

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

Meas. No. 45

Comp. by _____

Checked by _____

Arrived @ 16:40

Sta. No. _____

Sta. Name B1-Priscy

Date Jan 13, 2003 Party PAS, KDC

$Q = 0.381$

Width _____ Area _____ Vel. _____ G.H. _____ Disch. 0.413

Method Portable Flume 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 _____

JCK → using new Baski conversion.

GAGE READINGS					
Time	Pstume	Pstume	OG	Inside	Outside
	ft	cfs	OG		
17:00			1.25	1.52	0.25 ± 0.02
	Start				
17:05				1.52	
17:19	0.30	0.381			
17:55				1.37	0.22 ± 0.02
	Finish				
Weighted MGH _____					
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 _____

Weather: 80° CC wind-east 10 mph

Air Temp. 30° F at 17:20

Water Temp. 5.4° C at 17:45 OG

Check bar/chain found _____

Changed to _____ at _____

Correct _____

prob outside watch

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: _____ Record Removed _____

Battery voltage: 14.2 Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank 750, Line 11; Bubble-rate 20 ~~47~~ 49 min.

Extreme-GH indicators: max _____, min _____

CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____

HWM inside/outside: _____

Control: Flume not level

Remarks: _____

GH of zero flow = GH _____ - depth at control _____ = _____ ft., rated _____

Sheet No. _____ of _____ sheets

Time 16 06
17:45 - 81.6 μ S
17:45 5.4 °C
Sp. Cond
Temp

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
WATER RESOURCES DIVISION

Meas. No. Portable Flume
Comp. by _____

Sta. No. _____ DISCHARGE MEASUREMENT NOTES Checked by _____

Date Jan 13 192003 Party PAS, KAC
Width _____ Area _____ Vel. _____ G.H. _____ Disch. 0.41
Method Flume No. secs. _____ G.H. change _____ in _____ hrs. Susp. _____
Method coef. _____ Hor. angle coef. _____ Susp. coef. _____ Meter No. _____
Date rated _____ Used rating for rod _____ susp. Meter _____ ft
above bottom of wt. Tags checked _____ Spin before meas. _____ after _____
Meas. plots _____ % diff. from _____ rating. Wading, cable, ice, boat, upstr., downstr., side
bridge _____ feet, mile, above, below gage. Levels obtained NO

BASE GAGE READINGS				
Time	Recorder	Inside	Outside	
1700		1.52	0.25	±0.02
1719	0.30 on Portable Flume Staff plate = 0.413 AS			
1755		1.37	0.22	±0.02
Weighted M.G.H. _____				
G.H. correction _____				
Correct M.G.H. _____				

AUX. GAGE READINGS				
Time	Recorder	Inside	Outside	
Weighted M.G.H. _____				
G.H. correction _____				
Correct M.G.H. _____				

Check-bar, chain found _____ changed to _____ at _____

Measurement rated excellent (2%), good (5%), fair (8%), poor (over 8%), based on following conditions: Cross section

Flow Shallow, sandy Weather Partly cloudy, cold, breezy
Other wish the wind would fucking stop Air 30 °F. @ 1720
Gage yep, that's why we're here Water 5.4 °F. @ 1745
Record removed _____ Intake flushed _____

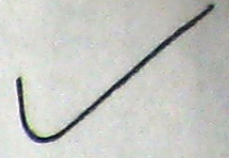
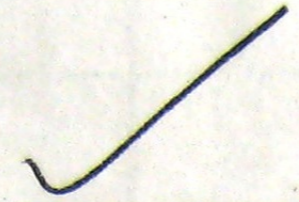
Observer 1745 Conductance = 50.6
SpC = 81.6 Temp = 5.4 °C
Control good; Parshall flume tilting downstream

Remarks too late in season to worry about flume this year. Next year run levels first, fix portable flume, then shoot levels on it again.

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

Gauge: **BI-PRISCU**

06/



07-Jan-03

13-Jun-03

Date	07-Jan-03						13-Jun-03
time of visit (start & finish)	1200 - 1230						1700
party	JG KC						KAC, PAS
cloud cover (% type)	50% cumulus						80%
wind (spd, dir)	E 15 mph						E 10
air temp	chilly						~ 0°C
surveying?	N						N
photo? (#, which camera)	N						N
to do items? (y/n)	check Temp probe						when leveling next year, fix Partial Flume
which field notebook?	-						
Flow measurements (times)	24:00	24:06	00:24	11:15	01:20	01:25	
condition of control, probes	good						good, Flume not horizontal
method (meter, flume, visual)	partl flume						Flume
discharge (units)	$0.235 \pm 0.05'' = 0.291 \text{ cfs}$						$0.23'' = 0.21'' = 0.21$
outside stage (staff or top down)	0.157 ± 0.03	0.15 ± 0.02	0.12 ± 0.01	0.10 ± 0.01	0.09 ± 0.2	0.24 on Partial	
CR10 stage reading					1.42	1.52	
Inside Box							
CR10 Channels (times)	24:00	00:21		11:15		17:05	
ch1 stage	1.531	1.48		1.39		01 = 1.52	
ch3 water temp		-1.8 *			-9999	...	
conductivity						03 = -	
ch4 battery voltage		13.5			13.4	04 = 14.2	
ch2 air temp		4.5 *			2.6	02 = 5.36	
Year, Day, Time							
settings o.k?	✓						✓
*0?							
N2 tank pressure (psi)	650						750
N2 feed pressure (psi)	11						11
purge?							No
bubble rate (per min) on conoflow							20 - turned up to 40
Stream Chemistry (times)							
water temp. (units)	0.9 - 1.3°C						5.4°C
sp. cond. (units)	LErr (Flashing) 87.5 μS (not flashing)						81.6
pH and temp of probe	in lab						
instrument notes (i.e. cal. time)							
water samples collected?	Yes						Yes

• AT & WT could be switched
 • had problem w/ WT before

Observation of AT is below freezing

flor pulled plug and rest until CR10

42

Written inside B3 gauge box

11/12/93	0.813
12/15/93	0.763
1/5/94	0.703
12/8/94	1.01

~ Bolt in rack
70' US of box L.S.

RM1
8.67

RM2
16.08

Bolt in rack
100' US of box L.S.

$$1.53 - 0.15 = 1.38$$

7 Jan 2003 Temp read -1.8

then -999.91

@ ~125

after rebooting program

1.01

1.01

ZOTTE, ETC.

1/13/03

BI-Priscu

1/13/03

Time: 16:00

Time: 16:40

Lizotte - no flow, not even ice in ch
adjacent to Lizotte

Flow is present

Adj channel - no flow, not even ice in ch

Incised ch. "next to" Priscu

- no flow

- very narrow, maybe fed by
snow & not glacial fed

Wind - from east

steady 5-10 mph

50% cloud cover

Lake ice - Shitty!

To Do

Next year - flume is really not level
try & level flume