

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

Meas. No. 70

Comp. by \_\_\_\_\_

Checked by SVL

Sta. No. F5

Sta. Name Aiken Creek

Date 114, 2010 Party LFS, LCS, SRW, IAS, KT, JFW

Width \_\_\_\_\_ Area \_\_\_\_\_ Vel. \_\_\_\_\_ G. H. \_\_\_\_\_ Disch. 1.078

Method \_\_\_\_\_ No. secs. \_\_\_\_\_ G. H. change \_\_\_\_\_ in \_\_\_\_\_ hrs.

Method coef. \_\_\_\_\_ Horiz. angle coef. \_\_\_\_\_ Susp. \_\_\_\_\_ Tags checked \_\_\_\_\_

Meter Type \_\_\_\_\_ Meter No. \_\_\_\_\_ Meter \_\_\_\_\_ ft. above bottom of wt.

Rating used \_\_\_\_\_ Spin test before meas. \_\_\_\_\_ ; after PH = 7.511

Meas. plots \_\_\_\_\_ % diff. from rating no. \_\_\_\_\_ Indicated shift \_\_\_\_\_

GAGE READINGS					
Time				Inside	Outside
<u>16:25</u>				<u>1.4022</u>	<u>0.41</u>
	Start				<u>0.4</u>
<u>18:11</u>				<u>1.4312</u>	<u>0.4</u>
	Finish				
Weighted MGH					
GH correction					
Correct MGH					

Samples collected: water quality, sediment, biological, other \_\_\_\_\_

1.412.6°C 51.0 SC

Measurements documented on separate sheets: water quality, aux./base gage, other \_\_\_\_\_

Rain gage serviced/calibrated \_\_\_\_\_

1.40

Weather: \_\_\_\_\_

Air Temp: \_\_\_\_\_ °C at \_\_\_\_\_

Water Temp: \_\_\_\_\_ °C at \_\_\_\_\_

Check bar/chain found \_\_\_\_\_

Changed to \_\_\_\_\_ at \_\_\_\_\_

Correct \_\_\_\_\_

Wading, cable, ice, boat, upstr., downstr., side bridge, 120 (ft.) mi. upstr. downstr. of gage.

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

conditions: Flow: low, shallow

Cross section: clear, some ice at edges

Gage operating: \_\_\_\_\_ Record Removed \_\_\_\_\_

Battery voltage: \_\_\_\_\_ Intake/Orifice cleaned/purged: \_\_\_\_\_

Bubble-gage pressure, psi: Tank 900, Line 11; Bubble-rate 30 /min.

Extreme-GH indicators: max \_\_\_\_\_, min \_\_\_\_\_

CSG checked: \_\_\_\_\_ HWM height on stick \_\_\_\_\_ Ref. elev. \_\_\_\_\_ HWM elev. \_\_\_\_\_

HWM inside/outside: \_\_\_\_\_

Control: \_\_\_\_\_

Remarks: SL

GH of zero flow = GH \_\_\_\_\_ - depth at control \_\_\_\_\_ = \_\_\_\_\_ ft., rated \_\_\_\_\_



River at -											
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
							AT	MEAN			
							POINT	INVER- TICAL			
17:33	LEW	32'6"	0		—	—	—	—	—	—	—
		28'10"	0.13		7	44	.184			.477	0.088 .85
		27'9"	0.12		14	43	.344			.130	0.045
		26'9"	0.13		16	40	.415			.130	.054
		25'9"	0.15		26	41	.640			.150	.096 .90
		24'9"	0.14		23	43	.545			.140	.076 .92
		23'10"	0.13		24	41	.593			.138	.082
		22'10"	0.16		20	47	.440			.16	.070 .94
		21'10"	0.17		20	44	.468			.17	.080 .96
		20'10"	0.15		25	40	.631			.15	.095 .97
		19'10"	0.15		24	42	.580			.15	.087 .98
		18'9"	0.16		18	43	.433			.173	.075 .99
		17'10"	0.14		23	41	.570			.128	.073
		16'9"	0.10		20	43	.478			.108	.052
○		15'11"	0.10		10	41	.265			.083	.022 1.00
		14'8"	0.10		8	46	.198			.125	.025
		13'8"	0.10		10	46	.240			.1	.024
		12'6"	0.10		8	43	.210			.167	.035 .99
		11'5"	0.10		0	0	0			.058	.00 .98
18:04	REW	9'13"									

06 ← → new checked by  
SVC  
disch = 1.078  
check Q-measmts.