

Station Name: 05202025_S3Diamond

Station Number:

Measurement Date: 2025.05.20

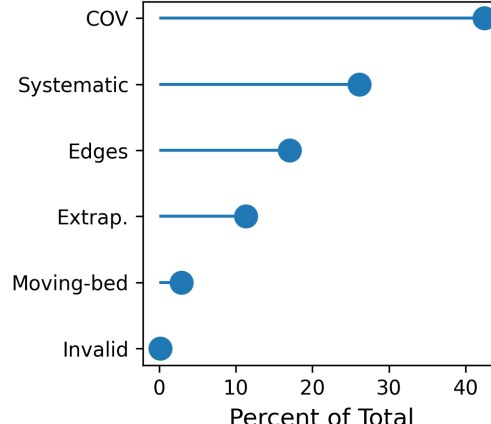
Measurement Number: 0

Discharge: 369.0

Stage: 0.00

User Rating: Not Rated

Processed: 2025.05.27 10:51:26

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	369.0	Mean Velocity (ft/s):	1.558														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.171														
Version:	4.36	Total Duration (s):	889.0	Mean Depth (ft):	5.996														
ADCP		Start Time:	11:37:27	Max. Depth (ft):	7.787														
Manufacturer:	TRDI	End Time:	11:49:12	Width (ft):	39.481														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.20														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	236.717														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.15														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.156	Uncertainty															
Premeasurement		Top Extrap:	Constant			Uncertainty Method:	QRev												
W. Temp. (C):	10.561111	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.9  <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>42%</td></tr><tr><td>Systematic</td><td>27%</td></tr><tr><td>Edges</td><td>18%</td></tr><tr><td>Extrap.</td><td>12%</td></tr><tr><td>Moving-bed</td><td>4%</td></tr><tr><td>Invalid</td><td>2%</td></tr></tbody></table>		Component	Percent of Total	COV	42%	Systematic	27%	Edges	18%	Extrap.	12%	Moving-bed	4%	Invalid	2%
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COV	42%																		
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W. Temp. ADCP (C):		Extrap Exponent:	0.3640																
System Test:	Passed	Discharg COV (%):	2.40																
Compass Cal/Eval:	0.75	Top Q (%):	5.59																
Magnetic Variaton:	1.5	Measured Q (%):	76.80																
MovBed Test Type:	Loop	Left Q (%):	3.56																
MovBed Test Quality:	Good	Right Q (%):	4.52																
MovBed Test Dur.(s):	278.6	Bottom Q (%):	9.52																
Max MovBed (%):	0.66	Invalid Cells Q (%):	0.07																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.09																

Automated QA Messages:WARNINGSCautions

- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-05-27 10:41:57, sarah]: There is no station number for this site. Hydrographer was able to clean transect better with new weed razer, however, there were still some issues with BT loss at both edges even after cleaning twice at areas with BT loss. Edges were larger than preferred due to BT loss as well as slow water velocity that pulled the ADCP towards the bridge. Given that this water was so slow moving, it's likely that the edges were not greater than five percent of the total discharge. Cloudy and cool measurement conditions caused no WT issues between the independent and the ADCP. Which are typically present when the ADCP is in direct sun.
- [2025-05-27 10:51:20, sarah]: File Saved Q = 368.73 ft3/s (Uncertainty: 5.9%)



QRev Discharge Measurement Report

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ID	File Name
0	05202025_S3Diamond_0_000_25-05-20.PD0
1	05202025_S3Diamond_0_001_25-05-20.PD0
2	05202025_S3Diamond_0_002_25-05-20.PD0
3	05202025_S3Diamond_0_003_25-05-20.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	11:37:27	11:40:58	210.2	21.3	294.0	37.5	11.7	15.8	380.0
1	Right	11:41:21	11:45:00	218.9	20.9	278.0	34.1	13.7	16.3	363.0
2	Left	11:45:13	11:48:56	223.0	20.9	283.0	37.4	13.5	16.5	372.0
3	Right	11:49:12	11:53:09	236.9	19.3	278.0	31.5	13.6	18.1	360.0
				889.0	20.6	283.0	35.1	13.1	16.7	369.0

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	1.83	10	0.3535	Triangular	1.83	10	0.3535
1	Right	Triangular	1.83	10	0.3535	Triangular	1.83	10	0.3535
2	Left	Triangular	1.83	10	0.3535	Triangular	1.83	10	0.3535
3	Right	Triangular	1.83	10	0.3535	Triangular	1.83	10	0.3535



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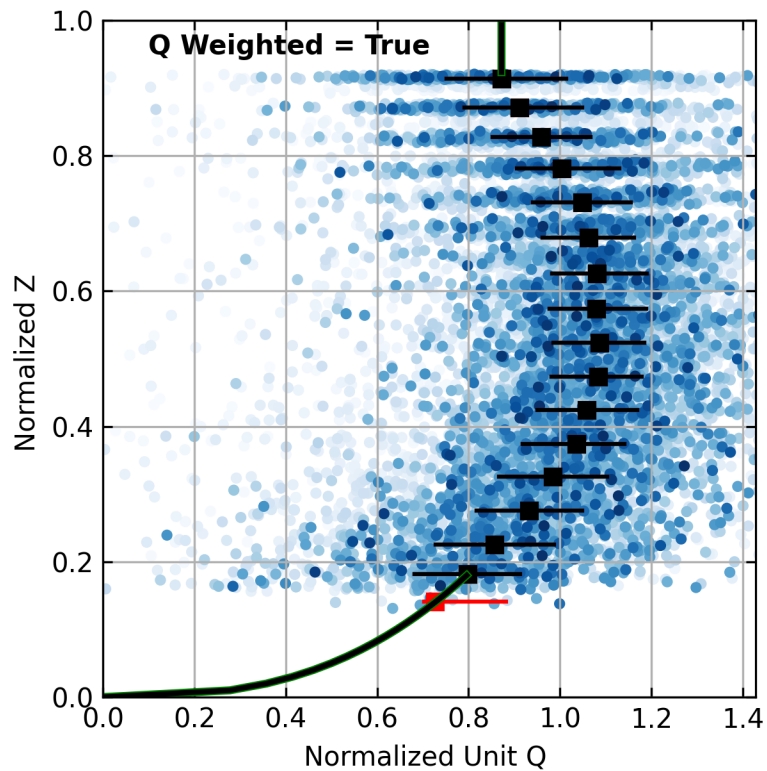
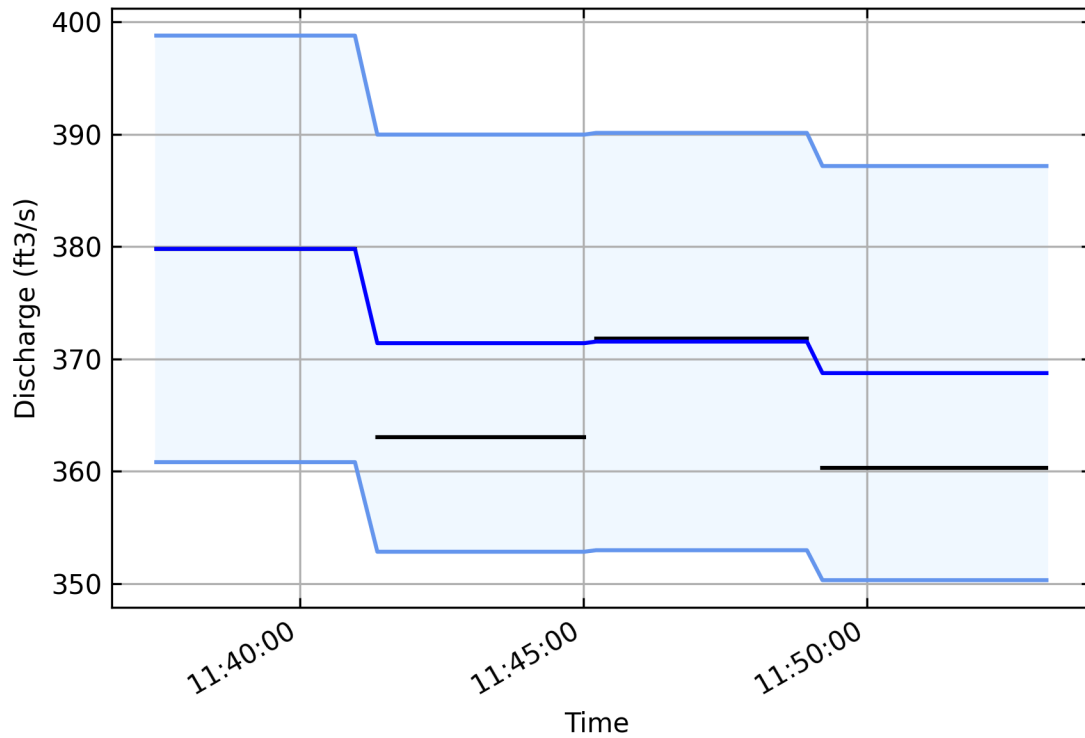
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