

**Day in the Life of the Hudson River 10/16/18 Data**  
**HENRY HUDSON PARK, BETHLEHEM**  
**Albany County, NY**  
**RIVER MILE: 138**  
*Salt Front: ~RM 24*  
**Albany Academy for Girls-**  
**16 students 5<sup>th</sup> grade, 3 adults**  
**Sarah Loya, Albany Academy for Girls**  
**Mary Cosgrove and 6 undergraduates, College of Saint Rose**  
**Latitude 42.543455 N & Longitude – 73.759119 W**

**Location:** Henry Hudson Park waterfront, Bethlehem, Albany County, NY

**Area:** Park/boat launch

**Surrounding Land Use:** 100% parkland with 75% vegetated coverage- grassy, parking lot- used for picnics, boating, fishing

**Sampling Site:** Banks altered, riprap, bulkheaded- rocky

<i>ITEM</i>	<i>Time</i>	<i>Reading</i>		<i>Comments</i>
<b>Physical</b>				
<i>Air Temperature</i>	10:30 AM	18 ° C	64.4 ° F	
	11:30 AM	12 ° C	53.6 ° F	
	12:00 PM	12 ° C	53.6 ° F	
	12:30 PM	13 ° C	55.4 ° F	
<i>Wind Speed: anemometer</i>	10:30 AM	.7 mph		
	11:30 AM	.6 mph		
	12:00 PM	1.5 mph		
	12:30 PM	.6 mph		
<i>Weather today</i>	Partly cloudy (26-50%), brisk, cold, on and off wind			
<b>Water Temperature</b>	10:30 AM	14 ° C	57.2 ° F	
	11:30 AM	14 ° C	57.2 ° F	
	12:00 PM	15 ° C	59 ° F	
	12:30 PM	15 ° C	59 ° F	
<b>Turbidity - long sight tube</b>	10:30 AM	54 cm		
	11:30 AM	47 cm		
	12:00 PM	43 cm		
	12:30 PM	41 cm		
<b>Chemical</b>				
<i>Salinity- Low Range Quantabs</i>	<i>Time</i>	<i>Chloride</i>	<i>Total Salinity</i>	
	10:36 AM	28 ppm Cl <sup>-</sup>	50.6 ppm	
	~11:30 AM	34 ppm Cl <sup>-</sup>	61.4 ppm	
	~12:00 PM	28 ppm Cl <sup>-</sup>	50.6 ppm	
	12:30 PM	34 ppm Cl <sup>-</sup>	61.4 ppm	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	10:30 AM	15 ° C	9	88%
	11:30 AM	15.9 ° C	9	90%
	12:00 PM	16 ° C	10	100%
	2:00 PM	-	11	
<i>pH –</i>	10:26 AM	7.4		
	11:09 AM	7.2		
	12:11 PM	7.5		
<i>Chlorophyll</i>	10:42 AM	0.3 ppm		
	11:20 AM	0.3 ppm		
	12:26 PM	0.3 ppm		
<b>Fish</b>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	

	2 2 2 6 2 2 1 1	Striped Bass White Perch American Shad Spottail Shiner Banded Killifish Tesselated Darter Blue Gill American eel	Baby	
<b>Fish Totals</b>	<b>TOTAL: 18</b>	<b>Diversity: 8</b>		
<i>Macroinvertebrates</i>	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
	2	Blue Crab		
<b>Macroinvertebrate Totals</b>	<b>TOTAL: 2</b>	<b>Diversity: 2</b>		
<i>Tides-</i>	<i>Time</i>	<i>Rising, Falling, Unchanged</i>	<i>Height (cm)</i>	<i>Rate of Tidal Change (cm/min)</i>
High	10:30 AM	Falling	-	
.	11:30 AM	Falling	-	
.	12:00 PM	Falling	-	
Low	12:30 PM	Falling	-	
<i>Current-</i>	<i>cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
10:30 AM	18	0.35	South	Ebb
11:49 AM	10	0.19	South	Ebb