9-275-F
(Apr. 93)

U.S. Department of the Interior
U.S. Geological Survey

Water Resources Division

Meas. No. 23

Comp. by

Sta. No. Aiken Creek @ F5 **DISCHARGE MEASUREMENT NOTES** Checked by

Date 12/31/98 Party MG, AB

Width 19.4 Area 6.31 Vel. 0.293 G.H. Disch. 1.85

Method wading No. Sec. G.H. Change in hrs. Susp.

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

Type of meter Pygmy 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	WT	SC		Outside
1145	1.58	7.30	151.8		0.57
1200	1.58				
1210					0.57
Weighted MGH					
GH correction					
Correct MGH					

WATER QUALITY MEASUREMENTS

No..... Yes..X..... Time.....

Samples Collected

No...X..... Yes..... Time.....

Method Used

EDI..... EWI..... Other.....

SEDIMENT SAMPLES

No...X..... Yes..... Time.....

Method Used

EDI..... EWI..... Other.....

BIOLOGICAL SAMPLES

Yes.....Time.....

No...X.....Type.....

Check bar, chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge 50 feet, mile, above, below, gage.

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

Flow

Cross section rel. uniform

Control Clear, flow over weir

Gage operating OK Weather Breezy, ptly cloudy

Intake/Orifice cleaned Air °C@ Water °C@

Record removed Extreme Indicator: Max Min

N_2 Pressure Tank 1400 Feed 10 Bbl rate 90 per min. Batt volt

CSG checked Stick reading

Observer

HWM outside,in well

Remarks field SC = 116.4 WT = 7°C

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

River at-

Angle coef-ficient	Dist. from initial point	Width	Depth	Observa-tion depth	Rev-olu-tions	Time in seconds	VELOCITY: At point	VELOCITY: Mean in ver-tical	Adjusted for hor.-angle or ——	Area	Discharge
	7.8	0.75	LEW @	1154		60					
	9.3	1.25	0.28	0.6	0	60		0		0.288	0
	10.3	1.25	0.30	|	0	60		0		0.375	0
	11.8	1.25	0.30	|	0	60		0		0.375	0
	12.8	1.00	0.38	|	0	60		0		0.38	0
	13.8	1.00	0.39	|	10	61		0.188		0.39	0.073
	14.8	1.00	0.41	|	15	48		0.333		0.41	0.137
	15.8	0.85	0.44	|	25	43		0.596		0.374	0.133
	16.5	0.70	0.39	|	40	51		0.794		0.273	0.217
	17.2	0.70	0.44	|	20	41		0.505		0.308	0.156
	17.9	0.70	0.45	↓	40	50		0.810		0.315	0.255
	18.6	0.70	0.40		50	41		1.22		0.280	0.342
	19.3	0.70	0.40		40	54		0.752		0.280	0.211
0	20.0	0.85	0.39		30	40		0.761		0.332	0.253
	21.0	1.00	0.38		7	45		0.180		0.38	0.068
	22.0	1.25	0.39		0	60		0		0.489	0
	23.5	1.50	0.28		0	60		0		0.42	0
	25.0	1.50	0.21		0	60		0		0.315	0
	26.5	1.10	0.30		0	60		0		0.33	0
	27.7	0.35	REW @		1210					SQ=	1.85
									ΣA=	6.31	
	Σw=	19.4	06=	0.57	@	1210					