Form 9-275-G
(Nov 1993)

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION

DISCHARGE MEASUREMENT NOTES

Meas. No. 55

Sta. No. _____ Commonwealth St

Comp. by _____

Checked by CHW

Date 12/14/06, 19 _____ Party ESG LFS

Width _____ Area _____ Vel. _____ G. H. _____ Disch _____

Method _____ No. secs. _____ G. H. change _____ in _____ hrs. Susp. _____

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

Type of meter cutthroat Date rated _____ Tag checked _____

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

Meas. plots _____ % diff. from _____ rating. Levels obtained _____

GAGE READINGS

Time		Inside			Outside
1400		1.22			2.720*
1410		1.25		cutthroat .118	↳ 8.28 CHW
1415		1.43			2.695*
					↳ 8.305
				↳ .058 cfs	CHW

Weighted M.G.H. _____

G.H. correction _____

Correct M.G.H. _____

WATER QUALITY MEASUREMENTS

No _____ Yes _____ Time 1400

Samples Collected WT=2.2 SC=31.6 pH=7.36

No _____ Yes _____ Time 1400

Method Used

EDI _____ EWI _____ Other _____

SEDIMENT SAMPLES

No _____ Yes _____ Time _____

Method Used

EDI _____ EWI _____ Other _____

BIOLOGICAL SAMPLES

Yes _____ Time _____

No _____ Type _____

Check bar. chain found _____ changed to _____ at _____

Wading, cable, ice, boat, upstr., downstr., side bridge 10 feet mile, above, below gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (over8%); based on the following cond:

Flow uniform

Cross section sandy

Control clear, operating

Gage operating yes Weather overcast

Intake/Orifice cleaned no Air 29F °C@ _____ Water 32C °C@ _____

Record removed no Extreme Indicator: Max. _____ Min. _____

Nitrogen Pressure Tank 1800 Feed 10 Bbl rate _____ per min.

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well

Remarks * tape down from top of rebar
orifice under sediment, SC + T probes out of water
CR10 was left @ 15 sec. intervals!!! ☺

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

*U.S. GOVERNMENT PRINTING OFFICE:1993-560-446

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at–

ANGLE COEFFICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVATION DEPTH	REVOLUTIONS	TIME IN SECONDS	VELOCITY AT POINT	VELOCITY MEAN IN VERTICAL	ADJUSTED FOR HOR. ANGLE OR ----------	AREA	DISCHARGE
	cutthroat flume meas @ 1410 = 0.118										
⊙		#6 @ 1400									
			1) 1.24 ST								
			2) 2.18 WT								
			3) -3.06 SC (???) later it read 26.7 after putting back in water all the way. Try!								
			4) -1.14 AT								
			5) 12.8 BV								

.80 .85 .90 .92 .94 .96 .97 .98 .99 1.00 .99 .98 .97 .96 .94 .92 .90 .85 .80

.0 .10 .20 .30 .40 .50 .60 .70 .75

Form 9-276
(July 1967)

U. S. DEPARTMENT OF THE INTERIOR
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STATION NUMBER

LEVEL NOTES

STREAM Commonwealth Stream
LOCALITY
PARTY LFS π ESG Φ DATE 12/14/06, 19

STATION	B. S.	HT. INST.	F. S.	ELEVATION	REMARKS
RM1	2.744	12.744	2.744	10.00	given Bolt downstream
RM2			3.479	9.265	
Top of Rebar			1.745	10.999	
PZF			4.555	8.189	
TP1	3.439	12.634	3.549	9.195	
PZF			4.445	8.189	
top of Rebar			1.632	11.002	
RM2			3.368	9.266	
RM1			2.635	9.999	
		CD=	0.001		

NO. ____ OF ____ SHEETS ____ COMP. BY ____ CHK. BY ____