



QRev Discharge Measurement Report

1 of 4

Station Name: 06212024_Remauli

Station Number:

Measurement Date: 2024.06.21

Measurement Number: 0

Discharge: 193.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 12:13:31

Field Crew:		Discharge Summary		Cross Section															
Processed By:	sarah	Discharge (ft3/s):	193.0	Mean Velocity (ft/s):	1.736														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.319														
Version:	4.36	Total Duration (s):	904.4	Mean Depth (ft):	4.183														
ADCP		Start Time:	14:29:54	Max. Depth (ft):	5.884														
Manufacturer:	TRDI	End Time:	14:41:41	Width (ft):	26.613														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	5.28														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	111.203														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	3.08														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.133	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	18.161111	Bottom Extrap:	No Slip	95% Total Uncertainty: 6.5 <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>6.5</td></tr><tr><td>Systematic</td><td>2.1</td></tr><tr><td>Extrap.</td><td>1.9</td></tr><tr><td>Edges</td><td>0.8</td></tr><tr><td>Moving-bed</td><td>0.5</td></tr><tr><td>Invalid</td><td>0.2</td></tr></tbody></table>		Component	Percent of Total	COV	6.5	Systematic	2.1	Extrap.	1.9	Edges	0.8	Moving-bed	0.5	Invalid	0.2
Component	Percent of Total																		
COV	6.5																		
Systematic	2.1																		
Extrap.	1.9																		
Edges	0.8																		
Moving-bed	0.5																		
Invalid	0.2																		
W. Temp. ADCP (C):		Extrap Exponent:	0.4108																
System Test:	Passed	Discharg COV (%):	2.92																
Compass Cal/Eval:	0.86	Top Q (%):	7.32																
Magnetic Variaton:	13.5	Measured Q (%):	76.27																
MovBed Test Type:	Loop	Left Q (%):	3.23																
MovBed Test Quality:	Good	Right Q (%):	2.16																
MovBed Test Dur.(s):	265.8	Bottom Q (%):	11.02																
Max MovBed (%):	0.10	Invalid Cells Q (%):	0.00																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	1.02																

Automated QA Messages:

WARNINGS

- TEMPERATURE: The difference between ADCP and reference is > 2: 2.8 C;

Cautions

- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Temperature: Temperature range is 1.7 degrees C which is greater than 1 degree;
- Site Info: Station number not entered;
- Extrapolation: User modified default automatic setting.

Comments:

- MMT Remarks:
- [Extrap, 2024-07-14 12:11:22, sarah]: Tried out other extrapolations, original chosen fits best.



QRev Discharge Measurement Report

Station Name: 06212024_Remauli

Station Number:

Measurement Date: 2024.06.21

Measurement Number: 0

Discharge: 193.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 12:13:31

Comments:

- [Main, 2024-07-14 12:12:30, sarah]: ADCP allowed to sit in river with reference sonde (Independent) to equilibrate for 10 minutes, may need to adjust to constant independent temp reference.
- [2024-07-14 12:13:27, sarah]: File Saved Q = 193.07 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 (ft3/s)	Middle Q	Bottom Q	Left Q (ft3/s)	Right Q (ft3/s)	Total Q (ft3/s)
						Q (ft3/s)	Q (ft3/s)			
0	Left	14:29:54	14:33:46	232.1	14.3	146.0	25.8	6.31	3.49	196.0
1	Right	14:34:00	14:37:33	212.6	14.9	154.0	20.9	6.37	3.08	199.0
2	Left	14:37:42	14:41:28	226.8	13.4	143.0	18.3	6.29	5.19	186.0
3	Right	14:41:41	14:45:34	232.9	13.9	147.0	20.1	6.01	4.89	192.0
				904.4	14.1	147.0	21.3	6.24	4.16	193.0

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	0.91	10	0.3535
1	Right	Triangular	1.07	10	0.3535	Triangular	0.91	10	0.3535
2	Left	Triangular	1.07	10	0.3535	Triangular	0.91	10	0.3535
3	Right	Triangular	1.07	10	0.3535	Triangular	0.91	10	0.3535



QRev Discharge Measurement Report

3 of 4

Station Name: 06212024_Remauli

Station Number:

Measurement Date: 2024.06.21

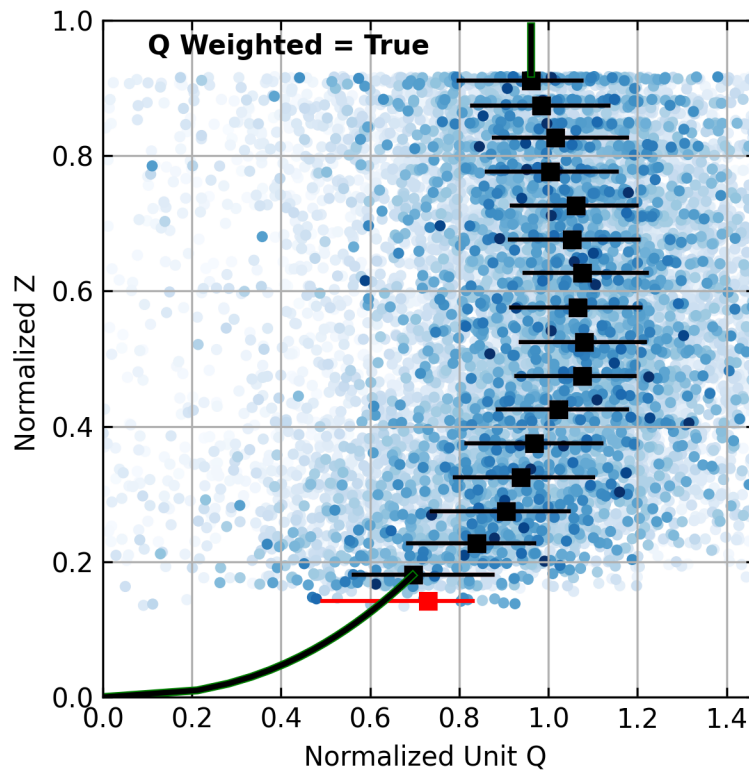
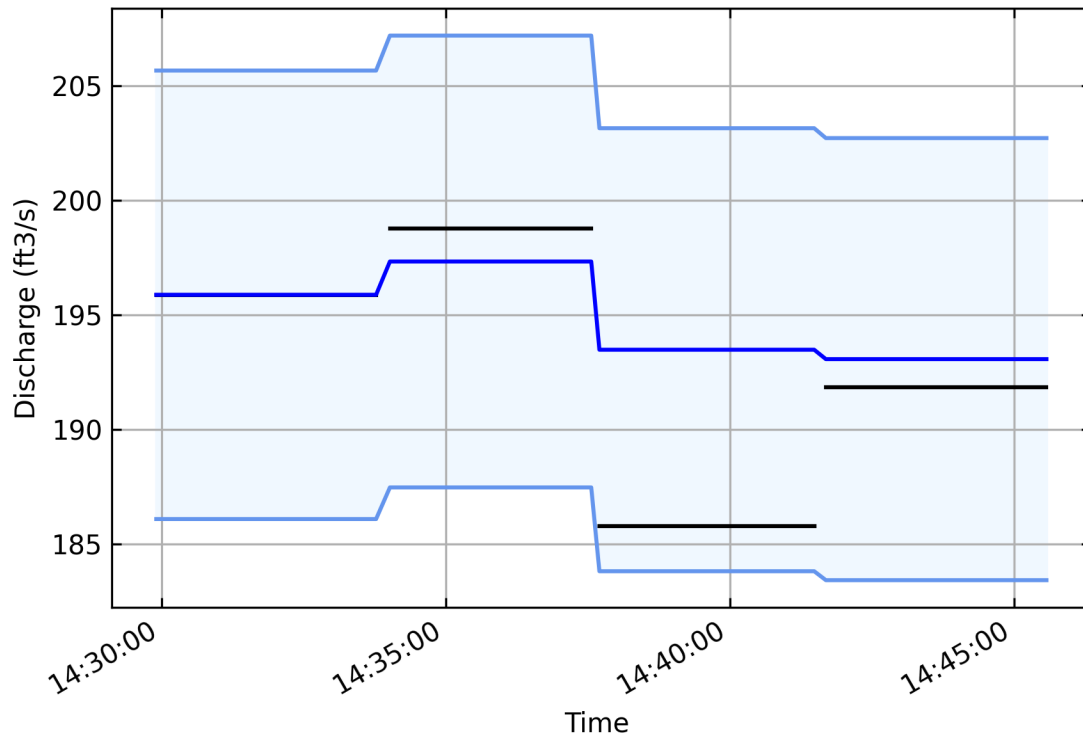
Measurement Number: 0

Discharge: 193.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 12:13:31





QRev Discharge Measurement Report

4 of 4

Station Name: 06212024_Remauli

Station Number:

Measurement Date: 2024.06.21

Measurement Number: 0

Discharge: 193.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.07.14 12:13:32

