

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

Meas. No. 50  
Comp. by \_\_\_\_\_  
Checked by \_\_\_\_\_

No meas,  
entered  
for GHeight  
retrieval  
in Hydra

Sta. No. \_\_\_\_\_  
Sta. Name #1 - Andersen  
Date Jan 5, 2003 Party JDG, KOC arrive @ 13:35  
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		rec wvs	OG	Inside	Outside
15:35		1.28	corrim	1.21	1.29
15:47	Start	1.29	1.195	1.30	0.195 ± 0.02
15:52				1.29	
15:59	Finish	1.28	1.20	1.31	0.20 ± 0.01
Weighted MGH					
GH correction			0		
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: 97% cc - cumulus wind < 5mph  
Air Temp. 11 °C at 16  
Water Temp. 1 °C at 16:30 OG  
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: \_\_\_\_\_

Gage operating: \_\_\_\_\_ Record Removed \_\_\_\_\_  
Battery voltage: 13.54 Intake/Orifice cleaned/purged: \_\_\_\_\_  
Bubble-gage pressure, psi: Tank 1400, Line 14; Bubble-rate 64 /min.  
Extreme-GH indicators: max \_\_\_\_\_, min \_\_\_\_\_  
CSG checked: \_\_\_\_\_ HWM height on stick \_\_\_\_\_ Ref. elev. \_\_\_\_\_ HWM elev. \_\_\_\_\_  
HWM inside/outside: \_\_\_\_\_  
Control: \_\_\_\_\_

Remarks: conoflow purged → orifice line unfrozen!

GH of zero flow = GH \_\_\_\_\_ - depth at control \_\_\_\_\_ = \_\_\_\_\_ ft., rated \_\_\_\_\_  
Sheet No. \_\_\_\_\_ of \_\_\_\_\_ sheets

done after sediment  
cleared from  
control

STG RDGS  
OK NOW

BAD SP COND  
RDGS

Sp. cond probe buried + partially frozen  
John tried to unbury probe but unsuccessful

	Time	16	OG
Wtr Temp	16:30	1.41 °C	1.0 °C
Sp Cond	16:30	16.91 μS	27.4 μS



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			
											.90
											.92
											.94
											.96
											.97
											.98
											.99
											1.00
											.99
											.98
											.97
											.96
											.94
											.92
											.90

