



QRev Discharge Measurement Report

1 of 4

Station Name: 06212024_Diamond

Station Number:

Measurement Date: 2024.06.21

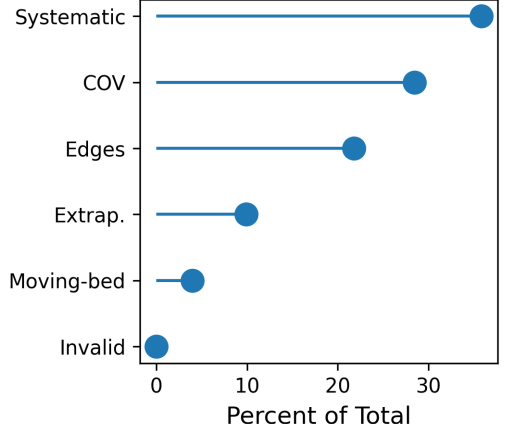
Measurement Number: 0

Discharge: 122.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 12:08:51

Field Crew:		Discharge Summary		Cross Section	
Processed By:	sarah	Discharge (ft3/s):	122.0	Mean Velocity (ft/s):	1.377
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.458
Version:	4.36	Total Duration (s):	825.6	Mean Depth (ft):	2.997
ADCP		Start Time:	13:04:30	Max. Depth (ft):	4.277
Manufacturer:	TRDI	End Time:	13:26:49	Width (ft):	29.791
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.61
Serial Number:	2673	Stage End:	0.00	Area (ft2):	89.300
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	7.38
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.214	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	16.422222	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.0 	
W. Temp. ADCP (C):		Extrap Exponent:	0.3900		
System Test:	Passed	Discharg COV (%):	1.68		
Compass Cal/Eval:	0.38	Top Q (%):	11.54		
Magnetic Variaton:	13.5	Measured Q (%):	72.08		
MovBed Test Type:	Loop	Left Q (%):	7.35		
MovBed Test Quality:	Warnings	Right Q (%):	-0.45		
MovBed Test Dur.(s):	262.2	Bottom Q (%):	9.49		
Max MovBed (%):	0.73	Invalid Cells Q (%):	-0.05		
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.40		

Automated QA Messages:

WARNINGS

- Edges: Edge Q is greater than 5%;
- TEMPERATURE: The difference between ADCP and reference is > 2: 3.3 C;

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Moving-Bed Test: The moving-bed test(s) has warnings, please review tests to determine validity;
- Site Info: Station number not entered;
- BT: User modified default vertical velocity filter.

Comments:

- MMT Remarks:
- [BT, 2024-07-14 12:03:43, sarah]: Had an issue on right edge with eddy pulling ADCP under bridge, will likely need to begin flow tracking site due to this.



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Comments:

- [BT, 2024-07-14 12:05:34, sarah]: Adjusted vertical velocity filter to off on transect 001.
- [Edges, 2024-07-14 12:07:05, sarah]: Deep left edge Q% cannot be rectified.
- [Main, 2024-07-14 12:07:37, sarah]: ADCP allowed to equilibrate with reference sonde (Independent) in water for 10 minutes, cannot rectify difference and may need to adjust to constant independent temperature due to temp gradient across channel.
- [2024-07-14 12:08:47, sarah]: File Saved Q = 122.36 ft3/s (Uncertainty: 5.0%)

ID	File Name
0	0_000_24-06-21.PD0
1	0_001_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 (ft3/s)	Middle	Bottom	Left Q (ft3/s)	Right Q (ft3/s)	Total Q (ft3/s)
						Q (ft3/s)	Q (ft3/s)			
0	Left	13:04:30	13:08:02	211.3	13.9	89.6	8.24	9.34	-0.419	121.0
1	Right	13:10:03	13:14:01	238.5	15.6	88.1	13.9	7.86	-0.675	125.0
4	Left	13:23:54	13:26:42	167.2	12.3	87.3	10.6	10.6	-0.259	121.0
5	Right	13:26:49	13:30:18	208.6	14.6	87.8	13.8	8.16	-0.865	123.0
				825.6	14.1	88.2	11.6	8.99	-0.554	122.0

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	1.22	10	0.3535	Triangular	1.07	10	0.3535
1	Right	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535
4	Left	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535
5	Right	Triangular	1.22	10	0.3535	Triangular	1.07	10	0.3535



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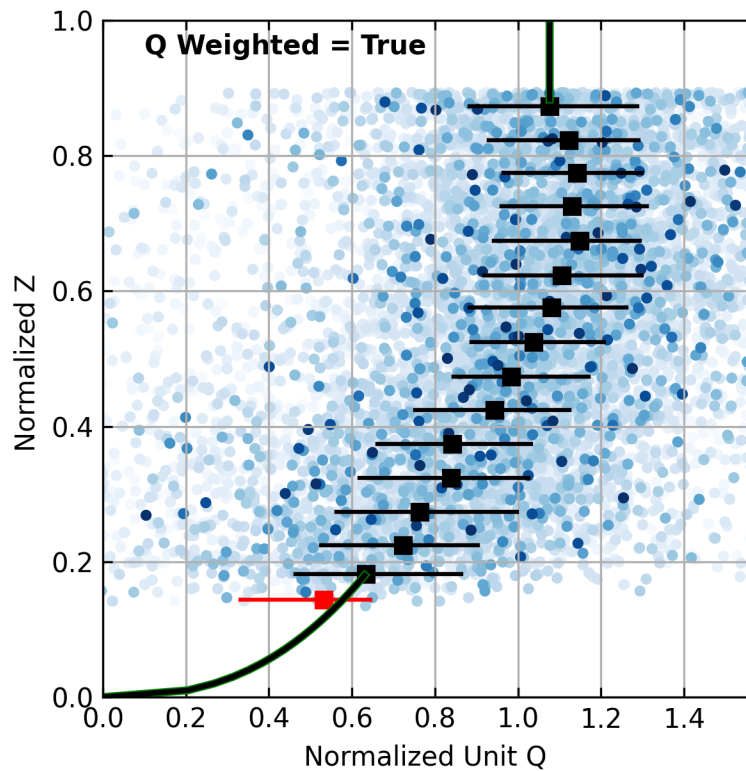
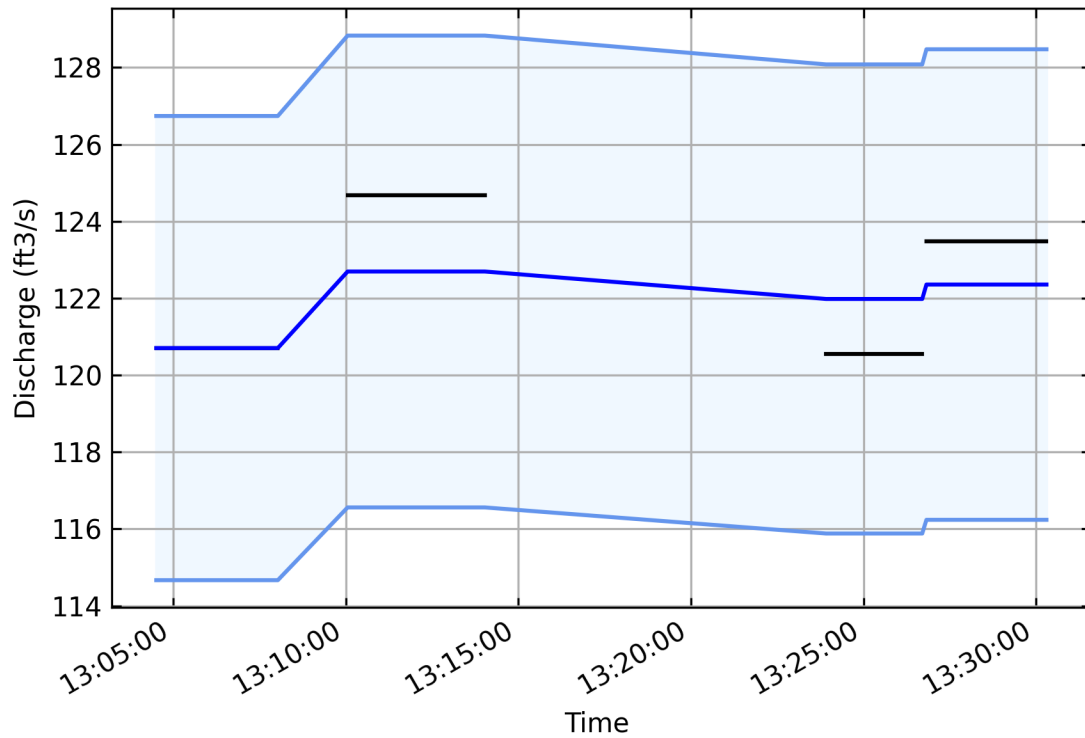
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