Form 9-275F
(Apr. 2001)

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND GAGE INSPECTION NOTES

Meas. No. 23
Comp. by Pflume
Checked by

Sta. No. _____
Sta. Name F8 Crescent
Date Jan 9 ,2003 Party PAS, JDG, KDC
Width _____ Area _____ Vel. _____ G.H. _____ Disch. 0.169 cfs - Pflume
Method _____ No. secs. _____ G.H. change _____ in _____ hrs.
Method coef. _____ Horiz. angle coef. _____ Susp. _____ Tags checked _____
Meter Type _____ Meter No. _____ Meter _____ ft. above bottom of wt.
Rating used _____ Spin test before meas. _____ ; after _____
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

	GAGE READINGS ft				Tdown	
	Time	Tdown ft	PFlume ft	PFlume cfs	Inside	Outside
①	16:10	1.34			3.02 ✓	2.908
	Start					
②	17:00	1.35	0.20	0.169	3.00 ✓	2.898
③	17:09	1.35			3.01 ✓	2.898
	17:20	Finish			3.04 ✓	
	Weighted MGH					
	GH correction					
	Correct MGH					

Samples collected: water quality, @ 17:20
sediment, biological, other _____
Measurements documented on separate sheets: water quality, aux./base gage, other _____
Rain gage serviced/calibrated ____
Weather: 5% cumulus, 95% cirrus, wind 10 mph ↑ east
Air Temp. _____ °C at _____
Water Temp. 10.3 °C at 17:20 OG
Check bar/chain found _____
Changed to _____ at _____
Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, _____ ft., mi. upstr., downstr. of gage.
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: _____
Cross section: _____

Gage operating: yes Record Removed _____
Battery voltage: 13.96 Intake/Orifice cleaned/purged: _____
Bubble-gage pressure, psi: Tank 2000 , Line 11 ; Bubble-rate 44 /min.
Extreme-GH indicators: max _____ , min _____ .
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM inside/outside: _____
Control: conductivity probe slightly buried in sediment
Remarks: LEVELS run

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____
Sheet No. _____ of _____ sheets

Elevation of top of rebar = ~~4.248~~ 4.25 ft from today's levels

① Tape down @ 16:10 = 1.34 ft → (~~4.248~~ 4.25 − 1.34) = ~~2.908~~ ft 2.91 ft

② Tape down @ 17:00 = 1.35 ft → (~~4.248~~ 4.25 − 1.35) = ~~2.898~~ ft 2.9 ft

③ Tape down @ 17:20 = 1.35 ft → (~~4.248~~ 4.25 − 1.35) = ~~2.898~~ ft 2.9 ft

	Time	IG	OG
Sp Cond	17:20		160.0 µS
Wtr Temp	17:20		10.3 °C

Year 2002 ✓
Julian day 10 ← WRONG
Time 16:29 ✓

Form 9-275G
(Sep. 2000)

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND GAGE INSPECTION NOTES

4.249
- 1.34
2.909

Meas. No. _____
Comp. by Portable Flume
Checked by _____

Sta. No. _____
Sta. Name Crescent
Date Jan 9 , 2003 Party PAS, JDG, KAC
Width _____ Area _____ Vel. _____ G.H. 2.90 Disch. 0.23
Method _____ No. secs. _____ G.H. change _____ in _____ hrs.
Method coef. _____ Horiz. angle coef. _____ Susp. _____ Tags checked _____
Meter Type _____ Meter No. _____ Meter _____ ft. above bottom of wt.
Rating used _____ Spin test before meas. _____ ; after _____
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

corresp to F8 not F10

GAGE READINGS						
Time					Inside	Outside
1610					3.02	2.91
	Start					
		Flume stage = 0.20				
1700	Q	From Flume rating = 0.227				
	Finish				3.01	
1709					~~2.99~~	~~2.89~~
Weighted MGH						2.90
GH correction						
Correct MGH						

Samples collected: water quality, sediment, biological, other _____

Measurements documented on separate sheets: water quality, aux./base gage, other _____

Rain gage serviced/calibrated _____

wrong rating in manual

Weather: Partly Cloudy, breezy
Air Temp. _____ °C at _____
Water Temp. _____ °C at _____
Check bar/chain found _____
Changed to _____ at _____
Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, _____ ft., mi. upstr., downstr. of gage.
Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: _____
Cross section: _____

Gage operating: yes Record Removed _____
Battery voltage: _____ Intake/Orifice cleaned/purged: _____
Bubble-gage pressure, psi: Tank 2000 , Line 11 ; Bubble-rate 44 /min.
Extreme-GH indicators: max _____ , min _____ .
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM inside/outside: _____
Control: _____

Remarks: TPD = 1.34' from top of rebar @ 1610 = 4.249 Given from today's levels) - 1.34 = 2.91 G.H. →
GH of zero flow = GH 2.91 - depth at control 0.10 = 2.81 ft., rated _____

Sheet No. _____ of _____ sheets

@1709 TPD from top of rebar = 4.249 (Given)

− 1.35

G. H. = 2.89

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

Gauge: F8 Crescent ✓

Date	9 - Jan - 2003	- -	- -
time of visit (start & finish)	15:30		
party	JG, BS, KC		
cloud cover (%, type)	5% ~~cirrus~~ cumulus, 95% cirrus		
wind (spd, dir)	10 mph E		
air temp			
surveying?	Yes		
photo? (#, which camera)	JG		
to do items? (y/n)			
which field notebook?	KL		
Flow measurements (times)	1710		
condition of control, probes	cond. probe slightly buried in sediment		
method (meter, flume, visual)	portl flume		
discharge (units)	0.2" ~ 0.227 cfs		
outside stage (staff or top down)	1.35"		
CR10 stage reading	3.00 ± 0.04		
Inside Box			
CR10 Channels (times)	16:10 1710 1720		
Ch 1 stage	3.033 2.99 ± .04 3.04		
Ch 2 water temp	9.681 10.58		
Ch. 3 conductivity	165.03 163.9		
Ch. 4 battery voltage	13.96 13.7		
~~air temp~~	—		
Year, Day, Time	03 ✓, 0010 ✓, 16:25 ✓		
settings o.k?	✓		
*0 ?	✓		
N2 tank pressure (psi)	2000		
N2 feed pressure (psi)	11		
purge?	o.k.		
bubble rate (per min) on conoflow	44		
Stream Chemistry (times)	1720		
water temp. (units)	10.3		
sp. cond. (units)	160.0 µS (flashing); 115.2 µS (hot flash)		
pH and temp of probe	in lab		
instrument notes (i.e. cal. time)			
water samples collected?	Yes		

F8

42.49" − 1.35" = 2.89 ~ 3.01
top of rebar | tapedown stage | OG | IG

9-276
(Rev. 7-67)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Station Number .....

LEVEL NOTES

Stream F8- CRESCENT STR

Locality

Party JG, KDC Date Jan 9, ~~19~~ 2003

STATION	B. S.	HT. INST.	F. S.	ELEVATION	REMARKS
RM3	2.530	8.070		5.540	Bolt 55 ~~ft~~ DS on left, ELEV GIVEN
RM4			3.519	4.551	Bolt 5 ft from orifice
RP1			3.821	4.249	top of rebar
orifice			5.403	2.667	top of nut
water surface			5.149	2.921	
RM3			2.530	5.540	Ø ✓
PZF			5.322	2.748	overflow
Turning point					
RM3	2.792	8.332		5.540	
RM4			3.782	4.550	0.001 avg = 4.550
RP1			4.085	4.247	0.002 avg = 4.248
orifice			5.668	2.664	0.003 avg = 2.667
water surface			5.412	2.920	0.001 avg = 2.921
PZF			5.581	2.751	0.003 avg = 2.749
RM3			2.795	5.537	0.003 ✓

RM 4 - TP

No. ____ of ____ sheets Comp. by ____ Chk. by ____

☆ GPO 1984 O-452-826

Cozzetto π Gartner ϕ

9 Jan, 2003 15:45

LEVELS

F8 Crescent Steam

as noted inside gage

BS	HI	FS	Elev	Remarks
RM3 (2.530)	8.071		5.541 Given	Bolt 55' DS on ℄
RM4		3.519	4.552	Bolt 5' from orifice
RP1		3.821	4.250	top of rebar
Orifice		5.405	2.646	top of nail
Water Line		5.149	2.922	
RM3 (2.530)	8.071			℄ .000
PZF		5.322	2.749	
turning pt (2.792)				
RM3	8.333		5.541	
RM4		3.782	4.551	℄ .001
RP1		4.085	4.248	℄ .002
Orifice		5.668	2.665	℄ .001
Water line		5.412	2.921	℄ .001
PZF		5.581	2.752	℄ .003
RM3 (2.795)	8.336			℄ .003

Gartner π Cozzetto ϕ

LWE VG PERMAFROST 1/8/03

Start/Stop Time: 18:25/19:20

0	4±1, 6±1 (1st edge DS)		✓
1.5	23±2, 22±2		✓
3	25±2, 24±2		✓
4.5	17±2		✓
6	20±2		✓
7.5	21±1		✓
9	23		✓
10.5	21		✓
12	24.5		✓
13.5	26		✓
15	24±1		✓
16.5	25±1		✓
18	22±2		✓
19.5	17±2, 20±1		✓
(21)	21±2	20.5±2 @ 19:29	
(22.5)	20±2	17±2 / 16.5±2 @ 19:25	
(24)	~~16~~ 19 ±2	14±2, 14±2, 15±2, 16±2 @ 19:30	