























**Friends of the Bay 2020 Water Quality Data - Site 11, West Harbor**

| Site    | Date      | Time    | H2O Temp TOP (0.5m) | H2O Temp 1.0 m | H2O Temp 0.5 m from BTM | Salinity TOP | Salinity 1.0 | Salinity BTM | PH Top | PH 1.0 | Ph .5 m from BTM | Top DO | DO 1.0 | BTM DO | % Sat Top | % Sat 1.0 | %Sat BTM | Secchi m | Seafloor Depth (meters) | Air Temp (°C) | H2O Temp BTM monthly AVG | Fecal Coliform Bacteria | Enterococ ci (NH3) | Ammonia NO3 | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl Nitrogen (TKN) | Organic Nitrogen (N) | Total Nitrogen | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTO N | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain   | Sampling Leader          | Notes                    |  |
|---------|-----------|---------|---------------------|----------------|-------------------------|--------------|--------------|--------------|--------|--------|------------------|--------|--------|--------|-----------|-----------|----------|----------|-------------------------|---------------|--------------------------|-------------------------|--------------------|-------------|-------------|---------------|-------------------------------|----------------------|----------------|----------------------|-------------|-------------|-------------------|-------------|----------------|----------------|---------|-------------|-----------------|---|--------------------------|--------------------------|--|
| Site 11 | 4/19/2021 | 8:33 AM | 10.68               | 10.74          | 10.26                   | 26.04        | 26.07        | 26.18        | 8.16   | 8.15   | 8.16             | 10.08  | 10.19  | 10.37  | 107.4     | 108.5     | 109.4    | 1.6      | 3.13                    | 18.2          | <1                       | <1                      |                    |             |             |               |                               |                      |                | 0                    | 2           | 5           | 6                 | 1           | 0              | 0              | 1       | 0           | nh              | pj  | pj                       | clear surface conditions |  |
| Site 11 | 4/26/2021 | 8:26 AM | 10.92               | 10.89          | 10.86                   | 25.23        | 25.28        | 25.31        | 8.04   | 8.04   | 8.03             | 8.85   | 8.83   | 8.83   | 94        | 93.7      | 93.7     | 2        | 3.38                    | 6.9           | 2                        | <1                      |                    |             |             |               |                               |                      | 1              | 4                    | 5           | 6           | 0                 | NW          | 6              | 1              | 1       | nh          | pj              | pj  | choppy                   |                          |  |
| Site 11 | 5/3/2021  | 8:55 AM | 12.92               | 12.84          | 11.79                   | 25.72        | 25.75        | 25.88        | 7.95   | 7.95   | 7.96             | 8.66   | 8.69   | 8.66   | 96.9      | 97.1      | 94.5     | 1.8      | 3.3                     | 15.1          | <1                       | <1                      |                    |             |             |               |                               |                      | 0              | 2                    | 5           | 6           | 4                 | SE          | 2.4            | 3              | 0.5     | nh          | pj              | pj  | clear surface conditions |                          |  |
| Site 11 | 5/10/2021 | 7:37 AM | 12.8                | 12.8           | 12.8                    | 25.82        | 25.80        | 25.74        | 8.29   | 8.30   | 8.30             | 8.59   | 8.50   | 8.47   | 95.7      | 95        | 94.5     | 1.8      | 3                       | 9.7           | <1                       | <1                      |                    |             |             |               |                               |                      | 2              | 4                    | 5           | 6           | 4                 | E           | 1.3            | 3              | 0.5     | nh          | pj              | pj  | clear surface conditions |                          |  |
| Site 11 | 5/17/2021 | 8:23 AM | 16.16               | 16.02          | 15.68                   | 26.10        | 26.11        | 26.22        | 7.86   | 7.84   | 7.84             | 8.44   | 8.47   | 8.59   | 99.6      | 99.9      | 100.2    | 2.2      | 2.6                     | 16.6          | 1                        | <1                      |                    |             |             |               |                               | 0                    | 2              | 5                    | 6           | 0           | 0                 | 0           | 1              | 0              | nh      | pj          | pj              | jellyfish   |                          |                          |  |
| Site 11 | 5/24/2021 | 7:45 AM | 18.23               | 18.23          | 18.23                   | 26.20        | 26.16        | 26.18        | 7.84   | 7.83   | 7.83             | 8.30   | 8.29   | 8.29   | 102.1     | 101.9     | 101.9    | 1.3      | 3.78                    | 17.8          | 2                        | <1                      |                    |             |             |               |                               | 0                    | 4              | 5                    | 6           | 4           | SE                | 2.7         | 3              | 0.5            | nh      | pj          | pj              | clear surface conditions  |                          |                          |  |
| Site 11 | 6/1/2021  | 8:42 AM | 15.44               | 15.34          | 14.9                    | 25.46        | 25.56        | 25.72        | 7.88   | 7.86   | 7.76             | 8.58   | 8.76   | 8.42   | 99.7      | 101.5     | 96.4     | 1.3      | 3.07                    | 18.2          | 5                        | <1                      |                    |             |             |               |                               | 0                    | 2              | 5                    | 6           | 4           | NE                | 1           | 3              | 0              | nh      | pj          | pj              | clear surface conditions  |                          |                          |  |
| Site 11 | 6/7/2021  | 8:46 AM | 19.30               | 18.66          | 18.44                   | 25.96        | 25.01        | 26.10        | 7.95   | 7.90   | 7.87             | 8.74   | 9.06   | 8.72   | 111.1     | 112.2     | 108.0    | 0.9      | 4.07                    | 25.3          | 1                        | 1                       |                    |             |             |               |                               | 0                    | 4              | 5                    | 6           | 1           | 0                 | 0           | 1              | 0              | nh      | pj          | pj              | clear surface conditions, % SAT near top of range at all depths |                          |                          |  |
| Site 11 | 6/15/2021 | 8:17 AM | 19.81               | 19.69          | 19.51                   | 26.02        | 26.05        | 26.15        | 8.08   | 8.08   | 8.09             | 8.68   | 8.86   | 8.97   | 110.9     | 112.8     | 114.1    | 0.8      | 2.72                    | 22.9          | 7                        | <1                      |                    |             |             |               |                               | 1                    | 2              | 5                    | 6           | 3           | NW                | 1.5         | 3              | 0              | nh      | pj          | pj              | clear surface conditions, % SAT near top of range at all depths |                          |                          |  |
| Site 11 | 6/21/2021 | 9:06 AM | 21.52               | 21.49          | 21.29                   | 26.17        | 26.24        | 26.21        | 8.03   | 8.03   | 8.02             | 7.53   | 7.65   | 7.64   | 100.3     | 101.8     | 101.0    | 1.1      | 4.46                    | 25.9          | 17                       | 9                       |                    |             |             |               |                               | 0                    | 1              | 5                    | 6           | 4           | S                 | 2.4         | 2              | 0.5            | nh      | pj          | pj              | clear surface conditions  |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     |                |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |
| Site 11 |           |         |                     | </             |                         |              |              |              |        |        |                  |        |        |        |           |           |          |          |                         |               |                          |                         |                    |             |             |               |                               |                      |                |                      |             |             |                   |             |                |                |         |             |                 |   |                          |                          |  |

















