

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

Meas. No. \_\_\_\_\_

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

Checked by \_\_\_\_\_

Sta. No. \_\_\_\_\_

Sta. Name F7-Harnish

Date Jan 16, 2003 Party PAS

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

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 \_\_\_\_\_

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

GAGE READINGS					
Time				Inside	Outside
Start					
Finish					
Weighted MGH					
GH correction					
Correct MGH					

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

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

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

Weather: Sunny, slight breeze

Air Temp. 25 °C at 21:10

Water Temp. 6.1 °C at 21:10

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

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

Correct \_\_\_\_\_

*from small pool  
downstream of  
control  
@ 20:55*

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: \_\_\_\_\_

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

Battery voltage: 13.7 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: sediment building behind control - at least one foot  
of sediment has covered orifice - needs shoveling

Remarks: \_\_\_\_\_

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

Sheet No. \_\_\_\_\_ of \_\_\_\_\_ sheets

Ap Card Time IG OG  
20:55 N/A 305 μS

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DISCHARGE MEASUREMENT NOTES**


Sta. No. Harnish Meas. No. \_\_\_\_\_  
 Date Jan 16, 19 2003 Party PAS Comp. by \_\_\_\_\_  
 Width \_\_\_\_\_ Area \_\_\_\_\_ Vel. \_\_\_\_\_ G. H. \_\_\_\_\_ Disch No Flow  
 Method \_\_\_\_\_ No. secs. \_\_\_\_\_ G. H. change \_\_\_\_\_ in \_\_\_\_\_ hrs. Susp. \_\_\_\_\_  
 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				WATER QUALITY MEASUREMENTS		
Time	Inside		Outside	No	Yes <input checked="" type="checkbox"/>	Time <u>2055</u>
<u>No Flow</u>					<u>Samples Collected</u>	
				No	Yes <input checked="" type="checkbox"/>	Time <u>2055</u>
					<u>Method Used</u>	
				EDI _____	EWI _____	Other _____
				SEDIMENT SAMPLES		
				No	Yes _____	Time _____
					<u>Method Used</u>	
				EDI _____	EWI _____	Other _____
				BIOLOGICAL SAMPLES		
				Yes _____		Time _____
				No _____		Type _____

Weighted M.G.H. \_\_\_\_\_  
 G.H. correction \_\_\_\_\_  
 Correct M.G.H. \_\_\_\_\_

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 Bath. V. = 13.7  
 Cross section \_\_\_\_\_  
 Control sediment building behind control  
 Gage operating \_\_\_\_\_ Weather Sunny, slight breeze  
 Intake/Orifice cleaned \_\_\_\_\_ Air 5 °C @ 2110 Water 6.1 °C @ 2110  
 Record removed \_\_\_\_\_ Extreme Indicator: Max. \_\_\_\_\_ Min. \_\_\_\_\_  
 Nitrogen Pressure Tank 1700 Feed 10 Bbl rate 52 per min.  
 CSG checked \_\_\_\_\_ Stick reading \_\_\_\_\_  
 Observer SpC = 305 (flash), Cond = 181 (not flash)  
 HWM \_\_\_\_\_ outside, in well \_\_\_\_\_  
 Remarks Samples taken from small pool D.S. of control. At least foot of sediment has covered orifice - needs shoveling  
 G.H. of zero flow \_\_\_\_\_ ft. Sheet No. \_\_\_\_\_ of \_\_\_\_\_ sheets

0	.10	.20	.30	.40	.50	.60	.70	.75
.80								
.85								
.90								
.92								
.94								
.96								
.97								
.98								
.99								
1.00								
.99								
.98								
.97								
.96								
.94								
.92								
.90								
.85								
.80								

 Disregard Stage data from CR10. Numbers are bogus, have no value for developing rating.

0	.10	.20	.30	.40	.50	.60	.70	.75
ANGLE COEFFICIENT								
DIST. FROM INITIAL POINT								
WIDTH								
DEPTH								
OBSERVATION DEPTH								
REVOLUTIONS								
TIME IN SECONDS								
AT POINT								
MEAN INVERTICAL								
ADJUSTED FOR HOR. ANGLE OR AREA								
DISCHARGE								

River at -