9-275-F
(Apr. 93)

U.S. Department of the Interior
U.S. Geological Survey

Meas. No. 26

Comp. by

Water Resources Division

Sta. No. **DISCHARGE MEASUREMENT NOTES** Checked by

Green Cr. @ F9 2k Fryxell

Date 12/11/98 Party

Width 1.50 Area 0.286 Vel. 0.34 G.H. Disch. 0.0973

Method .6 No. Sec. G.H. Change in hrs. Susp. rod

Method coef. 1.0 Hor. angle coef. 1.0 Susp. coef. 1.0 Meter No.

Type of meter pygmy Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after

Meas. Plots % diff from rating. Levels obtained yes

GAGE READINGS						WATER QUALITY MEASUREMENTS
Time	Inside				Outside	No..... Yes....X..... Time 1400
						Samples Collected
1631	3.808				0.79	No..... Yes....X..... Time 1400
				TD		Method Used
						EDI..... EWI..... Other.....
						SEDIMENT SAMPLES
						No....X..... Yes..... Time.....
						Method Used
						EDI..... EWI..... Other.....
Weighted MGH						BIOLOGICAL SAMPLES
GH correction						Yes..... Time.....
Correct MGH						No....X..... Type.....

Check bar, chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge 100 feet, mile, above, below, gage.

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

Flow Fairly uniform

Cross section gravel, cobble

Control clear

Gage operating OK Weather breezy, ptly cloudy, light snow

Intake/Orifice cleaned No Air °C@ Water 6.0 °C@

Record removed No Extreme Indicator: Max Min

N_2 Pressure Tank 1600 Feed 10 Bbl rate per min. Batt volt

CSG checked Stick reading

Observer

HWM outside,in well

Remarks

G.H. of zero flow ft. Sheet No. of sheets

River at---

Angle coef-ficient	Dist. from initial point	Width	Depth	Observa-tion depth	Rev-olu-tions	Time in seconds	VELOCITY At point	VELOCITY Mean in ver-tical	Adjusted for hor.-angle or ——	Area	Discharge
√B	1.20	.10	.22		REW @ 1617		.7x	.15 =	.105	0.022	0.00231
	1.40	.20	.22	.6	5	40		.150		.044	.007
	1.60	.20	.23	.6	10	41		.266		.046	.012
	1.80	.20	.25		15	48		.333		.050	.017
	2.00	.20	.18		20	40		.516		.036	.019
	2.20	.20	.25		30	52		.592		.050	.030
	2.40	.25	.15		10	44		.250		.038	.010
	2.70	.15	0		LEW @		1624			0	0
										0.286	
									Q =	0.0973	
o											

26

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey

Form 9-275-D
(Jan. 1988)

WATER RESOURCES DIVISION

Date 12/11, 1998 1553

MISCELLANEOUS FIELD NOTES

Green Cr. @ F9 AB, MG, WJS

- N_2 tank = 1600 psi, feed = 10 psi
- IG = 3.82

WT = 5.00°C → meas = 6.0°C

SC = 41.2 µ℧ → meas = 42.0 µ℧

Volts = 12.91

OG = 0.775' from Top of Rebar 4.508 − .775 = 3.733

CFIO TIME OK

Flowing Pix taken by WJS

No. ____ of ____ sheets

26

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

Form 9-276
(July 1967)

STATION NUMBER

LEVEL NOTES

STREAM Green Cr.
LOCALITY @ F9 Lake Fryxell Antarctica
PARTY MG, AB, WJS @ AB, WJS DATE 12/11, 1998

STATION	B. S.	HT. INST.	F. S.	ELEVATION	REMARKS
RM 1	3.611	13.611		10.00	given bolt 35 ft right of base
RM 2			7.332	6.279	bolt on right side of wall 6.296
RP1			9.110	4.501	rebar 4.508
orifice nut			10.023	3.588	3.683
PZF			10.036	3.575	
TP	7.488	11.820	9.279	4.332	
Orifice Nut			8.230	3.590	
top of rebar → RP1			7.313	4.508	
RM2			5.548	6.272	
RM1			1.812	10.007	E/C = 0.007

orifice is low by 0.094', but TD from rebar doesn't change

NO. ____ OF ____ SHEETS ____ COMP. BY ____ CHK. BY ____