



QRev Discharge Measurement Report

1 of 4

Station Name: 08202025_S3Diamond

Station Number:

Measurement Date: 2025.08.20

Measurement Number: 0

Discharge: 63.19

Stage: 0.00

User Rating: Not Rated

Processed: 2025.08.21 13:03:30

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	63.19	Mean Velocity (ft/s):	1.161														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.093														
Version:	4.37	Total Duration (s):	821.1	Mean Depth (ft):	2.061														
ADCP		Start Time:	12:03:10	Max. Depth (ft):	2.972														
Manufacturer:	TRDI	End Time:	12:26:24	Width (ft):	26.423														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.13														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	54.448														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.31														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.133	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	19.238889	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.1 <table><thead><tr><th>Factor</th><th>Percent of Total</th></tr></thead><tbody><tr><td>Systematic</td><td>35</td></tr><tr><td>COV</td><td>32</td></tr><tr><td>Extrap.</td><td>20</td></tr><tr><td>Edges</td><td>8</td></tr><tr><td>Moving-bed</td><td>4</td></tr><tr><td>Invalid</td><td>1</td></tr></tbody></table>		Factor	Percent of Total	Systematic	35	COV	32	Extrap.	20	Edges	8	Moving-bed	4	Invalid	1
Factor	Percent of Total																		
Systematic	35																		
COV	32																		
Extrap.	20																		
Edges	8																		
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Invalid	1																		
W. Temp. ADCP (C):		Extrap Exponent:	0.3750																
System Test:	Passed	Discharg COV (%):	1.83																
Compass Cal/Eval:	0.53	Top Q (%):	21.20																
Magnetic Variaton:	13.5	Measured Q (%):	59.75																
MovBed Test Type:	Loop	Left Q (%):	3.55																
MovBed Test Quality:	Warnings	Right Q (%):	1.30																
MovBed Test Dur.(s):	269.1	Bottom Q (%):	14.19																
Max MovBed (%):	0.56	Invalid Cells Q (%):	0.05																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.08																

Automated QA Messages:

WARNINGS

Cautions

- Edges: Sign of edge Q is not consistent;
- 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;

Comments:

- MMT Remarks:



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Comments:

- [Main, 2025-08-21 12:59:43, ADCPH]: There is no station number for this location. Right side of channel with slack water still causing excessive boat movement issues. User was able to redo transects that were as perpendicular to flow as possible. One right edge of transect 002 shows negative Q, and the velocity vectors exemplify the issues with water flow on this side of the transect. The extrapolation was reviewed, and is also a result of the right side water flow issues, the software has chosen the best fit extrapolation. The moving bed test has warnings due to BT loss, however, a moving bed was not present and thus the test was not repeated. Measurement conditions were sunny and warm (mid 70s F), with some northerly winds.
- [2025-08-21 13:03:25, ADCPH]: File Saved Q = 63.19 ft³/s (Uncertainty: 5.1%)

ID	File Name
0	08202025_S3Diamond_0_000_25-08-20.PD0
1	08202025_S3Diamond_0_002_25-08-20.PD0
2	08202025_S3Diamond_0_004_25-08-20.PD0
4	08202025_S3Diamond_0_006_25-08-20.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft3/s)	Middle Q (ft3/s)	Bottom Q (ft3/s)	Left Q (ft3/s)	Right Q (ft3/s)	Total Q (ft3/s)
0	Left	12:03:10	12:06:49	219.4	13.13	37.68	9.32	2.39	1.1	63.61
1	Right	12:08:46	12:12:06	200.5	14.09	38.37	9.33	2.16	-0.23	63.71
2	Left	12:16:52	12:20:20	207.9	13.17	38.1	9.0	2.45	1.24	63.96
4	Right	12:26:24	12:29:37	193.3	13.2	36.86	8.24	1.99	1.19	61.47
				821.1	13.4	37.75	8.97	2.25	0.82	63.19

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	2.00	10	0.3535	Triangular	3.50	10	0.3535
1	Right	Triangular	2.00	10	0.3535	Triangular	3.50	10	0.3535
2	Left	Triangular	2.00	10	0.3535	Triangular	3.50	10	0.3535
4	Right	Triangular	2.00	10	0.3535	Triangular	3.50	10	0.3535



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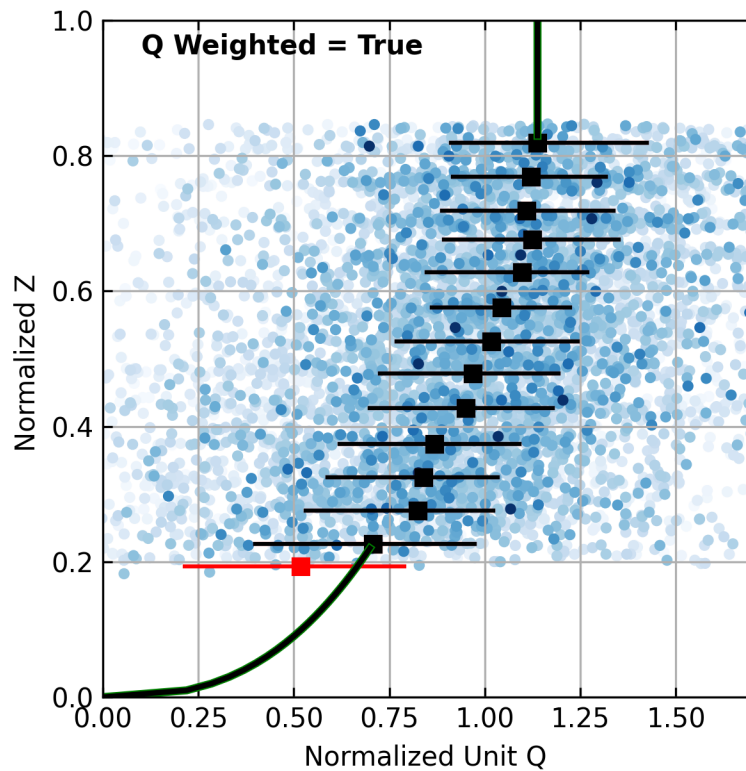
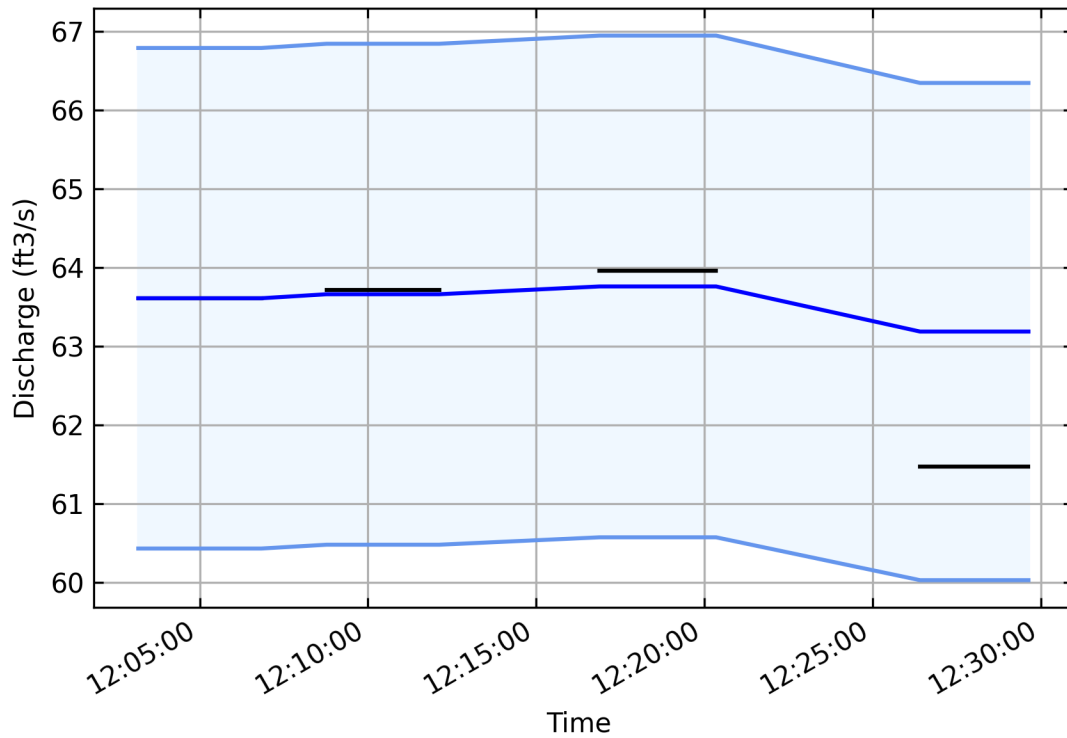
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