

9-275-I	7/19/08	U.S. DEPARTMENT OF THE INTERIOR <i>U.S. Geological Survey</i>				Meas. No.	57
Station Number		ADCP Discharge Measurement Notes				Processed by	BLL
05551540						Checked by	KAO
Station Name		Fox River at Montgomery, IL					
Date	July 6, 2004	Party	B.L. Loving, S.E. Anderson				
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge		
235	707	1.90		11.74	1,340		
Gage Height Change	Meas. plots	From rating	Shift	ADCP Sync'd to WT			
0.00 in 0.4 hrs.	4.4% diff	No.: 11	0.0	Ⓜ at 1207 or N			
ADCP Mfr / Model / Frequency		Serial No.	Firmware	Software			
RDI Rio Grande 1200		1636	10.14	WinRiver 10.06			
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?			
OceanScience Tethered		Trimble AgGPS	0.27 ft	<input checked="" type="checkbox"/> Y or <input type="checkbox"/> N			
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
Ⓜ or N		0.8	-2.4 On-site <input type="checkbox"/> Model <input type="checkbox"/> Previous		Y or <input type="checkbox"/> N		
Meas. Water Temp	ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.			
26.5 °F / <input type="checkbox"/> at 1210	26.5 °F / <input type="checkbox"/> at 1210	Sunny/clear 85 <input type="checkbox"/> C		Southerly @ 5-10 mph			
Gage Readings				Site Conditions			
Time		ETG	CR10	Inside	Outside	Max Water Depth	10 ft
1100		11.74	11.70		11.70	Max Water Speed	2.5 ft/s
1230			11.70		±0.05	Max Boat Speed	1 ft/s
1249	(S)		11.70			Water Mode	12
1300			11.70			Bottom Mode	5
1315	(F)		11.70			Streambed material	
						Gravel	
1400		11.74	11.70		11.70	Salinity	
					±0.05	ppt at	
Weighted MGH		11.74				Checkbar found	22.41
GH corrections						Checkbar changed to:	
Correct MGH		11.74				--- at ---	
Wading cable, ice, boat, upstr., side bridge		1500	ft. mi. upstr. <input type="checkbox"/> downstr. <input type="checkbox"/> of gage				
Measurement rated:	excellent (2%) <input type="checkbox"/> good (5%) <input type="checkbox"/> fair (8%) <input type="checkbox"/> poor (>8%) <input type="checkbox"/>			based on following conditions			
Flow	Steady & uniform. Flow at edges appears to be moving in DS direction						
Cross section:	Sand and Gravel with some mud						
Control:	Dam is clear of debris						
Gage operating:	<input type="checkbox"/> or N	Record removed:	Y or <input type="checkbox"/> N	Filename:	Telephone telemetry		
Battery voltage	12.5 V	Intakes/Orifice cleaned/purged:	No				
Bubble-gage psi:	Tank	---	Line	---	□	--- / min	
Extreme-GH indicators:	Max	---	Min	---	CSG Checked	<input type="checkbox"/> or N	
HWM on stick	None	Ref elev.	12.65	HWM elevation	None		
GH of zero flow = GH	---	- depth at control	---	=	---	ft, Rated=	10.48
Sheet No.		1	of	1	sheets		

