

Discharge Measurement Summary

Site name W-Canal2
Site number 002
Operator(s) TMiller
File name WestCanal_20230406_1113.ft
Comment

Start time	4/6/2023 11:13 AM	Sensor type	Top Setting
End time	4/6/2023 11:55 AM	Handheld serial number	FT2H2219029
Start location latitude	42.810	Probe serial number	FT2P2219014
Start location longitude	-118.871	Probe firmware	1.30
Calculations engine	FlowTracker2	Handheld software	1.7

# Stations	Avg interval (s)	Total discharge (m³/s)
16	40	0.4456

Total width (m)	Total area (m²)	Wetted Perimeter (m)
4.633	2.23320	4.976

Mean SNR (dB)	Mean depth (m)	Mean velocity (m/s)
29	0.482	0.1995

Mean temp (°C)	Max depth (m)	Max velocity (m/s)
5.126	0.643	0.2966

Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.1%	1.7%
Velocity	0.4%	5.5%
Width	0.1%	0.1%
Method	1.2%	
# Stations	3.1%	
Overall	3.5%	5.8%

Discharge equation	Mid Section
Discharge uncertainty	IVE
Discharge reference	Rated

Data Collection Settings	
Salinity	0.000 PSS-78
Temperature	-
Sound speed	-
Mounting correction	0.000 %

Summary overview

No changes were made to this file
Quality control warnings

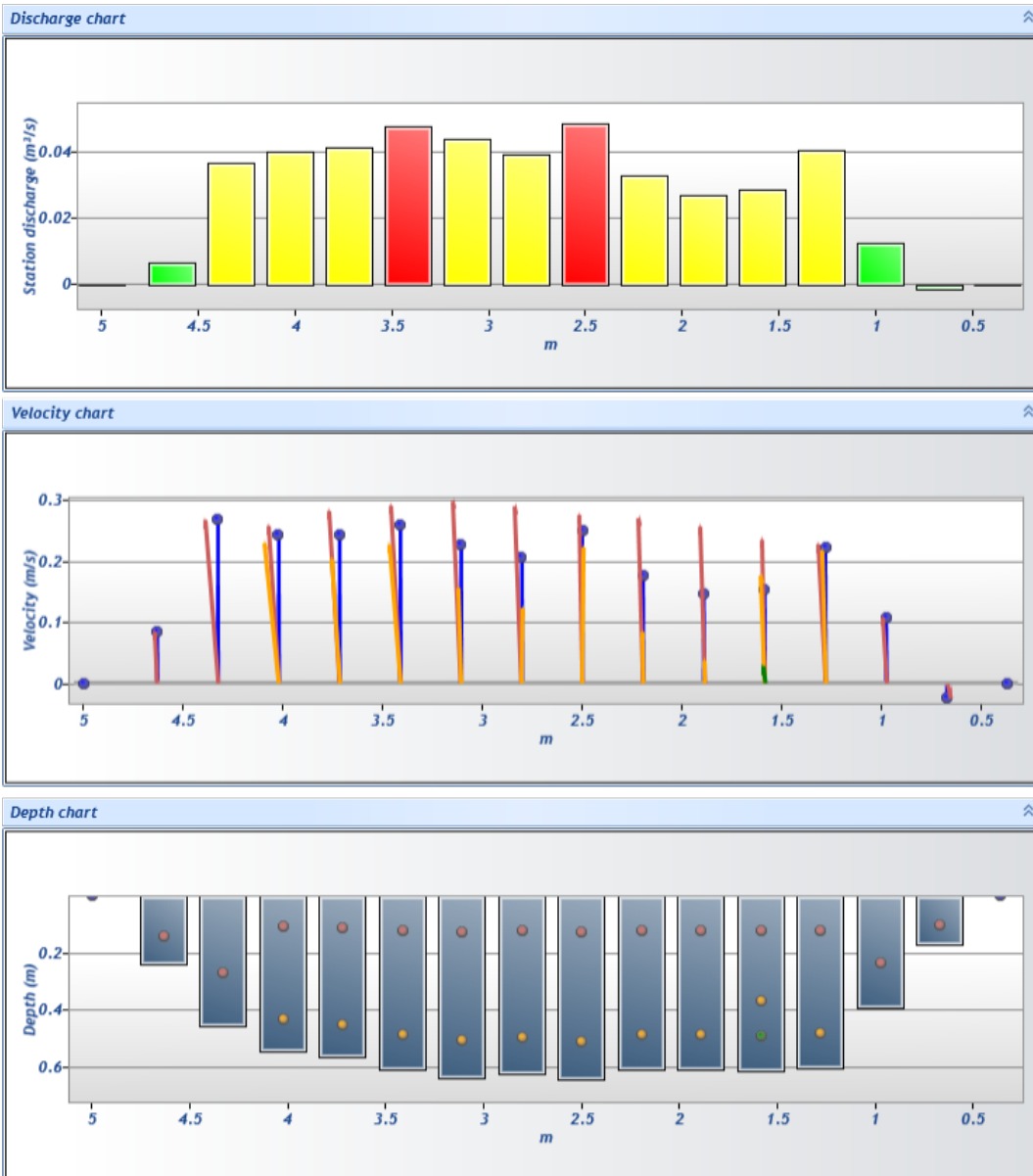


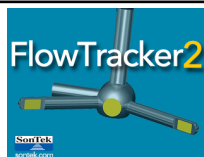
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Station Warning Settings

Station discharge OK	Station discharge < 5.00%
Station discharge caution	5.00% >= Station discharge < 10.00%
Station discharge warning	Station discharge >= 10.00%

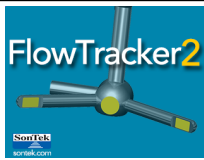




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Measurement results														
St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Samples	Velocity (m/s)	Correction	Mean Velocity (m/s)	Area (m ²)	Flow (m ³ /s)	%Q	
0	11:13 AM	0.366	None	0.000	0.0000	0.000	0	0.0000	1.0000	-0.0235	0.00000	0.0000	0.00	✓
1	11:14 AM	0.671	0.6	0.171	0.6000	0.102	80	-0.0235	1.0000	-0.0235	0.05203	-0.0012	-0.27	✓
2	11:18 AM	0.975	0.6	0.390	0.6000	0.234	80	0.1076	1.0000	0.1076	0.11892	0.0128	2.87	✓
3	11:20 AM	1.280	0.2/0.8	0.604	0.2000	0.121	80	0.2271	1.0000	0.2214	0.18395	0.0407	9.14	✓
3	11:20 AM	1.280	0.2/0.8	0.604	0.8000	0.483	80	0.2157	1.0000	0.2214	0.18395	0.0407	9.14	✓
4	11:24 AM	1.585	0.2/0.6/0.8	0.613	0.2000	0.123	80	0.2341	1.0000	0.1535	0.18674	0.0287	6.43	✓
4	11:24 AM	1.585	0.2/0.6/0.8	0.613	0.6000	0.368	80	0.1760	1.0000	0.1535	0.18674	0.0287	6.43	✓
4	11:24 AM	1.585	0.2/0.6/0.8	0.613	0.8000	0.490	80	0.0279	1.0000	0.1535	0.18674	0.0287	6.43	✓
5	11:29 AM	1.890	0.2/0.8	0.607	0.2000	0.121	80	0.2557	1.0000	0.1463	0.18488	0.0271	6.07	✓
5	11:29 AM	1.890	0.2/0.8	0.607	0.8000	0.485	80	0.0370	1.0000	0.1463	0.18488	0.0271	6.07	✓
6	11:31 AM	2.195	0.2/0.8	0.610	0.2000	0.122	80	0.2694	1.0000	0.1766	0.18581	0.0328	7.36	✓
6	11:31 AM	2.195	0.2/0.8	0.610	0.8000	0.488	80	0.0838	1.0000	0.1766	0.18581	0.0328	7.36	✓
7	11:34 AM	2.499	0.2/0.8	0.643	0.2000	0.129	80	0.2749	1.0000	0.2484	0.19603	0.0487	10.93	✓
7	11:34 AM	2.499	0.2/0.8	0.643	0.8000	0.515	80	0.2220	1.0000	0.2484	0.19603	0.0487	10.93	✓
8	11:37 AM	2.804	0.2/0.8	0.625	0.2000	0.125	80	0.2890	1.0000	0.2062	0.19045	0.0393	8.81	✓
8	11:37 AM	2.804	0.2/0.8	0.625	0.8000	0.500	80	0.1234	1.0000	0.2062	0.19045	0.0393	8.81	✓
9	11:40 AM	3.109	0.2/0.8	0.637	0.2000	0.127	80	0.2966	1.0000	0.2262	0.19417	0.0439	9.86	✓
9	11:40 AM	3.109	0.2/0.8	0.637	0.8000	0.510	80	0.1558	1.0000	0.2262	0.19417	0.0439	9.86	✓
10	11:43 AM	3.414	0.2/0.8	0.607	0.2000	0.121	80	0.2896	1.0000	0.2577	0.18488	0.0476	10.69	✓
10	11:43 AM	3.414	0.2/0.8	0.607	0.8000	0.485	80	0.2257	1.0000	0.2577	0.18488	0.0476	10.69	✓
11	11:45 AM	3.719	0.2/0.8	0.564	0.2000	0.113	80	0.2810	1.0000	0.2418	0.17187	0.0416	9.33	✓
11	11:45 AM	3.719	0.2/0.8	0.564	0.8000	0.451	80	0.2027	1.0000	0.2418	0.17187	0.0416	9.33	✓
12	11:49 AM	4.023	0.2/0.8	0.543	0.2000	0.109	80	0.2567	1.0000	0.2427	0.16537	0.0401	9.01	✓
12	11:49 AM	4.023	0.2/0.8	0.543	0.8000	0.434	80	0.2286	1.0000	0.2427	0.16537	0.0401	9.01	✓
13	11:52 AM	4.328	0.6	0.454	0.6000	0.272	80	0.2664	1.0000	0.2664	0.13843	0.0369	8.28	✓
14	11:53 AM	4.633	0.6	0.238	0.6000	0.143	80	0.0840	1.0000	0.0840	0.07971	0.0067	1.50	✓
15	11:55 AM	4.999	None	0.000	0.0000	0.000	0	0.0000		0.0840	0.00000	0.0000	0.00	✓

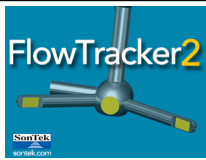


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Quality Control Settings	
Maximum depth change	50.00%
Maximum spacing change	100.00%
SNR threshold	10 dB
Standard error threshold	0.0100 m/s
Spike threshold	10.00%
Maximum velocity angle	20.0 deg
Maximum tilt angle	5.0 deg

Quality control warnings							
St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Warnings
1	11:14 AM	0.671	0.6	0.171	0.6000	0.102	SNR Threshold Variation, Velocity Angle > QC
4	11:24 AM	1.585	0.2/0.6/0.8	0.613	0.2000	0.123	Velocity Angle > QC
4	11:24 AM	1.585	0.2/0.6/0.8	0.613	0.6000	0.368	Velocity Angle > QC
4	11:24 AM	1.585	0.2/0.6/0.8	0.613	0.8000	0.490	Velocity Angle > QC
7	11:34 AM	2.499	0.2/0.8	0.643	0.2000	0.129	High Stn % Discharge
7	11:34 AM	2.499	0.2/0.8	0.643	0.8000	0.515	High Stn % Discharge
10	11:43 AM	3.414	0.2/0.8	0.607	0.2000	0.121	High Stn % Discharge
10	11:43 AM	3.414	0.2/0.8	0.607	0.8000	0.485	High Stn % Discharge
14	11:53 AM	4.633	0.6	0.238	0.6000	0.143	Beam SNRs Not Similar
15	11:55 AM	4.999	None	0.000	0.0000	0.000	Water Depth > QC



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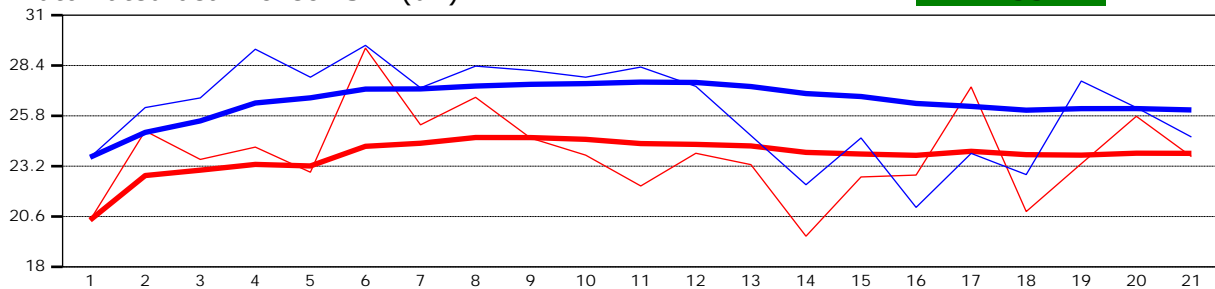
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Beam 1	
Beam 2	

Automated beam check Start time 4/6/2023 11:13:31 AM

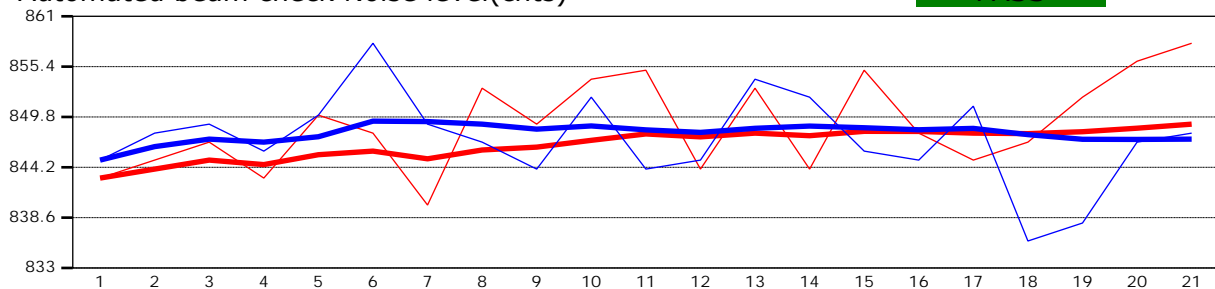
Automated beam check SNR(dB)

PASS



Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



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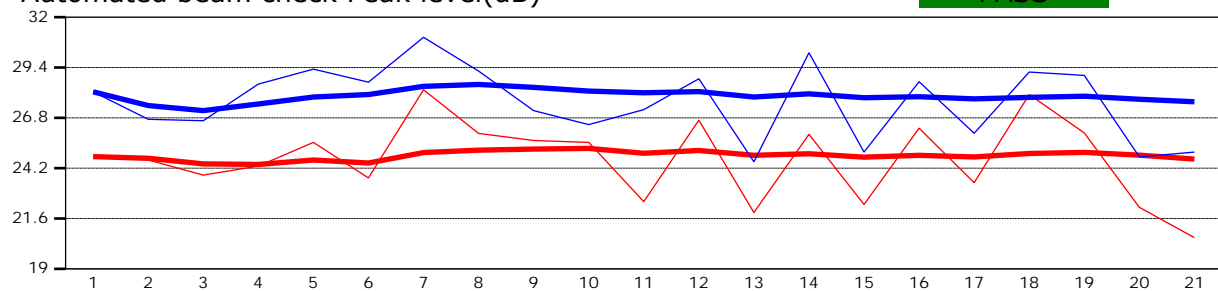
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Beam 1	
Beam 2	

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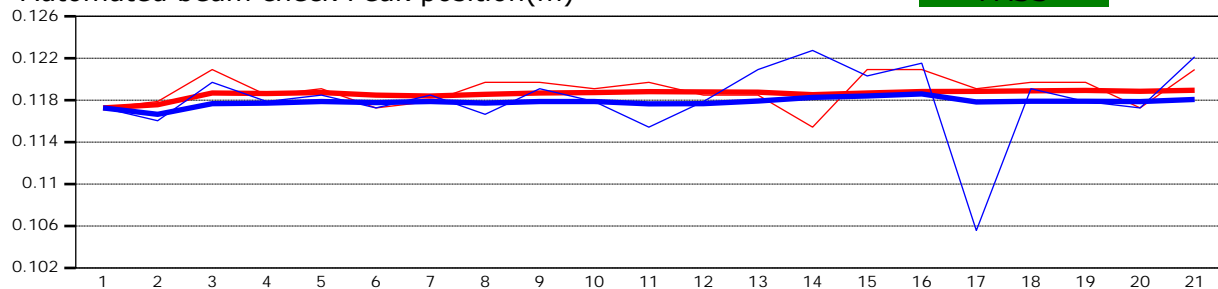
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(m)

PASS



Automated beam check Quality control warnings

No quality control warnings