17b

U. S. DEPARTMENT OF THE INTERIOR
Geological Survey

Form 9-275-D
(Jan. 1988)

WATER RESOURCES DIVISION

Date December 28, 1997

MISCELLANEOUS FIELD NOTES

Canada stream, FI 1350 CC

Conditions - free flowing, water not flowing over spillway, probes clear looks good

	inside	outside	
1355	1.75	1.70	
	8.62	7.6	wt
	24.53	.027 mv	sc → 27

Batteries okay
CR10 time okay
N_2 1900 psi feed 10 psi

Pygmy Meter Discharge Measurement; #1

	inside	outside	
1455	1.88	1.85	Note this measurement sketchy due to insufficient flow (see attached sheet)
~~1610~~	~~1.94~~	~~1.92~~	← pygmy meter difficulties!
	inside	outside	
1725	1.93	1.895	
1750	1.92	1.890	

Pygmy Meter Discharge Measurement #2

No. _____ of _____ sheets

9-275-F
(Rev. 10-81)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

WATER RESOURCES DIVISION

(17)

Meas. No. 3

Comp. by. MOL

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

Canada stream, Fl

Date Dec 28, 19 97 Party CC

Width 9.5 Area 0.95 Vel. 0.52 G. H. . . . . Disch. 0.50

Method 0.6 No. secs. 16 G. H. change. . . . . in . . . . . hrs. Susp. . . . . .

Method coef. . . . . Hor. angle coef. . . . . Susp. coef. . . . . 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. . . . . .

GAGE READINGS						WATER QUALITY MEASUREMENTS
Time		Inside	ADR	Graphic	Outside	No . . . . . Yes. . . . . Time . . . . .
1355		1.75			1.70	Samples Collected
1455		1.88			1.85	No . . . . . Yes. . . . . Time . . . . .
						Method Used
						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. 315 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 . . . . . °C@ . . . . . Water . . . . . °C@ . . . . . .

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

Manometer N_2 Pressure Tank . . . . . Feed . . . . . Bbl rate . . . . . per min.

CSG checked . . . . . Stick reading . . . . . .

Observer . . . . . .

HWM . . . . . outside, in well

Remarks * Probably should omit this measurement
Unclear on concept of pygmy meter

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

.0 .10 .20 .30 .40 .50 .60 .70 .75

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	Adjusted for hor. angle or --------	Area	Discharge
	1430										
	LWE										
	3		0		0	40					
	3.5		0.5		0						
	4.0		0.5		0						
	4.5		0.5		0						
	5.0		1		0						
	5.5		1		0						
	6.0		1		0						
	6.5		1		0						
	7.0		1.5		0						
	7.5		2		62	40					
	8.0		2		51	40					
	8.5		3		41	40					
⊙	9.0		2		24	40					
	9.5		1.5		0	40					
	10.0		0.5		0	40					
	12.5	REW						1455 end			
				x 0.1							

0 10 20 30 40 50 60 70 75

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UNITED STATES
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GEOLOGICAL SURVEY

(18)

Meas. No. 4

Comp. by. KDL

WATER RESOURCES DIVISION

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

Canada sir @ F1

Date 12-28, 19 97 Party HL CC

Width 4.6 Area 1.385 Vel. 1.57 G. H. ..... Disch. 2.17

Method 0.6 No. secs. 12 G. H. change ..... in ..... hrs. Susp. .....

Method coef. ..... Hor. angle coef. ..... Susp. coef. ..... 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 NO

GAGE READINGS						WATER QUALITY MEASUREMENTS
Time		Inside	ADR	Graphic	Outside	No ..... Yes ..... Time .....
1725		1.93			1.895	Samples Collected
1750		1.92			1.89	No ..... Yes ..... Time .....
						Method Used
						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 300 feet, mile, above, below gage.

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

Flow fairly even

Cross section sand, Gravel, even

Control Flume is clear free flowing

Gage operating OK Weather cool overcast

Intake/Orifice cleaned ..... Air ..... °C@ ..... Water ..... °C@ .....

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

Manometer N_2 Pressure Tank ✓ Feed ✓ Bbl rate ✓ per min.

CSG checked ..... Stick reading .....

Observer .....

HWM ..... outside, in well

Remarks .....

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

River at—

Angle coefficient	Dist. from initial point	Width	Depth	Observation depth	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in vertical	Adjusted for hor. angle or --------	Area	Discharge
	LEW @ 1730										
	1.4		0		0	40					
	1.6		0.3		52	40					
	2.0		0.35		60	52					
	2.5		0.3		80	53					
	3.0		0.35		90	45					
	3.5		0.35		110	52					
	4.0		0.35		90	48					
	4.5		0.3		70	47					
	5.0		0.3		60	52					
	5.5		0.25		50	40					
	5.9		0.2		60	43					
	6.0		0		0	40					
	REW @		1750								
⊙											

IADTOT
INPUT
OUTPUT