

9-275-F  
(Apr. 93)

U.S. Department of the Interior  
U.S. Geological Survey  
Water Resources Division  
**DISCHARGE MEASUREMENT NOTES**

Meas. No. 72  
Comp. by \_\_\_\_\_  
Checked by \_\_\_\_\_

Sta. No. F6  
Sta. Name Van Gennepol Stream  
Date Dec 14, 2009 Party SUD / MSB / BAM  
Width \_\_\_\_\_ Area \_\_\_\_\_ Vel. \_\_\_\_\_ G.H. \_\_\_\_\_ Disch. 0.03  
Method \_\_\_\_\_ No. Sec. \_\_\_\_\_ G.H. Change \_\_\_\_\_ in \_\_\_\_\_ hrs. Susp. \_\_\_\_\_  
Method coef. \_\_\_\_\_ Hor. angle coef. \_\_\_\_\_ Susp. coef. \_\_\_\_\_ Meter No. \_\_\_\_\_  
Type of meter Flume 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	Back	Tape Down	Outside	No..... Yes.....	Time
1800	1.20	0.07	2.13	0.83		1800
WORKED ON CONTROL						
1815	1.224	0.07	2.06	.90		
1830	1.32	0.08	1.96	1.00		
1845						
1846	Finished work					
1900	1.315	0.08	1.97	.99		
1916	0.988	0.08	1.97	.99		
Weighted MGH		= 0.0145 cfs				
GH correction						
Correct MGH						

in situ  
SC: 88.3 μS  
WT: 15.8 °C  
in lab  
SC: 114 μS  
PH: 8.520  
WT: 15.8 °C

SEDIMENT SAMPLES  
No..... Yes..... Time.....  
Method Used  
EDI..... EWI..... Other.....

BIOLOGICAL SAMPLES  
Yes..... Time.....  
No..... Type.....

Check bar, chain found \_\_\_\_\_ changed to \_\_\_\_\_ at \_\_\_\_\_  
Wading, cable, ice, boat, upstr., downstr., side bridge 20 feet, mile, above, below, gage.  
Measurement rated excellent(2%), good(5%), fair(8%), poor(over 8%); based on following cond:

Flow \_\_\_\_\_  
Cross section \_\_\_\_\_  
Control free + clear - Minor Reconstruction -> see back  
Gage operating Yes Weather cold/sunny/windy  
Intake/Orifice cleaned No Air \_\_\_\_\_ °C@ \_\_\_\_\_ Water 8.0 °C@ \_\_\_\_\_  
Record removed No Extreme Indicator: Max \_\_\_\_\_ Min \_\_\_\_\_  
N2 Pressure Tank 1600 Feed 14 Bbl rate 60 per min. Batt volt \_\_\_\_\_  
CSG checked \_\_\_\_\_ Stick reading \_\_\_\_\_  
Observer \_\_\_\_\_  
HWM Adjusted offset - see back outside, in well \_\_\_\_\_  
Remarks Date = 348 Time = okay  
+6 @ 1800 ① 1.203 ② 9.525 ③ 115.42 ④ 8.151 ⑤ 13.75



River at-

Angle coef- ficient	Dist. from initial point	Width	Dept h	Observa- tion Depth	Revo- lutions	Time in seconds	VELOCITY		Adjusted for hor.- angle or -----	Area	Discharge
							At Point	Mean in vertical			
											.80
											.85
											.90
											.92
											.94
											.96
											.98
											.99
											1.0
											.99
											.98
											.96
											.94
											.92
											.90
											.85
											.80

- Increased PZF elevation - will reshoot levels soon

- Discharge remained fairly consistent during control work

OFFSET

Originally = 1.01  
 Reset to 0.685 @ 1916  
 IG = 0.988      Og = 2.96 - 1.97 = 0.99