

DISCHARGE MEASUREMENT NOTES

Sta. No. F5 Aiken

Meas. No. _____

Comp. by NRM

Checked by Debeck

Date 1/22/08, 18 Party NRM/AMS

Width 11.8 ft Area 3.02 ft² Vel. .176 ft/s G. H. _____ Disch. 531 cfs

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

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

Type of meter PV3MY 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>1310</u>
<u>1246</u>		<u>1.45</u>		<u>.38</u>	<u>SC 135.5</u>		Samples Collected <u>pH 7.5</u>
					No	Yes <input checked="" type="checkbox"/>	Time _____
<u>1333</u>		<u>1.47</u>		<u>.37</u>			Method Used _____
					EDI _____	EWI _____	Other <u>dip</u>
					<u>SEDIMENT SAMPLES</u>		
					No	Yes _____	Time _____
							Method Used _____
					EDI _____	EWI _____	Other _____
					<u>BIOLOGICAL SAMPLES</u>		
					Yes _____		Time _____
					No _____		Type _____

Weighted M.G.H. _____

G.H. correction _____

Correct M.G.H. _____

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 the following cond:

Flow very slow in wide channel

Cross section wide with sediment and algae

Control _____

Gage operating yes Weather cloudy, cold, windy

Intake/Orifice cleaned _____ Air _____ °C@ _____ Water 5.7 °C@ 1310

Record removed _____ Extreme Indicator: Max. _____ Min. _____

Nitrogen Pressure Tank 1050 psi Feed 10 psi Bbl rate 20 per min.

CSG checked _____ Stick reading _____

Observer _____

HWM _____ outside, in well _____

Remarks 1245 #6 1.45 BN 13.7

WT 5.84

SC 142.3

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

River at-

ANGLE COEF- FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVA- TION DEPTH	REVO- LUTIONS	TIME IN SEC- ONDS	VELOCITY		ADJUST- ED FOR HOR. ANGLE OR -----	AREA	DISCHARGE .80
							AT POINT	MEAN IN VER- TICAL			
	5.4	.3		.6	LEN @ 1.5	1305					
	6.0	.55	.22		3	70		.072		.121	.009 .85
	6.5	.5	.22		7	50		.166		.11	.018
	7.0		.22	√	15	52		.309		.11	.034
	7.5		.28		10	50		.223		.14	.031 .90
	8.0		.28		15	48		.331		.14	.046 .92
	9.5		.30		25	43		.59		.15	.088 .94
	9.0		.38		25	42		.603		.19	.115
	9.5		.34		15	52		.308		.17	.052 .96
	10.0		.35		3	70		.072		.175	.013 .97
	10.5		.37		3	70		.072		.185	.013 .98
	11.0		.35		3	70		.072		.175	.013 .99
	11.5		.32		3	70		.072		.16	.012
	12.0		.28		3	70		.072		.14	.01
⊙	12.5		.22		3	70		.072		.11	.008 1.00
	13.0		.22		3	70		.072		.11	.008
	13.5		.22		3	70		.072		.11	.008
	14.0		.26		3	70		.072		.13	.009 .99
	14.5		.24		3	70		.072		.12	.009 .98
	15.0		.22		3	70		.072		.11	.008 .97
	15.5		.22		3	70		.072		.11	.008 .96
	16.0		.19		3	70		.072		.095	.007
	16.5	√	.21		3	70		.072		.105	.008 .94
	17.0	.35	.15		3	70		.072		.052	.004 .92
	17.2	.1						.176		3.018	.531 .90
	11.8	11.8									