



QRev Discharge Measurement Report

1 of 5

Station Name: 05022025_RockfordBridge

Station Number:

Measurement Date: 2025.05.02

Measurement Number: 0

Discharge: 485.03

Stage: 0.00

User Rating: Not Rated

Processed: 2025.05.04 16:40:40

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	485.03	Mean Velocity (ft/s):	1.966														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.319														
Version:	4.37	Total Duration (s):	1782.0	Mean Depth (ft):	5.962														
ADCP		Start Time:	12:17:57	Max. Depth (ft):	8.545														
Manufacturer:	TRDI	End Time:	13:20:19	Width (ft):	41.415														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	4.84														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	246.891														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	4.66														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.198	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	12.44	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.1 <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>45%</td></tr><tr><td>Systematic</td><td>35%</td></tr><tr><td>Extrap.</td><td>10%</td></tr><tr><td>Moving-bed</td><td>10%</td></tr><tr><td>Edges</td><td>5%</td></tr><tr><td>Invalid</td><td>2%</td></tr></tbody></table>		Component	Percent of Total	COV	45%	Systematic	35%	Extrap.	10%	Moving-bed	10%	Edges	5%	Invalid	2%
Component	Percent of Total																		
COV	45%																		
Systematic	35%																		
Extrap.	10%																		
Moving-bed	10%																		
Edges	5%																		
Invalid	2%																		
W. Temp. ADCP (C):		Extrap Exponent:	0.3045																
System Test:	Passed	Discharg COV (%):	4.02																
Compass Cal/Eval:	0.45	Top Q (%):	6.83																
Magnetic Variaton:	13.5	Measured Q (%):	75.23																
MovBed Test Type:	Loop	Left Q (%):	1.76																
MovBed Test Quality:	Good	Right Q (%):	1.00																
MovBed Test Dur.(s):	295.4	Bottom Q (%):	13.08																
Max MovBed (%):	2.21	Invalid Cells Q (%):	0.00																
Q Correction (%):	2.15	Invalid Ensembles Q (%):	1.02																

Automated QA Messages:

WARNINGS

Cautions

- Moving-Bed Test: A moving-bed is present.
- Moving-Bed: BT based moving-bed correction applied.
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-05-04 16:37:56, ADCPH]: Site required many transects due to differences between left and right starting transects. Moving bed may be a factor that was causing differences between left and right transects. There is no site number for this location.
- [2025-05-04 16:40:33, ADCPH]: File Saved Q = 485.03 ft3/s (Uncertainty: 5.1%)



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ID	File Name
0	05022025_RockfordBridge_0_000_25-05-02.PD0
1	05022025_RockfordBridge_0_001_25-05-02.PD0
2	05022025_RockfordBridge_0_010_25-05-02.PD0
3	05022025_RockfordBridge_0_013_25-05-02.PD0
4	05022025_RockfordBridge_0_014_25-05-02.PD0
5	05022025_RockfordBridge_0_016_25-05-02.PD0
6	05022025_RockfordBridge_0_018_25-05-02.PD0
7	05022025_RockfordBridge_0_019_25-05-02.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	12:17:57	12:21:33	215.3	32.37	367.11	61.13	8.97	7.09	477.81
1	Right	12:21:49	12:25:26	216.3	29.81	349.93	64.61	8.02	4.14	477.48
2	Left	12:46:44	12:50:17	212.8	38.62	384.58	59.63	6.76	7.29	495.15
3	Right	12:54:40	12:58:36	236.0	30.33	344.12	65.83	7.63	4.61	476.26
4	Left	13:00:45	13:04:41	236.9	38.19	410.78	65.31	6.64	1.81	523.87
5	Right	13:06:19	13:10:05	225.3	29.62	339.98	62.31	8.81	4.05	461.81
6	Left	13:15:41	13:19:25	223.3	34.88	380.42	66.69	10.26	4.93	496.54
7	Right	13:20:19	13:23:55	216.0	31.05	342.33	61.9	11.16	4.98	471.29
				1782.0	33.11	364.91	63.43	8.53	4.86	485.03

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	4.00	10	0.3535	Triangular	4.00	10	0.3535
1	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
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
6	Left	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535
7	Right	Triangular	4.00	10	0.3535	Triangular	4.00	10	0.3535



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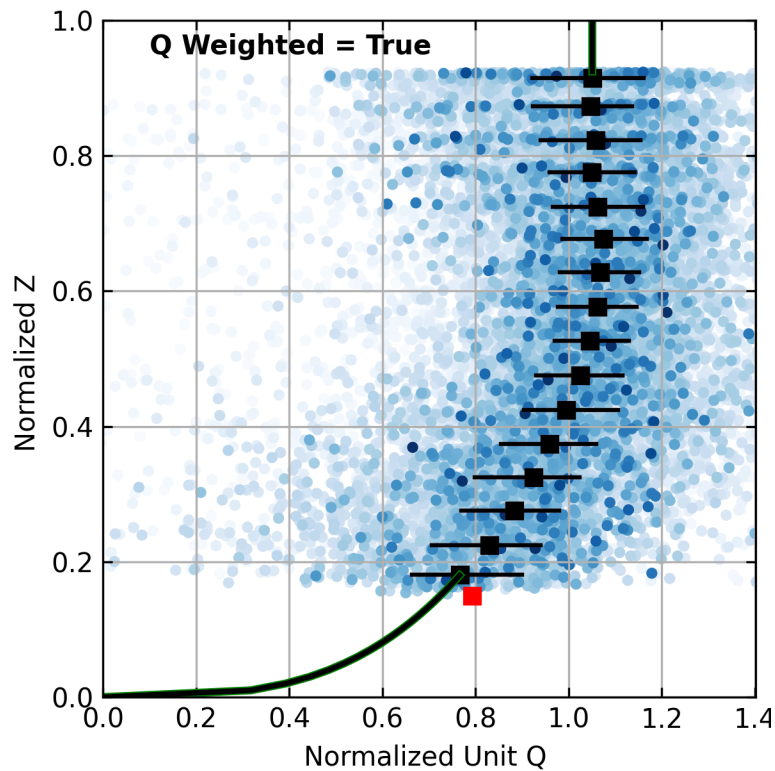
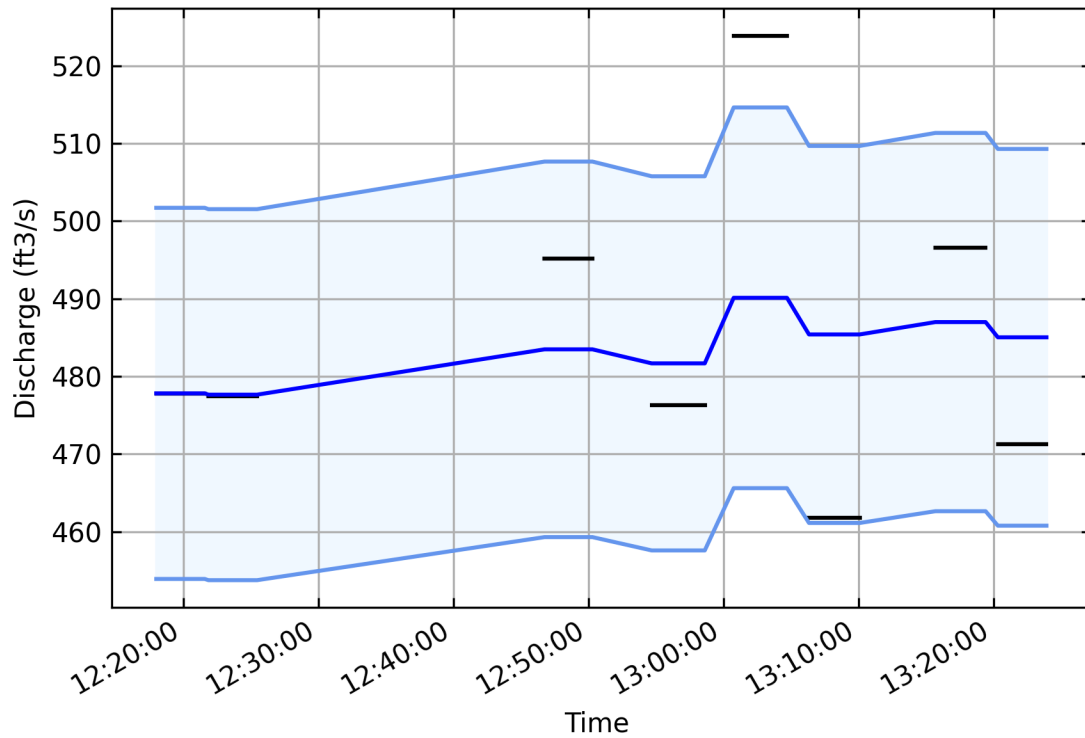
Measurement Number: 0

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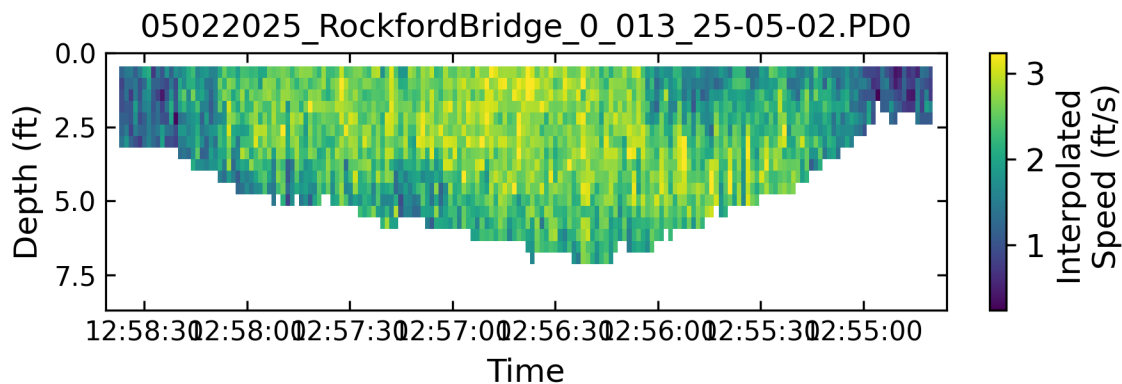
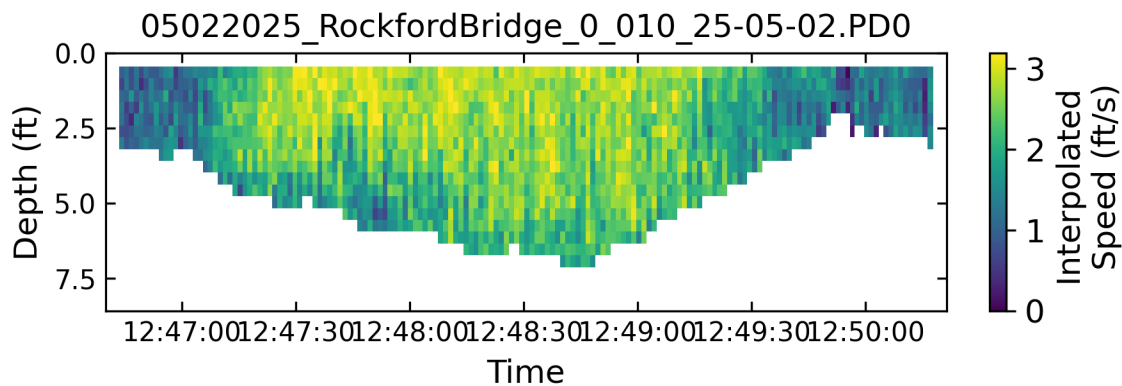
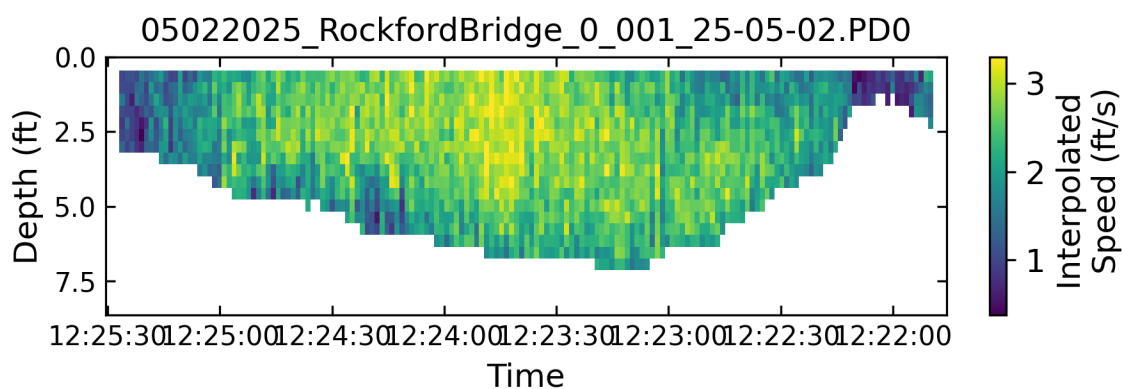
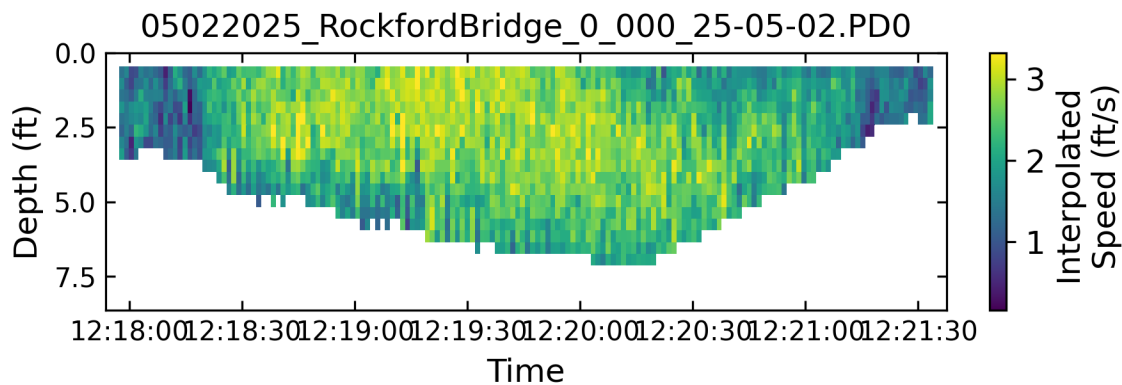
Measurement Number: 0

Discharge: 485.03

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