



QRev Discharge Measurement Report

1 of 4

Station Name: 06212024_PageSprings

Station Number:

Measurement Date: 2024.06.21

Measurement Number: 0

Discharge: 108.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 11:52:17

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	108.0	Mean Velocity (ft/s):	1.808														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.529														
Version:	4.36	Total Duration (s):	953.1	Mean Depth (ft):	1.235														
ADCP		Start Time:	09:19:43	Max. Depth (ft):	1.832														
Manufacturer:	TRDI	End Time:	09:35:20	Width (ft):	48.198														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	1.31														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	59.522														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.18														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.212	Uncertainty															
Premeasurement		Top Extrap:	Power	Uncertainty Method: QRev															
W. Temp. (C):	11.572222	Bottom Extrap:	Power	95% Total Uncertainty: 4.3 <table><tr><th>Component</th><th>Percent of Total</th></tr><tr><td>Systematic</td><td>43</td></tr><tr><td>COV</td><td>38</td></tr><tr><td>Moving-bed</td><td>5</td></tr><tr><td>Edges</td><td>5</td></tr><tr><td>Extrap.</td><td>5</td></tr><tr><td>Invalid</td><td>2</td></tr></table>		Component	Percent of Total	Systematic	43	COV	38	Moving-bed	5	Edges	5	Extrap.	5	Invalid	2
Component	Percent of Total																		
Systematic	43																		
COV	38																		
Moving-bed	5																		
Edges	5																		
Extrap.	5																		
Invalid	2																		
W. Temp. ADCP (C):		Extrap Exponent:	0.1946																
System Test:	Passed	Discharg COV (%):	1.64																
Compass Cal/Eval:	0.64	Top Q (%):	31.00																
Magnetic Variaton:	13.5	Measured Q (%):	46.15																
MovBed Test Type:	Loop	Left Q (%):	1.18																
MovBed Test Quality:	Good	Right Q (%):	2.13																
MovBed Test Dur.(s):	327.9	Bottom Q (%):	19.55																
Max MovBed (%):	0.27	Invalid Cells Q (%):	0.01																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.36																

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 3.2 C;

Cautions

- Site Info: Station number not entered;

Comments:

- MMT Remarks:
- [Main, 2024-07-14 11:50:48, sarah]: ADCP allowed to sit in river with reference sonde (Independent) for 10 minutes to equilibrate, possibly consider overriding ADCP temperature value with consistant independent reading due to this consistant issue on many measurements that is likely due to a temperature gradient.
- [Main, 2024-07-14 11:51:55, sarah]: No station number for site.
- [2024-07-14 11:52:14, sarah]: File Saved Q = 107.57 ft3/s (Uncertainty: 4.3%)



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ID	File Name
0	0_000_24-06-21.PD0
1	0_001_24-06-21.PD0
2	0_002_24-06-21.PD0
3	0_003_24-06-21.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	09:19:43	09:23:45	242.7	32.5	50.0	19.9	1.96	2.6	107.0
1	Right	09:24:01	09:27:59	237.8	34.2	50.8	21.3	1.1	1.92	109.0
2	Left	09:28:15	09:32:54	278.4	33.7	49.3	21.6	1.46	2.49	109.0
3	Right	09:35:20	09:38:34	194.2	33.0	48.4	21.3	0.553	2.13	105.0
				953.1	33.3	49.6	21.0	1.27	2.29	108.0

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	1.07	10	0.3535	Triangular	1.22	10	0.3535
1	Right	Triangular	1.07	10	0.3535	Triangular	1.22	10	0.3535
2	Left	Triangular	1.07	10	0.3535	Triangular	1.22	10	0.3535
3	Right	Triangular	1.07	10	0.3535	Triangular	1.22	10	0.3535



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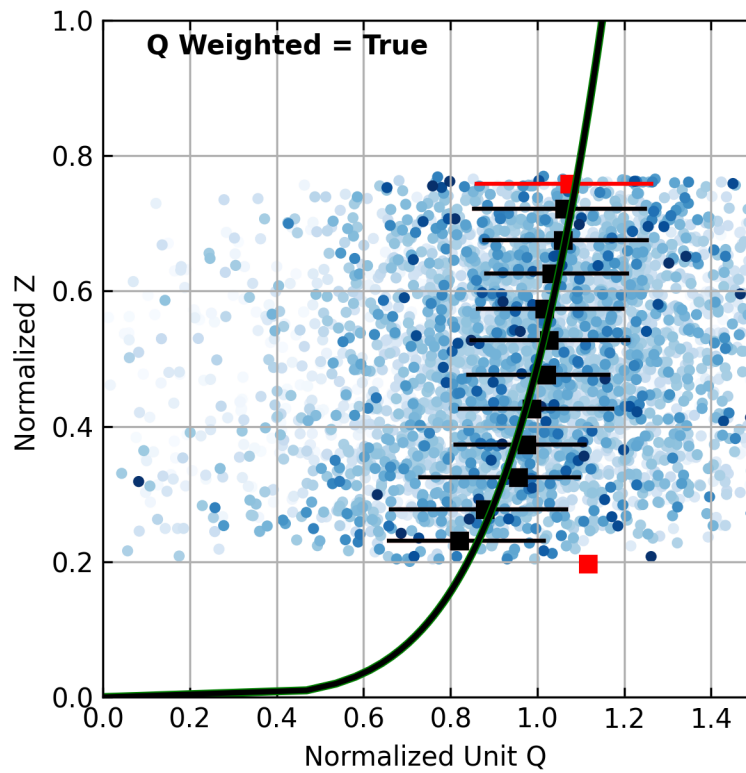
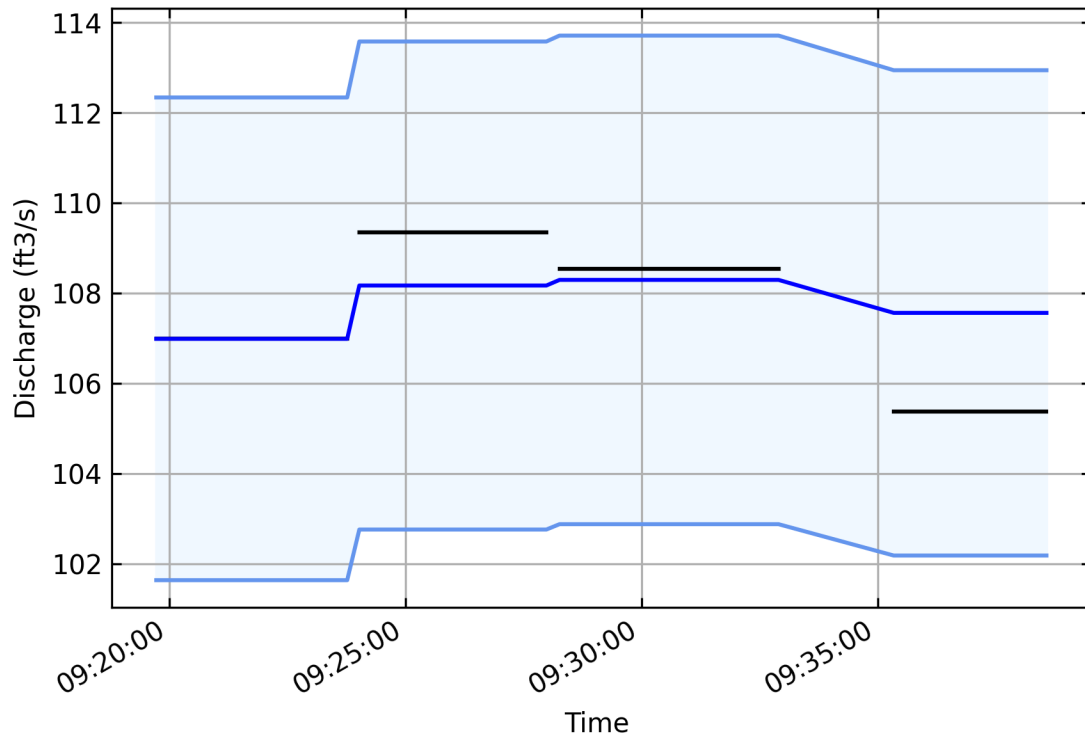
Measurement Number: 0

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