

Lyell below Meclure

8/6/19
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Personell: RH, DR, MW, BMa, Kimi

$$TD \text{ from bolt} = 10 - \frac{2.54 \text{ ft}}{2.49 \text{ ft}} = 7.5 \text{ ft} @ 1000$$

Public Table

Rec Num	34271
Timestamp	8/6/2019 15:53
BattV	13.38V
Lvl-ft	1.81 ft
Temp C	11.26 C
Observed	7.71
Lvl-corr	7.51
Offset	5.69
Cond	0.0 ms/cm
Ct.	0 ms/cm
Temp C-2	0 °C
SpC	0 us/cm
Rs-1	0.995
Rs-2	204.79
Rs-3	204.79
Ct-1	0.0069
Ct-2	5.47 ms/cm
Sc-us	7.53 us/cm
Water T-C5547	11.29 °C

Return to Rain

* Downloaded data to Measurements folder on Tablet.

Hyell b/L Masure Cont.

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- Photo points from N/S/E/W taken

- Hydroclimate instruments swapped:

	old SN	New SN	Time swapped
Levelogger	2004273	2052258	16:15
Barologger	0012003905	0012081180	16:01
Temp/RH ProV2			16:06
TidBit	unreadable	10197069	16:05

→ All pre launched @ 1:00PM
(PDT)

TD Arm height = $10 - 2.49 \text{ ft} = 7.51 \text{ ft}$
@ 1620

- Site resurveyed

BM ₂	[ABP3304100]	=	2.08 ft
BM ₁	[F593GCK]	=	1.69 ft
TD	[ABF598G]	=	1.92 ft
Top of black stilling tube		=	2.54 ft

- Dessicant still blue, looks good!

Discharge # 1 - Wet Salt Slug

Primary Soln: 1400 mL w/ 228.3 g

Secondary: 1000 mL + 1.5 mL

Calibration: 1000 mL

TD = 10 - 2.30 ft = 7.70 ft @ 8:02 PM

Background SPC = 4.9 $\frac{\mu S}{cm}$

Slug @ 00:44:40 logger time (8/6/19)

Peak SPC = 8.9 $\frac{\mu S}{cm}$

Temp = 10.2°C

End SPC = 4.9 $\frac{\mu S}{cm}$ @ 50:50:22

→ Stopped logging

TD = 10 - 2.29 = 7.71 ft @ 8:20 PM

Calibration Curve $R_0 = 6.0 \frac{\mu S}{cm}$ $R_1 = 7.4 \frac{\mu S}{cm}$ $V_1 = 1.5 mL$ $R_2 = 7.7 \frac{\mu S}{cm}$ $V_2 = 1.5 mL$ $R_3 = 9.5 \frac{\mu S}{cm}$ $V_3 = 3.0 mL$ $R_4 = 11.3 \frac{\mu S}{cm}$ $V_4 = 4.6 mL$ $R_5 = 13.4 \frac{\mu S}{cm}$ $V_5 = 4.6 mL$ $R_6 = 15.5 \frac{\mu S}{cm}$ $V_6 = 4.6 mL$ $R_7 = 17.6 \frac{\mu S}{cm}$ $V_7 = 4.6 mL$ $R_8 = 19.7 \frac{\mu S}{cm}$ $V_8 = 4.6 mL$

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Discharge # 2 - Wet Salt Slug

Primary Soln: 2260 mL

Secondary: 1000 + 1.5 mL

Calibration: 1000 mL

TD = 10 - 2.29 = 7.71 ft @ 8:28 PM

Background SPC = $5.8 \frac{\mu S}{cm}$

Peak SPC = $14.6 \frac{\mu S}{cm}$

End SPC = $5.8 \frac{\mu S}{cm}$ @ 01:22:20

- stopped logging

Temp = 10°C

TD = 10 - 2.30 ft = 7.70 ft @ 8:40 PM

Calibration Curve $R_0 = 7.4 \frac{\mu S}{cm}$

$R_1 = 7.6 \frac{\mu S}{cm}$ $V_1 = 1.5 mL$

$R_2 = 9.2 \frac{\mu S}{cm}$ $V_2 = 4.6 mL$

$R_3 = 10.5 \frac{\mu S}{cm}$ $V_3 = 4.6 mL$

$R_4 = 11.7 \frac{\mu S}{cm}$ $V_4 = 4.6 mL$

$R_5 = 12.5 \frac{\mu S}{cm}$ $V_5 = 4.6 mL$

$R_6 = 14.0 \frac{\mu S}{cm}$ $V_6 = 9.2 mL$

$R_7 = 15.5 \frac{\mu S}{cm}$ $V_7 = 9.2 mL$

$R_8 = 24.9 \frac{\mu S}{cm}$ $V_8 = 15 mL$

$R_9 = 34.2 \frac{\mu S}{cm}$ $V_9 = 15 mL$

Lyell below Machine 08/07/2019

ADV Discharge Measurement 0625

MW, Bma pg 1 of 2

File name: ~~LYABMcd~~ ^{BE} LYBLMcd

Operator: Bma

Location: Transect about 250 ft

safer location ← * upstream from gage station

TD #1: $10 - 2.41 \text{ ft} = 7.59 \text{ ft}$ @
(w/ tape measure) 0629

Width: ~28 ft

Intervals: 2.5 ft

Start: LEW @ 0645

End: REW @ 0710

TD #2: $10 - 2.42 \text{ ft} = 7.58 \text{ ft}$ @
(w/ tape measure) 0722Parameters $Q_T = 55.134 \text{ cfs}$ $d_{\max} = 3.00 \text{ ft}$ $Q_R = 0$ $w = 30 \text{ ft}$ Uncertainty = 34.40% $A = 40.574 \text{ ft}^2$

↳ Greatest Source: depth @ 26.6%

 $V_{\text{mean}} = 1.359 \text{ ft/s}$ $\text{SNR}_{\text{mean}} = 35.7 \text{ dB}$ $V_{\max} = 3.634 \text{ ft/s}$ $\text{CV}_{\text{mean}} = 0.067 \text{ ft/s}$ Stations = 13 $T = 43.5^\circ \text{ F}$ $d_{\text{mean}} = 1.35 \text{ ft}$ Note: 1 interval skipped in that way due to fast flow (unsafe)

TD #3 = 10 - 2.43 = 7.57 ft
(w/eng. ruler) 0812