

9-275-I	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	
Station Number						Processed by	
		ADCP Discharge Measurement Notes				Checked by	
Station Name		Birds Point Inflow					
Date	05-26, 2011	Party	ES, BR, ZM				
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge		
3,205	10,474	0.071	—	—	737.6		
Gage Height Change		Meas. plots	From rating	Shift	ADCP Sync'd to WT		
in hrs.		% diff	No.:		Y at _____ or N		
ADCP Mfr / Model / Frequency			Serial No.	Firmware	Software		
RS M9			2010	1.50	2.50		
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?			
		NO	0.3	<input checked="" type="checkbox"/> Y or <input type="checkbox"/> N			
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
<input type="radio"/> Y or N		M3Q9	-1.6	On-site <input type="radio"/> Model <input type="radio"/> Previous	Y or <input type="radio"/> N/A		
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
70 °F / C at		69 °F / C at					
Gage Readings					Site Conditions		
Time				Inside	Outside	Max Water Depth	
						Max Water Speed	
1623						Max Boat Speed	
						Water Mode	
						Bottom Mode	
1657						Streambed material	
						Salinity	
						ppt at	
Weighted MGH						Checkbox found	
GH corrections						Checkbox changed to:	
Correct MGH						at	
Wading, cable, ice, boat, upstr., downstr., side bridge					ft., mi. upstr., downstr. of gage		
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.	Rated =
Sheet No.					of		sheets

Discharge Measurement Summary

Date Measured: Thursday, May 26, 2011

Site Information		Measurement Information	
Site Name	Birds Point Inflow	Party	ess/bcr/zwm
Station Number		Boat/Motor	
Location		Meas. Number	

System Information		System Setup		Units	
System Type	RS-M9	Transducer Depth (ft)	0.30	Distance	ft
Serial Number	2010	Salinity (ppt)	0.0	Velocity	ft/s
Firmware Version	1.50	Magnetic Declination (deg)	-1.6	Area	ft2
Software Version	2.50			Discharge	cfs
				Temperature	degF

Discharge Calculation Settings				Discharge Results	
Track Reference	Bottom-Track	Left Method	Sloped Bank	Width (ft)	3,205.12
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	10,473.9
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	0.071
		Bottom Fit Type	Power Fit	Total Q (cfs)	737.559

Measurement Results																	
Tr	Time			Distance				Mean Vel		Discharge							%
#	Time	Duration	Temp.	Track	DMG	Width	Area	Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal	Measured
1	L 2:23:45 PM	0:15:59	68.8	3,217.14	3,162.06	3,184.06	10,083.1	3.355	0.086	-0.47	0.26	94.08	564.83	209.76	868.465	--	65.0
2	R 2:41:13 PM	0:16:39	68.4	3,296.85	3,204.19	3,226.19	10,864.7	3.300	0.056	0.21	0.13	108.20	350.07	148.05	606.653	--	57.7
		Mean	68.6	3,256.99	3,183.12	3,205.12	10,473.9	3.327	0.071	-0.13	0.19	101.14	457.45	178.91	737.559	0.000	61.4
		Std Dev	0.2	39.85	21.06	21.06	390.8	0.027	0.015	0.34	0.07	7.06	107.38	30.85	130.906	0.000	3.7
		COV	0.0	0.012	0.007	0.007	0.037	0.008	0.213	2.582	0.346	0.070	0.235	0.172	0.177	0.000	0.060

Exposure Time: 0:32:38

Tr1=20110526162208.riv; Tr2=20110526163935.riv;

Comments																	
Tr1=20110526162208.riv - ; Tr2=20110526163935.riv - ;																	

Compass Calibration																	
File Name: CompassCal20110526161726.txt																	
Results: PASS																	
Score is excellent.																	
Magnetic interference is very low.																	
Calibration score: M3.00Q9																	

System Test																	
File Name: SystemTest20110526161642.txt																	
System Test: PASS																	

Parameters and settings marked with a * are not constant for all files.

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