

9-275-1	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No.	16
Station Number		ADCP Discharge Measurement Notes				Processed by	SS
363480 39 25 1201						Checked by	
Station Name: OUTFLOW NR NEW MADRID							
Date	5-22	.20	11	Party	ESS/TL	Gage Height	Discharge
Width	150	0.00		Velocity			
Gage Height Change	150	0.00		Meas. plots			
				From rating			
				No.			
				Shift			
ADCP Mfr / Model / Frequency		Serial No.		Firmware		Software	
SONTEK / MQ / 3MA / 1MH		1456		1.50		2.50	
Boat/Motors Used		GPS Used		ADCP Depth		Diag. Test / Errors?	
MOUSE CBLPZEE		SONTEK M9		2.10		Y or N	
Compass Calib. & Total Error		Mag. Var		MagVar Method		Moving Bed?	
Y or N		M1199		On-site Model		Previous	
		-1.3				Y or N	
Meas. Water Temp		ADCP Water Temp		Weather / Air Temp		Wind Speed / Dir	
19.9		120.2		CLR WARM		15-25 SSW	
Gage Readings							
Time				Inside	Outside	Site Conditions	
1202						Max Water Depth	
1338						Max Water Speed	
						Max Boat Speed	
						Water Mode	
						Bottom Mode	
						Streambed material	
						Salinity	
						ppt at	
						Checkbar found	
						Checkbar changed to:	
						at	
Wading, cable, ice (booi, upstr., downstr., side bridge)							
Measurement rated: excellent (2%), good (5%), fair (8%), poor (15%) based on following conditions							
Flow: VERY STRONG SOUTH WIND - WATER VERY							
Cross-section: ENOPEY							
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: Sunday, May 22, 2011

Site Information		Measurement Information	
Site Name	Outflow	Party	ESS/TL
Station Number		Boat/Motor	MO WSC Blazer
Location	Nr New Madrid	Meas. Number	

System Information		System Setup		Units	
System Type	RS-M9	Transducer Depth (ft)	2.10	Distance	ft
Serial Number	1456	Salinity (ppt)	0.0	Velocity	ft/s
Firmware Version	1.50	Magnetic Declination (deg)	-1.3	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)	15,525.48
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	149,748.2
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	0.581
		Bottom Fit Type	Power Fit	Total Q (cfs)	87,004.001

Measurement Results																	
Tr	Time		Temp.	Distance			Area	Mean Vel		Discharge						LCTotal	Measured
#	Time	Duration		Track	DMG	Width		Boat	Water	Left	Right	Top	Middle	Bottom	Total		
1	R 12:02:21 PM	0:47:55	69.0	16,097.02	15,267.79	15,422.79	152,184.5	5.599	0.582	67.33	102.13	24,881.46	53,463.56	10,118.86	88,633.338	--	60.3
2	L 12:50:38 PM	0:47:23	71.8	16,117.75	15,449.16	15,628.16	147,311.8	5.669	0.580	104.21	82.77	24,485.69	50,434.06	10,267.93	85,374.655	--	59.1
		Mean	70.4	16,107.38	15,358.48	15,525.48	149,748.2	5.634	0.581	85.77	92.45	24,683.57	51,948.81	10,193.39	87,004.001	0.000	59.7
		Std Dev	1.4	10.37	90.68	102.68	2,436.4	0.035	0.001	18.44	9.68	197.89	1,514.75	74.53	1,629.342	0.000	0.6
		COV	0.0	0.001	0.006	0.007	0.016	0.006	0.002	0.215	0.105	0.008	0.029	0.007	0.019	0.000	0.010

Exposure Time: 1:35:18

Tr1=20110522120220r.rivr; Tr2=20110522125038r.rivr;

Comments	
Tr1=20110522120220r.rivr - ; Tr2=20110522125038r.rivr - ;	

Compass Calibration	
File Name: CompassCal20110522091012.txt	
Results: PASS	
Score is excellent.	
Magnetic interference is fairly low.	
Calibration score: M11.00Q9	

System Test	
File Name: SystemTest20110522090928.txt	
System Test: PASS	

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

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