



QRev Discharge Measurement Report

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Station Name: 05162024_DiamondBridge

Station Number: None

Measurement Date: 2024.05.16

Measurement Number: 0

Discharge: 355.6

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.18 12:39:46

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	355.6	Mean Velocity (ft/s):	1.791
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.609
Version:	4.37	Total Duration (s):	1422.0	Mean Depth (ft):	5.758
ADCP		Start Time:	15:40:30	Max. Depth (ft):	7.262
Manufacturer:	TRDI	End Time:	16:03:47	Width (ft):	34.708
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	12.15
Serial Number:	2673	Stage End:	0.00	Area (ft2):	198.789
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	6.42
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.190	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	13.927778	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.8 COV Systematic Edges Extrap. Moving-bed Invalid 0204060 Percent of Total	
W. Temp. ADCP (C):		Extrap Exponent:	0.3509		
System Test:	Passed	Discharg COV (%):	5.10		
Compass Cal/Eval:	0.69	Top Q (%):	5.70		
Magnetic Variaton:	13.5	Measured Q (%):	79.01		
MovBed Test Type:	Loop	Left Q (%):	3.29		
MovBed Test Quality:	Warnings	Right Q (%):	2.99		
MovBed Test Dur.(s):	242.6	Bottom Q (%):	9.01		
Max MovBed (%):	0.84	Invalid Cells Q (%):	0.06		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.70		

Automated QA Messages:

WARNINGS

- MOVING-BED TEST: Duplicate moving-bed test files marked valid;
- TEMPERATURE: The difference between ADCP and reference is > 2: 2.4 C;

Cautions

- bt-Int. Q for consecutive invalid ensembles exceeds 3.0%;
- Edges: Excessive boat movement in edge ensembles;
- Edges: The percent of invalid ensembles exceeds 25% in one or more transects.
- Site Info: Station number not entered;
- Moving-Bed Test: User modified valid test settings.

Comments:

- MMT Remarks:



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Comments:

- [MovBedTst, 2024-06-23 18:09:36, sarah]: Cannot determine how to choose only 1 moving bed test, will return later to fix.
- [Temp/Sal, 2024-06-23 18:10:11, sarah]: Temperature measurement taken from mid-channel on bridge, cannot rectify difference.
- [2024-06-23 18:11:47, sarah]: File Saved Q = 349.30 ft³/s (Uncertainty: 9.1%)
- [Main, 2024-07-14 10:04:03, sarah]: Return to moving bed issue, cannot uncheck moving bed test if no corrected is necessary. Reprocessing unchecked transect 002 for excessive edge error issues in field that caused the transect to be restarted.
- [2024-07-14 10:06:12, sarah]: File Saved Q = 355.60 ft³/s (Uncertainty: 6.8%)
- [MovBedTst, 2024-08-18 12:38:01, sarah]: No moving bed, unchecking initial incomplete loop test.
- [2024-08-18 12:39:41, sarah]: File Saved Q = 355.60 ft³/s (Uncertainty: 6.8%)

ID	File Name
0	0_000_24-05-16.PD0
1	0_001_24-05-16.PD0
3	0_003_24-05-16.PD0
4	0_004_24-05-16.PD0
5	0_005_24-05-16.PD0
6	0_006_24-05-16.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft ³ /s)	Middle Q (ft ³ /s)	Bottom Q (ft ³ /s)	Left Q (ft ³ /s)	Right Q (ft ³ /s)	Total Q (ft ³ /s)
0	Left	15:40:30	15:44:52	262.2	23.17	302.58	36.37	4.15	12.5	378.77
1	Right	15:45:11	15:49:27	255.6	20.95	281.38	30.24	12.25	12.93	357.74
3	Left	15:50:21	15:54:16	234.8	20.14	295.89	34.02	14.89	9.74	374.68
4	Right	15:54:30	15:58:37	247.5	19.79	279.05	28.79	10.88	9.05	347.56
5	Left	16:00:08	16:03:38	210.4	19.36	263.25	30.18	12.13	10.03	334.94
6	Right	16:03:47	16:07:19	211.6	18.24	263.62	32.57	15.91	9.54	339.89
				1422.0	20.27	280.96	32.03	11.7	10.63	355.6



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Measurement Number: 0

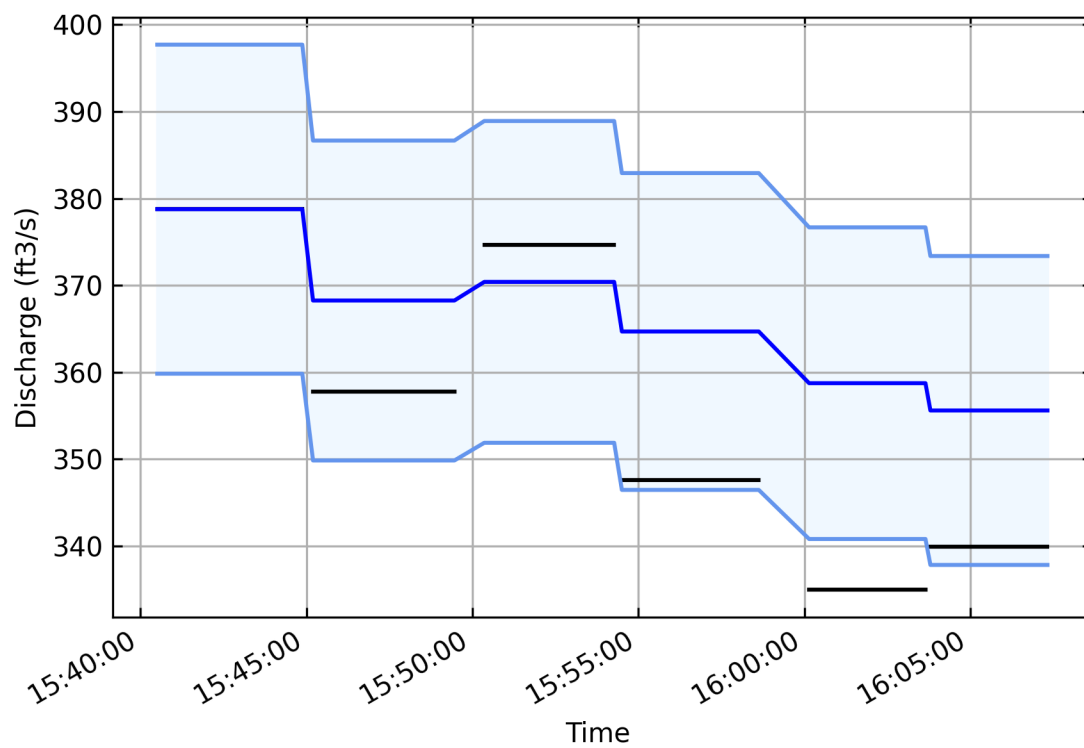
Discharge: 355.6

Stage: 0.00

User Rating: Not Rated

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Transect ID	Start Edge	Left Edge Type	Left Dist. (ft)	Left Edge # Ens.	Left Edge Coeff.	Right Edge Type	Right Dist. (ft)	Right Edge # Ens.	Right Edge Coeff.
0	Left	Triangular	3.50	10	0.3535	Triangular	4.00	10	0.3535
1	Right	Triangular	3.50	10	0.3535	Triangular	4.00	10	0.3535
3	Left	Triangular	4.00	10	0.3535	Triangular	3.50	10	0.3535
4	Right	Triangular	4.00	10	0.3535	Triangular	3.50	10	0.3535
5	Left	Triangular	4.00	10	0.3535	Triangular	3.50	10	0.3535
6	Right	Triangular	4.00	10	0.3535	Triangular	3.50	10	0.3535





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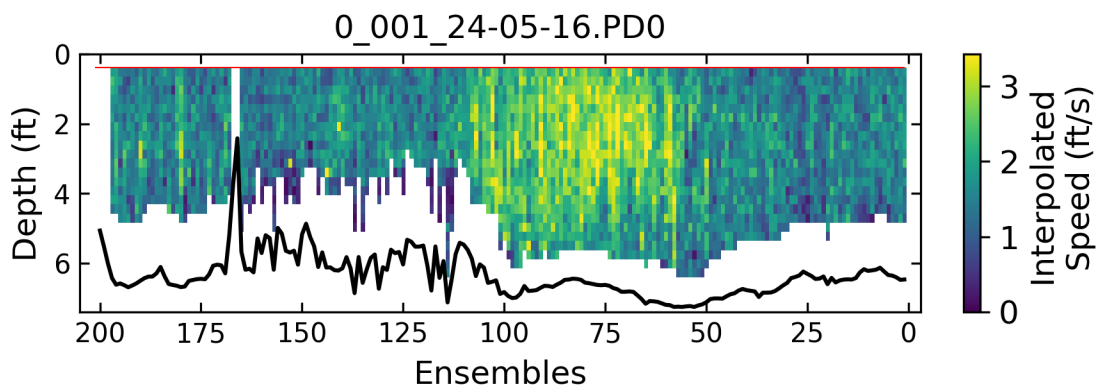
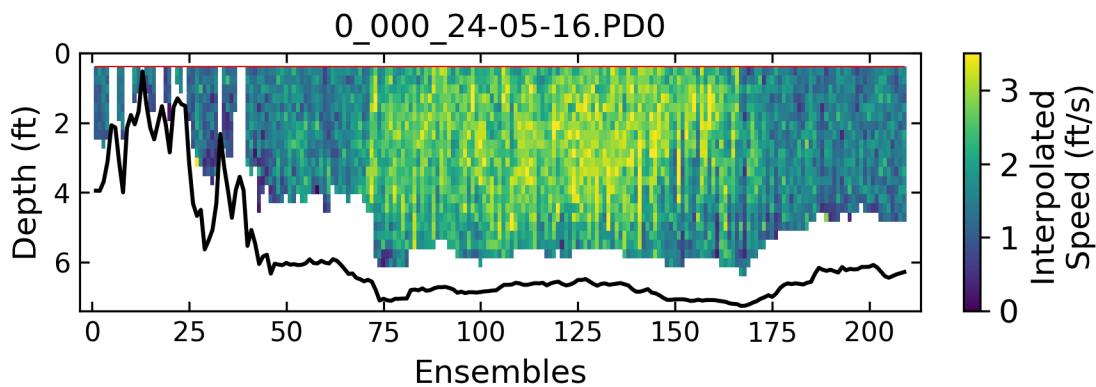
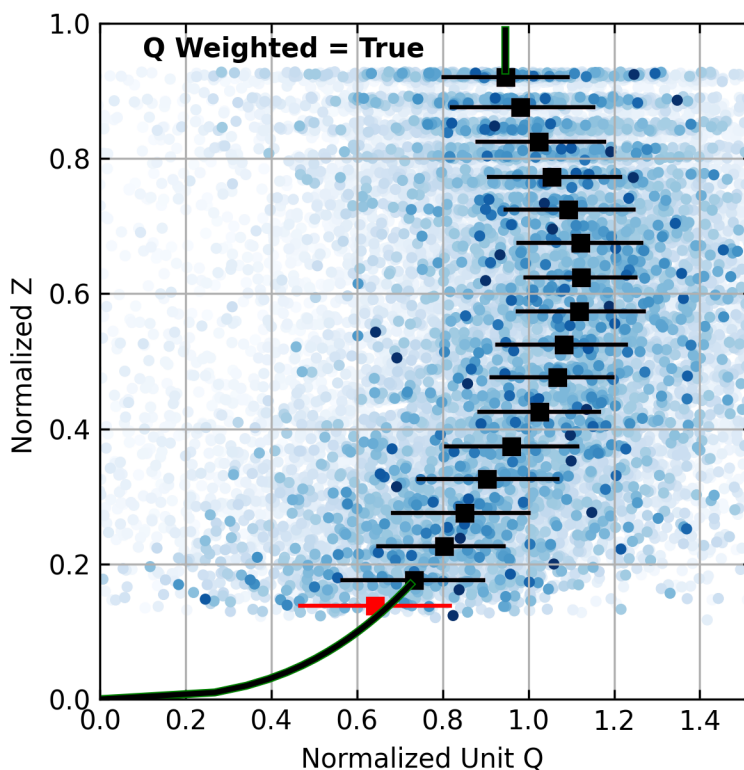
Measurement Number: 0

Discharge: 355.6

Stage: 0.00

User Rating: Not Rated

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