

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Meas. No. 28

WATER RESOURCES DIVISION

Comp. by.

Sta. No. DISCHARGE MEASUREMENT NOTES Checked by

Canada Stream @ F1

Date 1/22, 19 99 Party AB, MG

Width Area 0.538 Vel. 0.504 G. H. Disch. 0.291

Method No. secs. 10 G. H. change. in hrs. Susp.

Method coef. Hor. angle coef. Susp. coef. Meter No.

Type of meter p49my 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	ADR	Graphic	Outside	No	Yes	Time
<u>0930</u>	<u>1.37</u>					☒	<u>0930</u>
<u>0934</u>				<u>0.30</u>	No	Yes	<u>0930</u>
<u>0945</u>	<u>1.37</u>				Method Used		
<u>0951</u>				<u>0.29</u>	EDI	EWI	Other
					SEDIMENT SAMPLES		
					No	Yes	Time
					Method Used		
					EDI	EWI	Other

Weighted M.G.H.					BIOLOGICAL SAMPLES		
G. H. correction					Yes		Time
Correct M.G.H.					No	☒	Type

Check bar. chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge. at fly feet mile above, below gage

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%); based on the following cond:

Flow.

Cross section

Control

Gage operating Weather

Intake/Orifice cleaned Air 6.0 °C@ 0930 Water 5.75 °C@ 0930

Record removed Extreme Indicator: Max. Min.

Manometer N₂ Pressure Tank 160 ps Feed 10 psi Bbl rate per min.

CSG checked Stick reading

Observer

HWM outside, in well

Remarks

Angle coef- ficient	Dist. from initial point	Width	Depth	Observa- tion depth	Rev- olu- tions REW	Time in sec- onds	VELOCITY		Adjusted for hor. angle or V. Edge	Area	Discharge
							At point	Mean in ver- tical			
0.7	4.2	0.1	0.28	.6	20.7	0.462	0.323		0.028	0.009	
	4.4	0.2	0.28	.6	20	45	0.462		0.056	0.0259	
	4.6	0.2	0.28	.6	20	45	0.462		0.056	0.0259	
	4.8	0.2	0.28	.6	25	55	0.472		0.056	0.0264	
	5.0	0.2	0.29	.6	25	44	0.583		0.058	0.0338	
	5.2	0.2	0.29	.6	25	50	0.516		0.058	0.0299	
	5.4	0.2	0.30	.6	20	41	0.505		0.06	0.0303	
	5.6	0.2	0.30	.6	25	42	0.610		0.06	0.0366	
	5.8	0.225	0.30	.6	25	46	0.559		0.068	0.038	
	6.05	0.125			0.7	0.537	0.391		0.0375	0.0147	
									Q =	0.271	
								A =	0.538		
TAKEN IN FLUME - VERTICAL BOUNDS											
0											

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey
WATER RESOURCES DIVISION

STATION NUMBER

LEVEL NOTES

STREAM Canada Stream @ F1

LOCALITY Lk. Fryxell, Antarctica

PARTY AB, MG

DATE 1/22/99, 19

STATION	B. S.	HT. INST.	F. S.	ELEVATION	REMARKS
RM3	3.438	10.838		7.40	Base RM
Rm4			3.895	6.943	6.945 G
US Right			7.391	3.447	
US left			7.402	3.436	
PZF			9.909	0.929	
orifice nut			9.941	0.897	
top of orifice cap			9.841	0.997	
top of staff					reads 3.33
Staff gauge			7.410	3.428	red reads 2.47
DS left			7.381	3.457	
PZF over flow			9.081	1.757	
TP	5.387	11.260	4.965	5.873	
US Left			7.828	3.432	
DS left			7.794	3.466	
orifice nut			10.365	0.895	
PZF			10.330	0.930	
RM4			4.312	6.948	
RM3			3.856	7.404	E/c = 0.004
flume settled by 0.035 ft. during season					
when I assume 12/20/98, then time					
reading 0.015 high though rest of season reads .04 high					

- closed guage @ 0920
- van levels
- CR10 time OK
- swapped SM

(PF)

$$IG = 1.37 \quad (0915)$$

$$WT = 5.6 \quad \text{ac}$$

$$SC = 23.7 \mu s$$

$$\text{batts} = 13.62 \text{ volts} \quad \swarrow$$

- stream run taken @ 0930

$$IG = 1.37 \quad (0930), \quad 0.30 = OG @ 0934$$

flume has algae growing in it.

$$N_2 \text{ tank} = 1600 \text{ psi}$$

$$\text{feed} = 10 \text{ psi}$$

$$x \text{ducer} = \text{ps-2}$$

2 large batts.

$$\underline{\underline{OS = 0.94 \text{ ft}}}$$