

**U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT NOTES**

Meas. No. 77

Sta. No. F1 Canada

Comp. by _____

Checked by _____

Date 12-25-07, 19____ Party NRM AMS, LES

Width 13.4 Area 3.387 Vel. 2.61 G. H. _____ Disch 8.838

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

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

Type of meter py9mm 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	Outside
<u>1502</u>	<u>2.35</u>	<u>1.40</u>
<u>1551</u>	<u>2.282</u>	<u>1.33</u>

No _____	Yes <u>X</u>	Time <u>1515</u>
<u>pH 7.7</u>	Samples Collected <u>SL-15.8</u>	
No _____	Yes <u>Y</u>	Time _____
	Method Used _____	
EDI _____	EWI _____	Other _____

SEDIMENT SAMPLES

No _____	Yes _____	Time _____
	Method Used _____	
EDI _____	EWI _____	Other _____

BIOLOGICAL SAMPLES

Yes _____	Time _____
No _____	Type _____

Weighted M.G.H. _____
G.H. correction _____
Correct M.G.H. _____

Check bar. chain found _____ changed to _____ at _____

Wading cable, ice, boat, upstr., downstr., side bridge 300 feet mile, above below gage.

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

Flow turbulent

Cross section rocky

Control clear, over weir

Gage operating ✓ Weather partly cloudy, breeze

Intake/Orifice cleaned _____ Air _____ °C@ _____ Water 8.1 °C@ 1515

Record removed _____ Extreme Indicator: Max. _____ Min. _____

Nitrogen Pressure Tank 1750 Feed 10 Bbl rate _____ per min.

CSG checked _____ Stick reading _____

Observer _____


HWM _____ outside, in well _____

Remarks *6 @ 1502 WT - 8.15 Batt - 14.1 ✓

SL - 14.06
AT - 8.2

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

River at-

ANGLE COEF-FICIENT	DIST. FROM INITIAL POINT	WIDTH	DEPTH	OBSERVATION DEPTH	REVO-LUTIONS	TIME IN SEC-ONDS	VELOCITY		ADJUST-ED FOR HOR. ANGLE OR	AREA	DISCHARGE
							AT POINT	MEAN IN VER-TICAL			
LEW	4.0	1.45	0								
1520	6.9	1.75	.2		80	49		1.60		.35	.56
	7.5	.55	.2		80	48		1.63		.11	.179
	8.0	.5	.2		100	46		2.12		.10	.212
	8.5	.5	.25		100	40		2.43		.125	.304
	9.0	.45	.3		150	53		2.75		.135	.371
	9.4	.4	.3		150	58		2.51		.12	.301
	9.8	.4	.4		150	47		3.10		.16	.496
	10.2	.4	.4		150	43		3.38		.16	.541
	10.6	.4	.5		150	46		3.16		.20	.632
	11.0	.4	.45		150	42		3.46		.18	.623
	11.4	.4	.5		150	52		2.80		.20	.560
	11.8	.4	.4		150	48		3.03		.16	.485
	12.2	.4	.4		150	44		3.31		.16	.530
	12.6	.4	.35		150	47		3.10		.14	.434
	13.0	.4	.4		150	47		3.10		.16	.496
	13.4	.4	.4		150	44		3.31		.16	.530
	13.8	.45	.3		150	54		2.70		.135	.364
	14.3	.5	.3		150	48		3.03		.15	.454
	14.8	.5	.2		100	42		2.32		.1	.232
	15.3	.5	.2		100	46		2.12		.1	.212
	15.8	.5	.2		25	40		.631		.1	.0631
	16.3	.5	.2		50	45		1.10		.1	.110
	16.8	.55	.15		80	43		1.82		.082	.149
	17.4	.3	0								
	13.4	13.4						2.61		3.387	8.838
	REW 2		1547								