9-275-F
(Apr. 93)

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

Water Resources Division

Meas. No. 25

Comp. by

Sta. No. Canada Str. @ Fl Lake Fryxell **DISCHARGE MEASUREMENT NOTES** Checked by

Date 12/20/98 Party AB WJS

Width Area 2.76 Vel. 0.842 G.H. Disch. 2.32 cfs

Method .6 No. Sec. 24 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 1/80 Tag checked

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

Meas. Plots % diff from rating. Levels obtained No

GAGE READINGS

Time	Inside	TW (ERIS)	SC		Outside
1745	1.97	8.01	27.05		0.96
1750	1.97				0.97
1815	1.91				0.91
Weighted MGH					
GH correction					+1.00
Correct MGH					

WATER QUALITY MEASUREMENTS

No..... Yes...X..... Time..1745

Samples Collected

No...X... Yes..... Time.....

Method Used

EDI..... EWI..... Other.....

SEDIMENT SAMPLES

No...X... Yes..... Time.....

Method Used

EDI..... EWI..... Other.....

BIOLOGICAL SAMPLES

Yes.....Time.....

No...X.....Type.....

Check bar, chain found changed to at

Wading, cable, ice, boat, upstr., downstr., side bridge 50 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, sand

Control clear, flow over wier

Gage operating OK Weather sunny, down valley winds!

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

Record removed Extreme Indicator: Max Min

N_2 Pressure Tank Feed Bbl rate per min. Batt volt

CSG checked Stick reading

Observer

HWM outside,in well

Remarks @ 1745 field Tw = 8.5, SC = 29.4 uS

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
	3.3	0.35	@		1753	REW					
	4.0	0.6	0.22		30	46		0.665		0.132	0.088
	4.5	0.5	0.20		25	41		0.624		0.10	0.0624
	5.0	0.5	0.22		30	41		0.743		0.11	0.082
	5.5	0.5	0.22		40	42		0.958		0.11	0.105
	6.0	0.5	0.30		50	44		1.14		0.15	0.171
	6.5	0.5	0.36		50	44		1.14		0.18	0.205
	7.0	0.5	0.34		40	45		0.896		0.17	0.152
	7.5	0.5	0.30		30	45		0.679		0.15	0.102
	8.0	0.5	0.34		50	45		1.11		0.17	0.189
	8.5	0.5	0.32		50	40		1.25		0.16	0.2
	9.0	0.5	0.32		40	42		0.958		0.16	0.153
0	9.5	0.5	0.32		50	47		1.07		0.16	0.171
	10.0	0.5	0.30		50	41		1.22		0.15	0.183
	10.5	0.5	0.24		30	47		0.652		0.12	0.078
	11.0	0.5	0.28		25	40		0.639		0.14	0.089
	11.5	0.5	0.16		30	41		0.743		0.08	0.059
	12.0	0.5	0.18		30	46		0.665		0.09	0.060
	12.5	0.5	0.24		30	43		0.710		0.12	0.085
	13	0.6	0.20		20	40		0.516		0.12	0.062
	13.7	0.7	0.14		10	40		0.272		0.098	0.027
	14.4	0.85	0.10		0	60		0		0.085	0
	15.4	0.5	@	18	13	LEW			A=	2.76	
	12.1	12.1								Q=	2.32