

U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTES

Meas. No. _____

Comp. by JD

Checked by ANW

Sta. No. _____

Sta. Name Aiken @ FS (local site)

Date 02 Jan, 2013 Party ANW + JD

Width 18.0' Area 4.554 Vel. 1.55 G. H. _____ Disch. 7.04

Method FlowTrak 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 _____

Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS					
Time				Inside	Outside
<u>1653</u>				<u>1.87</u>	<u>0.87</u>
<u>1710</u>	<u>Start</u>			<u>1.82</u>	<u>0.89</u>
<u>1751</u>	<u>Finish</u>			<u>1.94</u>	<u>0.92</u>
Weighted MGH					
GH correction					
Correct MGH					

Samples collected: water quality, sediment, biological, other _____

SEE SITE VISIT

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

Rain gage serviced/calibrated _____

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, _____ ft., mi. upstr., downstr. of gage

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

Cross section: upstream of control, shallow, small cobble/sand

Gage operating: _____ Record Removed _____

Battery voltage: _____ Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank _____, Line _____; Bubble-rate _____ /min

Extreme-GH indicators: max _____, min _____

CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____

HWM inside/outside: _____

Control: _____

Remarks: Start inside flow meas was likely misread by me. use prior inside out.

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

SITE VISIT NOTES

Aiken @ FS (old)

02 January 2013

- arrive @ 1451 w/ JD
- sunny, clear, breeze from EAST
- FLOWING

— some Q through overflow spillway.

#6 @ 1653

OG @ 1655

st 1.877

0.87 staff plate read

WT 11.07

10.9°C

SC 84.012

81.7 $\mu\text{S}/\text{cm}$

AT 10.076

—

BV 13.610

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• WQ sample @ 1700

$SC_m = 81.8 \mu\text{S}/\text{cm}$

$T_m = 10.9^\circ\text{C}$

• FlowTracker Q meas by JD

SEE Q NOTE! $Q = 7.04 \text{ cfs}$

by ANW

by ANW