

U.S. DEPARTMENT OF THE INTERIOR
U.S. Geological Survey
WATER RESOURCES DIVISION
DISCHARGE MEASUREMENT AND
GAGE INSPECTION NOTESMeas. No. 60
Comp. by KQC
Checked by Trans #15

Sta. No. _____
Sta. Name Andrews Lawson
Date 6 Jan 2023 Party JG, KC
Width 4.50 Area 0.81 Vel. 0.48 G.H. _____ Disch. 0.39 cfs
Method 1.6 No. secs. 10 G.H. change _____ in _____ hrs.
Method coef. _____ Horiz. angle coef. _____ Susp. Red Tags checked _____
Meter Type Dynmy Meter No. 0997 Meter _____ ft. above bottom of wt.
Rating used 116-99 Spin test before meas. 1.54 ; after SK
Meas. plots _____ % diff. from rating no. _____ Indicated shift _____

GAGE READINGS					
Time	TD			Inside	Outside
	<u>Down</u>				
	<u>ft</u>				
	Start			<u>6.38</u>	
① 16:30	1.185			<u>6.371</u>	6.60
② 16:40	1.180			<u>6.365</u>	6.605
③ 17:00	1.175			<u>6.363</u>	6.61
	Finish				
	<u>Dynmy</u>	<u>0.39 cfs</u>			
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: 90% cc - cumulus; wind = 5-10 mph

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: _____ Record Removed _____
Battery voltage: 13.62 Intake/Orifice cleaned/purged: successful
Bubble-gage pressure, psi: Tank 1800, Line 10; Bubble-rate 72 /min.
Extreme-GH indicators: max _____, min _____
CSG checked: _____ HWM height on stick _____ Ref. elev. _____ HWM elev. _____
HWM inside/outside: _____
Control: _____

Remarks: brought in extra Na tank

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

Sheet No. _____ of _____ sheets

	Time	IG	OG
Wtr temp	16:30	N/A	2.8°C
SP cond	16:30	N/A	48.9 µS

No end of season levels → top of rebar elevation from 12/12/02 levels = 7.785
① Tapedown @ 16:30 = 1.185 → 7.785 - 1.185 = 6.592 6.60
② Tapedown @ 16:40 = 1.180 → 7.785 - 1.180 = 6.597 6.605
③ Tapedown @ 17:00 = 1.175 → 7.785 - 1.175 = 6.602 6.61

Gauge: **Lawson**

Date	6 Jan 03		
time of visit (start & finish)	16:00		
party	JDG, KDC		
cloud cover (% type)	90% cumulus		
wind (spd, dir)	5-10 mph		
air temp	N/A		
surveying?	no		
photo? (#, which camera)	Yes JDG		
to do items? (y/n)	Y - check offset *		
which field notebook?	JDG		
Flow measurements (times)	16:40	17:00	
condition of control, probes	ok, some damage to tarp		
method (meter, flume, visual)	pygmy	.39 cfs	
discharge (units)	0.39 cfs		
outside stage (staff or top down)	1.185 @ 16:30	1.180	1.175
CR10 stage reading	6.371 @ 16:30	6.365	6.363
Inside Box			
CR10 Channels (times)	16:10		
? Ch.1 stage	6.38		
water temp	N/A		
conductivity	N/A		
? Ch.4 battery voltage	13.62		
air temp	N/A		
Year, Day, Time	03 ✓, 0006 ✓, 16:10 ✓		
settings o.k?	✓		
*0?			
N2 tank pressure (psi)	1800		
N2 feed pressure (psi)	10		
purge?	yes - good		
bubble rate (per min)	72 bubbles/min		
Stream Chemistry (times)			
water temp. (units)	@ 16:30	+28°C	
sp. cond. (units)	@ 16:30	48.9 μ S, flushing / 28.3 μ S (not flushing)	
pH and temp of probe	in lab (OPST)		
instrument notes (i.e. cal. time)			
water samples collected?	yes @ 16:30		

Notes:

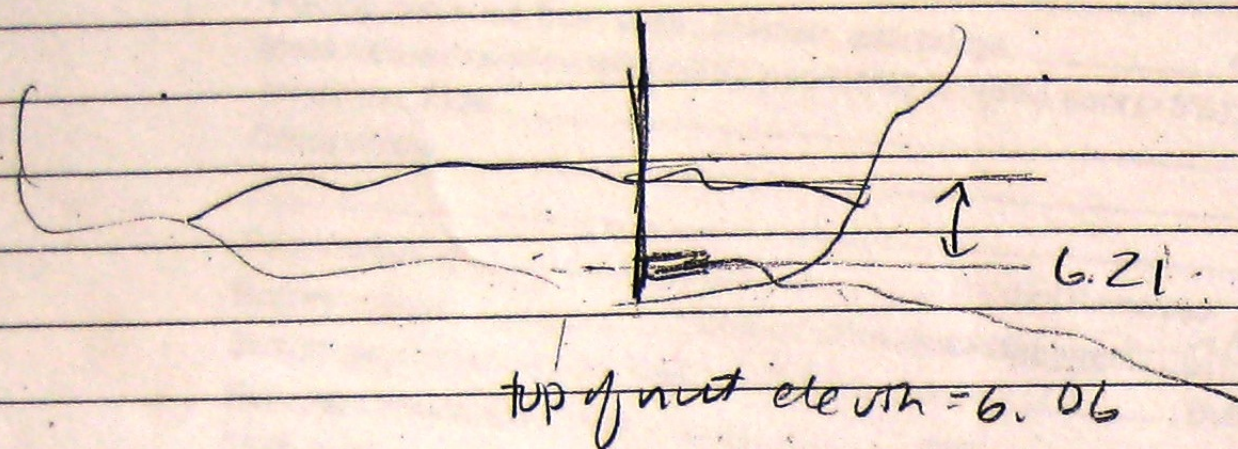
Brought in extra N₂ tank

6 Jan 03

B3- Law sum

6 Jan 03

In box, says offset = 6.24



6.21

5.81

6.06

5.81

0.25

Top of bolt on rock 8' DS = 10.00'

Top of nut = 6.06

Offset 12/5/94 = 5.81

RP1 = Top of rebar = 7.80 12/16/94

offset = 6.00 (12/17/94)

Top of nut moved on 12/2/95

Now elevn = 6.21

Changed offset to = 6.24

Level of the water above the nut = $0.3 \text{ ft} \pm .05'$
measured to canyon

Tape down = $1.2 \pm .05$

- water is slightly deeper at rebar than at
orifice by 1-2 inches