9-275-F
(Apr. 93)

U.S. DEPARTMENT OF THE INTERIOR
U.S. GEOLOGICAL SURVEY

Meas. No. 8

Comp. by KAM

WATER RESOURCES DIVISION

Sta. No. F2 **DISCHARGE MEASUREMENT NOTES** Checked by

Ivy Creek

Date 12/21/5, ~~19~~ Party TCK + KAM

Width 1.12 Area .371 Vel. 2.04 G.H. Disch. 1.92

Method S.-4 No. secs. 14 G.H. change in hrs. Susp. Rod

Method coef. 1.0 Hor. angle coef. 1.0 Susp. coef. 1.0 Meter No.

Type of meter Pygmy Date rated Tag checked

Meter ft. above bottom of wt. Spin before meas. after Free

Meas. Plots % diff. from rating. Levels obtained No

GAGE READINGS						WATER QUALITY MEASUREMENTS
Time	Inside				Outside	No X Yes Time
						Samples Collected
1635					0.78±0.04	No Yes X Time
1645						Method Used
						EDI EWI Other
1654					.78±.03	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 25 feet, mile, above, below gage.

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

Flow Rapid

Cross section Cobbles & gravel

Control Flume -> clear

Gage operating * Weather Partly cloudy; lt breeze

Intake/Orifice cleaned No Air °C@ Water °C@

Record removed No Extreme Indicator: Max. N/A Min. N/A

* Manometer N_2 Pressure Tank 0 Feed 0 Bbl rate per min.

CSG checked No Stick reading

Observer

HWM ~.4 ab present stage below weir outside, in well

Remarks

pH = 6.03

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
			LEW		1639						
	4.2	.25	0							0	0
	4.7	.40	.18	5	60	35		1.68		.072	.121
	5.0	.30	.24	5	60	32		1.83		.072	.132
	5.3		.32	.6	80	32		2.43		.096	.233
	5.6		.35	.6	100	32		3.03		.105	.318
	5.9		.32	.6	100	33		2.94		.096	.282
	6.2		.26	5	80	30		2.59		.078	.202
	6.5		.21	5	80	37		2.11		.063	.133
	6.8		.23	5	80	38		2.05		.069	.172
	7.1		.20	5	60	30		1.95		.060	.117
	7.4		.19	5	60	33		1.78		.057	.101
	7.7	.30	.17	5	60	41		1.44		.051	.073
	8.0	.35	.15		30	46		.658		.052	.034
⊙	8.4	.20	0							0	0
	W	✓	REW		1653			V		A	Q
	4.2	4.2						~~2.20~~		.871	1.92
								2.04	JCK		

$V_i = \left(\frac{REV}{SEC}\right)(.9604) + .0312$

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

.80 .85 .90 .92 .94 .96 .97 .98 .99 1.00 .99 .98 .97 .96 .94 .92 .90 .85 .80