

StatenX

Lessons Learned from Measuring Water Diversions



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Why does everything
have to be so complicated?

AG3000 SERIES FLANGED MAGMETER



Features

Rate and total indicator with light sensor
button controls

Power and Output cable port access

Equalization lug

Santoprene/Polypropylene Liner
(Noryl® Liner, 3" only)



Protective faceplate cover and lanyard

User access lid

Data logger port (right
side, not shown)

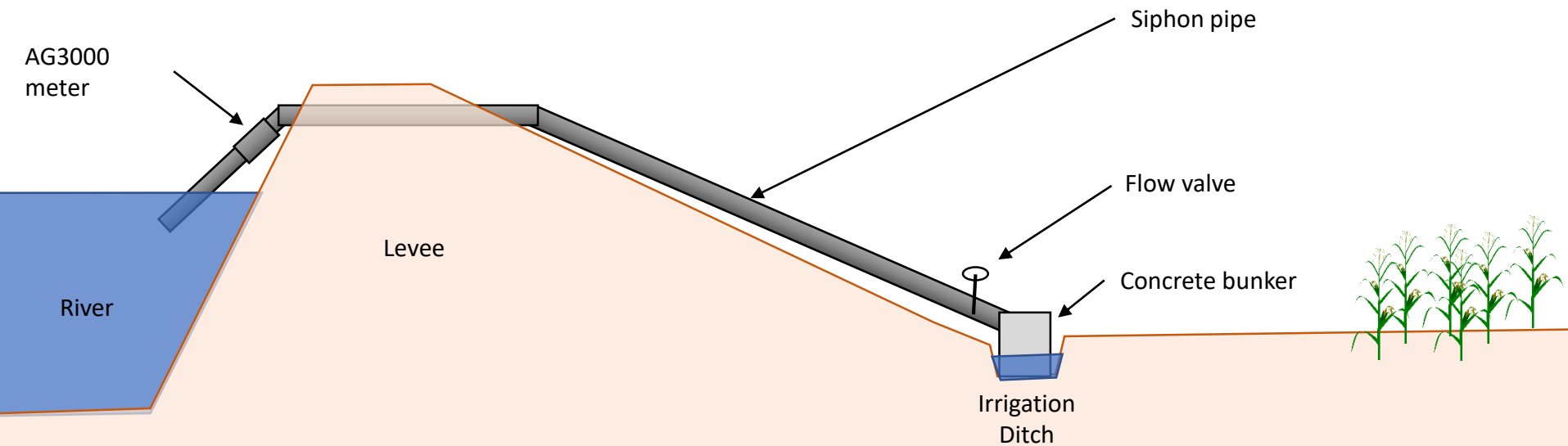
Powder-coated diecast
aluminum electronics housing

316SS electrodes (Inside)

Welded steel epoxy-coated flow tube
(Ductile cast iron flow tube, 3" only)

Flanges, 150 lb.
ANSI pattern

AG3000



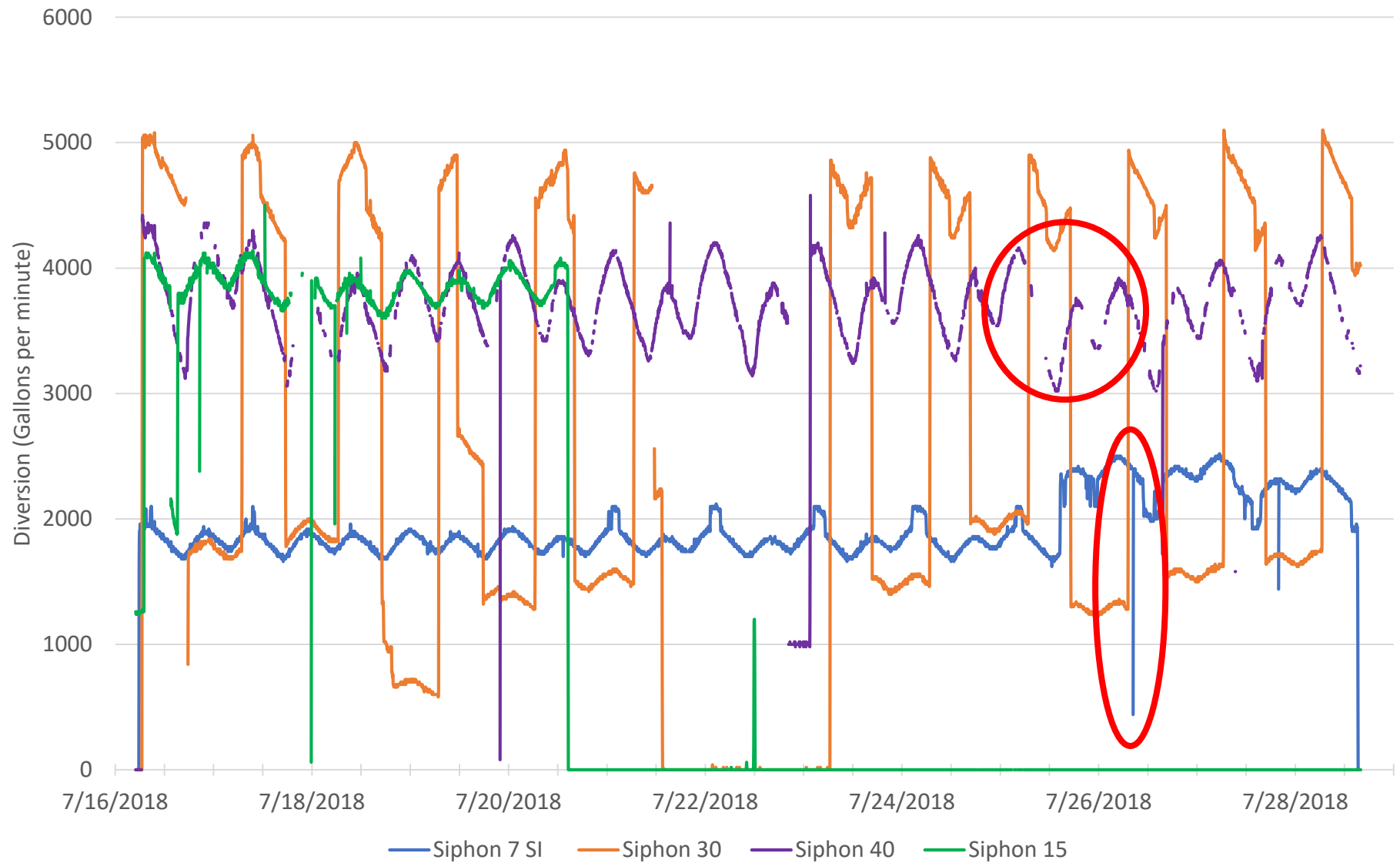
Results

Meter	Raw Percent Error	Meter Cost
Sierra Instruments InnovaSonic 207i Ultrasonic Strap-on	2.31%	\$4,735.00
SoundWater Orcas Ultrasonic Strap-on	1.42%	\$3,832.00
Seametrics Ex250 Magnetic Insertion	16.68%	\$2,752.05
Sierra Instruments InnovaSonic 203 Ultrasonic Strap-on	2.57%	\$2,736.38

Staten Phase 2







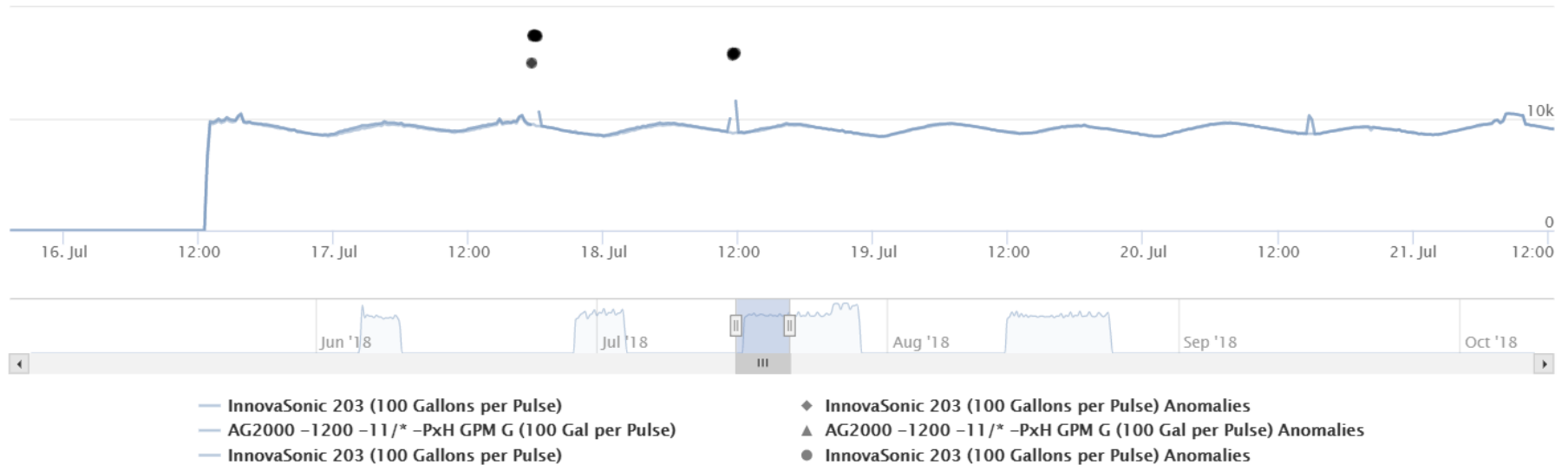
Anomalies chart

Siphon 7 SI ▾ Flow ▾ All time ▾

RELOAD DATA

Zoom 1d 1m 3m 6m YTD 1y All

From Jul 15, 2018 To Jul 21, 2018



Highcharts.com

Data Management Plan

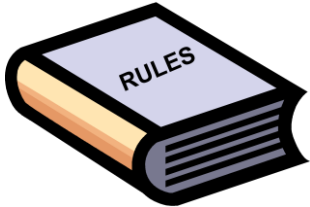


- Outliers: Flag and comment. Remove from analysis
- Small Gaps: Create hourly and daily averages. Summarize by day and month.
- Large Gaps: Use irrigator records and fill in with daily averages from that month.
- Siphons without meters: Use irrigator records and fill in with daily averages from that month for similar siphon type / crop

Recommendations



- State program to install and maintain meters for monthly fee



- Data standards and guidelines



- Digital portal (API) to automatically report measurements



- Enhanced grant program specific to SB88

