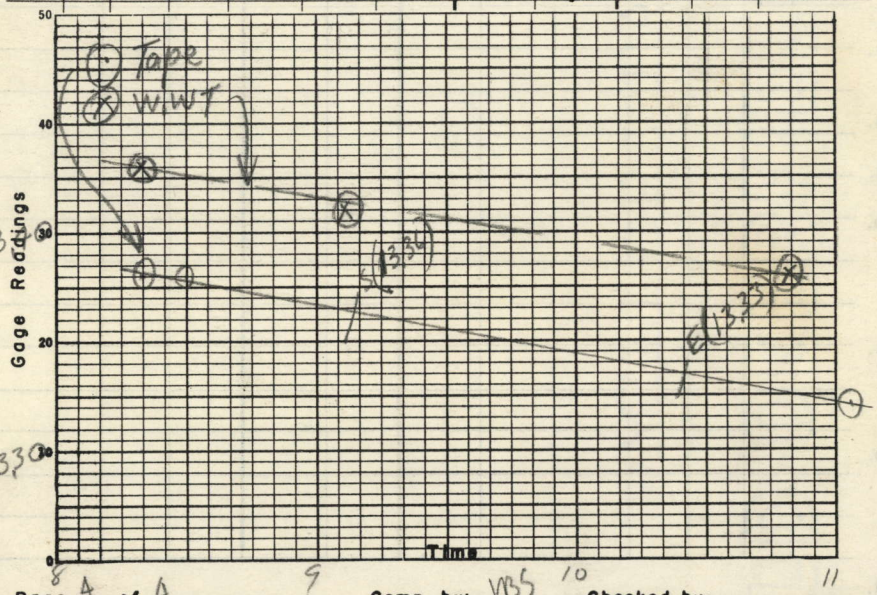
River at

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge



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RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Water Resources Branch

DISCHARGE MEASUREMENT NOTES

Meas. No. 531

Checked by BH

Date 4-3-58

Water temp. 62 °F

Air temp. °F

Time 11:20 am

Brazos River at Richmond, Tex.

Date Mar. 4, 1958 Party V.B. Sauer

Width 388' Area 6,890' Vel. 2.64' G.H. Disch. 18,200'

Method 2.8 No. Secs. 22' G.H. Chng. -.02' ft. per hr. Time meas. 1.3' hrs.

Meter No. 3052 Date Rated Jan. 1954 Susp. 50 c.g. Susp. Coef. 1.00'

Method Coef. 1.00' Hor. angle Coef. Noted' Used rating for, rod rod Susp.

GAGE READINGS

Time	Meas	Recorder	Tape	~~Inside~~ WW	Outside
8:20	am		13.38 (±)	13.43	
8:30	am		13.38		
9:07	am			13.41	
9:08	(S)		(13.36)		
10:25	(E)		(13.33)		
10:50	am			13.38	
11:05	am		13.32	13.32	
~~Weighted~~ MGH			13.34	✓	
GH Corr.					
Correct MGH					

Meter 0.9 ft. above bottom of weight

Spin before meas. OK after OK

Wading, cable, ice, boat, upstr., downstr., side

bridge at feet, mile, above, below

gage, and 3 wheel base

Chain, wire, found 58.72 at G-Sta.

Changed to 58.68 at 11:03 a.m.

Correct length 58.68

Levels Obtained

Measurement rated, excellent (2 %), good (5%)

fair (8 %), poor (over 8 %) based on following

Cross section uniform

Flow smooth Weather cool - cloudy

Other Drag was negl. with 50# wt. - Meter did not swing.

Gage Thermograph Bulb broken. 48 days paper remain

Record removed Yes Intakes flushed No

Pencil NONE Wt. Adj. — Paper dry

Record clear Chart time 20M slow Clock Reg. NO

Observer not seen

Control More bank has slaughed off on both sides
Control is bed & banks.

Remarks Max. ind. = 29.11 } Both reset
Min. ind = 4.56 }

Page 1 of 4 G.H. of zero flow ft.

Brazos River at Richmond

Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
		WWT = 13.41 @ 9:07 am									
590		0	LEW @ 9:08 am							10'	—
610		5.8	3.5	0	70		.00	116		20'	0
630	.97	5.4	1.1	10	52	.49	.24	105	108	20'	30
			4.3	0	70	.00					
650	⊥	10.9	2.2	5	47	.26	.52	218		20'	110
			8.7	15	43	.78					
670	⊥	14.0	2.8	20	45	.99	.87	280		20'	240
			11.2	15	45	.75					
690	⊥	16.7	3.3	30	42	1.58	1.84	334		20'	610 ~~620~~
			13.4	40	42	2.10					
710	.98	19.3	3.9	40	45	1.96	2.10	378	386	20'	790
			15.4	50	49	2.25					
730	.96	22.1	4.4	50	46	2.39	2.20	424	442	20'	930
			17.7	40	44	2.01					
750	.98	23.1	4.6	60	43	3.07	3.07	453	462	20'	1390
			18.5	60	43	3.07					
770	.99	23.8	4.8	60	41	3.21	2.86	471	476	20'	1350
			19.0	50	44	2.50					
790	.98	23.3	4.7	80	50	3.51	3.29	457	466	20'	1500
			18.6	60	43	3.07					
810	.96	23.8	4.8	60	40	3.30	3.15	457	476	20'	1440
			19.0	60	44	3.00					
830	.98	25.2	5.0	80	50	3.51	3.40	494	504	20'	1680
			20.2	60	40	3.30					
850	.97	26.3	5.3	80	51	3.44	3.48	446	460	17½'	1550
			21.0	80	50	3.51					
865	.98	29.6	5.9	80	44	3.99	3.37	464	473	16'	1560
			23.7	50	40	2.75					
										283½	13190

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Dist. from initial point	Angle Coefficient	Depth	Depth of observation	Revolutions	Time in seconds	VELOCITY At point	VELOCITY Mean in section	Corr. Area	Area	Width	Discharge
										283½	
8' out for pier											13190
890	⊥	30.0	6.0	60	40	3.30	3.02	555		18½'	1680
			24.0	50	40	2.75					
910	.98	20.0	4.0	60	46	2.87	3.04	392	400	20'	1190
			16.0	60	41	3.21					
930	.99	19.4	3.9	60	44	3.00	2.67	384	388	20'	~~1020~~ 1030
			15.5	50	47	2.34					
950	.99	15.0	3.0	60	45	2.93	2.56	297	300	20'	760
			12.0	40	40	2.20					
970	⊥	9.0	1.8	50	45	2.45	2.35	135		15'	320
			7.2	50	49	2.25					
980	⊥	4.0	2.4	30	42		1.58	320		8'	50
986		0	REW @ 10:25 am							3'	—
590											
396								6892		38.8'	18210
−8											
388											

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