



QRev Discharge Measurement Report

1 of 5

Station Name: 08182025_SodhouseGage

Station Number:

Measurement Date: 2025.08.18

Measurement Number: 0

Discharge: 79.97

Stage: 0.00

User Rating: Not Rated

Processed: 2025.08.18 17:15:57

Field Crew:		Discharge Summary		Cross Section															
Processed By:	ADCPH	Discharge (ft3/s):	79.97	Mean Velocity (ft/s):	1.082														
Software:	QRev	Navigation Ref.:	bt_vel	Max. Velocity (ft/s):	2.882														
Version:	4.37	Total Duration (s):	1292.4	Mean Depth (ft):	2.158														
ADCP		Start Time:	15:59:51	Max. Depth (ft):	3.218														
Manufacturer:	TRDI	End Time:	16:21:54	Width (ft):	34.244														
Model:	StreamPro	Stage Start:	0.00	Width COV (%):	2.26														
Serial Number:	2673	Stage End:	0.00	Area (ft2):	73.897														
Firmware:	31.19	Mean Stage:	0.00	Area COV (%):	1.86														
Frequency (kHz):	2000	Mean Boat Speed (ft/s):	0.178	Uncertainty															
Premeasurement		Top Extrap:	Constant	Uncertainty Method: QRev															
W. Temp. (C):	23.1	Bottom Extrap:	No Slip	95% Total Uncertainty: 5.7 <table><thead><tr><th>Component</th><th>Percent of Total</th></tr></thead><tbody><tr><td>COV</td><td>~65%</td></tr><tr><td>Systematic</td><td>~25%</td></tr><tr><td>Moving-bed</td><td>~5%</td></tr><tr><td>Extrap.</td><td>~5%</td></tr><tr><td>Edges</td><td>~5%</td></tr><tr><td>Invalid</td><td>~5%</td></tr></tbody></table>		Component	Percent of Total	COV	~65%	Systematic	~25%	Moving-bed	~5%	Extrap.	~5%	Edges	~5%	Invalid	~5%
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Extrap.	~5%																		
Edges	~5%																		
Invalid	~5%																		
W. Temp. ADCP (C):		Extrap Exponent:	0.1739																
System Test:	Passed	Discharg COV (%):	4.41																
Compass Cal/Eval:	1.22	Top Q (%):	14.35																
Magnetic Variaton:	13.5	Measured Q (%):	67.20																
MovBed Test Type:	Loop	Left Q (%):	1.56																
MovBed Test Quality:	Good	Right Q (%):	1.03																
MovBed Test Dur.(s):	268.4	Bottom Q (%):	15.86																
Max MovBed (%):	0.38	Invalid Cells Q (%):	0.05																
Q Correction (%):	0.00	Invalid Ensembles Q (%):	0.47																

Automated QA Messages:

WARNINGS

Cautions

- Compass: Evaluation result > 1 deg;
- Moving-Bed Test: Loop test used but compass calibration is caution
- Site Info: Station number not entered;
- Edges: User modified start edge.

Comments:

- MMT Remarks:
- [Main, 2025-08-18 17:11:54, ADCPH]: No station number for this site. ADCP deployment method used was the tug of war. Extra rope was slightly stretchy and caused some unwanted boat movement, nothing extreme. User accidentally did not change start edge to correct notation, start edge was corrected in Qrev. Measurement conditions were sunny and hot (mid-80s F), with slight northly wind.



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Comments:

- [Main, 2025-08-18 17:15:14, ADCPH]: Compass calibration metric used was less than two degrees, not one degree.
- [2025-08-18 17:15:49, ADCPH]: File Saved Q = 79.97 ft3/s (Uncertainty: 5.7%)

ID	File Name
0	08182025_SodhouseGage_0_000_25-08-18.PD0
1	08182025_SodhouseGage_0_001_25-08-18.PD0
2	08182025_SodhouseGage_0_002_25-08-18.PD0
3	08182025_SodhouseGage_0_003_25-08-18.PD0
4	08182025_SodhouseGage_0_004_25-08-18.PD0
5	08182025_SodhouseGage_0_005_25-08-18.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)
						(ft3/s)	(ft3/s)			
0	Right	15:59:51	16:03:40	228.3	10.25	53.96	12.95	1.19	1.67	80.02
1	Left	16:04:01	16:07:42	220.8	12.2	54.84	13.18	1.36	0.78	82.36
2	Right	16:08:50	16:12:07	196.8	11.0	50.04	11.73	0.97	0.54	74.28
3	Left	16:12:38	16:16:16	218.0	12.43	55.52	13.12	1.16	0.57	82.8
4	Right	16:17:33	16:21:06	213.2	12.23	55.68	13.1	1.27	0.74	83.02
5	Left	16:21:54	16:25:29	215.3	10.73	52.4	12.02	1.54	0.65	77.34
				1292.4	11.47	53.74	12.68	1.25	0.83	79.97

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	Right	Triangular	3.00	10	0.3535	Triangular	3.00	10	0.3535
1	Left	Triangular	3.00	10	0.3535	Triangular	3.00	10	0.3535
2	Right	Triangular	3.00	10	0.3535	Triangular	3.00	10	0.3535
3	Left	Triangular	3.00	10	0.3535	Triangular	3.00	10	0.3535
4	Right	Triangular	3.00	10	0.3535	Triangular	3.00	10	0.3535
5	Left	Triangular	3.00	10	0.3535	Triangular	3.00	10	0.3535



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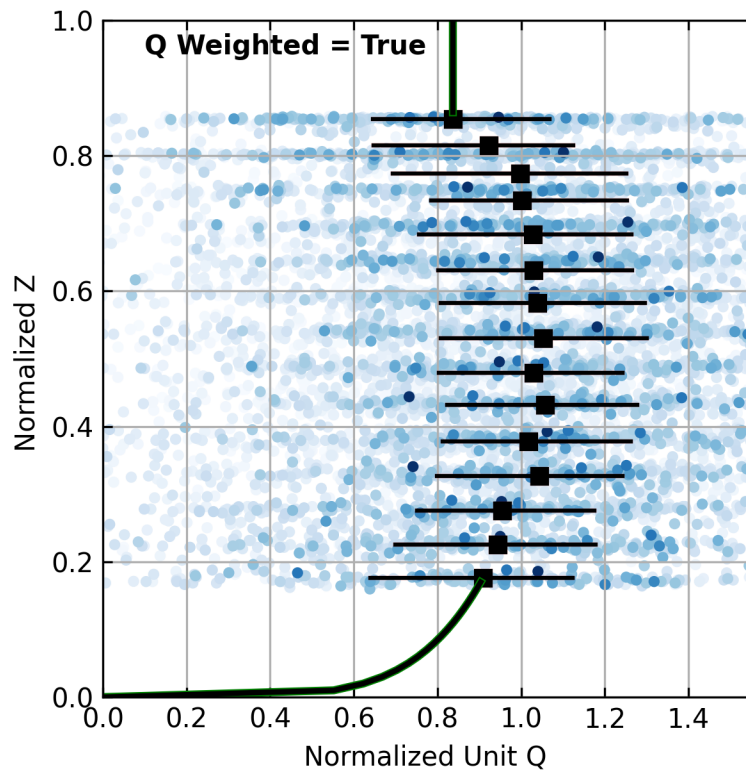
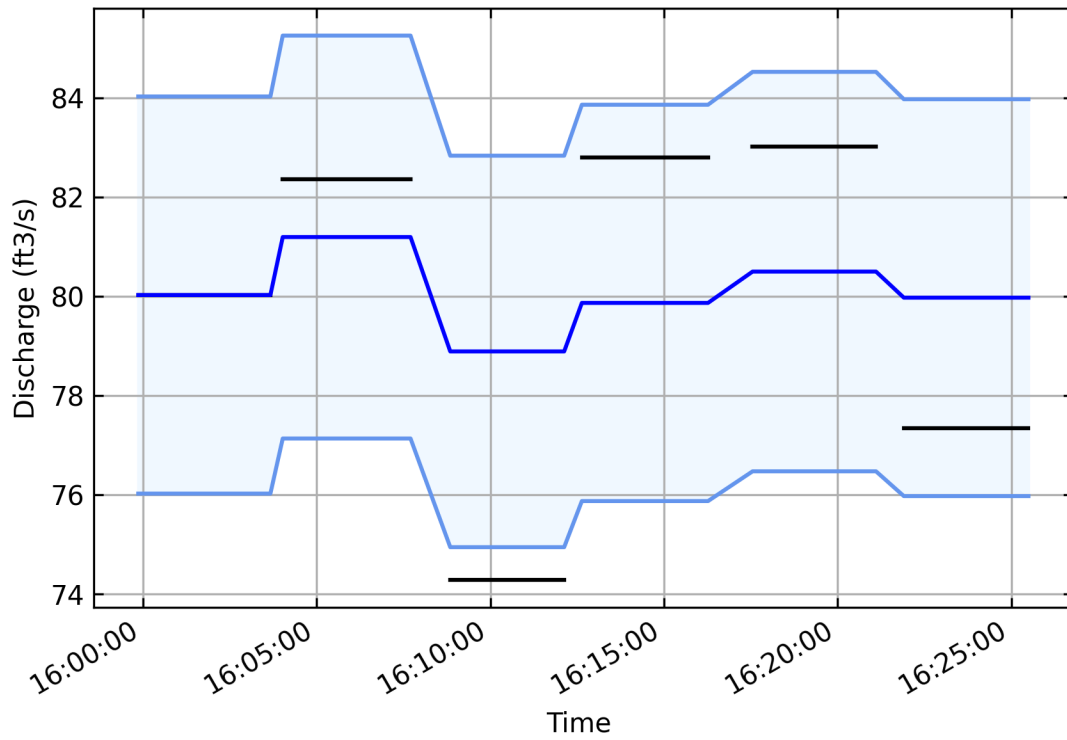
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Measurement Date: 2025.08.18

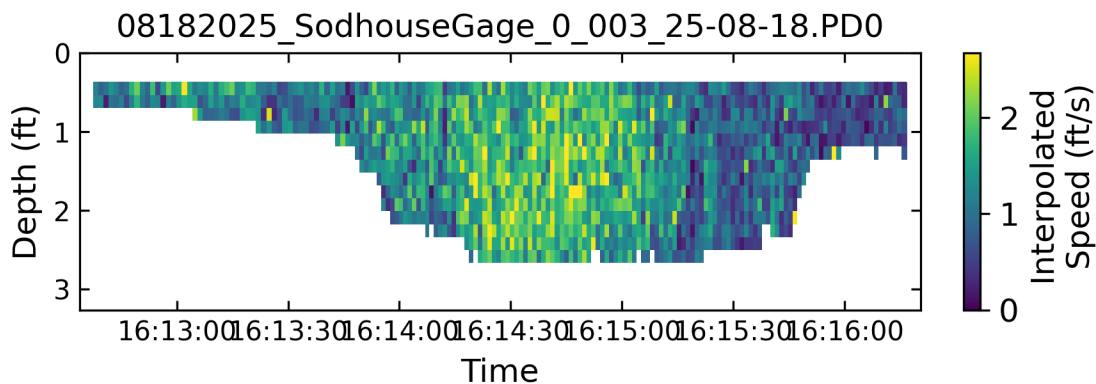
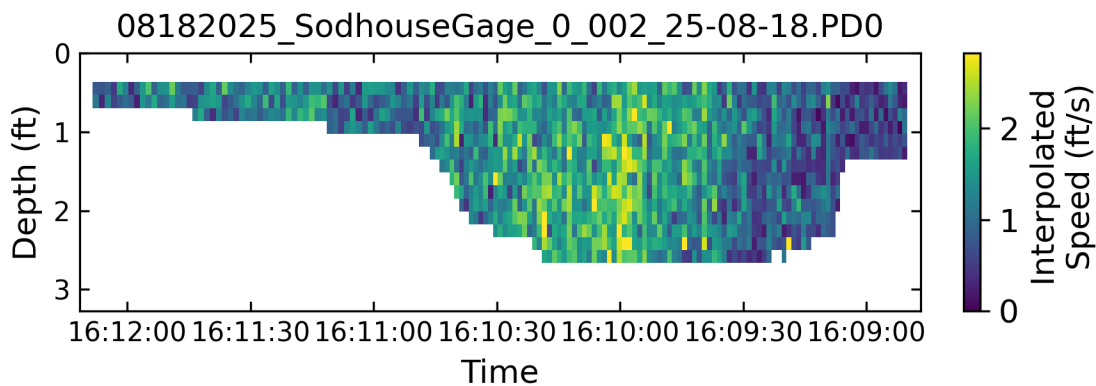
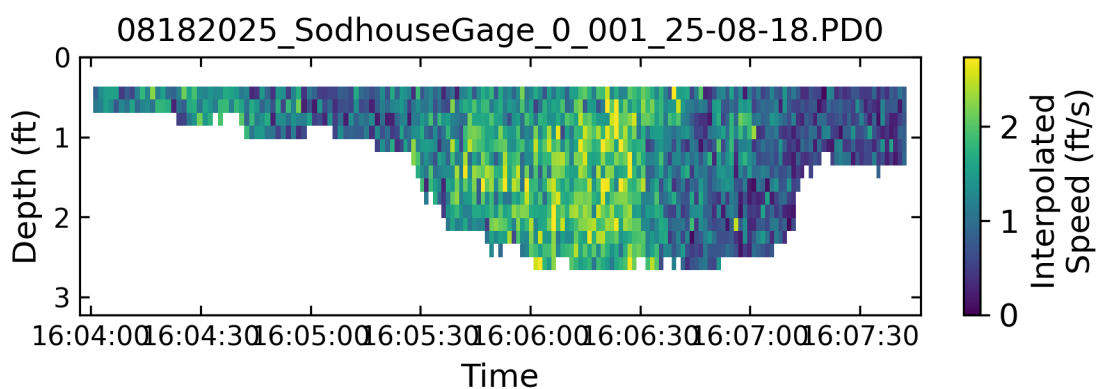
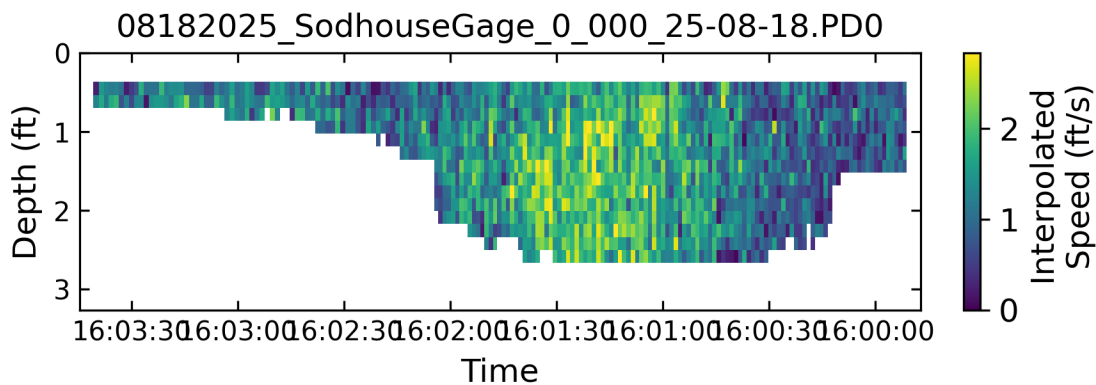
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Station Number:

Measurement Date: 2025.08.18

Measurement Number: 0

Discharge: 79.97

Stage: 0.00

User Rating: Not Rated

Processed: 2025.08.18 17:15:58

