



QRev Discharge Measurement Report

1 of 4

Station Name: 06212024_Sodhouse

Station Number:

Measurement Date: 2024.06.21

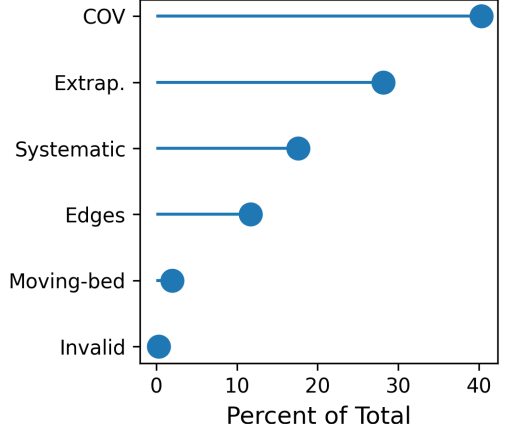
Measurement Number: 0

Discharge: 180.41

Stage: 0.00

User Rating: Not Rated

Processed: 2024.08.08 08:33:12

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	180.41	Mean Velocity (ft/s):	1.262
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.698
Version:	4.37	Total Duration (s):	890.8	Mean Depth (ft):	4.814
ADCP		Start Time:	16:28:35	Max. Depth (ft):	6.723
Manufacturer:	TRDI	End Time:	16:40:26	Width (ft):	29.685
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.32
Serial Number:	2673	Stage End:	0.00	Area (ft2):	142.905
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.23
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.139	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	19.488889	Bottom Extrap:	No Slip	95% Total Uncertainty: 7.2 	
W. Temp. ADCP (C):		Extrap Exponent:	1.0000		
System Test:	Passed	Discharg COV (%):	2.85		
Compass Cal/Eval:	0.10	Top Q (%):	7.80		
Magnetic Variaton:	13.5	Measured Q (%):	78.84		
MovBed Test Type:	Loop	Left Q (%):	3.55		
MovBed Test Quality:	Warnings	Right Q (%):	4.60		
MovBed Test Dur.(s):	307.4	Bottom Q (%):	5.21		
Max MovBed (%):	0.36	Invalid Cells Q (%):	0.06		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.87		

Automated QA Messages:

WARNINGS

Cautions

- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Moving-Bed Test: The moving-bed test(s) has warnings, please review tests to determine validity;
- Site Info: Station number not entered;
- Extrapolation: User modified default automatic setting.

Comments:

- MMT Remarks:
- [MovBedTst, 2024-08-08 08:27:33, sarah]: Critical error on moving bed test addressed by using the following weeks moving bed measurement, very similar conditions of low and slow moving water. Issues likely due to vegetation growing in transect that will be cleaned before next measurement.



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Comments:

- [Extrap, 2024-08-08 08:29:23, sarah]: Automated extrapolation chosen best fit.
- [Temp/Sal, 2024-08-08 08:29:57, sarah]: Temperature metric used is less than two degrees difference.
- [Main, 2024-08-08 08:30:34, sarah]: No site number for this location.
- [Main, 2024-08-08 08:32:03, sarah]: Transects 000 and 001 removed in WinRiver due to greater than average Q on right transect, resolved temperature issue.
- [2024-08-08 08:33:07, sarah]: File Saved Q = 180.41 ft³/s (Uncertainty: 7.2%)

ID	File Name
2	0_002_24-06-21.PD0
3	0_003_24-06-21.PD0
4	0_004_24-06-21.PD0
5	0_005_24-06-21.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)
2	Left	16:28:35	16:33:19	283.6	13.97	139.61	8.55	5.34	8.1	175.57
3	Right	16:33:26	16:36:44	197.4	14.46	149.25	8.81	6.18	8.82	187.53
4	Left	16:36:57	16:40:21	203.2	13.89	140.88	8.67	6.94	7.7	178.08
5	Right	16:40:26	16:43:52	206.6	13.98	139.16	11.54	7.16	8.6	180.44
				890.8	14.08	142.23	9.39	6.41	8.3	180.41

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.
2	Left	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
3	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
4	Left	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
5	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535



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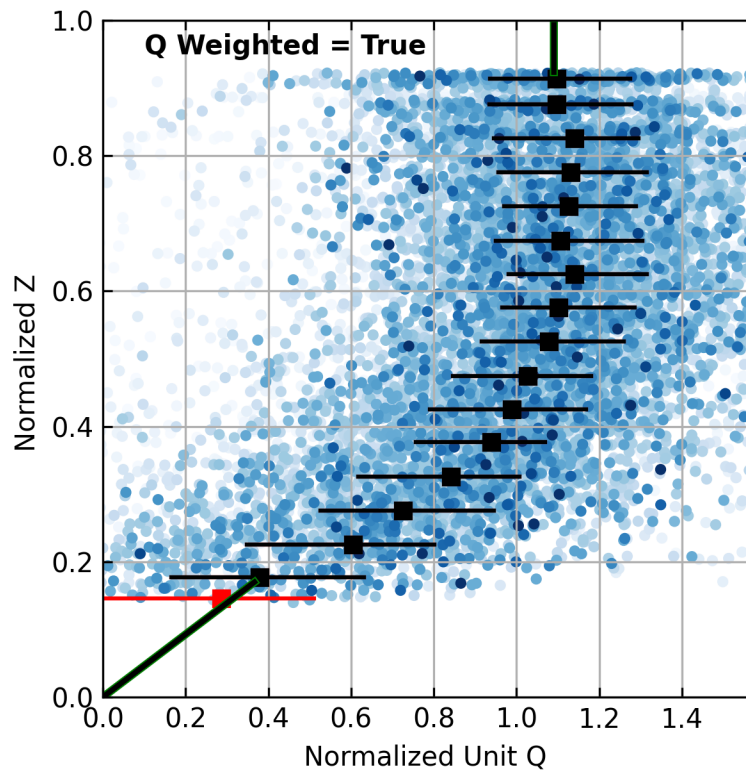
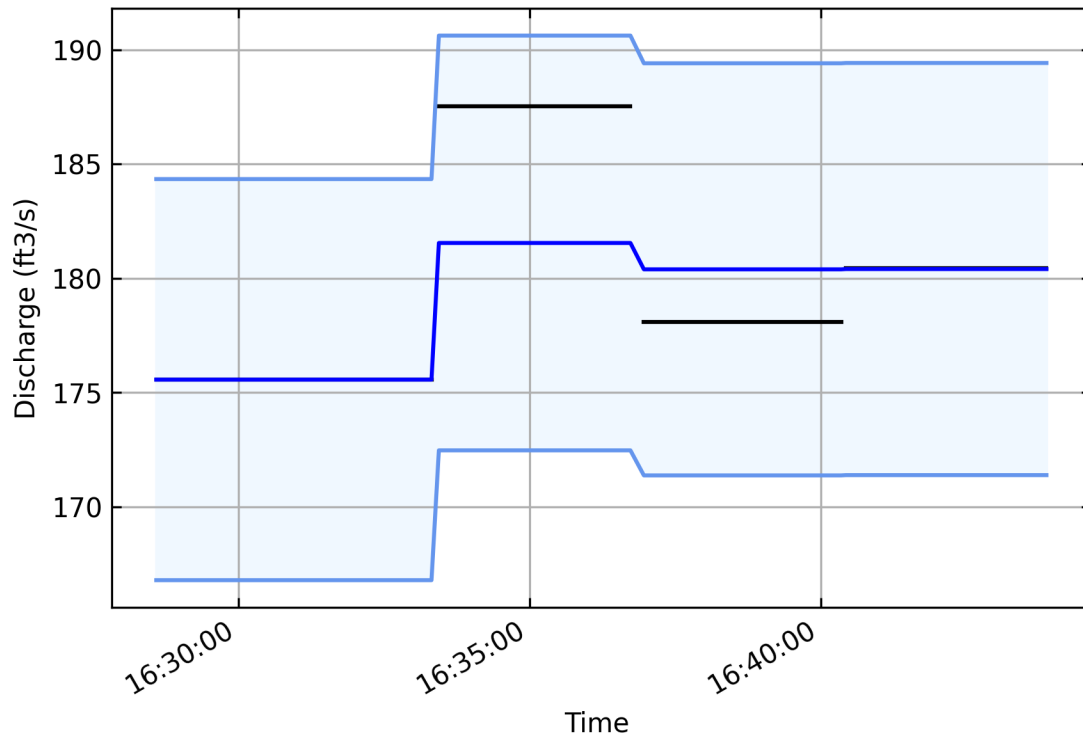
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