



# QRev Discharge Measurement Report

1 of 4

Station Name: 03272024\_Training\_RemauldiBridge

Station Number:

Measurement Date: 2024.03.27

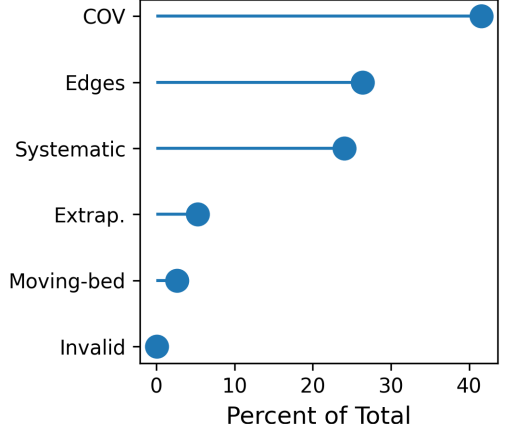
Measurement Number: 0

Discharge: 244.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 15:12:18

| Field Crew:          |           | Discharge Summary        |          | Cross Section                                                                                                            |         |
|----------------------|-----------|--------------------------|----------|--------------------------------------------------------------------------------------------------------------------------|---------|
| Processed By:        | sarah     | Discharge (ft3/s):       | 244.0    | Mean Velocity (ft/s):                                                                                                    | 2.152   |
| Software:            | QRev      | Navigation Ref.:         | bt_vel   | Max. Velocity (ft/s):                                                                                                    | 3.859   |
| Version:             | 4.36      | Total Duration (s):      | 804.5    | Mean Depth (ft):                                                                                                         | 3.103   |
| ADCP                 |           | Start Time:              | 11:00:33 | Max. Depth (ft):                                                                                                         | 5.361   |
| Manufacturer:        | TRDI      | End Time:                | 11:11:28 | Width (ft):                                                                                                              | 36.476  |
| Model:               | StreamPro | Stage Start:             | 0.00     | Width COV (%):                                                                                                           | 1.55    |
| Serial Number:       | 885       | Stage End:               | 0.00     | Area (ft2):                                                                                                              | 113.174 |
| Firmware:            | 31.16     | Mean Stage:              | 0.00     | Area COV (%):                                                                                                            | 1.69    |
| Frequency (kHz):     | 2000      | Mean Boat Speed (ft/s):  | 0.155    | Uncertainty                                                                                                              |         |
| Premeasurement       |           | Top Extrap:              | Constant | Uncertainty Method: QRev                                                                                                 |         |
| W. Temp. (C):        | 5.6       | Bottom Extrap:           | No Slip  | <b>95% Total Uncertainty: 6.1</b><br> |         |
| W. Temp. ADCP (C):   |           | Extrap Exponent:         | 0.2710   |                                                                                                                          |         |
| System Test:         | Passed    | Discharg COV (%):        | 2.48     |                                                                                                                          |         |
| Compass Cal/Eval:    | 0.30      | Top Q (%):               | 9.41     |                                                                                                                          |         |
| Magnetic Variaton:   | 13.5      | Measured Q (%):          | 67.35    |                                                                                                                          |         |
| MovBed Test Type:    | Loop      | Left Q (%):              | 4.08     |                                                                                                                          |         |
| MovBed Test Quality: | Good      | Right Q (%):             | 6.39     |                                                                                                                          |         |
| MovBed Test Dur.(s): | 280.8     | Bottom Q (%):            | 12.77    |                                                                                                                          |         |
| Max MovBed (%):      | 0.70      | Invalid Cells Q (%):     | 0.02     |                                                                                                                          |         |
| Q Correction (%):    | 0.00      | Invalid Ensembles Q (%): | 0.87     |                                                                                                                          |         |

## Automated QA Messages:

### WARNINGS

- Edges: Edge Q is greater than 5%;

### Cautions

- Edges: Excessive boat movement in edge ensembles;
- Transects: ['03272024\_Training\_RemauldiBridge\_0\_000\_24-03-27', '03272024\_Training\_RemauldiBridge\_0\_001\_24-03-27', '03272024\_Training\_RemauldiBridge\_0\_002\_24-03-27', '03272024\_Training\_RemauldiBridge\_0\_003\_24-03-27'] have battery voltage less than 10.5
- Site Info: Station number not entered;
- Edges: User modified left user discharge.
- Temperature: User modified independent temperature.

## Comments:

- MMT Remarks:



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## Comments:

- [Main, 2024-05-04 15:07:36, sarah]: Independent temperature missing from measurement, replaced with sonde temperture taken during same period. Cannot rectify edges due to nature of channel vegetation disruption in ensembles.
- [2024-05-04 15:12:14, sarah]: File Saved Q = 243.57 ft3/s (Uncertainty: 6.1%)

| ID | File Name                                           |
|----|-----------------------------------------------------|
| 0  | 03272024_Training_RemauldiBridge_0_000_24-03-27.PD0 |
| 1  | 03272024_Training_RemauldiBridge_0_001_24-03-27.PD0 |
| 2  | 03272024_Training_RemauldiBridge_0_002_24-03-27.PD0 |
| 3  | 03272024_Training_RemauldiBridge_0_003_24-03-27.PD0 |

| Transect ID | Start Edge | Start Time | End Time | Duration (sec) | Top Q (ft3/s) | Middle    | Bottom    | Left Q (ft3/s) | Right Q (ft3/s) | Total Q (ft3/s) |
|-------------|------------|------------|----------|----------------|---------------|-----------|-----------|----------------|-----------------|-----------------|
|             |            |            |          |                |               | Q (ft3/s) | Q (ft3/s) |                |                 |                 |
| 0           | Left       | 11:00:33   | 11:04:11 | 218.5          | 21.8          | 158.0     | 29.2      | 9.15           | 16.4            | 235.0           |
| 1           | Right      | 11:04:29   | 11:07:45 | 196.1          | 23.4          | 165.0     | 30.7      | 10.1           | 16.8            | 246.0           |
| 2           | Left       | 11:07:58   | 11:11:17 | 199.0          | 22.8          | 167.0     | 30.7      | 10.2           | 13.5            | 244.0           |
| 3           | Right      | 11:11:28   | 11:14:38 | 190.9          | 23.7          | 166.0     | 33.8      | 10.3           | 15.5            | 249.0           |
|             |            |            |          | 804.5          | 22.9          | 164.0     | 31.1      | 9.93           | 15.6            | 244.0           |

| 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     | 1.83            | 10               | 0.3535           | Triangular      | 3.05            | 10                | 0.3535            |
| 1           | Right      | Triangular     | 1.83            | 10               | 0.3535           | Triangular      | 3.05            | 10                | 0.3535            |
| 2           | Left       | Triangular     | 1.83            | 10               | 0.3535           | Triangular      | 3.05            | 10                | 0.3535            |
| 3           | Right      | Triangular     | 1.83            | 10               | 0.3535           | Triangular      | 3.05            | 10                | 0.3535            |



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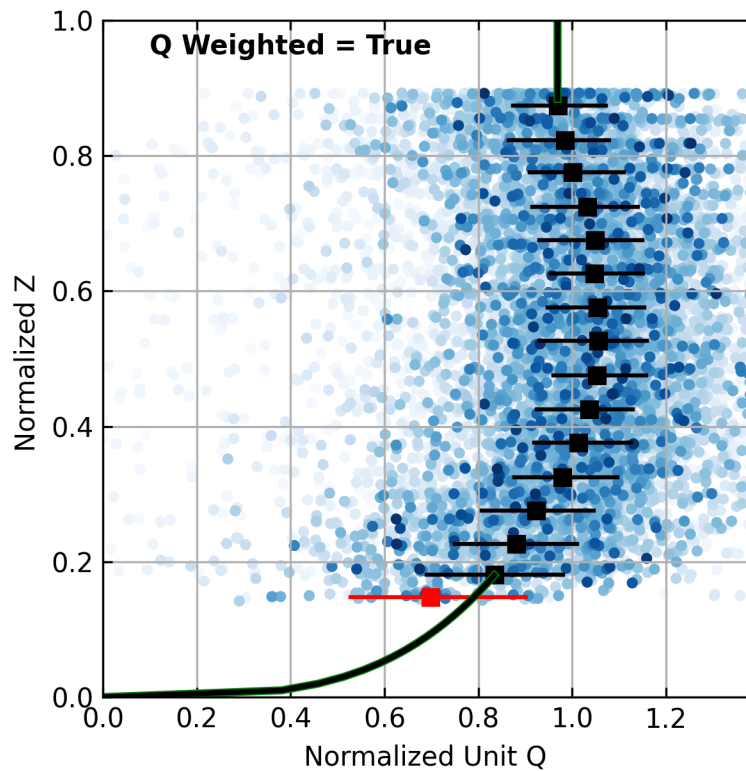
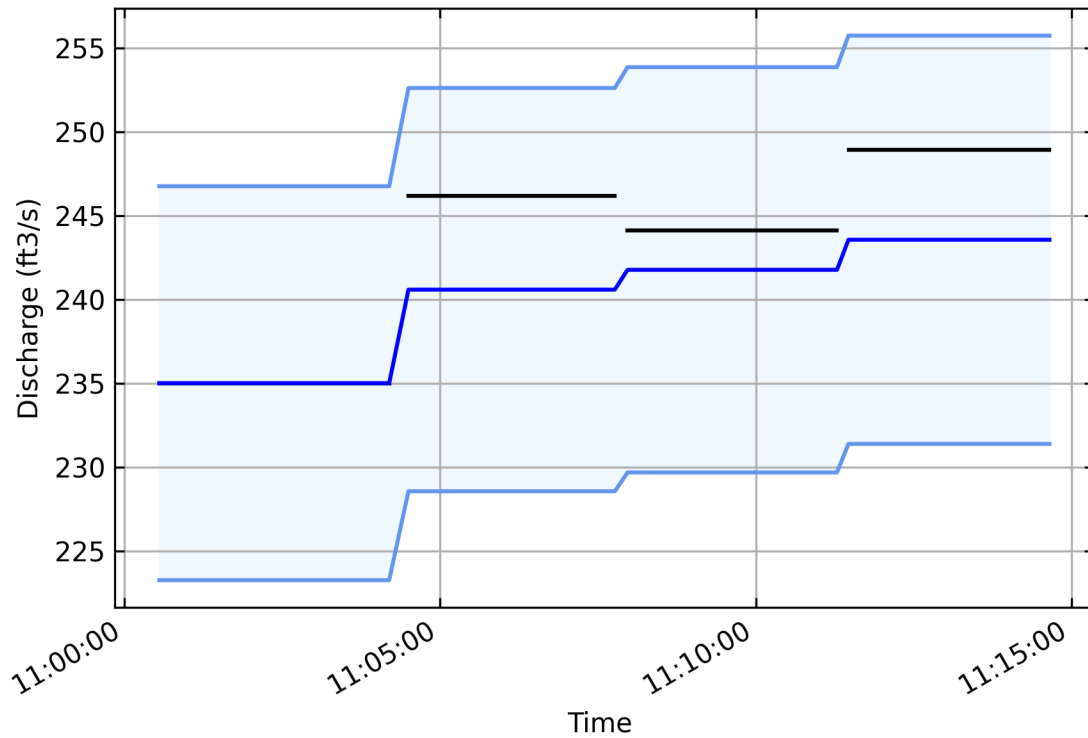
Measurement Number: 0

Discharge: 244.0

Stage: 0.00

User Rating: Not Rated

Processed: 2024.05.04 15:12:18





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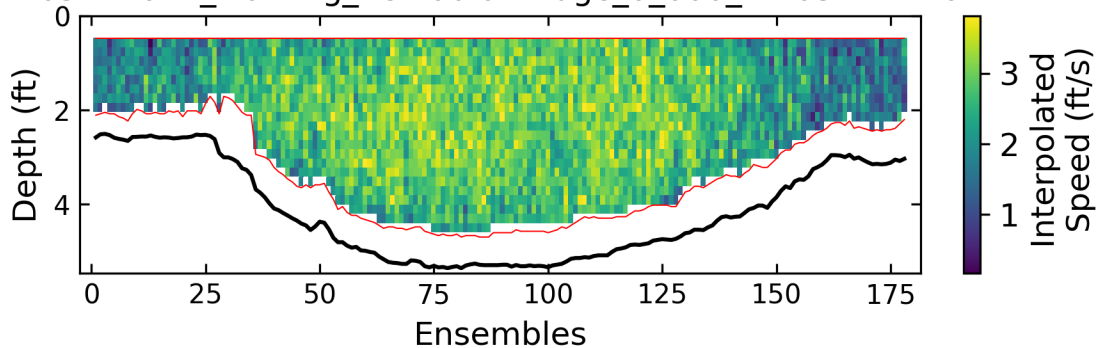
Discharge: 244.0

Stage: 0.00

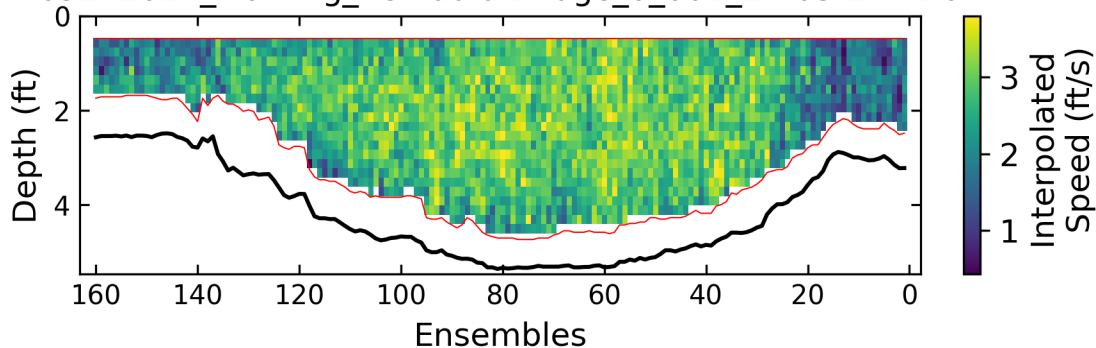
User Rating: Not Rated

Processed: 2024.05.04 15:12:19

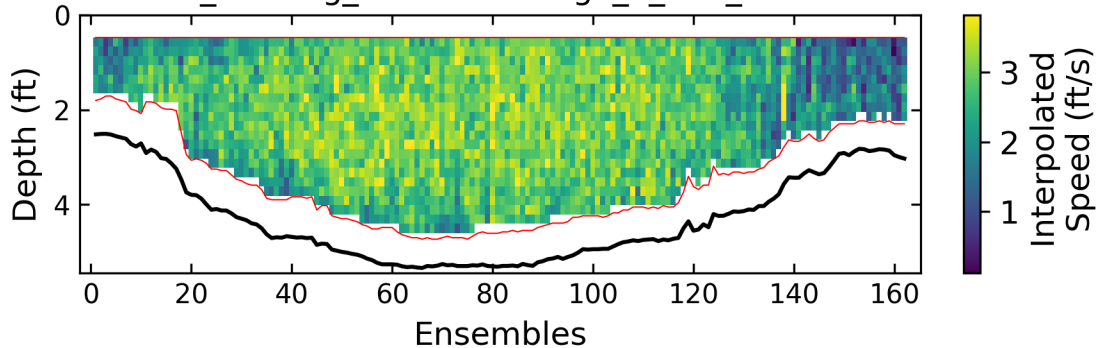
03272024\_Training\_RemauldiBridge\_0\_000\_24-03-27.PD0



03272024\_Training\_RemauldiBridge\_0\_001\_24-03-27.PD0



03272024\_Training\_RemauldiBridge\_0\_002\_24-03-27.PD0



03272024\_Training\_RemauldiBridge\_0\_003\_24-03-27.PD0

