



QRev Discharge Measurement Report

1 of 4

Station Name: S3Diamond_04172025

Station Number:

Measurement Date: 2025.04.17

Measurement Number: 0

Discharge: 520.07

Stage: 0.00

User Rating: Not Rated

Processed: 2025.04.18 12:52:42

Field Crew:		Discharge Summary		Cross Section	
Processed By:	ADCPH	Discharge (ft3/s):	520.07	Mean Velocity (ft/s):	1.667
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	3.297
Version:	4.37	Total Duration (s):	918.3	Mean Depth (ft):	6.181
ADCP		Start Time:	13:42:12	Max. Depth (ft):	9.771
Manufacturer:	TRDI	End Time:	13:54:54	Width (ft):	50.515
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.98
Serial Number:	2673	Stage End:	0.00	Area (ft2):	311.995
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.04
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.213	Uncertainty	
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev	
W. Temp. (C):	8.75	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.3 	
W. Temp. ADCP (C):		Extrap Exponent:	0.1667		
System Test:	Passed	Discharg COV (%):	1.95		
Compass Cal/Eval:	0.74	Top Q (%):	4.91		
Magnetic Variaton:	13.5	Measured Q (%):	76.24		
MovBed Test Type:	Stationary	Left Q (%):	0.66		
MovBed Test Quality:	Good	Right Q (%):	4.60		
MovBed Test Dur.(s):	603.2	Bottom Q (%):	12.79		
Max MovBed (%):	1.06	Invalid Cells Q (%):	0.02		
Q Correction (%):	0.81	Invalid Ensembles Q (%):	3.67		

Automated QA Messages:

WARNINGS

- Edges: One or more transects have an edge edge Q greater than 5%;

Cautions

- Edges: Excessive boat movement in edge ensembles;
- Edges: The percent of invalid ensembles exceeds 25% in one or more transects.
- Extrapolation: The extrapolation uncertainty is more than 2 percent;
- Carefully review the extrapolation;
- Moving-Bed Test: A moving-bed is present.
- Moving-Bed: BT based moving-bed correction applied.
- Moving-Bed Test: Less than 3 stationary tests available for moving-bed correction;
- Site Info: Station number not entered;
- Extrapolation: User modified default automatic setting.



QRev Discharge Measurement Report

2 of 4

Station Name: S3Diamond_04172025

Station Number:

Measurement Date: 2025.04.17

Measurement Number: 0

Discharge: 520.07

Stage: 0.00

User Rating: Not Rated

Processed: 2025.04.18 12:52:43

Comments:

- MMT Remarks:
- [Main, 2025-04-18 12:45:25, ADCPH]: High water and dangerous conditions did not allow the technician to enter the water to clean debris likely stuck on the bottom of the channel that were causing loss of data on both the left and right sides of the channel. Edges were cleaned as far as the technician could reach from the banks. Lack of experience of technician with utilizing stationary moving bed and only collected from the center channel, there are no right and left side moving bed tests. Windy conditions caused excessive boat movements in all transects. Large amounts of debris, including grass, reeds, sticks, and branches mobilized by wind were moving through channel. This measurement should be considered an extremely rough estimate given the poor conditions of the transect and measurement. There is no site number for this location. User changed extrapolation settings but opted to keep the original chosen by the system.
- [2025-04-18 12:52:36, ADCPH]: File Saved Q = 520.07 ft³/s (Uncertainty: 5.3%)

ID	File Name
0	S3Diamond_04172025_0_000_25-04-17.PD0
1	S3Diamond_04172025_0_001_25-04-17.PD0
2	S3Diamond_04172025_0_002_25-04-17.PD0
3	S3Diamond_04172025_0_003_25-04-17.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	13:42:12	13:46:06	234.0	25.32	403.47	64.34	3.6	24.5	525.18
1	Right	13:46:24	13:50:02	218.3	26.5	389.8	68.49	3.18	27.14	517.19
2	Left	13:50:16	13:54:35	259.1	25.31	406.89	74.1	3.68	13.57	530.6
3	Right	13:54:54	13:58:20	206.8	24.94	385.74	59.22	3.3	30.54	507.3
				918.3	25.52	396.48	66.54	3.44	23.93	520.07

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	10.00	10	0.3535
1	Right	Triangular	5.00	10	0.3535	Triangular	10.00	10	0.3535
2	Left	Triangular	5.00	10	0.3535	Triangular	10.00	10	0.3535
3	Right	Triangular	5.00	10	0.3535	Triangular	10.00	10	0.3535



QRev Discharge Measurement Report

3 of 4

Station Name: S3Diamond_04172025

Station Number:

Measurement Date: 2025.04.17

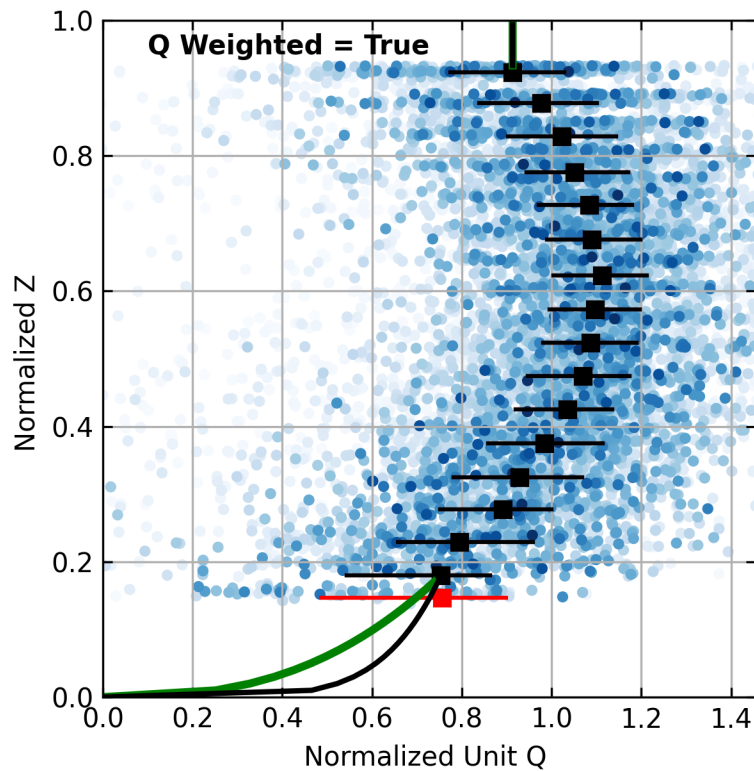
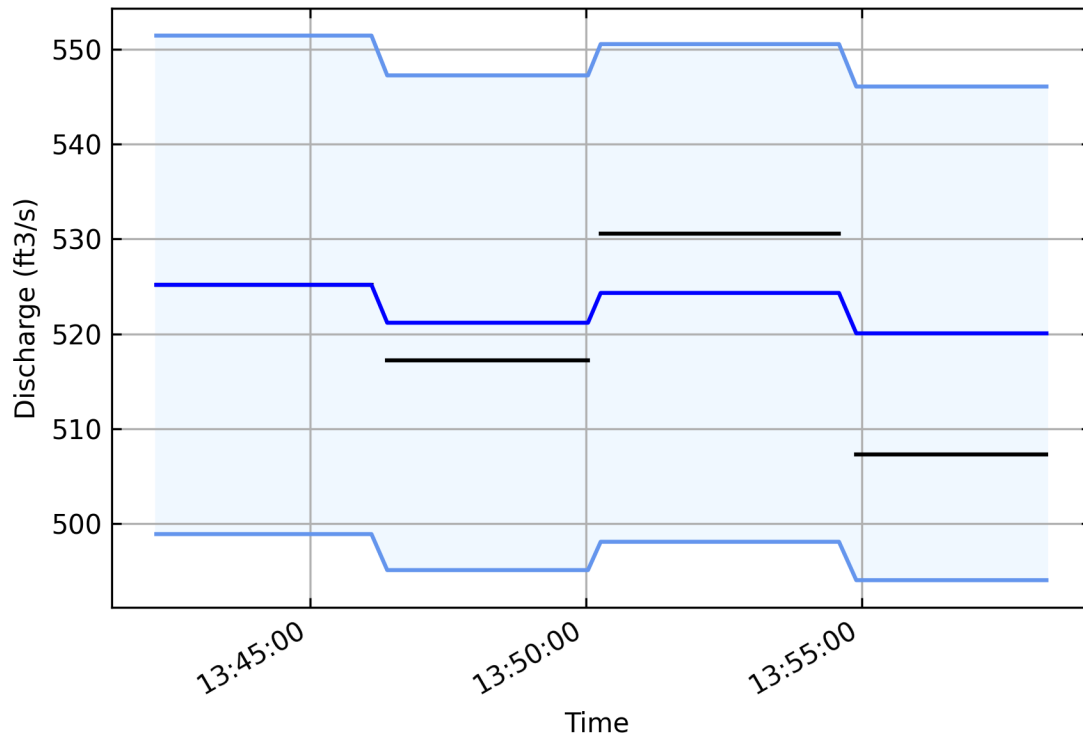
Measurement Number: 0

Discharge: 520.07

Stage: 0.00

User Rating: Not Rated

Processed: 2025.04.18 12:52:43





QRev Discharge Measurement Report

4 of 4

Station Name: S3Diamond_04172025

Station Number:

Measurement Date: 2025.04.17

Measurement Number: 0

Discharge: 520.07

Stage: 0.00

User Rating: Not Rated

Processed: 2025.04.18 12:52:43

