

**U.S. DEPARTMENT OF THE INTERIOR  
U.S. Geological Survey  
WATER RESOURCES DIVISION  
DISCHARGE MEASUREMENT NOTES**

Meas. No. 37

Sta. No. Aiken

Comp. by H

Checked by H

Date 12/7/04, 19 Party PW

Width 17.0 Area 5.21 Vel. 0.36 G. H. Disch 1.85

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

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

Type of meter Date rated Tag checked

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

Meas. plots % diff. from rating. Levels obtained

GAGE READINGS <i>outside</i>					WATER QUALITY MEASUREMENTS		
Time		Inside	WT cond	Outside	No	Yes <input checked="" type="checkbox"/>	Time <u>1420</u>
<u>1420</u>	<u>st.</u>	<u>1.4733</u>	<u>10.5</u>	<u>93.7</u>	<u>0.45</u>	<u>±0.01</u>	<u>Samples Collected</u>
	<u>WT</u>	<u>10.38</u>					<u>Time 1505</u>
	<u>cond</u>	<u>104.31</u>	<u>1052</u>				<u>Method Used</u>
	<u>BV</u>	<u>13.16</u>					<u>EDI</u> <u>EWI</u> <u>Other</u>
<u>1502</u>	<u>st.</u>	<u>1.5082</u>		<u>0.46 ± 0.02</u>	<u>No</u>	<u>Yes</u>	<u>Time</u>
							<u>Method Used</u>
					<u>EDI</u>	<u>EWI</u>	<u>Other</u>
Weighted M.G.H.					<b>BIOLOGICAL SAMPLES</b>		
G.H. correction					<u>Yes</u>		<u>Time</u>
Correct M.G.H.					<u>No</u>		<u>Type</u>

Check bar. chain found \_\_\_\_\_ changed to \_\_\_\_\_ at \_\_\_\_\_

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

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

Flow Fairly Laminar; primarily left of center, turbid.

Cross section SANDY

Control Clear, water over over-flow

Gage operating \_\_\_\_\_ Weather \_\_\_\_\_

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

Record removed \_\_\_\_\_ Extreme Indicator: Max. \_\_\_\_\_ Min. \_\_\_\_\_

Nitrogen Pressure Tank 1800psi Feed \_\_\_\_\_ Bbl rate \_\_\_\_\_ per min.

CSG checked \_\_\_\_\_ Stick reading \_\_\_\_\_

Observer \_\_\_\_\_

HWM \_\_\_\_\_ outside, in well \_\_\_\_\_

Remarks \_\_\_\_\_

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
							AT POINT	MEAN IN VER- TICAL			
	5.0	.5	0		REW		@	1430			
	6.0	1.25	0.16	.5	3	45		0.095		.200	.019
	7.5	1.5	0.18	.5	0	40		0		.270	0
	9	1.5	0.22	.5	5	50		0.127		.330	.042
	10.5	1.5	0.32	.6	3	41		0.101		.480	.048
	12.0	1.0	0.31	.6	15	40		0.391		.310	.121
	12.5	0.5	0.32	.6	25	45		0.565		.160	.090
	13.0	0.5	0.40	.6	25	40		0.631		.200	.126
	13.5	0.5	0.42	.6	20	43		0.478		.210	.100
	14.0	0.5	0.47	.6	15	40		0.391		.235	.092
	14.5	0.5	0.48	.6	20	43		0.478		.240	.115
	15.0	0.5	0.50	.6	20	49		0.423		.250	.106
	15.5	0.5	0.50	.6	25	40		0.631		.250	.158
	16.0	0.5	0.48	.6	25	46		0.553		.240	.133
0	16.5	0.5	0.45	.6	25	40		0.631		.225	.142
	17.0	0.5	0.43	.6	25	43		0.590		.215	.127
	17.5	0.5	0.47	.6	25	45		0.565		.235	.133
	18.0	0.5	0.50	.6	15	40		0.391		.250	.098
	18.5	0.5	0.40	.6	15	48		0.331		.200	.066
	19.0	0.5	0.36	.6	15	52		0.308		.180	.055
	19.5	.75	0.32	.6	10	43		0.255		.240	.061
	20.5	1.25	0.23	.5	7	45		0.181		.288	.052
	22.0	1.75	0		LEW		@	1500			
								✓		5.21	1.88
	17.0	17.0									