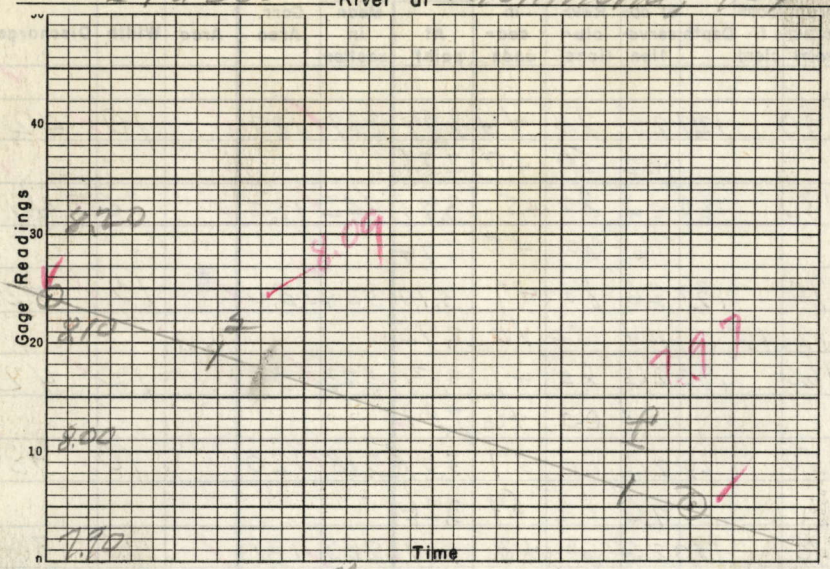
Brazos River at Richmond, Tex



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A-34 RECORDED

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
Water Resources Branch
DISCHARGE MEASUREMENT NOTES

Meas. No. 384
Checked by SWTA
Date 5/19/52

Water temp. ____ °F
Air temp. ____ °F
Time ____

Brazos River at Richmond, Tex

Date April 15, 1952 Party Delman & Smith
Width 366 Area 3,190 Vel. 2.83 G.H. ____ Disch. 9010
Method 6-2-8 No. Secs. 28 G.H. Chng. -.08 ft. per hr. Time meas. 1.6 hrs.
Meter No. 1949 Date Rated 11-5-50 Susp. 50 cg Susp. Coef. 1.00
Method Coef. 1.00 Hor. angle Coef. 1.00 Used rating for, rod Rod Susp.

GAGE READINGS

Time	Meas	Recorder	Tape	Inside	Outside
11	WT	*	*		8.20
1100	AM	8.10	8.14		8.13
1100	AM	8.14	8.14		
1140	S		(8.09)		
1145	f		(7.97)		
1:30		7.95	7.95		
Weighted MGH			8.03		
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 -270 feet, mile, above, below — gage, and —
Chain, wire, found 58.69+ at ____ G-Sta.
Changed to — at —
Correct length 58.68
Levels Obtained —
Measurement rated, excellent (2%), good (5%) — fair (8%), poor (over 8%) based on following
Cross section Uniform
Weather Fair

Flow Smooth
Other —
Gage OK
Record removed No Intakes flushed —
Pencil — Wt. Adj. — Paper —
Record — Chart time — Clock Reg. —
Observer —

Control Sandbar 6000' below. There is a dragline at this point removing gravel from gravel slope.
Remarks * Found tape off spines. Put tape on spines.

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

Brazos River at Richmond Tex

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
	L.E.W at 11:40 AM										
436		0		V=0			0	0		8	0
420L		3.4	2.0	V=0			0	68		18	0
400		3.9	2.3	3	50		.15	78		20	12
380		3.7	2.2	7	40		.40	74		20	30
360		3.0	1.8	30	45		1.48	60		20	89
340		5.2	1.0	50	46	2.40	1.96	104		20	204
11:55			4.2	30	44	1.51					
320		6.4	1.3	60	45	2.94	2.52	128		20	322
			5.1	40	42	2.11					
300		6.4	1.3	80	52	3.38	3.22	112		17½	360
			5.1	60	43	3.07					
285		8.4	1.7	80	48	3.66	3.11	126		15	392
			6.7	50	43	2.56					
270		9.3	1.9	80	48	3.66	3.08	140		15	432
			7.4	50	44	2.51					
255		10.0	2.0	80	49	3.59	2.78	150		15	417
			8.0	40	45	1.97					
240		10.2	2.0	80	46	3.82	3.41	153		15	522
			8.2	60	44	3.00					
225		10.9	2.2	80	50	3.52	3.04	164		15	500
12:25			8.7	50	43	2.56					
210		12.0	2.4	80	45	3.91	3.33	150		12½	500
			9.6	60	48	2.75					
200		12.2	2.4	80	45	3.90	2.86	122		10	349
			9.8	40	49	1.81					

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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
190		12.7	2.5	80	44	3.99	3.37	127		10	428
			10.2	50	40	2.75					
180		12.0	2.4	80	45	3.91	3.42	120		10	410
			9.6	60	45	2.94					
170		13.0	2.6	80	47	3.74	3.24	130		10	422
12:44			10.4	50	40	2.75					
160		13.0	2.6	80	49	3.59	3.23	130		10	420
			10.4	60	46	2.87					
150		12.0	2.4	80	57	3.09	3.18	120		10	382
			9.6	80	54	3.26					
140		13.0	2.6	60	43	3.07	2.83	130		10	368
			10.4	60	51	2.59					
130		14.6	2.9	60	41	3.22	2.94	146		10	429
			11.7	60	50	2.65					
120		14.2	2.8	80	50	3.52	3.26	142		10	462
			11.4	60	44	3.00					
110		14.7	2.9	80	50	3.52	3.26	147		10	479
			11.8	60	44	3.00					
100		14.9	3.0	80	46	3.82	3.32	149		10	495
			11.9	60	47	2.81					
90		13.3	2.7	80	50	3.52	3.11	133		10	413
			10.6	60	49	2.70					
80		8.4	1.7	40	41	2.16	2.06	84		10	173
			6.7	40	45	1.97					
70		0		V=0			0	0		5	0
	R.E.W. at 1:15 PM							3187		360	9011

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