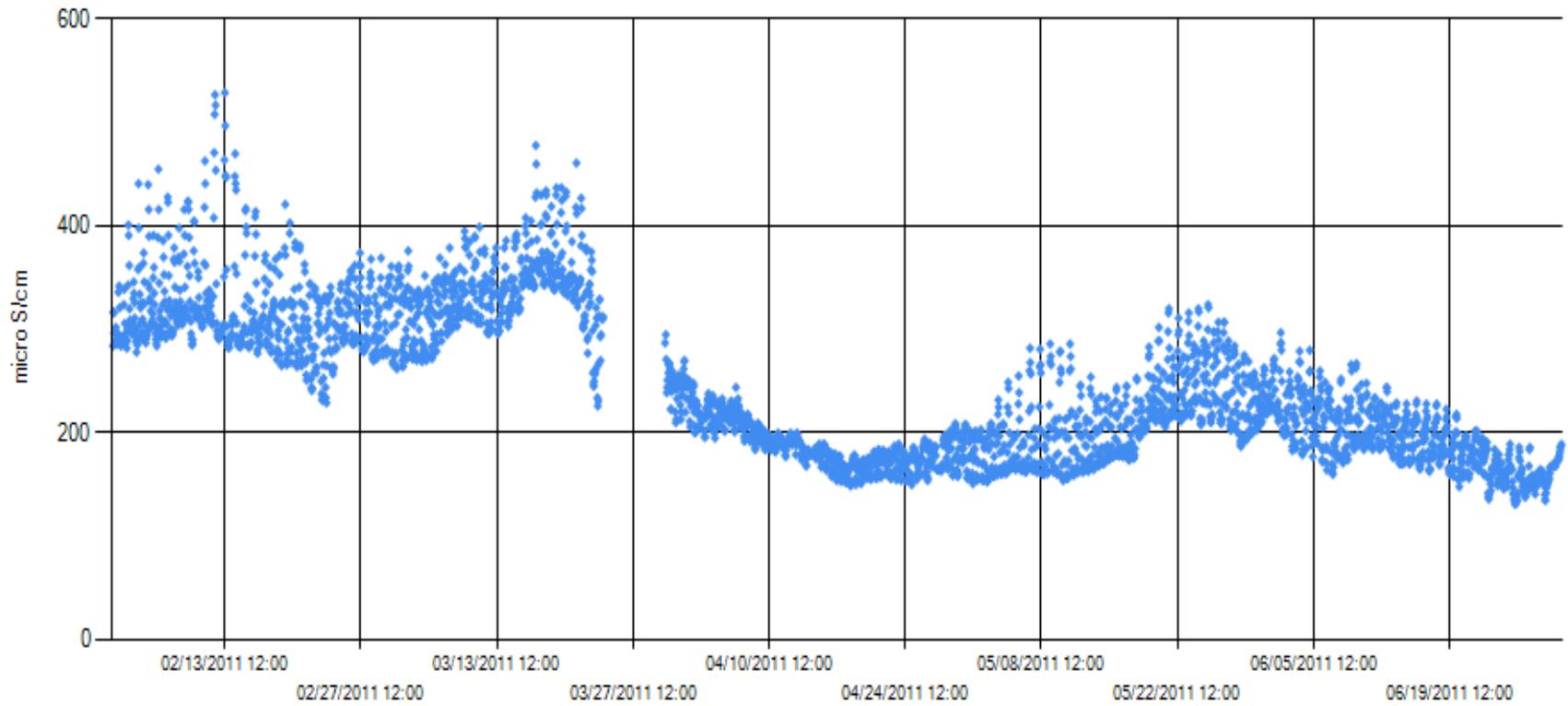
Data Comparison Sulfate

Values for Selected Data



EC at Jones PP

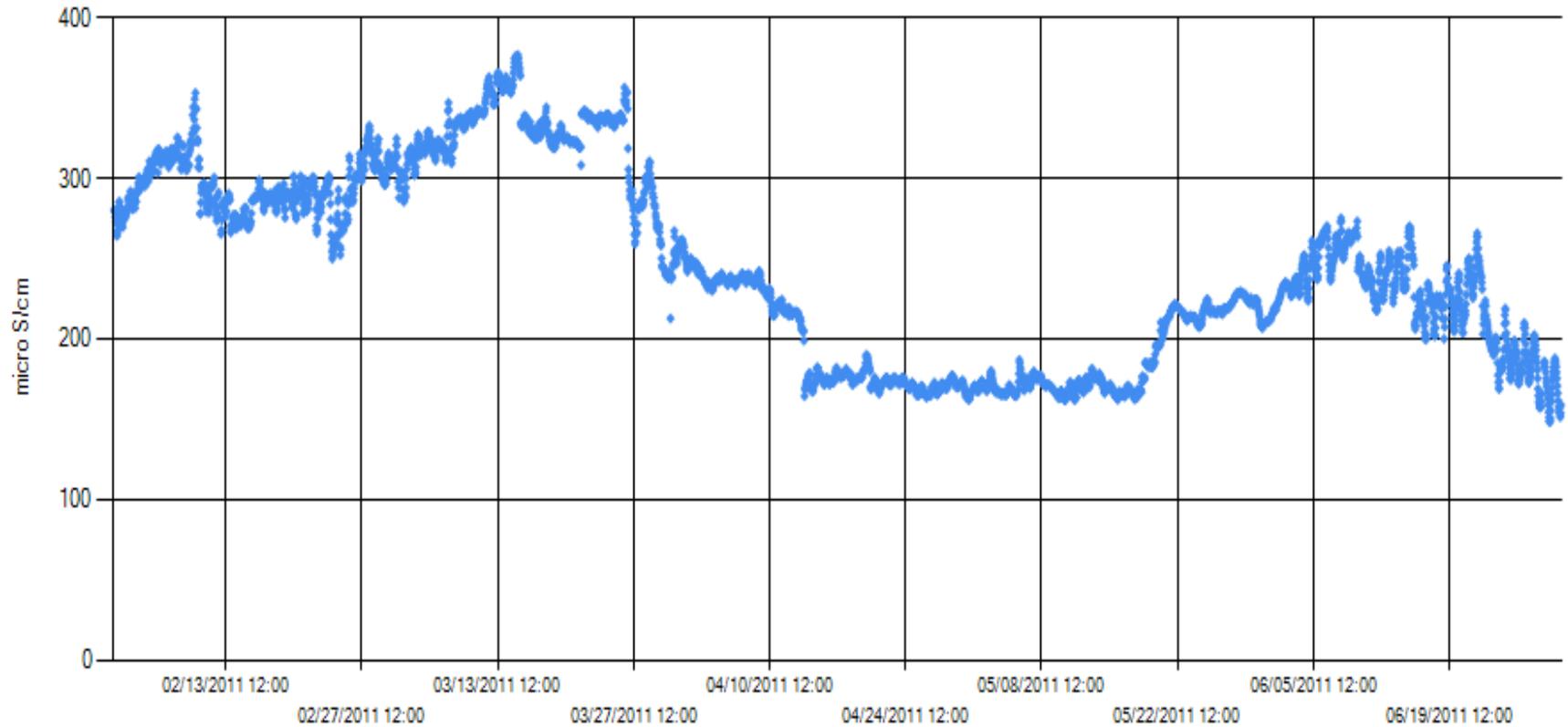
Values for Selected Data



• DMC Headworks-Electrical Conductivity

EC at Banks PP

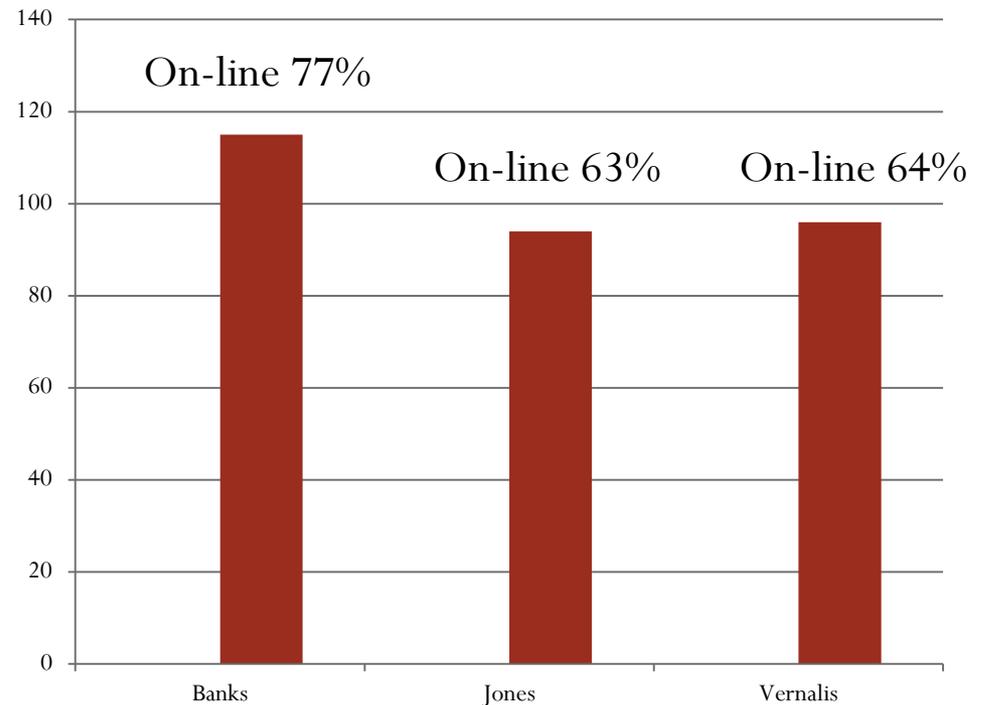
Values for Selected Data



• Harvey Banks Pumping Plant-Electrical
Conductivity

Operational Time Comparison

Number of days the instruments were operational during the five month period between February and June of 2011. (150 days)



Metrohm 850 IC

