

Day in the Life of the Hudson River 10/22/19 Data

LONG DOCK, BEACON, RIVER MILE: 61

Salt Front: ~RM 53

Excelsior Academy (Newburgh Free Academy)- Joyce D’Imperio

45 students 10th grade, 6 adults

Scenic Hudson- Kate Phipps and staff

Latitude 41.50312 N & Longitude – 73.98696 W



Location: Long Dock Park, Beacon, Dutchess County, NY

Area: Long Dock Park- a former brownfield now public park used for fishing, launching kayaks, picnics, fieldtrips, enjoying scenic view of the Hudson River, Hudson Highlands, and Hudson Valley. Most of the shoreline on the south side is lined with trees.

Surrounding Land Use: 25% Forested; 15% Beach; 60% Other

Sampling Site: Beach area rocky with lots of sand, water chestnut and grass

Plants in area: water chestnut

River Bottom: Muddy, Rocky

ITEM	Time	Reading		Comments
Physical				
<i>Air Temperature:</i>	9:38 AM	13 ° C	55.4 ° F	
	10:17 AM	15 ° C	59 ° F	
	11:54 AM	15 ° C	59 ° F	
	12:37 PM	15 ° C	59° F	
<i>Wind Speed:</i>	9:38 AM	0 mph		
	10:17 AM	0 mph		
	11:54 AM	*20 mph	*assume gust	
	12:37 PM	0 mph		
<i>Weather Today:</i>	NR			
<i>Weather Previous:</i>	NR			
Water Temperature	9:30 AM	14 ° C	57.2 ° F	
	10:30 AM	14 ° C	57.2 ° F	
	11:50 AM	15 ° C	59 ° F	
	12:46 PM	14 ° C	57.2 ° F	
Turbidity - site tube	9:38 AM	44 cm		
	10:17 AM	42 cm		
	11:54 AM	39 cm		
	12:37 PM	39 cm		
Chemical				
<i>Salinity- Low Range Quantabs</i>	9:30 AM	34 ppm Cl-	61 ppm Total Sal	
	10:30 AM	50 ppm	90 ppm	
	11:50 AM	34 ppm	61 ppm	
	12:46 PM	80 ppm	144.5 ppm	
<i>DO –</i>	<i>Time</i>	<i>Temp</i>	<i>ppm DO</i>	<i>% saturation</i>
	9:30 AM	14 ° C	8	
	10:30 AM	14 ° C	9	
	11:50 AM	15 ° C	11	
	12:46 PM	14 ° C	9	
<i>pH -</i>	9:30 AM	7		
	10:30 AM	7		
	11:50 AM	7.4		

	12:46 PM	7		
<i>Fish – seine –</i>	<i>Seine Number</i>	<i>Number</i>	<i>Name</i>	<i>OVERALL</i>
<i>Fish – seine –</i> <i>Macroinvertebrates-</i> <i>Seine</i>	1 st – 6 pulls TOTAL – 12 DIV - 3	10 1 1	Common Shiner Spottail Shiner Banded Killifish	Common 10 Spottail 18 Banded 2 Striped Bass 12 Yellow Perch 1 White Perch 1
	2 nd - 5 pulls TOTAL- 16 DIV - 5	8 1 5 1 1	Spottail Shiner Banded Killifish Striped Bass Yellow Perch White Perch	Common 10 Spottail 18 Banded 2 Striped Bass 12 Yellow Perch 1 White Perch 1
	3 rd - 4 pulls TOTAL - 2 DIV - 1	2	Striped Bass	White Perch 1
	4 th – 5 pulls TOTAL - 14 DIV - 2	9 5	Spottail Shiner Striped Bass	
		OVERALL TOTAL: 44	Diversity: 6	
	<i>Number</i>	<i>Name</i>	<i>Length of longest</i>	
<i>Macroinvertebrates-</i> <i>Seine</i> <i>Tides- dock to water</i>	N/R			<i>Rate of Tidal Change (cm/min)</i>
	TOTAL:	Diversity:		
	<i>Time</i>	<i>Rising, Falling, Still</i>	<i>Height (cm)</i>	
	9:38 AM 10:07 AM 10:18 AM 10:38 AM 11:54 AM 12:37 PM	NR	15.24 5.08 2.54 0 0	
<i>Currents Flow</i>	<i>Cm/second</i>	<i>Knots</i>	<i>North/South</i>	<i>Ebb/Flood/Still</i>
9:38 AM 10:17 AM 11:54 AM 12:37 PM	10.3 20.6 10.3 10.3	0.2 0.4 0.2 0.2		