

Discharge Measurement Summary

Site name Center4
Site number 04
Operator(s) VAllen
File name Center4_20230606-111947.ft
Comment

Start time	6/6/2023 9:28 AM	Sensor type	Top Setting
End time	6/6/2023 11:12 AM	Handheld serial number	FT2H2219029
Start location latitude	43.029	Probe serial number	FT2P2219014
Start location longitude	-118.842	Probe firmware	1.30
Calculations engine	FlowTracker2	Handheld software	1.7

# Stations	Avg interval (s)	Total discharge (m³/s)
36	40	0.4008

Total width (m)	Total area (m²)	Wetted Perimeter (m)
8.108	6.33478	8.672

Mean SNR (dB)	Mean depth (m)	Mean velocity (m/s)
34	0.781	0.0633

Mean temp (°C)	Max depth (m)	Max velocity (m/s)
13.859	1.158	-0.5561

Discharge Uncertainty		
Category	ISO	IVE
Accuracy	1.0%	1.0%
Depth	0.1%	0.7%
Velocity	1.5%	7.0%
Width	0.1%	0.1%
Method	0.7%	
# Stations	1.4%	
Overall	2.4%	7.1%

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%

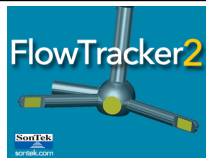
Station discharge caution

5.00% >= Station discharge < 10.00%

Station discharge warning

Station discharge >= 10.00%

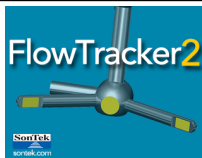




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Measurement results															
St#	Time	Location (m)	Method	Depth (m)	%Depth	Measured Depth (m)	Samples	Velocity (m/s)	Correction	Mean Velocity (m/s)	Area (m ²)	Flow (m ³ /s)	%Q		
0	9:28 AM	0.335	None	0.000	0.0000	0.000	0	0.0000	1.0000	0.0169	0.00000	0.0000	0.00	✓	
1	9:28 AM	0.610	0.6	0.277	0.6000	0.166	80	0.0169	1.0000	0.0169	0.08031	0.0014	0.34	✓	
2	9:30 AM	0.914	0.6	0.375	0.6000	0.225	80	0.0297	1.0000	0.0297	0.11427	0.0034	0.85	✓	
3	9:33 AM	1.219	0.2/0.8	0.524	0.2000	0.105	80	0.0501	1.0000	0.0492	0.15979	0.0079	1.96	✓	
3	9:33 AM	1.219	0.2/0.8	0.524	0.8000	0.419	80	0.0483	1.0000	0.0492	0.15979	0.0079	1.96	✓	
4	9:36 AM	1.524	0.2/0.8	0.628	0.2000	0.126	80	0.0576	1.0000	0.0569	0.19138	0.0109	2.72	✓	
4	9:36 AM	1.524	0.2/0.8	0.628	0.8000	0.502	80	0.0562	1.0000	0.0569	0.19138	0.0109	2.72	✓	
5	9:39 AM	1.829	0.2/0.8	0.725	0.2000	0.145	80	0.0689	1.0000	0.0639	0.22111	0.0141	3.52	✓	
5	9:39 AM	1.829	0.2/0.8	0.725	0.8000	0.580	80	0.0588	1.0000	0.0639	0.22111	0.0141	3.52	✓	
6	9:42 AM	2.134	0.2/0.8	0.796	0.2000	0.159	80	0.0775	1.0000	0.0726	0.24248	0.0176	4.39	✓	
6	9:42 AM	2.134	0.2/0.8	0.796	0.8000	0.636	80	0.0676	1.0000	0.0726	0.24248	0.0176	4.39	✓	
7	9:44 AM	2.438	0.2/0.6/0.8	0.878	0.2000	0.176	80	0.0695	1.0000	0.0749	0.26756	0.0201	5.00	✓	
7	9:44 AM	2.438	0.2/0.6/0.8	0.878	0.6000	0.527	80	0.0798	1.0000	0.0749	0.26756	0.0201	5.00	✓	
7	9:44 AM	2.438	0.2/0.6/0.8	0.878	0.8000	0.702	80	0.0708	1.0000	0.0749	0.26756	0.0201	5.00	✓	
8	9:48 AM	2.743	0.2/0.6/0.8	0.890	0.2000	0.178	80	0.0663	1.0000	0.0758	0.27128	0.0206	5.13	✓	
8	9:48 AM	2.743	0.2/0.6/0.8	0.890	0.6000	0.534	80	0.0825	1.0000	0.0758	0.27128	0.0206	5.13	✓	
8	9:48 AM	2.743	0.2/0.6/0.8	0.890	0.8000	0.712	80	0.0720	1.0000	0.0758	0.27128	0.0206	5.13	✓	
9	9:52 AM	3.048	0.2/0.6/0.8	0.917	0.2000	0.183	80	0.0776	1.0000	0.0821	0.27964	0.0230	5.73	✓	
9	9:52 AM	3.048	0.2/0.6/0.8	0.917	0.6000	0.550	80	0.0864	1.0000	0.0821	0.27964	0.0230	5.73	✓	
9	9:52 AM	3.048	0.2/0.6/0.8	0.917	0.8000	0.734	80	0.0781	1.0000	0.0821	0.27964	0.0230	5.73	✓	
10	9:56 AM	3.353	0.2/0.8	0.951	0.2000	0.190	80	0.0919	1.0000	0.0855	0.21739	0.0186	4.64	✓	
10	9:56 AM	3.353	0.2/0.8	0.951	0.8000	0.761	80	0.0791	1.0000	0.0855	0.21739	0.0186	4.64	✓	
11	11:12 AM	3.505	0.2/0.8	0.933	0.2000	0.187	80	0.0867	1.0000	0.0797	0.14214	0.0113	2.82	✓	
11	11:12 AM	3.505	0.2/0.8	0.933	0.8000	0.746	80	0.0726	1.0000	0.0797	0.14214	0.0113	2.82	✓	
12	9:58 AM	3.658	0.2/0.8	0.975	0.2000	0.195	80	0.0899	1.0000	0.0836	0.14864	0.0124	3.10	✓	
12	9:58 AM	3.658	0.2/0.8	0.975	0.8000	0.780	80	0.0772	1.0000	0.0836	0.14864	0.0124	3.10	✓	
13	11:09 AM	3.810	0.2/0.8	1.003	0.2000	0.201	80	0.0918	1.0000	0.0826	0.15283	0.0126	3.15	✓	
13	11:09 AM	3.810	0.2/0.8	1.003	0.8000	0.802	80	0.0734	1.0000	0.0826	0.15283	0.0126	3.15	✓	
14	10:01 AM	3.962	0.2/0.8	0.997	0.2000	0.199	80	0.0924	1.0000	0.0842	0.15190	0.0128	3.19	✓	
14	10:01 AM	3.962	0.2/0.8	0.997	0.8000	0.797	80	0.0760	1.0000	0.0842	0.15190	0.0128	3.19	✓	
15	11:06 AM	4.115	0.2/0.8	1.045	0.2000	0.209	80	0.0922	1.0000	0.0844	0.15933	0.0135	3.36	✓	
15	11:06 AM	4.115	0.2/0.8	1.045	0.8000	0.836	80	0.0767	1.0000	0.0844	0.15933	0.0135	3.36	✓	
16	10:03 AM	4.267	0.2/0.6/0.8	1.039	0.2000	0.208	80	0.0915	1.0000	0.0973	0.15840	0.0154	3.85	✓	
16	10:03 AM	4.267	0.2/0.6/0.8	1.039	0.6000	0.624	80	0.1021	1.0000	0.0973	0.15840	0.0154	3.85	✓	
16	10:03 AM	4.267	0.2/0.6/0.8	1.039	0.8000	0.831	80	0.0936	1.0000	0.0973	0.15840	0.0154	3.85	✓	
17	10:47 AM	4.420	0.2/0.8	1.039	0.2000	0.208	80	0.0872	1.0000	0.0856	0.15840	0.0136	3.38	✓	
17	10:47 AM	4.420	0.2/0.8	1.039	0.8000	0.831	80	0.0839	1.0000	0.0856	0.15840	0.0136	3.38	✓	
18	10:07 AM	4.572	0.2/0.8	1.045	0.2000	0.209	80	0.0916	1.0000	0.0853	0.15933	0.0136	3.39	✓	
18	10:07 AM	4.572	0.2/0.8	1.045	0.8000	0.836	80	0.0790	1.0000	0.0853	0.15933	0.0136	3.39	✓	
19	10:49 AM	4.724	0.2/0.8	1.067	0.2000	0.213	80	0.0874	1.0000	0.0809	0.16258	0.0131	3.28	✓	
19	10:49 AM	4.724	0.2/0.8	1.067	0.8000	0.853	80	0.0743	1.0000	0.0809	0.16258	0.0131	3.28	✓	
20	10:10 AM	4.877	0.2/0.8	1.103	0.2000	0.221	80	0.0919	1.0000	0.0845	0.16815	0.0142	3.55	✓	
20	10:10 AM	4.877	0.2/0.8	1.103	0.8000	0.883	80	0.0771	1.0000	0.0845	0.16815	0.0142	3.55	✓	
21	10:52 AM	5.029	0.2/0.8	1.109	0.2000	0.222	80	0.0895	1.0000	0.0844	0.16908	0.0143	3.56	✓	
21	10:52 AM	5.029	0.2/0.8	1.109	0.8000	0.888	80	0.0792	1.0000	0.0844	0.16908	0.0143	3.56	✓	
22	10:13 AM	5.182	0.2/0.8	1.097	0.2000	0.219	80	0.0895	1.0000	0.0861	0.16723	0.0144	3.59	✓	
22	10:13 AM	5.182	0.2/0.8	1.097	0.8000	0.878	80	0.0828	1.0000	0.0861	0.16723	0.0144	3.59	✓	
23	10:55 AM	5.334	0.2/0.6/0.8	1.097	0.2000	0.219	80	0.0781	1.0000	0.0836	0.16723	0.0140	3.49	✓	
23	10:55 AM	5.334	0.2/0.6/0.8	1.097	0.6000	0.658	80	0.0887	1.0000	0.0836	0.16723	0.0140	3.49	✓	
23	10:55 AM	5.334	0.2/0.6/0.8	1.097	0.8000	0.878	80	0.0788	1.0000	0.0836	0.16723	0.0140	3.49	✓	
24	10:16 AM	5.486	0.2/0.8	1.119	0.2000	0.224	80	0.0770	1.0000	0.0726	0.17048	0.0124	3.09	✓	
24	10:16 AM	5.486	0.2/0.8	1.119	0.8000	0.895	80	0.0682	1.0000	0.0726	0.17048	0.0124	3.09	✓	
25	11:01 AM	5.639	0.2/0.8	1.134	0.2000	0.227	80	0.0816	1.0000	0.0677	0.17280	0.0117	2.92	✓	
25	11:01 AM	5.639	0.2/0.8	1.134	0.8000	0.907	80	0.0537	1.0000	0.0677	0.17280	0.0117	2.92	✓	
26	10:19 AM	5.791	0.2/0.8	1.125	0.2000	0.225	80	0.0747	1.0000	0.0687	0.17141	0.0118	2.94	✓	
26	10:19 AM	5.791	0.2/0.8	1.125	0.8000	0.900	80	0.0628	1.0000	0.0687	0.17141	0.0118	2.94	✓	
27	11:03 AM	5.944	0.2/0.8	1.158	0.2000	0.232	80	0.0760	1.0000	0.0735	0.17652	0.0130	3.23	✓	
27	11:03 AM	5.944	0.2/0.8	1.158	0.8000	0.927	80	0.0709	1.0000	0.0735	0.17652	0.0130	3.23	✓	
28	10:21 AM	6.096	0.2/0.8	1.052	0.2000	0.210	80	0.0713	1.0000	0.0637	0.24039	0.0153	3.82	✓	
28	10:21 AM	6.096	0.2/0.8	1.052	0.8000	0.841	80	0.0561	1.0000	0.0637	0.24039	0.0153	3.82	✓	
29	10:24 AM	6.401	0.2/0.8	0.978	0.2000	0.196	80	0.0762	1.0000	0.0695	0.29822	0.0207	5.17	✓	
29	10:24 AM	6.401	0.2/0.8	0.978	0.8000	0.783	80	0.0627	1.0000	0.0695	0.29822	0.0207	5.17	✓	
30	10:27 AM	6.706	0.2/0.6/0.8	0.936	0.2000	0.187	80	0.0565	1.0000	0.0526	0.28521	0.0150	3.74	✓	
30	10:27 AM	6.706	0.2/0.6/0.8	0.936	0.6000	0.561	80	0.0658	1.0000	0.0526	0.28521	0.0150	3.74	✓	
30	10:27 AM	6.706	0.2/0.6/0.8	0.936	0.8000	0.749	80	0.0224	1.0000	0.0526	0.28521	0.0150	3.74	✓	
31	10:33 AM	7.010	0.2/0.8	0.893	0.2000	0.179	80	0.0469	1.0000	0.0370	0.27221	0.0101	2.51	✓	
31	10:33 AM	7.010	0.2/0.8	0.893	0.8000	0.714	80	0.0271	1.0000	0.0370	0.27221	0.0101	2.51	✓	
32	10:36 AM	7.315	0.2/0.6/0.8	0.658	0.2000	0.132	80	0.0301	1.0000	-0.1167	0.20067	-0.0234	-5.84	✓	
32	10:36 AM	7.315	0.2/0.6/0.8	0.658	0.6000	0.395	80	0.0296	1.0000	-0.1167	0.20067	-0.0234	-5.84	✓	
32	10:36 AM	7.315	0.2/0.6/0.8	0.658	0.8000	0.527	80	-0.5561	1.0000	-0.1167	0.20067	-0.0234	-5.84	✓	
33	10:41 AM	7.620	0.6	0.405	0.6000	0.243	80	0.0084	1.0000	0.0084	0.12356	0.0010	0.26	✓	
34	10:43 AM	7.925	0.6	0.274	0.6000	0.165	80	0.0062	1.0000	0.0062	0.11288	0.0007	0.18	✓	
35	10:45 AM	8.443	None	0.000	0.0000	0.000	0	0.0000		0.0062	0.00000	0.0000	0.00	✓	



Discharge Measurement Summary

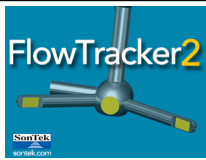
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Quality Control Settings

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
2	9:30 AM	0.914	0.6	0.375	0.6000	0.225	Large SNR Variation
23	10:55 AM	5.334	0.2/0.6/0.8	1.097	0.2000	0.219	Velocity Angle > QC
23	10:55 AM	5.334	0.2/0.6/0.8	1.097	0.6000	0.658	Velocity Angle > QC
23	10:55 AM	5.334	0.2/0.6/0.8	1.097	0.8000	0.878	Velocity Angle > QC
30	10:27 AM	6.706	0.2/0.6/0.8	0.936	0.2000	0.187	Velocity Angle > QC
30	10:27 AM	6.706	0.2/0.6/0.8	0.936	0.6000	0.561	Velocity Angle > QC
30	10:27 AM	6.706	0.2/0.6/0.8	0.936	0.8000	0.749	Velocity Angle > QC
31	10:33 AM	7.010	0.2/0.8	0.893	0.2000	0.179	Boundary Interference, Large SNR Variation, SNR Threshold Variation, Velocity Angle > QC
31	10:33 AM	7.010	0.2/0.8	0.893	0.8000	0.714	Boundary Interference, Large SNR Variation, SNR Threshold Variation, Velocity Angle > QC
32	10:36 AM	7.315	0.2/0.6/0.8	0.658	0.2000	0.132	Large SNR Variation, SNR Threshold Variation, Standard Error > QC, High % Spikes, Velocity Angle > QC
32	10:36 AM	7.315	0.2/0.6/0.8	0.658	0.6000	0.395	Large SNR Variation, SNR Threshold Variation, Standard Error > QC, High % Spikes, Velocity Angle > QC
32	10:36 AM	7.315	0.2/0.6/0.8	0.658	0.8000	0.527	Large SNR Variation, SNR Threshold Variation, Standard Error > QC, High % Spikes, Velocity Angle > QC
33	10:41 AM	7.620	0.6	0.405	0.6000	0.243	SNR Threshold Variation
34	10:43 AM	7.925	0.6	0.274	0.6000	0.165	SNR Threshold Variation
35	10:45 AM	8.443	None	0.000	0.0000	0.000	Water Depth > QC



Discharge Measurement Summary

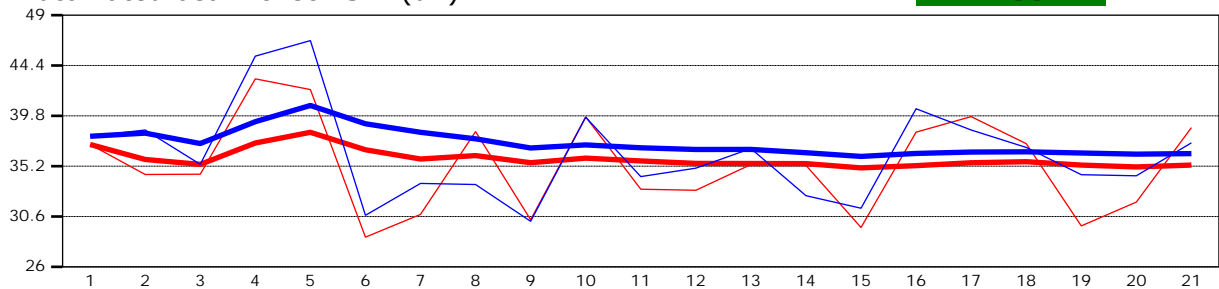
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Beam 1	
Beam 2	

Automated beam check Start time 6/6/2023 9:26:41 AM

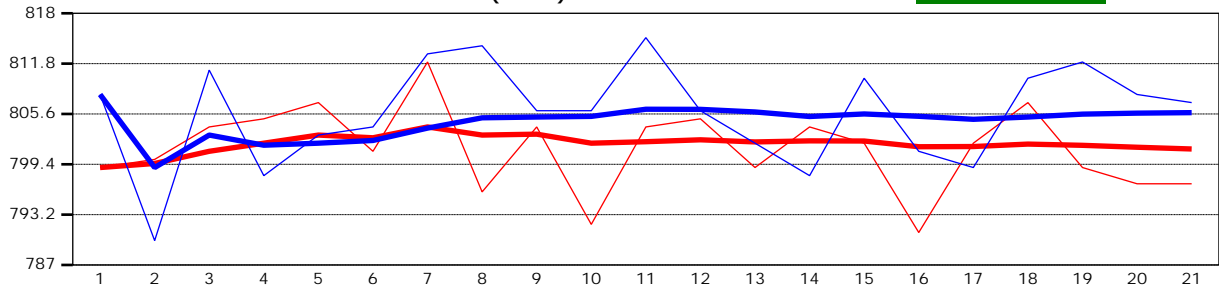
Automated beam check SNR(dB)

PASS



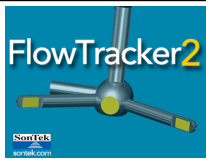
Automated beam check Noise level(cnts)

PASS



Automated beam check Quality control warnings

No quality control warnings



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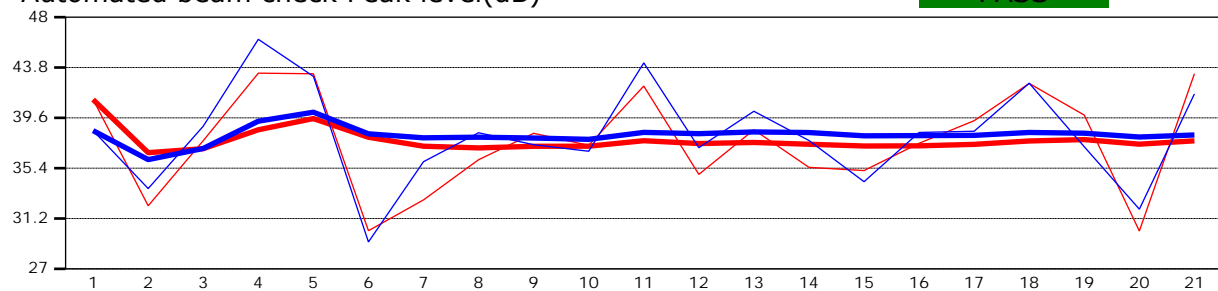
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Beam 1	
Beam 2	

Automated beam check Start time 6/6/2023 9:26:41 AM

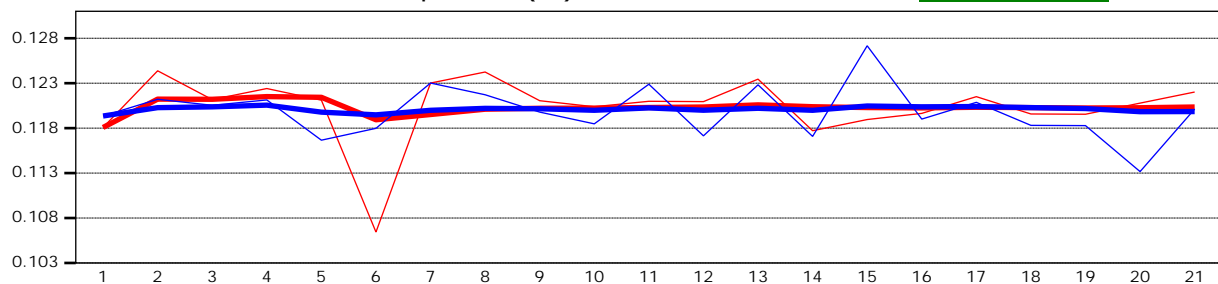
Automated beam check Peak level(dB)

PASS



Automated beam check Peak position(m)

PASS



Automated beam check Quality control warnings

No quality control warnings