

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No. 46
Comp. by PW

WATER RESOURCES DIVISION

Sta. No. Von Geurard **DISCHARGE MEASUREMENT NOTES** Checked by PW
AE 3.187 2.173 2nd check AE
 Date Dec 7, 19 2004 Party P.R. Wright
 Width 16.4 Area 2.59 Vel. 2.34 G.H. Disch. 8.425
 Method No. secs. G.H. change in hrs. Susp. Red
 Method coef. () Hor. angle coef. () Susp. coef. () Meter No. P90248
 Type of meter Pymy Date rated 6/99 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	TD	Inside	ADR	Graphic	Outside
<u>AE</u> <u>1003</u>	<u>1.06</u>	<u>1.48</u>	<u>11.79</u>	<u>6.54</u>	<u>1.482</u>
<u>2203</u>					
<u>AE</u> <u>1054</u>	<u>1.09</u>	<u>1.40</u>			<u>1.452</u>
<u>2254</u>					
Weighted M.G.H.					
G. H. correction					
Correct M.G.H.					

No	Yes <input checked="" type="checkbox"/>	Time <u>2200</u>
<u>Samples Collected</u>		
No	Yes <input checked="" type="checkbox"/>	Time <u>2200</u>
<u>Method Used</u>		
EDI	EWI	Other <u>Grab</u>
<u>SEDIMENT SAMPLES</u>		
No <input checked="" type="checkbox"/>	Yes	Time
<u>Method Used</u>		
EDI	EWI	Other
<u>BIOLOGICAL SAMPLES</u>		
Yes		Time
No <input checked="" type="checkbox"/>		Type

Check bar. chain found changed to at
Wading cable, ice, boat, upstr., downstr., side bridge. 10 feet, mile, above, below gage.
 Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:
 Flow turbulent
 Cross section narrow & sandy
 Control
 Gage operating yes Weather
 Intake/Orifice cleaned Air °C@ Water 5.1 °C@
 Record removed N Extreme Indicator: Max. Min.
 Manometer N₂ Pressure Tank 1870 Feed 7 set to 10 Bbl rate per min.
 CSG checked Stick reading
 Observer
 HWM outside, in well
 Remarks Batt = 13.9 Volts, Sp. Cond = 990/1005, Date + Time look good
ca-10 stage bouncing around
 G.H. of zero flow ft. Sheet No. of sheets

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY		Adjusted for hor. angle or	Area	Discharge
							At point	Mean in vertical			
1022	4	.5	0	0	REW						
	5	.9	.14	5	50	44	1.12			.126	.141
	5.8	.7	.25	5	40	41	.968			.175	.169
	6.4	.6	.26	5	100	44	2.21			.156	.345
	7.0	.6	.30	.6	100	46	2.12			.148	.382
	7.6	.6	.32	.6	80	42	1.86			.192	.357
	8.2	.6	.40	.6	80	42	1.86			.240	.446
	8.8	.6	.48	.6	100	42	2.32			.288	.668
	9.4	.5	.40	.6	150	43	3.38			.200	.676
	9.8	.4	.42	.6	150	48	2.03			.168	.509
	10.2	.4	.42	.6	150	47	3.10			.168	.521
	10.6	.5	.34	.6	150	46	3.16			.170	.537
	11.2	.6	.32	.6	150	49	2.97			.192	.570
	11.8	.6	.26	5	150	58	2.51			.156	.392
0	12.4	.6	.24	5	150	56	2.60			.144	.374
	13.0	.6	.26	5	150	55	2.65			.156	.413
	13.6	.6	.26	5	100	41	2.37			.156	.370
	14.2	.6	.24	5	100	41	2.37			.144	.341
	14.8	.7	.20	5	80	42	1.86			.140	.260
	15.6	.8	.18	5	50	42	1.17			.144	.168
	16.4	.9	.18	5	40	44	.904			.162	.146
	17.4	1.0	.16	5	60	49	1.21			.160	.194
	18.4	1.0	.16	5	80	46	1.70			.160	.272
	19.4	1.0	.10	5	80	45	1.74			.100	.174
	20.4	.5	0	5							
										Total	8.425
	16.4									3.39	

.0 .10 .20 .30 .40 .50 .60 .70 .75