



**Real-Time Water Quality Monitoring Network
Calibration and Maintenance Schedule
NF02ZM0009 – Waterford River**

The water quality probe is periodically removed to undergo necessary maintenance and calibration. Some of these removals are necessary to perform scheduled maintenance while others may be done in response to sudden fouling of the sensors or loss of calibration.

The maintenance/calibration process involves removing the water quality probe from the water body for cleaning, replacement of sensors and fluids, calibration and testing in a temperature-controlled laboratory. This usually takes place over a period of two days but may take longer for specific sites or to address unique problems.

Item Number	Date and time instrument was removed (mm/dd/yy)		Date and time Instrument was reinstalled (mm/dd/yy)		Reason	Remarks
1						
2	01/03/06	15:00	01/04/06	15:35	Maintenance/Calibration	
3	01/11/06	15:20	01/20/06	16:15	Maintenance/Calibration	
4	02/08/06	15:55	02/09/06	16:30	Maintenance/Calibration	
5	02/16/06	16:05	02/17/06	16:40	Maintenance/Calibration	
6	02/23/06	16:00	02/24/06	15:20	Maintenance/Calibration	
7	03/16/06	16:15	03/17/06	14:25	Maintenance/Calibration	
8	04/18/06	16:15	04/25/06	11:15	Maintenance/Calibration	
9	05/08/06	14:15	05/09/06	15:30	Maintenance/Calibration	
10	06/08/06	13:20	06/08/06	17:00	Maintenance/Calibration	
11	06/28/06	15:10	06/30/06	13:45	Maintenance/Calibration	
12	08/08/06	14:20	08/08/06	14:20	Maintenance/Calibration	
13	09/08/06	15:20	09/11/06	14:00	Maintenance/Calibration	
14	10/10/06	15:20	10/11/06	16:30	Maintenance/Calibration	
15	11/24/06	15:50	11/25/06	17:15	Maintenance/Calibration	
16	12/19/06	11:55	12/22/06	11:00	Maintenance/Calibration	
	01/19/07		01/22/07			
17	02/06/07	15:00	02/07/07	16:00	Maintenance/Calibration	
18	04/02/07	14:10	04/03/07	11:40	Maintenance/Calibration	
19	05/09/07	11:15	05/10/07	11:00	Maintenance/Calibration	
20	06/04/07	16:20	06/05/07	11:50	Maintenance/Calibration	
21	07/13/07	14:31	07/19/07	14:19	Maintenance/Calibration	
22	08/29/07	12:30	08/30/07	17:17	Maintenance/Calibration	
23	09/24/07	09:57	09/26/07	10:56	Maintenance/Calibration	
24	10/19/07	09:57	10/31/07	11:13	Maintenance/Calibration	Hydrolab stuck in steel pipe; need to

						modify pipe, data gap
25	11/20/07	11:09	11/23/07	14:32	Maintenance/Calibration	
26	12/06/07	12:00	12/07/07	16:44	Maintenance/Calibration	
27	01/10/08	11:45	02/15/08		Maintenance/Calibration	Hydrolab sent to manufacturer for routine performance analysis
28	03/27/08	12:15	03/28/08	11:00	Maintenance/Calibration	Hydrolab wedged inside pipe
29	06/05/08	15:22	06/09/08	15:00	Maintenance/Calibration	
30	08/27/08	10:10	08/27/08	14:00	Maintenance/Calibration	
31	09/23/08	14:00	09/24/08	14:00	Maintenance/Calibration	
32	10/31/08	13:30	11/03/08	14:15	Maintenance/Calibration	
33	12/02/08	15:30	12/03/08	15:00	Maintenance/Calibration	
34	01/29/09	08:00				Severed underwater cable attempting to remove hydrolab pipe from ice. Disconnected cable from datalogger in shack. Hydrolab out of commission until weather conditions improve.
35			04/13/09	15:15		Hydrolab and new data cable installed
36	05/26/09	11:30	05/26/09	16:30	Maintenance/Calibration	
37	06/23/09	12:30	06/24/09	10:30	Maintenance/Calibration	Issues with DO sensor
38	08/25/09	13:03	08/25/09	16:05	Maintenance/Calibration	DO sensor appears ok
39	09/28/09	16:15	09/30/09	10:25	Maintenance/Calibration	DO sensor not operating properly
40	10/22/09	15:00	10/22/09	16:45	Maintenance/Calibration	DO sensor not operating properly
41	11/26/09	13:00	11/26/09	13:00	Maintenance/Calibration	DO sensor not operating properly
42	02/08/10	10:41	02/08/10	14:00	Maintenance/Calibration	
43	03/01/10	12:00	03/01/10	12:30	Maintenance/Calibration	Replaced hydrolab s/n 42186 with hydrolab s/n 41241
44	03/23/10	12:00	03/23/10	14:30	Maintenance/Calibration	Problem transmitting DO data
45	04/21/10	10:30	04/21/10	14:30	Maintenance/Calibration	Problem transmitting DO

						data
46	05/27/10	10:30	05/27/10	13:30	Maintenance/Calibration	Problem transmitting DO data
47	06/24/10	14:00	06/24/10	16:00	Maintenance/Calibration	Problem transmitting DO data
48	07/28/10	10:00	07/28/10	12:00	Maintenance/Calibration	Datasonde replaced with minisonde containing luminescent DO sensor. DO data now reliable. No turbidity sensor on minisonde.
49	08/26/10	10:30	08/27/10	10:15	Maintenance/Calibration	DO data reliable. No turbidity data.
50	09/30/10	09:45	09/30/10	13:45	Maintenance/Calibration	Sensors impacted with silt/gravel; post Hurricane Igor
51	10/26/10	12:00	10/27/10	10:30	Maintenance/Calibration	No turbidity sensor on minisonde
52	12/14/10	14:15	12/14/10	16:30	Maintenance/Calibration	No turbidity sensor on minisonde
53	01/26/11	16:00	01/27/11	09:30	Maintenance/Calibration	No turbidity sensor on minisonde
54	02/28/11	11:30	02/28/11	15:30	Maintenance/Calibration	No turbidity sensor on minisonde
55	03/29/11	12:15	03/29/11	13:30	Maintenance/Calibration	No turbidity sensor on minisonde
56	05/03/11	11:10	05/03/11	14:45	Maintenance/Calibration	No turbidity sensor on minisonde
57	06/15/11	15:00	06/15/11	13:25	Maintenance/Calibration	YSI with turbidity installed to replace Hydrolab minisonde
58	07/21/11	10:35	07/22/11	09:40	Maintenance/Calibration	
59	08/26/11	11:00	08/26/11	14:30	Maintenance/Calibration	
60	11/09/11	12:00	11/09/11	15:50	Maintenance/Calibration	Transmission malfunction at station
61	12/15/11	11:30	12/15/11	14:45	Maintenance/Calibration	
62			01/23/12	10:45		
63	03/02/12		03/02/12	11:00	Maintenance/Calibration	
64	04/11/12	12:00	04/11/12	15:00	Maintenance/Calibration	
65	06/07/12	10:00	06/07/12	12:00	Maintenance/Calibration	
66	07/24/12	11:30	07/25/12	15:00	Maintenance/Calibration	
67	09/28/12	14:00	09/28/12	16:30	Maintenance/Calibration	

68	11/05/12	12:00	11/05/12	15:00	Maintenance/Calibration	
69	12/05/12	10:00	12/05/12	13:30	Maintenance/Calibration	
70	01/16/13	11:30	01/16/13	16:30	Maintenance/Calibration	
71	04/30/13	14:00	04/30/13	16:40	Maintenance/Calibration	
72	05/24/13	09:30	05/24/13	16:30	Maintenance/Calibration	
73	06/25/13	10:00	06/27/13	10:30	Maintenance/Calibration	
74	07/23/13	10:00	07/23/13	14:00	Maintenance/Calibration	
75	08/27/13	10:00	08/27/13	15:15	Maintenance/Calibration	
76	09/30/13	10:00	09/30/13	15:30	Maintenance/Calibration	
77	10/30/13	12:11	10/30/13	15:07	Maintenance/Calibration	
78	12/04/13	10:30	12/04/13	16:00	Maintenance/Calibration	
79	01/31/14	10:30	01/31/14	16:00	Maintenance/Calibration	
80	04/29/14	10:00	04/29/14	13:30	Maintenance/Calibration	
81	06/16/14		06/17/14	12:45	Maintenance/Calibration	
82	08/07/14	11:58	08/08/14	12:30	Maintenance/Calibration	
83	09/17/14	09:21	09/17/14	09:45	Maintenance/Calibration	
84	10/23/14	13:00	10/23/14	13:15	Maintenance/Calibration	
85	11/26/14	10:04	11/26/14	14:00	Maintenance/Calibration	
86	01/21/15	11:00	01/21/15	16:10	Maintenance/Calibration	
87	04/14/15	09:35	04/15/15	11:45	Maintenance/Calibration	
88	06/02/15	09:30	06/02/15	09:45	Maintenance/Calibration	
89	08/20/15	09:33	08/20/15	11:15	Maintenance/Calibration	
90	10/08/15	09:00	10/08/15	09:35	Maintenance/Calibration	
91	11/13/15	09:30	11/13/15	12:00	Maintenance/Calibration	
92	01/12/16	10:13	01/12/16	13:20	Maintenance/Calibration	
93	02/17/16	10:00	02/17/16	10:45	Maintenance/Calibration	
94	03/22/16	09:30	03/22/16	09:55	Maintenance/Calibration	
95	05/12/16	11:24	05/12/16	11:30	Maintenance/Calibration	
96	07/13/16	10:30	07/13/16	11:30	Maintenance/Calibration	
97	09/06/16	11:45	09/06/16	12:30	Maintenance/Calibration	
98	10/18/16	09:00	10/18/16	10:00	Maintenance/Calibration	
99	01/11/17	10:30	01/11/17	11:30	Maintenance/Calibration	Longer deployment due to ice coverage on river
100	04/07/17	10:30	04/07/17	11:00	Maintenance/Calibration	
101	05/23/17	10:45	05/23/17	11:02	Maintenance/Calibration	
102	06/28/17	10:00	06/28/17	11:10	Maintenance/Calibration	
103	08/30/17	10:36	08/30/2017	13:17	Maintenance/Calibration	Longer deployment period due to several instrument change outs
104	11/01/2017	11:30	11/01/2017	11:42	Maintenance/Calibration	
105	01/12/2018	11:30	01/12/2018	12:30	Maintenance/Calibration	
106	05/02/2019	10:50	05/03/2019	10:45	Maintenance/Calibration	
107	06/21/2019	09:50	06/21/2019	11:00	Maintenance/Calibration	
108	08/01/2019		08/01/2019	10:10	Maintenance/Calibration	
109	05/22/2020	10:25	05/22/2020	11:25	Maintenance/Calibration	
110	09/25/2020	10:55	09/25/2020	11:00	Maintenance/Calibration	
111	10/26/2020	10:15	10/26/2020	14:10	Maintenance/Calibration	
112	12/01/2020	12:38	12/01/2020	15:43	Maintenance/Calibration	

113	01/06/2021	9:37				Long deployment due to winter season
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