

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. 102
Comp. by EJB
Checked by _____

Sta. No. B3
Sta. Name LAWSON
Date 1/15/10, 20 10 Party BAM, EJB, LFS
Width 4.1 Area 0.82 Vel. 1.30 G. H. _____ Disch. 1.07
Method 6 No. secs. 14 G. H. change 0.06 in 0.4 hrs.
Method coef. 1.0 Horiz. angle coef. 1.0 Susp. Rod Tags checked _____
Meter Type Pygmy Meter No. 0084028 Meter _____ ft. above bottom of wt.
Rating used 6/99 Spin test before meas. 1:30; after OK
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS		Tape ↓	
Time		Inside	Outside
<u>1625</u>		<u>7.57</u>	<u>-1.06 ± .5</u>
<u>1630</u>	Start <u>Purge - Removed Debris</u>		<u>-1.06 ± .5</u>
<u>1640</u>			
<u>1700</u>		<u>6.62</u>	<u>1.12 ± .0</u>
	Finish		
Weighted MGH			<u>-1.06 ± .5</u>
GH correction			<u>-</u>
Correct MGH			

Samples collected: water quality, sediment, biological, other _____
Measurements documented on separate sheets: water quality, aux./base gage, other _____
Rain gage serviced/calibrated _____
Weather: PG Light Breeze
Air Temp. _____ °C at _____
Water Temp: _____ °C at _____
Check bar/chain found _____
Changed to _____ at _____
Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 60 ft., mi. upstr., downstr. of gage.
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: Slightly Turbulent → steady
Cross section: Cobble/Gravel/sand → Firm/Fairly Even

Gage operating: OK Record Removed No
Battery voltage: 13.4 Intake/Orifice cleaned/purged: Yes
Bubble-gage pressure, psi: Tank 1250, Line 15; Bubble-rate 45 /min.
Extreme-GH indicators: max _____, min _____
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM inside/outside: _____
Control: Clear

Remarks: Ran Levels → Stage Rose fairly quickly after
YST SC = 34.6 @ 38°C Meas. PH (Taken in Lab 01/15/10 @ 1630)
GH of zero flow = GH _____ - depth at control 7.31 = _____ ft., rated _____

ANGLE COEF. FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVA- TION DEPTH	REVO- LUTIONS	TIME IN SEC- ONDS	VELOCITY		ADJUSTED FOR HOR. ANGLE OR	AREA	DISCHARGE	.80
							AT POINT	MEAN INVER- TICAL				
	7.2	.2	0		LEW @	1640					0	0
	7.6	.35	.1		30	40	.752			.035	.026	.85
	7.9	.3	.18		30	44	.686			.054	.037	
	8.2	.3	.22		60	44	1.34			.066	.088	
	8.5	.3	.24		80	47	1.67			.072	.120	.90
	8.8	.3	.3		80	43	1.82			.09	.164	.92
	9.1	.3	.31		100	46	2.12			.093	.197	
	9.4	.3	.4		100	48	2.03			.12	.244	.94
	9.7	.3	.31		20	48	4.31			.093	.040	.96
	10	.3	.20		30	42	.717			.06	.043	.97
	10.3	.3	.15		30	41	.734			.045	.033	.98
	10.6	.3	.2		50	45	1.1			.06	.066	.99
	10.9	.35	.1		15	44	.359			.035	.012	
	11.3	.2	0		REW @	1700				0	0	
0	/	/								/		1.00
	4.1	4.1								0.823	1.07	
												.99
												.98
												.97
												.96
												.94
												.92
												.90
												.85
												.80
												.75

pH = 7.309