

9-275-1	07/08/09	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	
Station Number		ADCP Discharge Measurement Notes				Processed by	REB
						Checked by	
Station Name		Mississippi R. below bridge					
Date	May 22, 2011	Party	REB/Beach/GS/Gardner				
Width	Area / Rated Area	Velocity	Index	Gage Height	Discharge		
5140	726,000	4.26			1,099,000		
Gage Height Change		Meas. plots	From rating	Indicated Shift	ADCP Sync'd to WT		
in hrs.		% diff	No.:		Y at _____ or N		
ADCP Mfr / Model / Frequency			Serial No.	Firmware	Software		
600 KHz R's			8708	10/16	2.05		
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?			
Sawdust		yes	1.70	<input checked="" type="checkbox"/> Y or <input type="checkbox"/> N			
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
<input checked="" type="radio"/> Y or <input type="radio"/> N		-1.60	On-site <input checked="" type="radio"/> Model Previous		Y or N		
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
°F / C at		°F / C at	°F / C				
Gage Readings						Site Conditions	
Time	Start End	Primary reference				Max Water Depth	
1224	(S)					Max Water Speed	
						Max Boat Speed	
						Water Mode	
						Bottom Mode	
						Streambed material	
1334	(e)					Salinity	
						ppt at	
Weighted MGH						Checkbar found	
GH corrections						Checkbar changed to:	
Correct MGH						at	
Wading, cable, ice, boat, upstr., downstr., side bridge							
Measurement rated: excellent (2%), good (5%), fair (8%), poor (>8%) based on following conditions							
Flow							
Cross section:							
Control:							
Gage operating:	Y or N	Record removed:	Y or N	Filename:			
Battery voltage	V	Intakes/Orifice cleaned/purged:					
Bubble-gage psi:	Tank	Line	Bubble rate	/ min			
Extreme-GH indicators:	Max	Min	CSG Checked	Y or N			
HWM on stick		Ref elev.		HWM elevation			
GH of zero flow = GH		- depth at control	=	ft,	Uncertainty	±	
Sheet No.				of	sheets		

Acoustic Profiler Discharge Measurement Notes							Filename Prefix:
Left Bank:	<input checked="" type="radio"/> Sloping <input type="radio"/> Vertical Other: _____					Right Bank:	<input checked="" type="radio"/> Sloping <input type="radio"/> Vertical Other: _____
Transect No.	Starting		Ending		Total Discharge	Notes	
	Bank	Time	Distance	Time			
000	L <input checked="" type="radio"/>	1224	550	110	1242	1,080,000	
001	<input checked="" type="radio"/> R	1242	110	580	1255	1,130,000	
002	L <input checked="" type="radio"/>	1256	570	116	1314	1,070,000 loop subsection end ens. = 1850	
003	<input checked="" type="radio"/> R	1314	110	570	1334	1,120,000 loop subsection start ens. = 1850	
	L R					<u>1,098,982</u>	
	L R						
	L R	* use	MS_R - below - breach - final			mmt Cr. file w/ subsectioned loop	
	L R						
	L R						
	L R						
	L R						
	L R						
	L R						
	L R						
Notes							

Party: REB/GEG	Width: 5,140 ft	Processed by: REB
Boat/Motor:	Area: 226,000 ft ²	Mean Velocity: 4.86 ft/s
Gage Height: 0.00 ft	G.H.Change: 0.000 ft	Discharge: 1,100,000 ft ³ /s

Area Method: Avg. Course	ADCP Depth: 1.700 ft	Index Vel.: 0.00 ft/s	Rating No.: 1
Nav. Method: DGPS	Shore Ens.:10	Adj.Mean Vel: 0.00 ft/s	Qm Rating: U
MagVar Method: None (-1.6°)	Bottom Est: Power (0.1667)	Rated Area: 0.000 ft ²	Diff.: 0.000%
Depth Sounder: Not Used	Top Est: Power (0.1667)	Control1: Unspecified	
		Control2: Unspecified	
		Control3: Unspecified	

Screening Thresholds:		ADCP:
BT 3-Beam Solution: YES	Max. Vel.: 11.5 ft/s	Type/Freq.: Rio Grande / 600 kHz
WT 3-Beam Solution: NO	Max. Depth: 60.8 ft	Serial #: Firmware: 0.00
BT Error Vel.: 0.33 ft/s	Mean Depth: 44.0 ft	Bin Size: 50 cm Blank: 50 cm
WT Error Vel.: 32.81 ft/s	% Meas.: 81.69	BT Mode: 0 BT Pings: 1
BT Up Vel.: 32.81 ft/s	Water Temp.: None	WT Mode: 1 WT Pings: 1
WT Up Vel.: 32.81 ft/s	ADCP Temp.: 19.1 °C	WV : 170
Use Weighted Mean Depth: NO		

Performed Diag. Test: NO
 Performed Moving Bed Test: NO
 Performed Compass Test: NO
 Meas. Location: DS of levee breach

Project Name: ms_r_below_breach_final.mmt
 Software: 2.08

Tr.#		Edge Distance		#Ens.	Discharge						Width	Area	Time		Mean Vel.		% Bad	
		L	R		Top	Middle	Bottom	Left	Right	Total			Start	End	Boat	Water	Ens.	Bins
000	R	110	550	1831	98647	882573	91657	996	1700	1075574	5184	228827	12:24	12:42	4.39	4.70	0	0
001	L	110	580	1353	103858	930538	96962	669	1384	1133411	5213	232014	12:42	12:55	6.06	4.89	0	0
002	R	110	570	1812	98219	874590	92088	4156	1242	1070295	5079	223371	12:56	13:14	4.36	4.79	0	0
003	L	110	570	2183	106890	903443	102261	2926	1130	1116650	5083	220024	13:14	13:34	4.11	5.08	0	0
Mean		110	568	1794	101904	897786	95742	2187	1364	1098982	5140	226059	Total	01:10	4.73	4.86	0	0
SDev		0	13	340	4198	24995	4968	1648	247	30921	69.0	5377.9			0.90	0.16		
SD/M		0.00	0.02	0.19	0.04	0.03	0.05	0.75	0.18	0.03	0.01	0.02			0.19	0.03		

Remarks: