

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

Meas. No. _____

Comp. by Agne Cole

Checked by _____

Sta. No. _____

Sta. Name ONYX 2 LWR

Date JAN 8, 2002 Party CJ, CH, JW

Width 54.0 Area 87.8 Vel. 2.82 G. H. _____ Disch. 248

Method 1.6 * 12/1.8 No. secs. 26 G. H. change _____ in _____ hrs.

Method coef. 1.0 Horiz. angle coef. 1.0 Susp. ROB Tags checked _____

Meter Type AA STD Meter No. _____ Meter _____ ft. above bottom of wt.

Rating used 6/99 Spin test before meas. _____ ; after _____

Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS						
Time	WT	WT(m)	C(m)	SC	Inside	Outside
<u>1120</u>	<u>1.7</u>	<u>1.9</u>	<u>15.1</u>	<u>10.8</u>	<u>3.43</u>	
	Start					
<u>1220</u>	Finish				<u>3.42</u>	
Weighted MGH						
GH correction						
Correct MGH						

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

1130

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

Rain gage serviced/calibrated _____

Weather: Cold-clear-sunny

Air Temp. _____ °C at _____

Water Temp. _____ °C at _____

Check bar/chain found _____

Changed to _____ at _____

Correct _____

Wading, cable, ice, boat, upstr., downstr., side bridge, 100 ft., mi. upstr., downstr. of gage.

Measurement rated excellent (2%), good (5%), fair (8%), poor (> 8%); based on following conditions: Flow: fairly even across channel - regular + steady

Cross section: course material - cobble - boulders deeper near Lew

Gage operating: _____ Record Removed _____

Battery voltage: 13.8 Intake/Orifice cleaned/purged: _____

Bubble-gage pressure, psi: Tank 1400, Line 10; Bubble-rate _____ /min.

Extreme-GH indicators: max _____, min _____

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

HWM inside/outside: approx. .9 to 1.1' higher than stage @ 1230

Control: Wier is clear, looking stable, PZF on LE

Remarks: Had to make some 1/2 cts and larger verticals because of water in waders. COLD! Brrr. Could not see reason.

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

read D.G. due to High H2O! Sheet No. _____ of _____ sheets

GAGE ID# 00000015
 DATE 01/18/2002
 TRANSECT 03
 USER ID# 7237
 SH BEGIN 0.00
 SH END 0.00
 GH BEGIN 0.00
 GH END 0.00
 EST. DISCHARGE 0.00
 EST. Q (ADJ) 248.00
 METER ID# 93033
 AQUACALC ID# 671
 SOUNDING WT. 0
 START MEAS. AT LEW
 METER TYPE Price AA 1:1 ST2
 METER CONST. C1 2.2048
 METER CONST. C2 0.0178
 METER CONST. C3 2.2048
 METER CONST. C4 0.0178
 METER CONST. C5 0.0
 MEASUREMENT TIME 40
 MEAS. SYSTEM SAE
 PERCENT SLOPE 0.00
 TOTAL VERTICALS 21
 TOTAL STATIONS 26
 TOTAL WIDTH 54.00
 TOTAL AREA 87.80
 TOTAL DISCHARGE 248.000
 PCT DIFFERENCE 0.0
 MEAN VELOCITY 2.82
 WETTED PERIMETER 54.58
 HYDRAULIC RADIUS 1.61
 MANNING FACTOR 0.00

OB	DIST	DEPTH	ICE	REVS	TIME	COS:VF	LOC	COEF	CLOCK	VEL	AREA	FLOW(Q)	FLAGS
1	2.00	0.00	0.00	0	0.0	1.00	6	1.00	11:56	0.000	0.000	0.000	
2	10.00	0.90	0.00	27	40.9	1.00	6	1.00	11:56	1.473	5.850	8.617	3
3	15.00	0.90	0.00	41	40.0	1.00	6	1.00	11:57	2.278	4.050	9.226	3
4	19.00	1.00	0.00	38	40.8	1.00	6	1.00	11:58	2.071	3.500	7.249	3
5	22.00	1.30	0.00	39	40.1	1.00	6	1.00	11:59	2.162	3.250	7.027	3
6	24.00	1.66	0.00	30	40.3	1.00	6	1.00	12:00	1.659	3.320	5.508	
7	26.00	1.80	0.00	43	40.7	1.00	6	1.00	12:01	2.347	3.600	8.449	
8	28.00	2.00	0.00	44	40.3	1.00	6	1.00	12:02	2.425	4.000	9.700	
9	30.00	2.30	0.00	49	40.0	1.00	6	1.00	12:04	2.719	4.600	12.510	1
10	32.00	2.40	0.00	48	40.0	1.00	6	1.00	12:05	2.664	4.800	12.790	1
11	34.00	2.60	0.00	68	40.3	1.00	2	1.00	12:06	3.738	5.200	16.100	1
12	34.00	2.60	0.00	45	40.7	1.00	8	1.00	12:07	2.455	0.000	0.000	
13	36.00	2.80	0.00	79	40.4	1.00	2	1.00	12:08	4.329	5.600	19.490	1
14	36.00	2.80	0.00	48	40.5	1.00	8	1.00	12:09	2.631	0.000	0.000	
15	38.00	2.80	0.00	84	40.1	1.00	2	1.00	12:10	4.636	5.600	22.150	1
16	38.00	2.80	0.00	60	40.6	1.00	8	1.00	12:11	3.276	0.000	0.000	
17	40.00	2.90	0.00	51	23.7	1.00	2	1.00	12:12	4.762	5.800	23.430	1
18	40.00	2.90	0.00	35	23.4	1.00	8	1.00	12:13	3.316	0.000	0.000	
19	42.00	2.90	0.00	39	19.8	1.00	2	1.00	12:15	4.360	5.800	22.060	1
20	42.00	2.90	0.00	29	19.8	1.00	8	1.00	12:15	3.247	0.000	0.000	
21	44.00	2.50	0.00	60	40.2	1.00	6	1.00	12:16	3.308	5.000	16.540	1
22	46.00	2.40	0.00	52	40.8	1.00	6	1.00	12:17	2.828	4.800	13.570	1
23	48.00	2.15	0.00	46	40.1	1.00	6	1.00	12:18	2.547	4.300	10.950	
24	50.00	1.70	0.00	49	40.1	1.00	6	1.00	12:19	2.712	4.250	11.530	
25	53.00	1.50	0.00	46	40.0	1.00	6	1.00	12:20	2.553	4.500	11.490	
26	56.00	0.00	0.00	0	0.0	1.00	6	1.00	0:00	0.000	0.000	0.000	

1. USER EXCEEDED SINGLE SUBSECTION 05% EST. Q.
2. THE PRODUCT OF VELOCITY AND DEPTH EXCEEDED THE SELECTED SOUNDING WEIGHT.
3. INCORRECT METER USED FOR DEPTH OF STREAM.
4. INCORRECT METER USED FOR VELOCITY OF STREAM.
5. ABNORMAL VELOCITY PROFILE CALCULATED.
6. DEPTH ESTIMATED BY USER.
7. VELOCITY ESTIMATED BY USER.
8. TURBULENT VELOCITY MEASURED