

Datalogger enclosure w/CR1000,
install 10/10/2012 (under bridge)

- Corded Solinst (Silver model), black stilling tube, install 2002
- CS450 P.T (tall metal stilling tube), install 10/10/2012

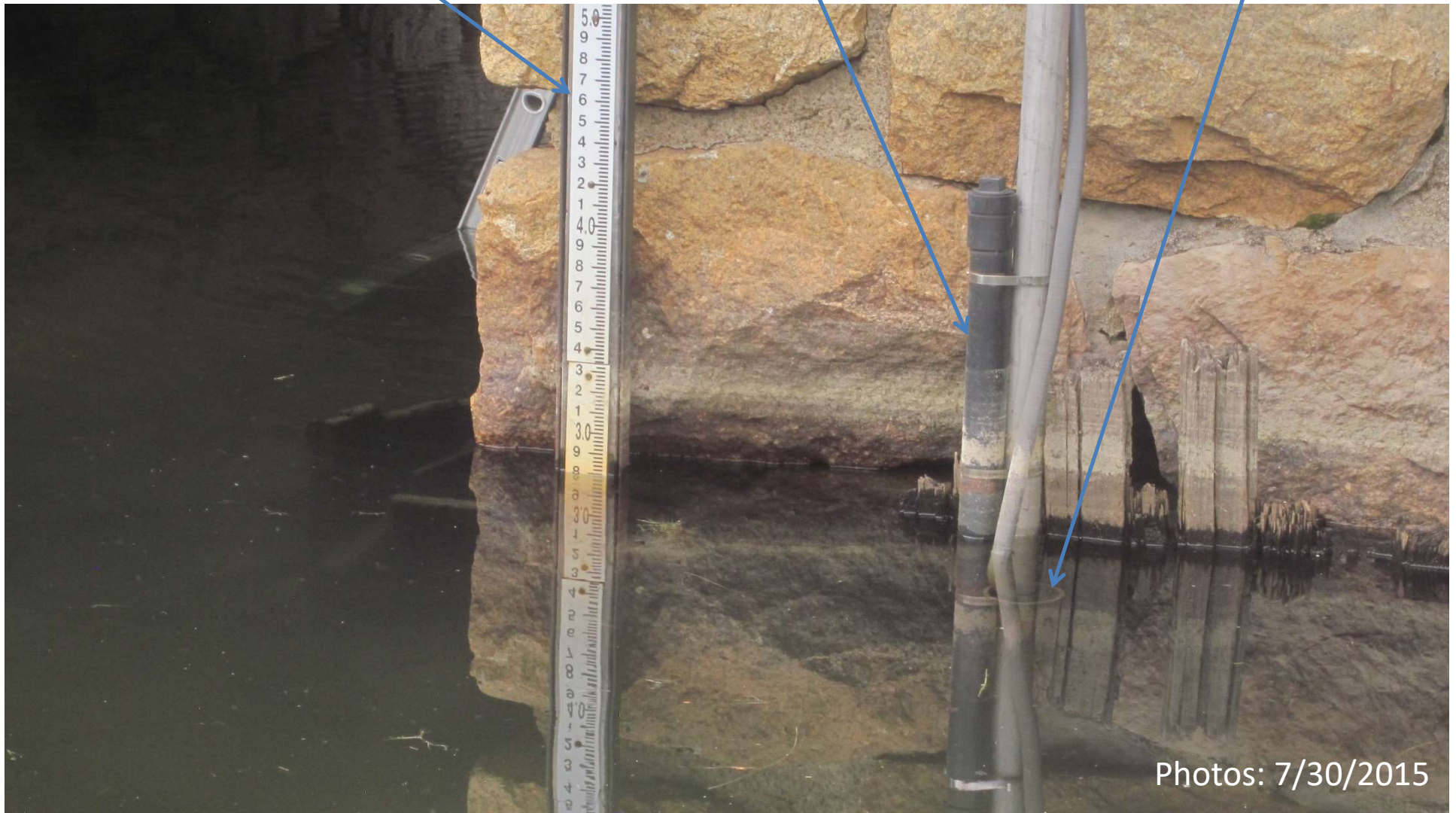


Photo: 7/17/2015

Staff plate, Install 2006
(USGS/SFPUC)

- Corded Solinst (Silver model) black stilling tube install 2002
- CS450 P.T (tall metal stilling tube) install 10/10/2012

DTS-12 Turbidity
Sensor (inside black
solar shield - 4 in. pipe)



Photos: 7/30/2015

10W BP-Solar
Solar Panel

1 ft. RF antennae
(to Tuolumne Meadows
Snow Sensor)



Datalogger program stored under:
YOSE "U" drive>...>Aquarius Data >
Tuolumne River@Tioga Rd.>
Datalogger Programs

Datalogger output to Snow Shed

Sub HandarArray

sendCR1000data (1) = BattV

sendCR1000data (2) = Lvl_ft_2_corr

sendCR1000data (3) = Temp_C_2

sendCR1000data (4) = MedianTurbidity

sendCR1000data (5) = VarianceTurbidity

Offset to match Gage Height (Staff Plate)

PT#1: -0.832 on 7/28/2015 (Backup Stage)

PT#2: -0.827 on 7/28/2015 (Primary Stage)

Bridge-top download: Need to install Serial-> USB converter driver by direct connection to converter with "USB/Serial Bus"(2 ft. USB cable).

7/31/2015-Dell Rugged Latitude 5404 dwnld works,
Dell Field Tablet (USGS) dwnld does not work

90° conduit connector – USB download cable (access via screw panel).

Need Phillips screw driver.

Installed 7/30/2015



Datalogger enclosure

- CR1000 Datalogger SN: 470
 - CS450-L PT 50ft cable-length SN:70010963
 - CS450-L PT 50ft cable-length SN:70010969
 - DTS-12 Turbidity Sensor ? cable-length SN: ?
 - CH100 12V Charge Regulator SN: 6667
 - Serial (RS232) -> USB converter->35ft USB to bridge-top railing conduit
- Install : 10/10/2012



Pelican Case(1620 case) installed 2002?

- Waterlog Series H-424-MS Wireless SDI-12 RF Tranceiver (radio)
- Werker 12V 100Ah AGM Sealed-No-Spill Battery
- Sunsaver 6 12V, 10A, Solar Controller SS-6-12V



Photos: 7/30/2015

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Photo: 7/30/2015



- 3 x 3/8 in. SS wedge bolts w/SS hangers
- 1/8 in. zinc-coated steel cable
- 2 zinc-coated turnbuckles
- 1 SS hose clamp (around conduit)

Anchor system: Installed 7/29/2015



Section control: Gravel bar/slick rock

GH zero flow on 7/29/2015 @16:00:
 $2.79\text{ft} - 0.86\text{ft} = 1.93\text{ft}.$



Photo: 7/29/2015

2014 Datum Survey Notes

L. Petersen, B. Mocsny 08/18/14 14:00p

Surveying in Top of Staff
plate for TR @ 120

~~N592 = US Coast + Geodetic Survey Marker~~

Sta	BS/FSC(ft)	H.I.(ft)	Elevation	Distance(ft)
N592	1.38	101.38	100.00	0.00
TP1	4.81	101.38	96.57	266.70
TP1	5.48	102.05	96.57	-
proof staff plate top	6.88	102.05	95.17	398.8 ft
120			$\Delta = 4.83 \text{ ft}$	

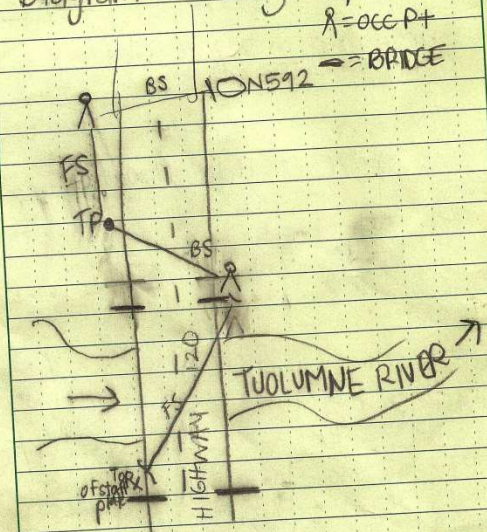
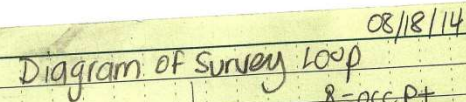
Top of Staff	6.86	106.86	100.00
Plate ^{TS} ₂₀	7.00		
TP1	5.46	106.86	101.40
TP1	4.84	106.24	101.40
N592	1.41	106.24	104.83

$$\Delta = 4.83 \text{ ft} \checkmark$$

Re-survey is within ± 0.02 ft.

See picture on next page.

Scale: 1 square =



	Dist (ft)
N592 → Instrument Occ #1	94.20
Instrument Occ #1 → TP1	72.50
Instrument Occ #2 → TP1	123.00
Instrument → Top of Staff plate	109.10
Total dist =	398.8 ft

Scale: 1 square =

2019 Datum Survey Notes

No. 312

0845 08/01/2019

TR 120 - Tuolumne pg 1 of 2

with Survey + ADCP Discharge

* Staff missing → surveying WSE

WSE Site Survey - MW, RH

for missing gage height

using < * BM → staff plate bottom *
rod Water level near staff plate

Note: * 6.04 ft (?) possible misreading
Water level = 6.40 ft check

BM = 3.22 ft

Staff plate = 9.85 ft + 1
site reading level

ADCP - DR, Bma, JL

* Middle staff ripped off, surveying
the bottom of the upper part of plate still attached @ 6.67 ft

9.85 ft

6.40 ft

6.67 ft

Bridge

River Right Bank

* WSE = 9.85 ft - 6.40 ft = 3.45 ft

* WSE = 6.67 ft - 3.22 ft = 3.45 ft

No. 312

page 1 of 2 08/08/2019

TR 120 - Tuolumne 1100

MW, DR, K. mi

Site Survey

* Note: Survey shooting over staff, so we surveyed top of staff plate

Time: 11:14

WSE = 8.22 ft

Bottom staff = 5.03 ft

measurement on top of staff plate = 1.75 ft (re-surveyed 4 times, consistent 1.7 ft)

1.70 ft

Time: 12:12

WSE = 8.08 ft

Bottom staff = 5.03 ft

staff site reading on top of staff plate = 1.70 ft

* Top of staff plate = 9.99 ft

Solinst - Levellogger

Time removed/replaced: 12:00 / 12:03

Old s/n: 2065035

New s/n: ~~2004212~~
2004212

WSE

1.3.47 ft @ 11:14

2.3.61 ft @ 12:12