

# Discharge Measurement Summary

Date Measured: Tuesday, May 10, 2011

Site Information		Measurement Information	
Site Name	Middle Breach	Party	BB,SS
Station Number		Boat/Motor	wooldridge
Location	Big Oak State Park	Meas. Number	

System Information		System Setup		Units	
System Type	RS-M9	Transducer Depth (ft)	1.35	Distance	ft
Serial Number	1155	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)	945.23
Depth Reference	Vertical Beam	Right Method	Sloped Bank	Area (ft2)	12,512.5
Coordinate System	ENU	Top Fit Type	Power Fit	Mean Speed (ft/s)	1.896
		Bottom Fit Type	Power Fit	Total Q (cfs)	23,464.469

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
6	L 01:38:23 PM	0:04:06	63.9	1,204.39	1,139.92	1,139.92	14,654.8	4.896	1.680	0.00	0.00	3,785.20	17,606.69	3,232.92	24,624.800	--	71.5
7	R 01:42:43 PM	0:03:20	64.5	1,015.43	918.37	918.37	12,497.2	5.077	1.637	0.00	0.00	3,130.24	14,668.66	2,663.37	20,462.269	--	71.7
8	L 01:46:16 PM	0:02:55	64.1	965.36	918.62	918.62	12,321.8	5.516	2.092	0.00	0.00	3,974.26	18,422.22	3,381.13	25,777.601	--	71.5
9	R 01:49:35 PM	0:03:07	64.1	896.02	804.02	804.02	10,576.1	4.792	2.174	0.00	0.00	3,582.44	16,343.42	3,067.34	22,993.200	--	71.1
		Mean	64.1	1,020.30	945.23	945.23	12,512.5	5.070	1.896	0.00	0.00	3,618.03	16,760.25	3,086.19	23,464.469	0.000	71.4
		Std Dev	0.2	114.43	121.73	121.73	1,447.1	0.277	0.239	0.00	0.00	313.87	1,416.61	268.16	1,995.761	0.000	0.2
		COV	0.0	0.112	0.129	0.129	0.116	0.055	0.126	0.000	0.000	0.087	0.085	0.087	0.085	0.000	0.003

Exposure Time: 0:13:28

Tr6=20110510133822r.rivr; Tr7=20110510134242r.rivr; Tr8=20110510134616r.rivr; Tr9=20110510134934r.rivr;

Comments																	
Tr6=20110510133822r.rivr - ; Tr7=20110510134242r.rivr - ; Tr8=20110510134616r.rivr - ; Tr9=20110510134934r.rivr - ;																	

Loop Method					
DMG	Loop Time	Moving Bed Velocity	Moving Bed Direction	Flow Direction	Estimated Percent Correction
1,293.19	277	4.67	6.80	21.70	605.60
File Name: Loop_20110510135328r.rivr					
Percent Bad Bottom Track: 3.6.					
Difference in flow direction between out and back sections: 139.5 deg.					
WARNING: Difference in flow direction between out and back sections of loop exceeds 5 degrees. This may indicate an inaccurate compass and the loop may not be accurate. Please review data.					
Loop Closure Error not in Upstream Direction -- No Correction Recommended.					

Compass Calibration	
File Name: CompassCal20110510131113.txt	
Results: PASS	
Score is excellent.	
Magnetic interference is fairly low.	
Calibration score: M19.00Q9	

System Test	
File Name: SystemTest20110510130951.txt	
System Test: PASS	

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

Report generated using SonTek RiverSurveyor Live v2.50