



QRev Discharge Measurement Report

1 of 4

Station Name: 07222025_S4Remauli

Station Number:

Measurement Date: 2025.07.22

Measurement Number: 0

Discharge: 124.99

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.25 09:08:20

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	124.99	Mean Velocity (ft/s):	1.864														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.579														
Version:	4.37	Total Duration (s):	809.1	Mean Depth (ft):	3.057														
ADCP		Start Time:	16:35:02	Max. Depth (ft):	4.260														
Manufacturer:	TRDI	End Time:	16:46:02	Width (ft):	21.930														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.90														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	67.033														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	0.93														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.131	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	22.45	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.6 <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>~28%</td></tr><tr><td>Extrap.</td><td>~25%</td></tr><tr><td>Moving-bed</td><td>~5%</td></tr><tr><td>Edges</td><td>~5%</td></tr><tr><td>Invalid</td><td>~5%</td></tr></tbody></table>		Component	Percent of Total	COV	~45%	Systematic	~28%	Extrap.	~25%	Moving-bed	~5%	Edges	~5%	Invalid	~5%
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W. Temp. ADCP (C):		Extrap Exponent:	0.3794																
System Test:	Passed	Discharg COV (%):	2.31																
Compass Cal/Eval:	0.27	Top Q (%):	11.44																
Magnetic Variaton:	13.5	Measured Q (%):	73.88																
MovBed Test Type:	Loop	Left Q (%):	0.63																
MovBed Test Quality:	Good	Right Q (%):	0.52																
MovBed Test Dur.(s):	237.4	Bottom Q (%):	13.53																
Max MovBed (%):	0.39	Invalid Cells Q (%):	0.08																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.41																

Automated QA Messages:

WARNINGS

Cautions

- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Transects: ['07222025_S4Remauli_0_000_25-07-22', '07222025_S4Remauli_0_001_25-07-22', '07222025_S4Remauli_0_002_25-07-22', '07222025_S4Remauli_0_003_25-07-22'] have battery voltage less than 10.5
- Site Info: Station number not entered;

Comments:

- MMT Remarks:



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Station Number:

Measurement Date: 2025.07.22

Measurement Number: 0

Discharge: 124.99

Stage: 0.00

User Rating: Not Rated

Processed: 2025.07.25 09:08:21

Comments:

- [Main, 2025-07-25 09:02:06, ADCPH]: There is no station number for this location. Measurement conditions were partly cloudy and hot, mid-80s F, with some wind. The ADCP was able to be WT equilibrated in the shade of willows on the side of channel, no issues with the independent WT. Currents from the bridge supports, canal waters upstream, and slow moving sides still causing some unwanted boat movement from side to side and forward/back. Movements were not extreme but also not ideal. The extrapolation was reviewed and the system has chosen the best fit extrapolation. The bottom of the transect will need to be raked before next measurement, possible debris causing repeated BT loss that was within acceptable limits.
- [2025-07-25 09:08:15, ADCPH]: File Saved Q = 124.99 ft³/s (Uncertainty: 5.6%)

ID	File Name
0	07222025_S4Remauli_0_000_25-07-22.PD0
1	07222025_S4Remauli_0_001_25-07-22.PD0
2	07222025_S4Remauli_0_002_25-07-22.PD0
3	07222025_S4Remauli_0_003_25-07-22.PD0

Transect ID	Start Edge	Start Time	End Time	Duration (sec)	Top Q (ft ³ /s)	Middle	Bottom	Left Q (ft ³ /s)	Right Q (ft ³ /s)	Total Q (ft ³ /s)
						Q (ft ³ /s)	Q (ft ³ /s)			
0	Left	16:35:02	16:38:22	200.1	13.86	92.9	17.23	0.76	0.74	125.48
1	Right	16:38:36	16:41:56	200.3	14.13	90.45	15.91	0.76	0.76	122.0
2	Left	16:42:33	16:45:52	198.8	14.82	94.9	17.68	0.83	0.52	128.75
3	Right	16:46:02	16:49:32	209.9	14.37	91.11	16.83	0.82	0.59	123.73
				809.1	14.29	92.34	16.91	0.79	0.65	124.99

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	1.50	10	0.3535	Triangular	1.00	10	0.3535
1	Right	Triangular	1.50	10	0.3535	Triangular	1.00	10	0.3535
2	Left	Triangular	1.50	10	0.3535	Triangular	1.00	10	0.3535
3	Right	Triangular	1.50	10	0.3535	Triangular	1.00	10	0.3535



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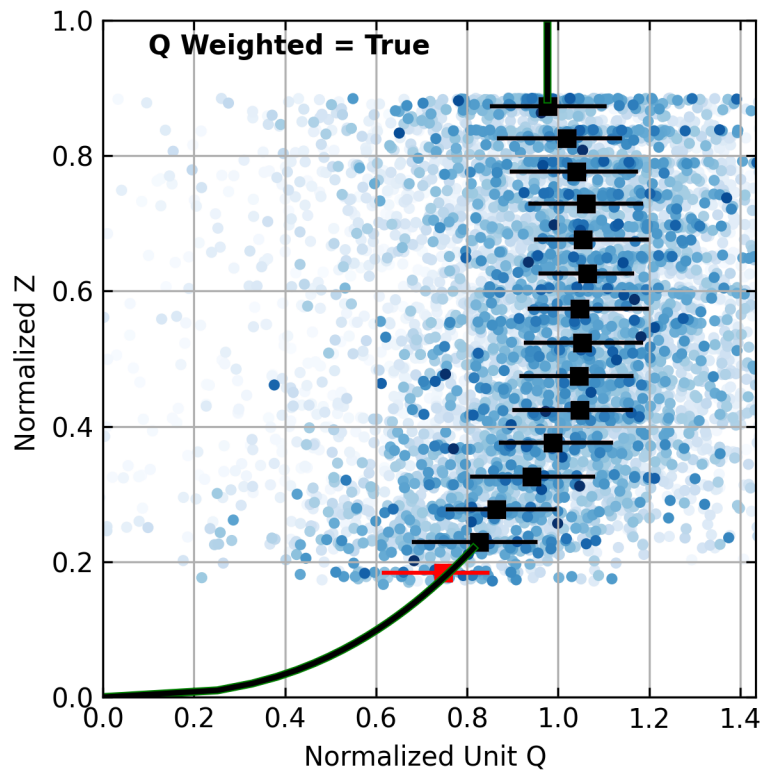
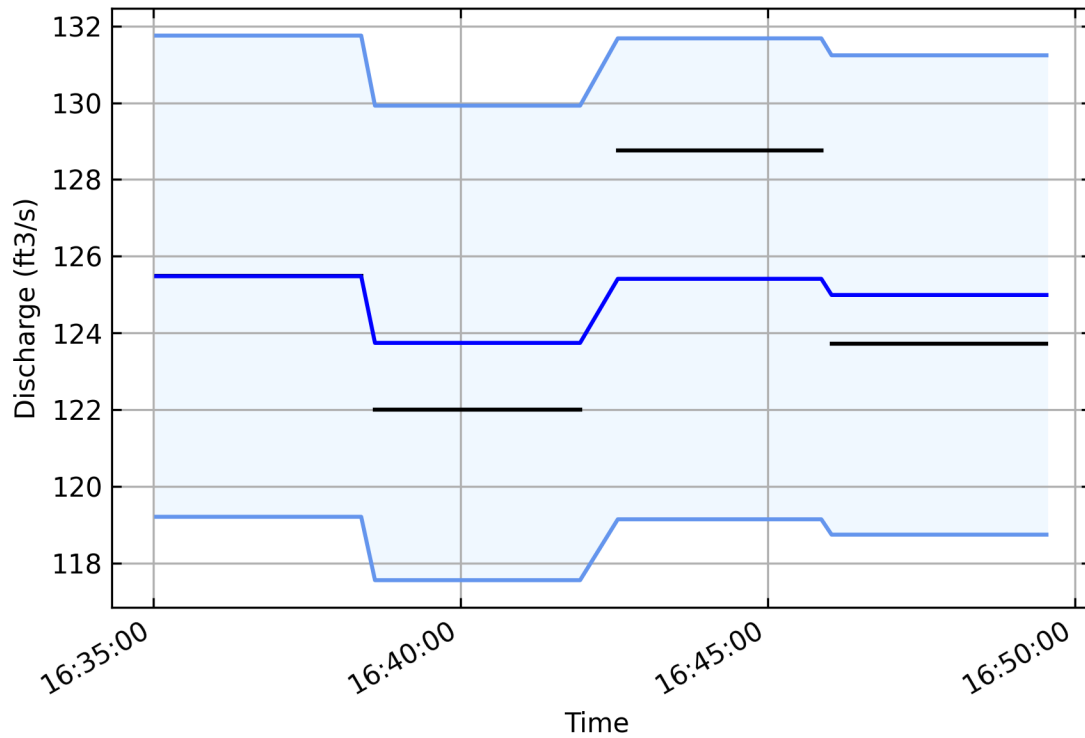
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