



QRev Discharge Measurement Report

1 of 4

Station Name: 06212024_Krumbo

Station Number:

Measurement Date: 2024.06.21

Measurement Number: 0

Discharge: 143.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 11:58:51

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	143.0	Mean Velocity (ft/s):	1.558														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.204														
Version:	4.36	Total Duration (s):	1069.4	Mean Depth (ft):	3.660														
ADCP		Start Time:	11:20:38	Max. Depth (ft):	4.842														
Manufacturer:	TRDI	End Time:	11:35:45	Width (ft):	25.068														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.88														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	91.745														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	2.50														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.130	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	15.738889	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.5 <table><tr><th>Component</th><th>Value</th></tr><tr><td>COV</td><td>6.5</td></tr><tr><td>Systematic</td><td>2.0</td></tr><tr><td>Extrap.</td><td>0.5</td></tr><tr><td>Edges</td><td>0.5</td></tr><tr><td>Moving-bed</td><td>0.5</td></tr><tr><td>Invalid</td><td>0.5</td></tr></table>		Component	Value	COV	6.5	Systematic	2.0	Extrap.	0.5	Edges	0.5	Moving-bed	0.5	Invalid	0.5
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COV	6.5																		
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Edges	0.5																		
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W. Temp. ADCP (C):		Extrap Exponent:	0.3399																
System Test:	Passed	Discharg COV (%):	3.32																
Compass Cal/Eval:	0.76	Top Q (%):	10.45																
Magnetic Variaton:	13.5	Measured Q (%):	75.71																
MovBed Test Type:	Loop	Left Q (%):	3.54																
MovBed Test Quality:	Good	Right Q (%):	1.16																
MovBed Test Dur.(s):	395.2	Bottom Q (%):	9.14																
Max MovBed (%):	0.25	Invalid Cells Q (%):	0.03																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.72																

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 2.7 C;

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Transects: The number of invalid ensembles at the left edge exceeds 5 percent;
- Transects: The number of invalid ensembles at the right edge exceeds 5 percent;
- Site Info: Station number not entered;
- Edges: User modified right edge distance.

Comments:

- MMT Remarks:
- [Temp/Sal, 2024-07-14 11:54:48, sarah]: ADCP allowed to equilibrate in water with reference sonde (Independent) for 10 minutes, consider overriding to independent consistent value due to temperature gradient.



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Comments:

- [Main, 2024-07-14 11:57:32, sarah]: Did not change right edge distance from original, clicked on box (3.00 ft) and clicked okay.
- [Main, 2024-07-14 11:58:19, sarah]: No site number for site.
- [2024-07-14 11:58:47, sarah]: File Saved Q = 142.98 ft³/s (Uncertainty: 6.5%)

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 (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	11:20:38	11:25:35	296.9	15.2	107.0	13.1	3.37	1.71	140.0
1	Right	11:25:49	11:31:10	321.3	14.1	106.0	11.0	5.28	1.83	138.0
2	Left	11:31:22	11:35:37	254.6	15.8	111.0	15.1	5.12	1.32	148.0
3	Right	11:35:45	11:39:02	196.6	14.7	109.0	13.1	6.49	1.75	145.0
				1069.4	14.9	108.0	13.1	5.07	1.65	143.0

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	0.91	10	0.3535	Triangular	0.91	10	0.3535
1	Right	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
2	Left	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535
3	Right	Triangular	0.91	10	0.3535	Triangular	0.91	10	0.3535



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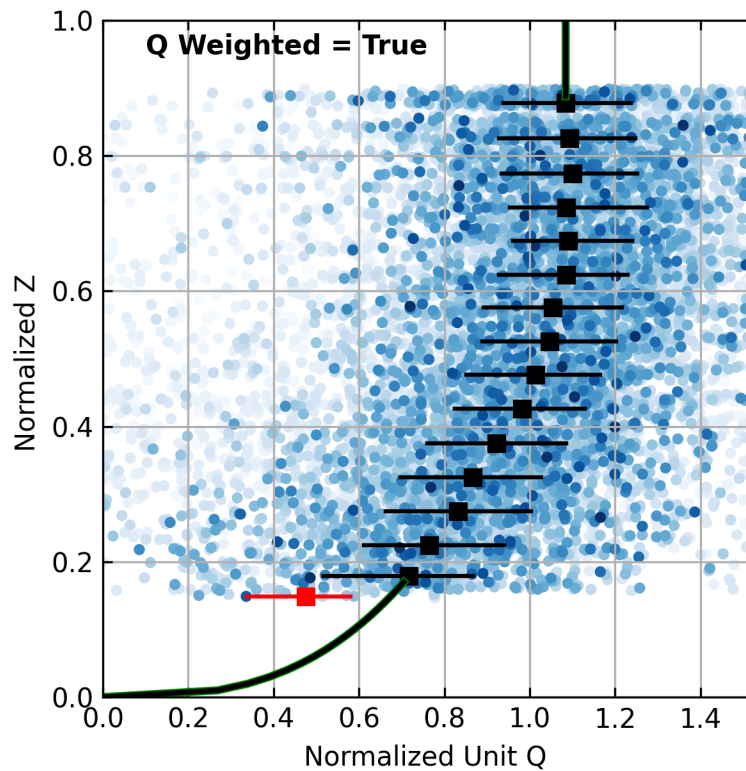
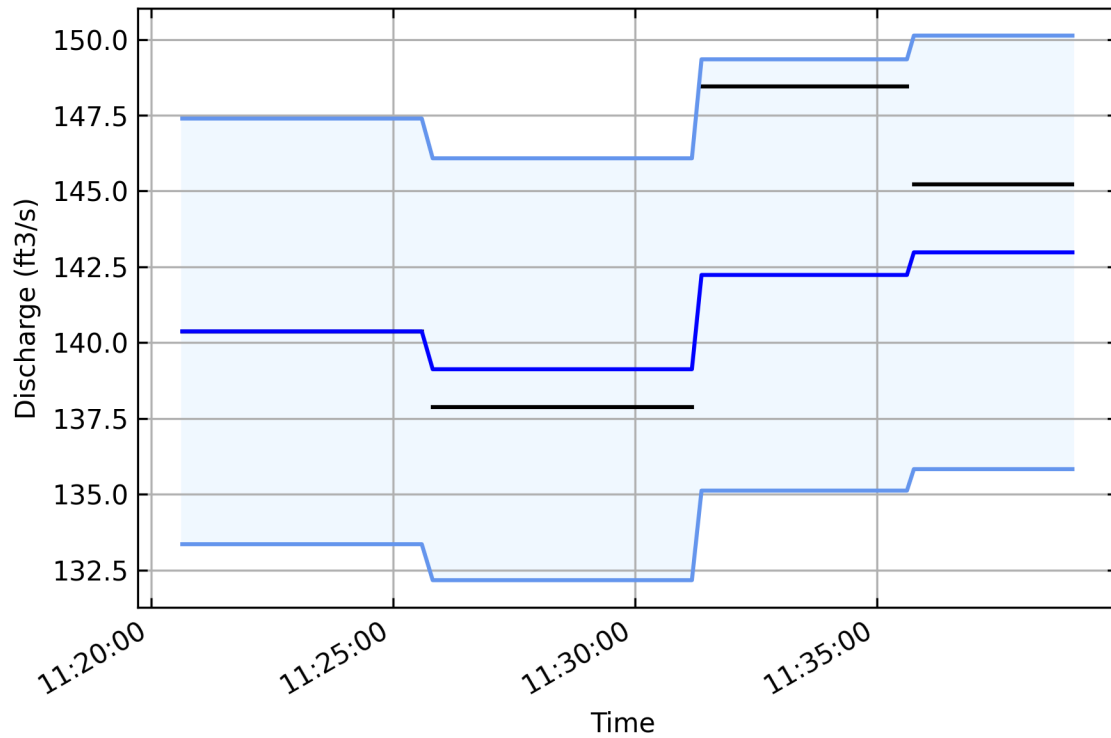
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