

9-275-1	10/24/08	U.S. DEPARTMENT OF THE INTERIOR U.S. Geological Survey				Meas. No. 18
Station Number		ADCP Discharge Measurement Notes				Processed by SS
363618089251201						Checked by SS
Station Name		OUTFLOW NR NEW MADRID				
Date	5-24-11	Party	ESS/TL		Gage Height	Discharge
Width	Area / Rated Area	Velocity				
15500	122,000	.44				54,000
Gage Height Change	Meas. plots	From rating	Shift		ADCP Sync'd to WT	
	hrs.	% diff	No.		(Y) at	N or N
ADCP Mfr / Model		Frequency	Serial No.	Firmware	Software	
SONTEK / NA / 3MH, 1MH			1155	1.50	2.50	
Boat/Motors Used		GPS Used	ADCP Depth	Diag. Test / Errors?		
UBIUSC BLAZER		SONTEK M9	25		Y or N	
Compass Calib. & Total Error	Mag. Var	MagVar Method	Moving Bed?			
Y or N	M309	-1.3	On-site Model	Previous	Y or N	
Meas. Water Temp	ADCP Water Temp	Weather / Air Temp	Wind Speed / Dir.			
23.6 °F @	22.9 °F / C at	22.9	15-10	55E		
Gage Readings						
Time		Inside	Outside		Site Conditions	
1658					Max Water Depth	
					Max Water Speed	
					Max Boat Speed	
					Water Mode	
1737					Bottom Mode	
					Streambed material	
					Salinity	
					ppt at	
Weighted MGH					Checkbar found	
GH corrections					Checkbar changed to:	
Correct MGH					at	
Wading, cable, ice, bank 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	FAIRLY EVEN - SLOW					
Gross section:	FAIRLY EVEN					
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			
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: Tuesday, May 24, 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)	0.25	Distance	ft
Serial Number	1155	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)	15,499.97
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	121,609.0
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	0.444
		Bottom Fit Type	Power Fit	Total Q (cfs)	54,034.842

Measurement Results																
Tr	Time		Distance				Mean Vel		Discharge						% Measured	
#	Time	Duration	Temp	Track	DMG	Width	Area	Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal
1 R	4:58:19 PM	0:39:10	75.3	16,132.03	15,317.97	15,499.97	121,609.0	6.865	0.444	69.12	48.61	5,153.04	40,548.16	8,215.90	54,034.842	--
		Mean	75.3	16,132.03	15,317.97	15,499.97	121,609.0	6.865	0.444	69.12	48.61	5,153.04	40,548.16	8,215.90	54,034.842	0.000
		Std Dev	0.0	0.00	0.00	0.00	0.0	0.000	0.000	0.00	0.00	0.00	0.00	0.00	0.000	0.000
		COV	0.0	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Exposure Time: 0:39:10

Tr1=20110524165818r.rivr;

Comments																
Tr1=20110524165818r.rivr - ;																

Compass Calibration																
File Name: CompassCal20110524165454.txt																
Results: PASS																
Score is excellent.																
Magnetic interference is very low.																
Calibration score: M3.00Q9																

System Test																
File Name: SystemTest20110524092046.txt																
System Test: PASS																

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

Report generated using SonTek RiverSurveyor Live v2.50

ONLY 1 TRANSECT USED DUE TO ERRONEOUS WATER VELOCITIES/AREAS ON OTHER TRANSECTS.