

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No. 56
Comp. by CY

WATER RESOURCES DIVISION

Sta. No. 1 DISCHARGE MEASUREMENT NOTES Checked by Qchecks (PRW)

Lost Seal
Date Dec 7, 2004 Party P.R. Wright, C. Yang
Width 24.7 Area 5.44 Vel. 1.26 G.H. 6.86 Disch. 6.86
Method No. secs. G.H. change in hrs. Susp. Roal
Method coef. 1 Hor. angle coef. 1 Susp. coef. 1 Meter No.
Type of meter Pygmy Date rated 6/99 Tag checked
Meter ft. above bottom of wt. Spin before meas. after
Meas. plots. % diff. from. rating. Levels obtained. No

GAGE READINGS <u>SC</u>						WATER QUALITY MEASUREMENTS	
Time	<u>FT</u>	Inside	<u>ADR</u>	<u>Graphic</u>	Outside	No	Yes. <input checked="" type="checkbox"/>
<u>1216</u>	<u>9.9</u>	<u>1.90</u>	<u>7.2</u>	<u>59.6</u>	<u>1.94 ± .02</u>	<u>1.94</u>	Samples Collected
<u>1337</u>	<u>8.8</u>	<u>2.09</u>	<u>6.12</u>	<u>59.6</u>	<u>1.1 ± .04</u>	<u>2.1</u>	Method Used
							EDI <u> </u> EWI <u> </u> Other <u>Grab 100' US</u>
							SEDIMENT SAMPLES
							No <input checked="" type="checkbox"/> Yes. <u> </u> Time <u> </u>
							Method Used
							EDI <u> </u> EWI <u> </u> Other <u> </u>
Weighted M.G.H.							BIOLOGICAL SAMPLES
G. H. correction							Yes. <u> </u> Time <u> </u>
Correct M.G.H.							No <input checked="" type="checkbox"/> Type <u> </u>

Check bar. chain found changed to at
Wading, cable, ice, boat, upstr., downstr., side bridge. 70 feet, mile, above, below gage.
 Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:
 Flow Two channels
 Cross section Sand bottom, variable
 Control Is leaking some
 Gage operating yes Weather P. Cloudy, Sunny, Windy 20-30
 Intake/Orifice cleaned No Air 3 °C @ 1345 Water 6.7 °C @ 1345
 Record removed Extreme Indicator: Max. Min.
 Manometer N₂ Pressure Tank 625 Feed 12 Bbl rate OK per min.
 CSG checked NA Stick reading NA
 Observer
 HWM outside, in well
 Remarks Batt @ 12.7 Canal 60.5, 6.7C @ 1345

River at—

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions	Time in sec- onds	VELOCITY		Adjusted for hor. angle or -----	Area	Discharge
							At point	Mean in ver- tical			
	15.5	1	0		REW	6	1286				
	17.5	1.15	0.03	5	25	45	.565		0.150	.085	.85
	17.8	.3	0.11	5	30	49	.619		.033	.020	
	18.1	.6	0.12	5	20	46	.449		.072	.032	.90
	19.0	.7	0.11	5	40	40	.992		.077	.076	
	19.5	.4	0.12	5	55	40	1.35		.048	.065	.92
	19.8	.3	0.12	5	60	44	1.34		.036	.048	.94
	20.1	.3	0.13	5	60	45	1.31		.034	.051	
	20.4	.45	0.12	5	70	45	1.53			.083	.96
	21.0	.45	0.13	5	60	40	1.47		.058	.086	.97
	21.3	.3	0.13	5	80	45	1.74			.068	.98
	21.6	.3	0.15	5	70	42	1.63			.073	.99
	21.9	.3	0.13	5	80	43	1.82		.039	.071	
	22.2	.3	0.15	5	100	49	1.99		.045	.090	
o	22.5	.3	0.18	5	80	40	1.95		.054	.105	1.00
	22.8	.3	0.18	5	80	48	1.63		.054	.088	
	23.1	.3	0.30	.6	80	42	1.86		.09	.167	
	23.4	.3	0.30	.6	80	45	1.74		.09	.157	.99
	23.7	.3	0.31	.6	100	47	2.07		.093	.193	.98
	24.0	.3	0.32	.6	80	44	1.78		.096	.171	.97
	24.3	.35	0.32	.6	100	49	1.99		.112	.223	.96
	24.7	.35	0.35	.6	100	42	2.32		.1225	.283	
	25.0	.3	0.37	.6	150	61	2.39		.111	.265	.94
	25.3	.35	0.39	.6	100	45	2.17		.136	.295	.92
	25.7	.35	0.40	.6	80	46	1.70		.14	.238	.90
	26.0	.55	0.47	.6	60	48	1.23		.258	.317	
	26.8	.8	0.53	.6	70	47	1.46		.424	.619	
	27.6	0.6	0.28		40	54	.743		.168	.125	.85
	28.0	^{1.45} _{9.8}	0.05		10	44	e .249		.072	.018	
	30.5	1.75	0.23		60	57	1.04		.402	.418	
	31.5	1.0	0.28		70	43	1.59		.28	.445	.80
	32.5	1.0	0.32		50	48	1.03		.32	.33	

