

Day in the Life of the Hudson Harbor 10/16/18

Chemistry

Day in the Life of the Hudson River and Harbor 10/16/18 - Chemistry											
RM	NAME	Time 24 HR Clock	Water Temperature	Water Temperature	Dissolved Oxygen	% Saturation	pH	Alkalinity ppm	Phosphates ppm	Nitrates ppm	Notes
HSC 28.7	Hoosick	12:00	12.0	53.6	11.0	103.0	8.0				Tested positive for: Nitrate, Ammonia, Hard Water, Sulfate. Tested Negative for: Iron, Phosphate, Chloride, Chlorine
MHK 53	Schoharie Creek	13:20	13.9	56.9	10.1	95.0	6.2			2.5	
MHK 15	Niskayuna- Lock 7	10:14	11.4	52.5	7.0	63.0	7.0				
200	Schuylerville- Lock 5	11:00	15.0	59.0	10.3	100.0	6.2				
154	Peebles Island- Pine Hills ES	10:30	10.0	50.0	12.0	110.0	7.9				110% Saturation at 11 C
154	Peebles Island- Cohoes HS	10:09	11.3	52.3	11.6	106.0	7.6				
153	Green Island	15:15					6.3				
152	Hudson Shore Park Watervleit	10:30	13.0	55.4	8.0	75.0	7.3				
146	Rensselaer Boat Launch	10:30	12.2	53.9	5.0	45.0	6.4		1.0	0.0	45% saturation at 10 C
145.5	Corning Preserve, Albany	10:00	13.5	56.3	11.0	105.0	7.1				
144.5	Rensselaer Riverfront Park	10:30	14.4	58.0	8.3	80.0	7.5				
138	Henry Hudson Park, Bethlehem	10:30	14.0	57.2	9.0	86.0	7.4				

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133.4	Schodack Island	10:05	10.0	50.0	13.0	116.0	7.6	7.6		0.0	Ammonia= .5 ppm, Nitrite= 0 ppm
124.5	Nutten Hook	10:30	13.4	56.1	9.6	90.0	7.9				
123	Coxsackie Riverfront Park	10:30	14.0	57.2	15.0	145.0	7.5				
117	Henry Hudson Riverfront Park, Hudson	9:30	17.4	63.3	10.6	101.0	6.5				101% saturation at 14 C; Very low Nitrates and Phosphates
115	Cohotate Preserve, Athens	9:30	15.0	59.0	8.0	80.0	7.6				
108.5	Lasher Park, Germantown	10:45	7.0	44.6	13.0	108.0	7.5				DO and Temperature from Group 3 Sht
102	Saugerties Lighthouse	11:05	15.6	60.0	8.0	80.0	7.0				
100.5	Falling Waters Preserve, Saugerties	8:30	14.0	57.2	10.0	96.0		60	0.2	2.0	96% saturation at 15 C
98	Tivoli South Bay	11:17			8.0		7.4				
97	Ulster Landing Park	10:00	15.6	60.0							
92	Kingston Point Park	10:30	12.8	55.0			7.0	20			
87	Esopus Meadow, Ulster Park	10:50	14.5	58.0	8.0	75.0	8.3				75% Saturation at 12C
84.5	Norrie Point, Staatsburg		16.1	61.0	12.0	120.0					
78	Quiet Cove Park, Poughkeepsie	10:19	10.0	50.0	4.0	35.0	8.0		2.0	2.0	35% saturation at 11 C
76.5	Marist College, Poughkeepsie	17:00			9.8		7.1				

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76	Waryas Park- Fallkill Creek, Poughkeepsie	10:30	15.2	59.4	7.0	70.0	7.9		0.0		70% saturation at 16C
65	Chelsea Boat Launch			32.0							
61.2	Seeger Riverfront Park, Beacon	10:30	10.0	50.0	11.0	97.0	7.6				
61	Long Dock, Beacon	10:52	12.5	54.5	10.0	93.0	7.4				
60.5	Newburgh Waterfront- People's Waterfront and Boat Launch	10:30	14.5	58.1	6.0	58.0	7.2				
60	Dennings Point, Beacon	10:15			10.0						
58.1	Plum Point, New Windsor	10:20	17.0	62.6	11.0	100.0	7.2				100% saturation at 11C
57	Cornwall Landing	12:30	16.5	61.7			7.0				
52	South Dock, West Point	10:00	16.0	60.8	10.0	96.0	7.5				96% saturation at 12 C
51.5	Garrison Landing	10:54	15.6	60.1	8.0	81.0	7.0				
43.5	Riverfront Green, Peekskill	12:30	16.0	60.8	11.0	110.0	8.1				
41	Steamboat Dock, Verplanck	9:53	18.0	64.4	8.0	85.0	7.5	120	0.5	1.4	85% saturation at 18 C
40	George's Island County Park	10:35	11.1	52.0	4.0	37.0	7.5				
39	Stony Point Marina, Stony Point	10:30	18.8	65.8			8.0				
38	Haverstraw Bay County Park	10:34	15.6	60.1	8.0	80.0	7.5				
35	Croton Point Park, Croton	11:45	11.5	52.7	12.0	110.0					110% saturation at 11 C
32.5	Louis Engel Park, Ossining	10:00	15.0	59.0	4.0	40.0	7.0		1.0		40% saturation at 16 C

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30.5	Upper Nyack State Park, Beach Steps	10:30	15.0	59.0	8.5	82.0	7.2				
30.4	Upper Nyack State Park, Lower Beach	10:45	16.0	60.8	4.0	38.0	7.5		1.3		
28	Memorial Park, Nyack- Nyack ES	11:30	16.1	60.9	8.9	90.0	8.3				
28	Memorial Park, Nyack- Nyack HS	9:15	16.2	61.1	8.0	81.0	6.5				
25.4	Piermont Pier, Piermont	10:36	16.0	60.8	12.0	120.0	7.3	90	0.4	0.2	
25	Matthiessen Park, Irvington	10:33	15.0	59.0	11.0	110.0	7.0				
23	Riverfront Park, Dobbs Ferry	14:29	20.0	68.0	3.0	30.0	6.0			1.0	
22	MachEachron Waterfront Park- Kinally Cove, Hastings	9:30	13.0	55.4	10.0	93.5	6.6		1.2	2.5	
19.5	JFK Marina, Yonkers	10:00	18.0	64.4			7.8				
19	Alpine Boat Basin, Alpine NJ- Alpine School	10:35	12.0	53.6							
18.3	Sarah Lawrence College CURB: Beczak, Yonkers	11:59	15.0	59.0	9.8	97.0	8.1				
13	Englewood Boat Basin, Englewood NJ- Paterson MS	10:40	12.0	53.6	8.0	80.0	8.0				80% saturation at 15C
13	Englewood Boat Basin, Englewood NJ-Pascack Hills HS	11:00	17.6	63.7	7.9	83.0	7.0				
11.5	Fort Washington Park, Manhattan	10:30	16.0	60.8	6.0	60.0	7.0				
10	125th Street Pier, Manhattan- Columbia Secondary School	13:30	18.0	64.4	3.8	40.0	7.0	120	0.0	2.0	

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10	125th Street Pier, Manhattan- HS of Language and Innovation (Eugene)	10:50	12.0	53.6							
7.3	79th Street Boat Basin	14:30	20.0	68.0	5.0	90.0	8.0				
6.8	Pier I, 59th Street, Manhattan	10:30	14.5	58.0			7.8				
5.6	Hudson River Park Pier 84	10:30	16.0	60.8	8.0	80.0	8.0				
3.2	Hudson River Park Pier 45- NYC Lab HS (Price)	14:00	19.7	67.5	6.5	70.0	7.8			0.0	
3.2	Hudson River Park Pier 45- PS3 (Shino)	10:54	15.6	60.0	8.0	80.0	6.0				
3.2	Hudson River Park Pier 45- Ellis Prep and Chelsea HS	10:30	10.5	50.9	7.0	65.0	7.0				65% saturation at 12C
2.9	Hudson River Park Pier 40	10:28	18.0	64.4	6.8	70.0	7.4			0.0	
0.5	Morris Canal Basin, New Jersey	10:30		32.0	7.0		7.5				
Hrm 14	Inwood Hill Park, Manhattan	12:00	18.0	64.4	15.0	155.0	7.6				
HRM 1	Randall's & Ward's Island	10:49	16.7	62.0	6.0	65.0	7.0		1.8	0.0	65% saturation at 18.9 C
ER 15.2	Little Bay, Fort Totten Park	10:30	13.5	56.3	8.0	77.0	7.6			0.0	Ammonia: 0.25 ppm
ER 13.5	Ferry Point Park- West Bronx Academy for the Future	11:15	16.7	62.1			8.5		1.0	2.0	Nitrate and Phosphate- estuary wide low resolution kit
ER 13.5	Ferry Point Park-Renaissance HS	12:34	16.0	60.8			7.9				

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ER 5.7	Gantry State Park, Long Island City	10:00	19.0	66.2	6.0	60.0	6.0				
ER 5.6	Hunter's Point, Queens	11:00	16.0	60.8	7.0	55.0	7.0		1.0		Chlorophyll: 0.1
ER 4.9	Solar One, Manhattan	10:30					6.8			0.5	
ER 1.7	Brooklyn Bridge Park East, Brooklyn (Villa)	13:00	18.4	65.1	8.7	91.0	6.5				
ER 1.9	South Street Seaport, Manhattan	13:45	17.9	64.2	10.0	105.0					
ER 2.3	Brooklyn Bridge West, Manhattan (LESEC)	10:00	17.0	62.6	7.0	71.0	7.0				
Brx 4.5	Concrete Plant Park, Bronx-Pelham Prep (Zach)	10:30	14.0	57.2	7.0	67.0	6.5				
Brx 4.5	Concrete Plant Park, Bronx-Bronx Center for Science and Math (Pat)	10:30	15.0	59.0	6.5	50.0	6.7				pH measured with a colorimetric. There has been dumping which could have made the results more acidic. 50% saturation at 21 C
Brx 4.0	Hunt's Point Riverside Park, Bronx	10:30	12.0	53.6							
-1	Governor's Island Harbor	10:00	20.0	68.0	6.0	65.0	8.0				
-2.3	Valentino Pier, Brooklyn	10:00					7.0				

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-3.7	Bush Terminal Piers Park, Brooklyn	10:00	13.3	56.0	8.0	75.0	7.8			0.0	Ammonia: .33 ppm Coliform Bacteria: positive
-4.5	Pier 1 Lighthouse Museum, Staten Island	11:23	19.0	66.2	8.0	85.0	8.0				
-4.7	Veterans' Memorial Pier, Brooklyn	10:49	16.0	60.8	5.0	53.0	7.6				53% saturation at 19 C
-7.1	Dubos Point Wildlife Sanctuary, Rockaways	10:30			8.0		6.0				
-7.5	Fort Wadsworth, Staten Island	12:02	20.0	68.0	9.0	95.0	8.2			0.0	Ammonia: .25 ppm & Nitrites: .25 ppm
-8.5	Kaiser Park, Brooklyn	2:10	18.0	64.4	6.0	63.0	7.5			0.6	
-9.1	Steeplechase Pier, Coney Island Pier	11:23	16.9	62.4	9.9	100.0	7.4				