

Day in the Life of Hudson Harbor 10/22/19
Chemistry

Day in the Life of the Hudson River and Harbor: Chemistry											
October 22nd, 2019											
RM	NAME	Time 24 HR Clock	Water Temperature C	Water Temperature F	Dissolved Oxygen ppm	% Saturation	pH	Alkalinity ppm	Phosphates ppm	Nitrates ppm	Notes
HSC 28.7	Hoosick	10:00	11.0	51.8	6.0	55.0	8.0	Absent	Present	Present	Alkalinity/Phosphates/Nitrates is a present or absent test
MHK 53	Schoharie Creek	9:19	10.5	50.9	8.6	76.0	6.7			0.0	
MHK 15	Niskayuna- Lock 7	11:16	10.0	50			7.5				
200	Schuylerville- Lock 5	13:00	11.7	53			6.8				Used pH strips which aren't meant to be used in the environment.
154	Peebles Island- Cohoes HS	10:00	10.0	50	10.4	89.7	5.0				low pH but could be due to the strips
152	Hudson Shore Park Watervleit-North Colonie	12:16	10.0	50	9.0	80.0	7.5				
146	Rensselaer Boat Launch	10:09	10.7	51.26	10.0	90.0	6.5	50.67	0.0	0.2	90% sat at 11.6 C
145.5	Corning Preserve, Albany	11:48	12.0	53.6	12.0	110.0	7.1				
140	Papscaenee Preserve, Rensselaer County	11:15	11.0	51.8	12.0	110.0	6.0				
138	Henry Hudson Park, Bethlehem	11:55	11.5	52.7	9.0	100.0	7.4				
133.4	Schodack Island	12:12	12.0	53.6	7.0	65.0	6.5			1.0	
132.5	Hannacroix Creek Preserve			32							
124.5	Nutten Hook		11.7	52.97	9.7	90.0	5.9				Averages
123	Coxsackie Riverfront Park	11:10	11.0	51.8	14.0	125.0					Very high DO. 125% sat. at 11C
117	Henry Hudson Riverfront Park, Hudson- Chatham HS +Taconic Hills HS	12:34	11.9	53.42	10.3	94.1	6.3	53	11.67*	0.0	D.O. 94% sat at 12.5 C; *Phosphate reading very high
117	Henry Hudson Riverfront Park, Hudson- Montgomery ES	NR									
108.5	Lasher Park, Germantown	12:35	12.5	54.5	19.0	>140	7.5				
100.5	Falling Waters Preserve, Saugerties	8:20	11.7	53.06	11.0	100.0	6.0		0.2	4.0	Nitrates are high
98	Tivoli South Bay	12:08	11.7	53.06	9.0	83.0	7.0				
97	Ulster Landing Park- Mill Road ES	12:00	13.9	57							
97	Ulster Landing Park- Kingston HS	12:00			5.5		7.4			0.0	
92	Kingston Point Park- Robert Graves ES	12:38	13.9	56.975			6.8				*Alkalinity, Nitrates, and Phosphates were tested with Aquarium kit and unrealistically high

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92	Kingston Point Park- Kingston YMCA	15:56	14.0	57.14			6.5	60			
90.5	George Freer Memorial Park, Port Ewen	12:47	16.7	62.06							
87	Esopus Meadow, Ulster Park	12:34	15.0	59	12.0	120.0	7.3				
84.5	Norrie Point, Staatsburg-Millbrook HS	14:15	10.0	50	10.0	90.0	7.5				
84.5	Norrie Point, Staatsburg-Poughkeepsie HS	10:45	13.9	57	12.0	115.0	7.2				
78	Quiet Cove Park, Poughkeepsie	12:30	15.0	59	8.0	78.0	8.0		1.5	<5	Low resolution test for nitrates
65	Chelsea Boat Launch	11:30	15.3	59.45	10.0	100.0	7.5				
61.2	Seeger Riverfront Park, Beacon	12:12	14.5	58.1	13.0	121.0	7.9				
61	Long Dock, Beacon	11:50	15.0	59	11.0	110.0	7.4				
60.5	Newburgh Waterfront- People's Waterfront and Boat Launch	12:01	13.0	55.4	10.0	95.0	7.2				
60.1	Beacon Dock (Clearwater)	14:31	15.3	59.54	9.0	85.0	7.5				85% sat when 12 C
60	Dennings Point, Beacon	10:30	15.0	59	10.0	100.0	7.0				
58.1	Plum Point, New Windsor	11:33	17.0	62.6	8.0	83.0	7.5				
57	Cornwall Landing	11:35	15.0	59			7.5				
52	South Dock, West Point	11:30	15.1	59.18	8.2	80.0	7.9				
51.5	Garrison Landing	12:30	18.0	64.4	6.0	60.0	7.5	0.0	0.0		
43.5	Riverfront Green, Peekskill	9:00	15.0	59	9.5	93.0	6.0				
41	Steamboat Dock, Verplanck	11:36	17.4	63.32	12.0	121.0	8.0	80	0.4	0.2	
38	Haverstraw Bay County Park	11:00	12.0	53.6	8.0	93.0	7.0				
35	Croton Point Park, Croton-Croton Harmon High School	12:45	16.7	62.06	9.7	100.9	7.9				
35	Croton Point Park, Croton (Mother's Lap)- Fox Meadow ES	12:00	16.1	61	6.0	60.0	6.0				Estuary Wide Kit is low resolution for DO and Nitrates
32.5	Louis Engel Park, Ossining	11:12	16.0	60.8	3.0	30.0	6.9	0.0	0.0		
30.4	Upper Nyack State Park, Lower Beach	11:30	16.0	60.8	7.5	74.0	8.5				
28.5	Kingsland Point Park, Tarrytown	10:11	15.6	60	11.0	110.0	7.5				
28	Memorial Park, Nyack- Nyack ES	12:17	15.6	60	8.0	83.0	5.6				
28	Memorial Park, Nyack- Nyack HS	11:00	14.6	58.28	10.0	98.0	8.0	0.1	0.5		Meter to sample
25.4	Piermont Pier, Piermont	12:06	15.0	59	10.0	99.0	7.0	158	0.2	0.2	Nitrates less than 0.2
25	Matthiessen Park, Irvington	12:05	19.0	66.2	6.0	63.0	5.0				pH seems low, used pH paper strips not designed for outdoor use. Oil slick in the water
23	Riverfront Park, Dobbs Ferry	9:30	16.2	61.16	7.8	76.0	7.3			1.0	

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22	MachEachron Waterfront Park-Kinally Cove, Hastings	13:30	14.4	57.92	9.0	87.0	7.0		1.8	3.1	Nitrates and phosphates are high because tested with a low resolution Lamotte Kit
19	Alpine Boat Basin, Alpine NJ-Alpine School	NR									
19	Alpine Boat Basin, Englewood NJ-Pascack Hills HS	10:21	15.5	59.846	2.0	19.0	7.4		0.4	5.0	Nitrates and phosphates are high because tested with a low resolution Lamotte Kit
18.3	Sarah Lawrence College CURB: Beczak, Yonkers	10:55	15.5	59.9	9.2	90.0	7.9				YSI Probe
13.7	Francis Lewis Park	12:06	15.0	59	7.0	68.0	8.5				
13	Englewood Boat Basin, Englewood NJ- Paterson MS	11:40	15.6	60.08	6.0	60.0	7.7				
12.75	Inwood Hill Park, Manhattan	11:30	15.0	59	13.0	140.0	8.0				DO is high
11.5	Fort Washington Park, Manhattan	11:07	16.5	61.7	4.6	45.0	7.4				
10	125th Street Pier, Manhattan-Columbia Secondary School (Diana Lennon)	13:40	17.0	62.6	9.3	89.0	7.0			0.0	
10	125th Street Pier, Manhattan-HS of Language and Innovation (Baylander)	11:35	16.1	60.98	7.0	70.0	7.6			0.0	Water depth for reading is 8.3 feet
6.8	Pier I, 59th Street, Manhattan	12:00	16.0	60.8	6.0	60.0	8.5				
6.1	Pier 96, Manhattan	11:30	16.8	62.222			7.2				
5.6	Hudson River Park Pier 84	13:00	12.8	55	5.5	50.0	7.6				
4.4	Pier 62 Chelsea, Manhattan	10:26	18.0	64.4							
3.2	Hudson River Park Pier 45- NYC Lab HS (Price)	13:30	6.0	42.8	6.0		8.0				*Expect error in temp
3.2	Hudson River Park Pier 45-Morton MS(Shino)	13:15	16.5	61.7	8.0		7.5				
2.9	Hudson River Park Pier 40	11:35	15.0	59	8.0	78.0					
0.5	Morris Canal Basin, New Jersey	9:18					5.5				
HRM 1	Randall's & Ward's Island	12:00	16.5	61.7	7.6	66.0	6.8		2.0	5.0	Estuary Wide Monitoring is low resolution for phosphates and nitrates
ER 15.2	Little Bay, Fort Totten Park	10:30	7.8	46	13.0	115.0	7.6	0			
ER 13.7	Francis Lewis Park	12:06	15.0	59	7.0	68.0	8.5				
ER 5.7	Pier 1 Gantry State Park, Long Island City	10:00	15.2	59.36	4.8	50.0	6.8				Estuary Wide Kit is not high resolution for DO
ER 5.6	Pier 4 Gantry State Park, Long Island City	12:00	16.0	60.8	5.0	60.0	6.0				pH litmus paper isn't accurate for field work.
ER 1.7	Brooklyn Bridge Park East, Brooklyn (Brooklyn Friends)	10:00	16.7	62.06	15.8	140.0	7.5			1.0	Dissolved Oxygen is VERY high, generally use a probe - calibration?
ER 1.7	Brooklyn Bridge Park East, Brooklyn (Sunset Park HS)	12:00	16.0	60.8	5.0	50.0	8.0			0.0	
ER 1.7	Brooklyn Bridge Park East, Brooklyn (BBPC + MS915)	12:30	16.7	62	7.0	75.0	8.4				

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ER 2.3	Brooklyn Bridge West, Manhattan (Waterfront Alliance)	11:01	16.0	60.8	7.0	75.0	7.2				
ER 2.3	Brooklyn Bridge West, Manhattan (LESEC)	12:42	16.3	61.34	9.0	90.0	5.0				
ER 2.3	Brooklyn Bridge West, Manhattan (Leman Manhattan Prep- Livingston)	11:40	16.1	60.98	5.8	58.0	6.5		0.4	1.5	
Brx 4.5	Concrete Plant Park, Bronx-Pelham Prep (Zach)	12:00	13.0	55.4	8.5		7.0			0.3	
Brx 4.5	Concrete Plant Park, Bronx-Bronx Center for Science and Math (Pat)	12:00	14.0	57.2	5.0	55.0					
Brx 4.0	Hunt's Point Riverside Park, Bronx	NR									
-1	Governor's Island Harbor	11:00	17.0	62.6	6.0	62.0	7.8				
-2.3	Valentino Pier, Brooklyn	11:00	7.8	46	7.0	57.0	7.0				
-4.1	Austen House, Staten Island	12:54	15.0	59	5.5	53.0	7.1				
-4.5	Pier 1 Lighthouse Museum, Staten Island	11:11	17.0	62.6	10.6	115.0	8.8		0.0	0.0	115% sat at 18C
-5.3	Canarsie Pier- Pathways to Graduation (Vattamala)	12:00	15.0	59	10.0	95.0	8.5				
-5.3	Canarsie Pier- Intenrational HS of Lafayette	12:04	10.0	50	10.0	88.0	8.5				
-7	Fort Wadsworth, Staten Island	12:05	15.0	59	9.0	90.0	7.9		0.4	0.0	
-8	Gerritsen Creek, Brooklyn	12:11	14.0	57.2	8.0	70.0	7.0				
-8.6	Kaiser Park, Brooklyn	NR									
-9.1	Steeplechase Pier, Coney Island Pier	11:15	15.8	60.44	9.5	90.0	7.6				Meter
-11.2	Great Kills Park, Staten Island	11:48	16.0	60.8			8.2				