

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		Inflow / Outflow /					
Date	06-05, 20 11	Party		BR/2M			
Width	Area / Rated Area	Velocity	Index Vel.	Gage Height	Discharge		
417	13,820	0.263	—	—	3,631		
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			2016	1.50	2.50		
Boat/Motors Used			GPS Used	ADCP Depth	Diag. Test / Errors?		
			NO	0.3	<input checked="" type="checkbox"/> Y or <input checked="" type="checkbox"/> N		
Compass Calib. & Total Error		Mag. Var	MagVar Method		Moving Bed?		
(Y or N) M2Q9		-1.4	On-site Model Previous		Y or N		
Meas. Water Temp		ADCP Water Temp	Weather / Air Temp		Wind Speed / Dir.		
79 °F / C at		82 °F / C at			°F / C		
Gage Readings					Site Conditions		
Time			Inside	Outside	Max Water Depth		
					Max Water Speed		
S 1205					Max Boat Speed		
					Water Mode		
F 1212					Bottom Mode		
					Streambed material		
					Salinity		
					ppt at		
Weighted MGH					Checkbar found		
GH corrections					Checkbar 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: Sunday, June 05, 2011

Site Information		Measurement Information	
Site Name	inflow outflow 1	Party	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)	-1.4	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)	416.98
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	13,819.7
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	0.263
		Bottom Fit Type	Power Fit	Total Q (cfs)	3,631.460

Measurement Results																	
Tr	Time		Temp.	Distance			Area	Mean Vel		Discharge							%
#	Time	Duration		Track	DMG	Width		Boat	Water	Left	Right	Top	Middle	Bottom	Total	LCTotal	
1	R 12:05:49 PM	0:02:47	82.6	413.43	406.63	419.75	14,204.2	2.476	0.256	-1.07	0.31	210.05	2,818.86	603.94	3,632.080	--	77.6
2	L 12:08:55 PM	0:02:57	82.2	409.42	401.10	414.22	13,435.3	2.313	0.270	0.35	0.81	211.69	2,806.50	611.49	3,630.840	--	77.3
		Mean	82.4	411.43	403.86	416.98	13,819.7	2.394	0.263	-0.36	0.56	210.87	2,812.68	607.71	3,631.460	0.000	77.5
		Std Dev	0.2	2.01	2.76	2.76	384.5	0.081	0.007	0.71	0.25	0.82	6.18	3.78	0.620	0.000	0.2
		COV	0.0	0.005	0.007	0.007	0.028	0.034	0.028	1.975	0.447	0.004	0.002	0.006	0.000	0.000	0.002

Exposure Time: 0:05:44

Tr1=20110605120548.riv; Tr2=20110605120854.riv;

Comments																	
Tr1=20110605120548.riv - ; Tr2=20110605120854.riv - ;																	

Compass Calibration																	
File Name: CompassCal20110605120341.txt																	
Results: PASS																	
Score is excellent.																	
Magnetic interference is very low.																	
Calibration score: M2.00Q9																	

System Test																	
Not Loaded																	

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

Report generated using SonTek RiverSurveyor Live v2.50