

**Snapshot Day 10/12/17 Data
(Salt Front Hudson RM 65)
RIVER MILE East RM 4.9
Sarah Pidgeon - SOLAR ONE**

Katie Jungers, The Clinton School, 35 eleventh grade students

Location: Solar One, The East River at 23rd St.

Area: Beach area

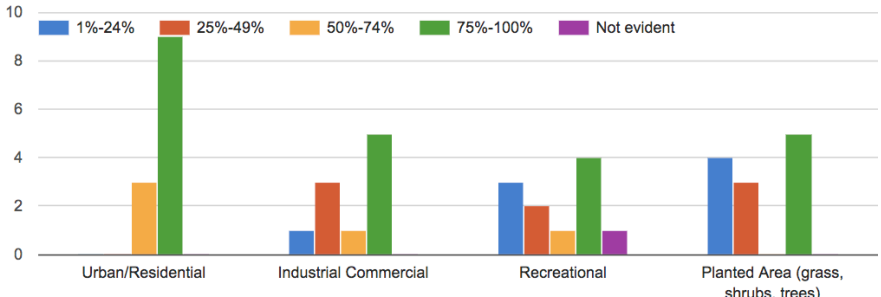
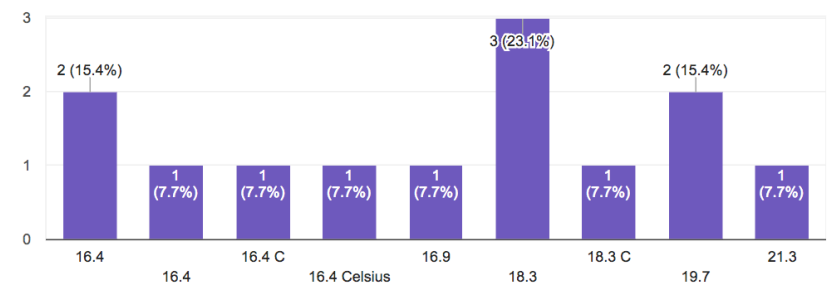
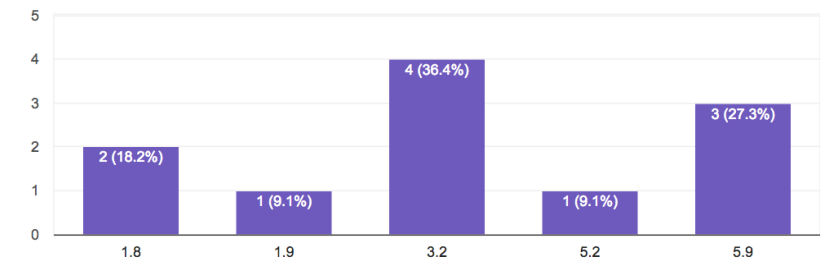
Surrounding Land Use: Stuyvesant Cove Park

Sampling Site: Recreational pier – rocks near the edge, banks altered

Depth: 8 feet at high tide

Plants in area: Native Plants

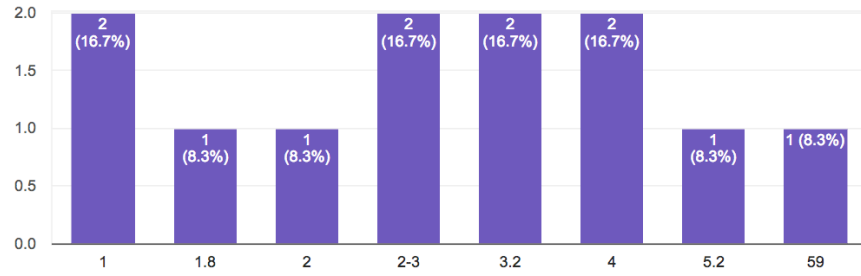
Sampled from 10am to 1PM

<p>Surrounding Land Use</p>	<p align="center">Surrounding land uses as approximate percentage (may exceed 100%)</p>  <table border="1"> <caption>Surrounding Land Uses Data</caption> <thead> <tr> <th>Land Use Category</th> <th>1%-24%</th> <th>25%-49%</th> <th>50%-74%</th> <th>75%-100%</th> <th>Not evident</th> </tr> </thead> <tbody> <tr> <td>Urban/Residential</td> <td>0</td> <td>0</td> <td>3</td> <td>9</td> <td>0</td> </tr> <tr> <td>Industrial Commercial</td> <td>1</td> <td>3</td> <td>1</td> <td>5</td> <td>0</td> </tr> <tr> <td>Recreational</td> <td>3</td> <td>2</td> <td>1</td> <td>4</td> <td>1</td> </tr> <tr> <td>Planted Area (grass, shrubs, trees)</td> <td>4</td> <td>3</td> <td>0</td> <td>5</td> <td>0</td> </tr> </tbody> </table>	Land Use Category	1%-24%	25%-49%	50%-74%	75%-100%	Not evident	Urban/Residential	0	0	3	9	0	Industrial Commercial	1	3	1	5	0	Recreational	3	2	1	4	1	Planted Area (grass, shrubs, trees)	4	3	0	5	0
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<p>Air Temperature Average ~17.3 C</p>	<p align="center">Celsius Air Temperature (using a thermometer)</p> <p>13 responses</p>  <table border="1"> <caption>Air Temperature Data</caption> <thead> <tr> <th>Temperature (C)</th> <th>Count</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>16.4</td> <td>2</td> <td>15.4%</td> </tr> <tr> <td>16.4</td> <td>1</td> <td>7.7%</td> </tr> <tr> <td>16.4 C</td> <td>1</td> <td>7.7%</td> </tr> <tr> <td>16.4 Celsius</td> <td>1</td> <td>7.7%</td> </tr> <tr> <td>16.9</td> <td>1</td> <td>7.7%</td> </tr> <tr> <td>18.3</td> <td>3</td> <td>23.1%</td> </tr> <tr> <td>18.3 C</td> <td>1</td> <td>7.7%</td> </tr> <tr> <td>19.7</td> <td>2</td> <td>15.4%</td> </tr> <tr> <td>21.3</td> <td>1</td> <td>7.7%</td> </tr> </tbody> </table>	Temperature (C)	Count	Percentage	16.4	2	15.4%	16.4	1	7.7%	16.4 C	1	7.7%	16.4 Celsius	1	7.7%	16.9	1	7.7%	18.3	3	23.1%	18.3 C	1	7.7%	19.7	2	15.4%	21.3	1	7.7%
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<p>Anemometer Wind Speed – 3.2 mph</p>	<p align="center">Wind Speed and Air Temperature (Using the Anemometer--make sure to give the units displayed on the meter.)</p> <p>11 responses</p>  <table border="1"> <caption>Wind Speed Data</caption> <thead> <tr> <th>Wind Speed (mph)</th> <th>Count</th> <th>Percentage</th> </tr> </thead> <tbody> <tr> <td>1.8</td> <td>2</td> <td>18.2%</td> </tr> <tr> <td>1.9</td> <td>1</td> <td>9.1%</td> </tr> <tr> <td>3.2</td> <td>4</td> <td>36.4%</td> </tr> <tr> <td>5.2</td> <td>1</td> <td>9.1%</td> </tr> <tr> <td>5.9</td> <td>3</td> <td>27.3%</td> </tr> </tbody> </table>	Wind Speed (mph)	Count	Percentage	1.8	2	18.2%	1.9	1	9.1%	3.2	4	36.4%	5.2	1	9.1%	5.9	3	27.3%												
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**Beaufort
Wind Speed** –
#2 to 3 with
windy gusts –

Wind Speed (Use the Beaufort wind scale, give force #)

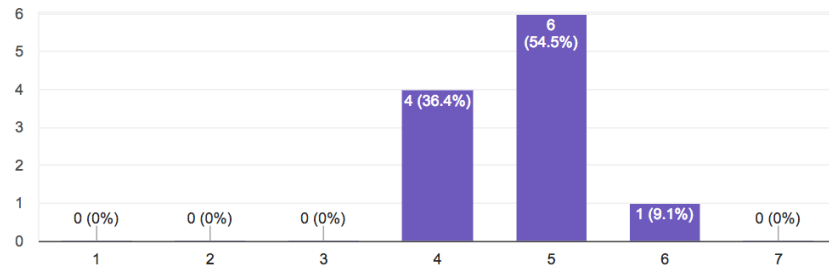
12 responses



**Water
Choppy** -
Fairly choppy
with swells
and crests at
4-5 ft.

Describe the Water. (for example, if it's smooth as glass = 1. OR 5 ft waves cresting with white caps = 7)

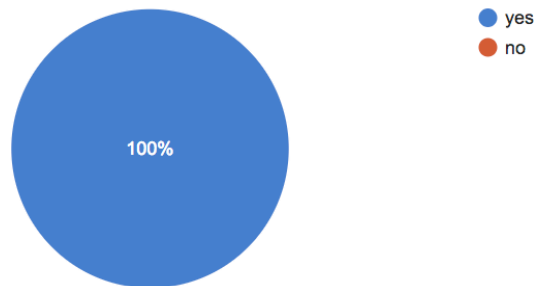
11 responses



Rain 100%

Is it raining or did it rain today?

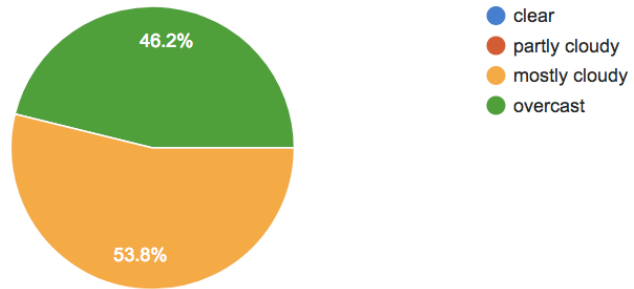
13 responses



Cloud Cover
Mostly
Cloudy/
overcast

Cloud Cover

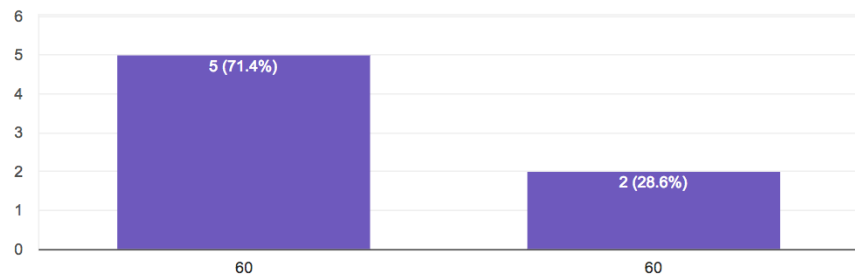
13 responses



Turbidity
60 CM

What is the Turbidity, recorded in cm?

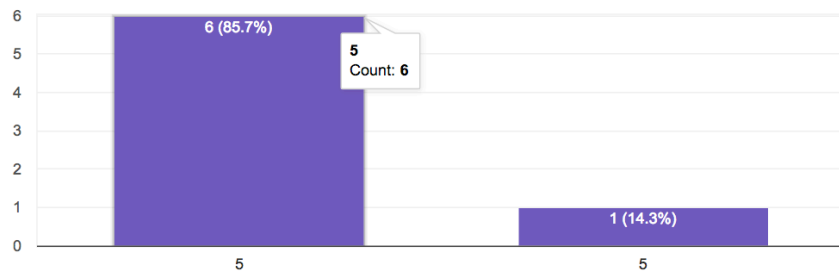
7 responses



D.O. 5 ppm

What is the level of dissolved oxygen (DO) recorded in ppm? (Use chemets kit)

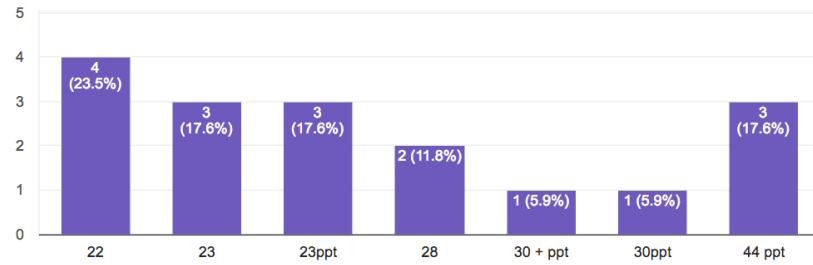
7 responses



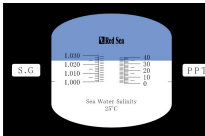
Salinity Hydrometer – Average 24.5 ppt (*without the 44 ppt readings which are not realistic.)

Hydrometer

17 responses

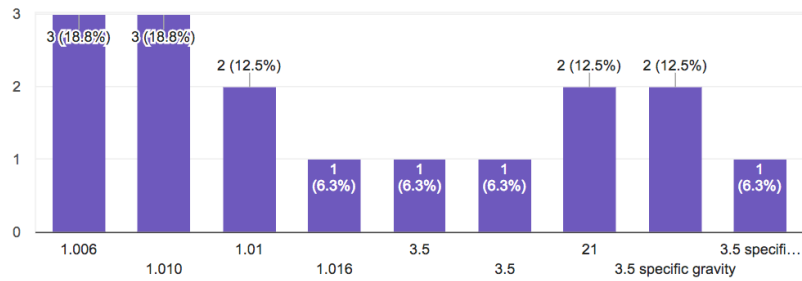


Salinity Refractometer readings are specific gravity – unable to determine



Refractometer

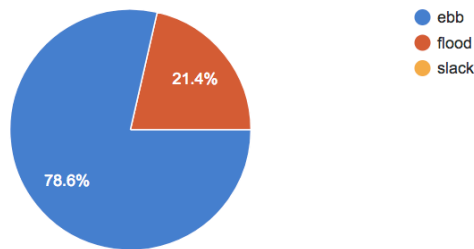
16 responses



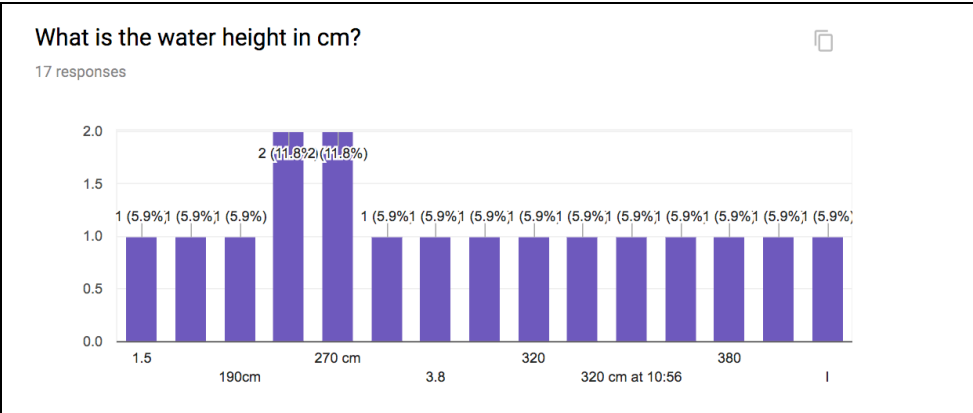
Currents –

Describe the current (if it is moving North, it is a flood tide, South is an ebb tide, or it might not move at all, which is a slack tide.)

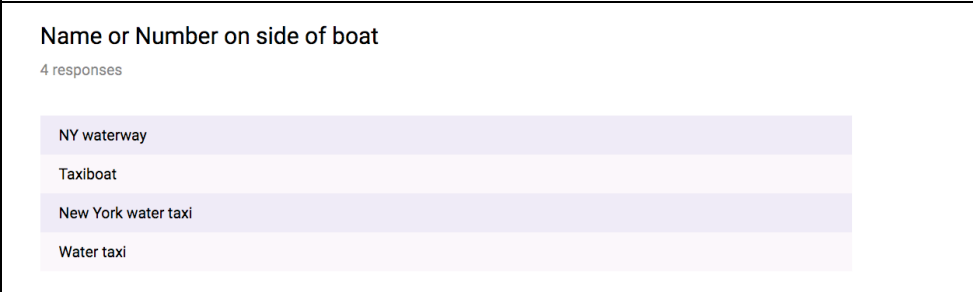
14 responses



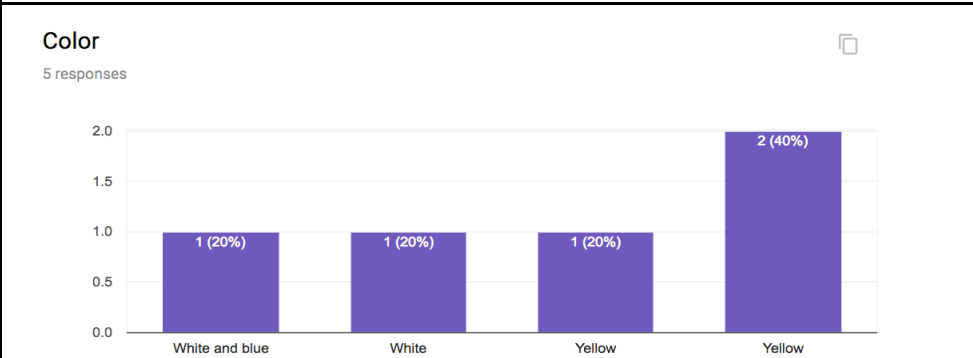
Tide -



Ship ID



Ship Color



Ship Direction

