

9-275-F
(Apr. 93)

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Meas. No. 62

Comp. by NRM

WATER RESOURCES DIVISION

Sta. No. C1 Commonwealth DISCHARGE MEASUREMENT NOTES

Checked by CHW

Date 12-13, 19 2007 Party AMS, NRM

Width 6.6 ft Area 1.59 ft² Vel. 6.81 ft/s G.H. 6.70 Disch. 1.094 cfs X

Method 1.568 No. secs. 670 in 1.051 cfs hrs. Susp. 1.051 cfs

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

Meas. Plots % diff. from rating. Levels obtained

GAGE READINGS				WATER QUALITY MEASUREMENTS		
Time	Inside		Outside	No	Yes <input checked="" type="checkbox"/>	Time <u>1306</u>
1308	1.478			PH <u>9.3</u>	Samples Collected	Cond. <u>29.2</u>
<u>1308</u>	<u>1.478</u>		<u>2.46</u>	No	Yes <input checked="" type="checkbox"/>	Time <u> </u>
<u>1337</u>	<u>1.54</u>			EDI <u>8.56</u>	Method Used	
<u>1405</u>	<u>1.58</u>		<u>2.38</u>	EDI <u>8.64</u>	EWI <u> </u>	Other <u>D.P.</u>
				SEDIMENT SAMPLES		
				No	Yes	Time
				Method Used		
				EDI	EWI	Other
Weighted M.G.H.				BIOLOGICAL SAMPLES		
G.H. correction				Yes	Time	
Correct M.G.H.				No	Type	

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge feet, mile, above, below gage.

Measurement rated excellent(2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow

Cross section

Control

Gage operating Yes Weather sunny, str uv breeze

Intake/Orifice cleaned No Air 6 °C@ 1313 Water 9.8 °C@ 1306

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank Feed Bbl rate per min.

CSG checked Stick reading

Observer outside, in well

HWM

Remarks X6@ 1308 WT - 9.27 BV - 13.5

SC - 32.5

AT - 10.1

G. H. of zero flow ft. Sheet No. of sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75
River at—

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge	
							At point	Mean in ver- tical				
	12.0	.65					LEW @ 1340					
	10.7	.8	.3		30	44		.686		.24	.1646	.85
	10.4	.3	.2		30	43		.701		.06	.0421	
	10.1	.3	.22		25	43		.590		.066	.0389	
	9.8	.3	.25		30	42		.717		.075	.0538	.90
	9.5	.3	.28		30	45		.671		.084	.0564	.92
	9.2	.3	.35		30	45		.671		.105	.0705	.94
	8.9	.3	.38		25	41		.617		.114	.0703	
	8.6	.3	.38		40	51		.784		.114	.0894	.96
	8.3	.3	.3		30	43		.701		.09	.0631	.97
	8.0	.3	.33		40	51		.784		.099	.0776	.98
	7.7	.3	.34		40	49		.815		.102	.0831	.99
	7.4	.3	.3		30	45		.671		.09	.0604	
	7.1	.3	.3		25	40		.631		.09	.0568	
o	6.8	.3	.26		25	46		.553	.078	.104	.0575	1.00
	6.5	.7	.23		25	51		.502	.617	.161	.0993	.081
	5.4	.55					REW @ 1400					
	6.6	6.6						.681		1.594	1.094	.99
								.670		1.568	1.051	.98
												.97
												.96
												.94
												.92
												.90
												.85
												.80

Q check
CHW