



QRev Discharge Measurement Report

1 of 4

Station Name: S3Diamond_06032025

Station Number:

Measurement Date: 2025.06.03

Measurement Number: 0

Discharge: 425.47

Stage: 0.00

User Rating: Not Rated

Processed: 2025.06.06 08:13:39

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	425.47	Mean Velocity (ft/s):	1.711														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.345														
Version:	4.37	Total Duration (s):	813.1	Mean Depth (ft):	6.329														
ADCP		Start Time:	13:48:38	Max. Depth (ft):	8.166														
Manufacturer:	TRDI	End Time:	14:08:22	Width (ft):	39.287														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.22														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	248.652														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.52														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.187	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	12.922222	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.6 <table><caption>Uncertainty Breakdown Data</caption><thead><tr><th>Factor</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>42%</td></tr><tr><td>Systematic</td><td>30%</td></tr><tr><td>Edges</td><td>15%</td></tr><tr><td>Extrap.</td><td>12%</td></tr><tr><td>Moving-bed</td><td>5%</td></tr><tr><td>Invalid</td><td>2%</td></tr></tbody></table>		Factor	Percent of Total	COV	42%	Systematic	30%	Edges	15%	Extrap.	12%	Moving-bed	5%	Invalid	2%
Factor	Percent of Total																		
COV	42%																		
Systematic	30%																		
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Extrap.	12%																		
Moving-bed	5%																		
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W. Temp. ADCP (C):		Extrap Exponent:	0.3404																
System Test:	Passed	Discharg COV (%):	2.26																
Compass Cal/Eval:	0.56	Top Q (%):	5.35																
Magnetic Variaton:	13.5	Measured Q (%):	77.46																
MovBed Test Type:	Loop	Left Q (%):	3.01																
MovBed Test Quality:	Good	Right Q (%):	4.26																
MovBed Test Dur.(s):	240.8	Bottom Q (%):	9.93																
Max MovBed (%):	0.98	Invalid Cells Q (%):	0.01																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.05																

Automated QA Messages:

WARNINGS

Cautions

- Transects: ['S3Diamond_06032025_0_006_25-06-03'] have battery voltage less than 10.5
- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2025-06-05 12:10:14, sarah]: There is no station number for this location. Some issues with BT loss at both edges that comes and goes despite cleaning. Channel edges are deep (3-4 ft) and undercut with Reed Canary grass growing underwater, may have grass that can't be reached for cleaning and causing the issue. Measurement conditions were sunny and warm, no problems with WT difference between ADCP and independent.
- [2025-06-06 08:13:33, sarah]: File Saved Q = 425.47 ft³/s (Uncertainty: 5.6%)



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ID	File Name
0	S3Diamond_06032025_0_001_25-06-03.PD0
1	S3Diamond_06032025_0_003_25-06-03.PD0
2	S3Diamond_06032025_0_005_25-06-03.PD0
3	S3Diamond_06032025_0_006_25-06-03.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	13:48:38	13:52:13	214.9	23.95	335.62	46.35	11.85	20.73	438.51
1	Right	13:54:55	13:58:07	192.1	22.13	330.65	40.73	13.95	13.92	421.37
2	Left	14:04:45	14:08:09	203.6	22.13	320.38	40.88	12.54	20.06	415.98
3	Right	14:08:22	14:11:45	202.5	22.8	331.59	41.09	12.8	17.74	426.02
				813.1	22.75	329.56	42.26	12.79	18.11	425.47

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	5.00	10	0.3535	Triangular	6.00	10	0.3535
1	Right	Triangular	6.00	10	0.3535	Triangular	5.00	10	0.3535
2	Left	Triangular	5.00	10	0.3535	Triangular	6.00	10	0.3535
3	Right	Triangular	5.00	10	0.3535	Triangular	6.00	10	0.3535



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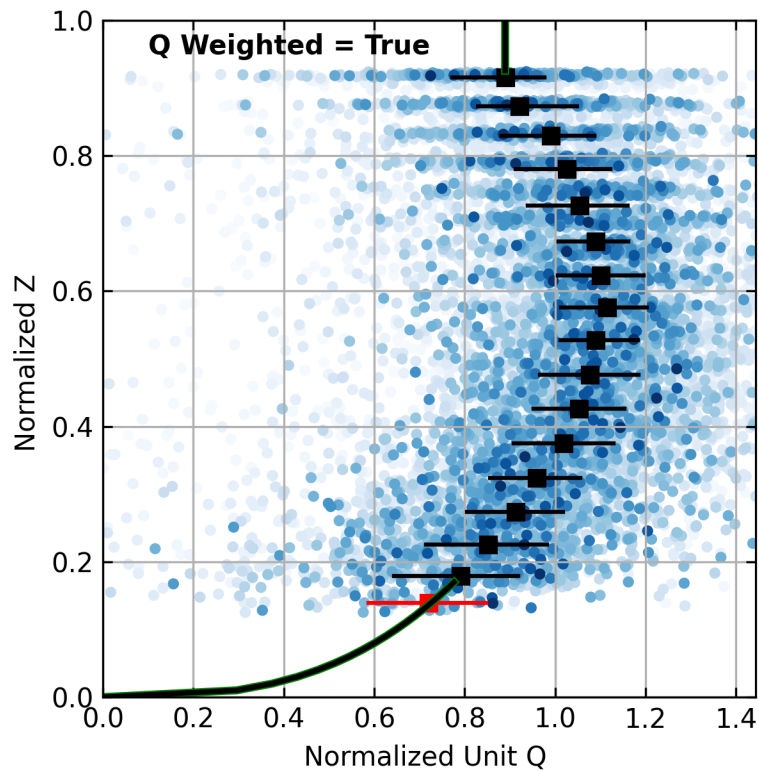
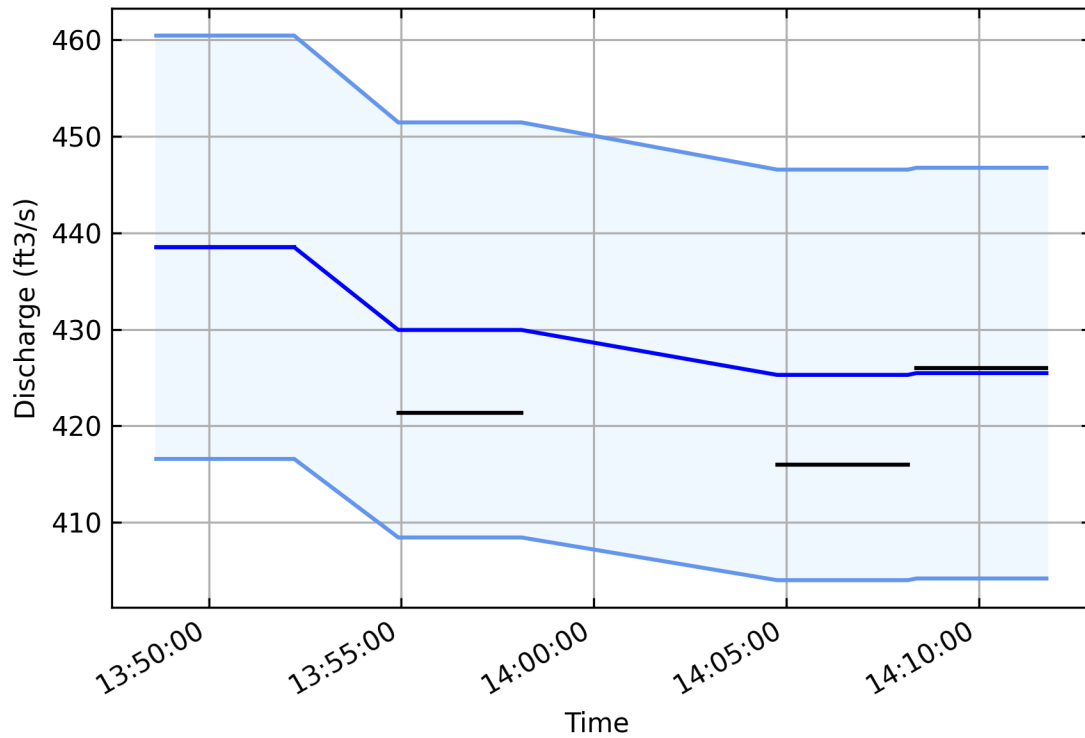
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