**Friends of the Bay 2021 Water Quality Data - Site 1, Cold Spring Cove South**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Floor Depth (meters) | Air Temp (°C) | H2O Temp BTM monthly AVG | Fecal Coliform Bacteria | Enterococci | Ammonia (NH3) | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl Nitrogen | Organic Nitrogen (N) | Total Nitrogen | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTION | Wind SPEED m/s | Weather | Wave Height Ft. | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 1 | 4/19/2021 | 11:06am | 12.59 | 11.72 | 10.02 | 22.99 | 24.50 | 26.11 | 8.35 | 8.25 | 8.19 | 11.57 | 12.04 | 11.76 | 125.5 | 128.4 | 122.9 | 1.1m | 3.75 | 18.4 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 1 | NE | 3.4 | 1 | 0.5 | kp | pj | pj | Clear surface conditions |
| Site 1 | 4/26/2021 | 10:56 AM | 10.84 | 10.82 | 10.78 | 22.98 | 23.41 | 24.65 | 7.95 | 7.96 | 7.99 | 8.91 | 8.92 | 8.68 | 93.2 | 93.5 | 91.4 | 1.7 | 6.66 | 15.7 | | 9 | 4 | | | | | | | 1 | 4 | 5 | 6 | 0 | NW | 3 | 1 | 1 | nh | pj | pj | choppy |
| Site 1 | 5/3/2021 | 10:59 AM | 13.27 | 13.20 | 11.83 | 22.78 | 23.70 | 25.72 | 7.76 | 7.88 | 7.93 | 8.65 | 8.67 | 8.62 | 95.5 | 96.5 | 94.0 | 1.8 | 4.12 | 18.2 | | 5 | 3 | | | | | | | 0 | 2 | 5 | 6 | 4 | NE | 1.7 | 3 | 0 | nh | pj | pj | clear surface conditions |
| Site 1 | 5/10/2021 | 10:06 AM | 12.02 | 12.19 | 11.73 | 22.11 | 24.31 | 25.83 | 8.05 | 8.05 | 7.97 | 9.74 | 9.92 | 9.68 | 105.1 | 109 | 105.7 | 1.25 | 6.05 | 15.2 | | 29 | 55 | | | | | | | 2 | 4 | 5 | 6 | 4 | W | 2.5 | 3 | 0.5 | nh | pj | pj | Clear surface conditions |
| Site 1 | 5/17/2021 | 10:32 AM | 15.04 | 14.93 | 13.83 | 24.04 | 24.65 | 26.04 | 7.96 | 7.90 | 7.91 | 8.72 | 8.95 | 9.02 | 100.1 | 102.5 | 101.5 | 1.7 | 3.81 | 24.7 | | 1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 0 | N | 2 | 1 | 0 | nh | pj | pj | Clear surface conditions |
| Site 1 | 5/24/2021 | 10:01 AM | 19.09 | 19.09 | 17.99 | 24.31 | 24.38 | 25.75 | 7.92 | 7.94 | 7.86 | 7.97 | 8.20 | 7.97 | 99.3 | 101.9 | 97.3 | 1.1 | 6.61 | 17.5 | | 37 | 10 | | | | | | | 0 | 1 | 5 | 6 | 4 | SW | 3.5 | 3 | 0 | nh | pj | pj | Clear surface conditions |
| Site 1 | 6/1/2021 | 10:50 AM | 15.43 | 15.39 | 14.89 | 20.46 | 23.59 | 25.25 | 7.65 | 7.53 | 7.61 | 7.97 | 7.87 | 7.32 | 89.7 | 90.1 | 83.0 | 1.4 | 3.64 | 27.2 | | 2 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NE | 1.1 | 3 | 0 | nh | pj | pj | Clear surface conditions |
| Site 1 | 6/7/2021 | 11:13 AM | 19.70 | 17.74 | 16.67 | 24.34 | 25.60 | 26.05 | 8.02 | 7.98 | 7.81 | 9.36 | 9.67 | 8.72 | 118.2 | 118.3 | 104.4 | 1.05 | 5.83 | 33.0 | | 11 | 1 | | | | | | | 0 | 1 | 5 | 6 | 0 | 0 | 0 | 1 | 0 | nh | pj | pj | Clear surface conditions |
| Site 1 | 6/15/2021 | 10:37 AM | 18.07 | 17.26 | 16.74 | 25.09 | 25.69 | 26.48 | 8.06 | 7.75 | 7.67 | 8.10 | 8.74 | 7.11 | 100.3 | 105.3 | 84.6 | 0.8 | 4.15 | 25.8 | | 63 | 7 | | | | | | | 1 | 3 | 5 | 6 | 3 | N | 0.4 | 3 | 0 | nh | pj | pj | Clear surface conditions |
| Site 1 | 6/21/2021 | 11:28 AM | 21.02 | 21.01 | 20.12 | 25.34 | 25.55 | 26.15 | 8.02 | 8.01 | 7.93 | 7.46 | 7.73 | 7.09 | 98.0 | 101.0 | 91.6 | 0.7 | 5.84 | 24.4 | | 320 | 43 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 3.3 | 3 | 0.5 | nh | pj | pj | Clear surface conditions |
| Site 1 | 6/28/2021 | 10:57 AM | 19.42 | 19.03 | 18.60 | 25.99 | 26.05 | 26.50 | 7.55 | 7.51 | 7.43 | 5.97 | 5.73 | 5.23 | 75.0 | 72.1 | 64.8 | 0.8 | 3.85 | 30.0 | | 150 | 11 | | | | | | | 0 | 4 | 5 | 4 | 1 | SW | 1.5 | 1 | 0 | nh | pj | pj | Clear surface conditions, dead fish near site |
| Site 1 | 7/6/2021 | 11:33 AM | 21.39 | 20.48 | 19.23 | 25.35 | 26.45 | 26.99 | **no pH data, sensor unopera** | | | 5.40 | 5.67 | 4.66 | 72.0 | 72.5 | 57.5 | 1.6 | 5.30 | 31.0 | | 39 | 3 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 4.1 | 1 | 0 | nh | pj | pj | clear surface conditions |
| Site 1 | 7/12/2021 | 9:40 AM | 22.18 | 22.11 | 21.72 | 24.51 | 24.78 | 25.71 | 7.35 | 7.32 | 7.26 | 4.91 | 4.79 | 3.09 | 64.6 | 62.9 | 40.1 | 0.9 | 4.04 | 25.0 | | 60 | 16 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0 | nh | pj | pj | clear surface conditions |
| Site 1 | 7/19/2021 | 11:19 AM | 24.05 | 23.98 | 23.53 | 24.10 | 24.84 | 25.55 | 7.93 | 7.63 | 7.34 | 5.38 | 6.66 | 5.32 | 75.0 | 91.5 | 70.3 | 1.0 | 4.55 | 24.0 | | 220 | 35 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.4 | 3 | 0 | nh | pj | pj | clear surface conditions |
| Site 1 | 7/26/2021 | 9:27 AM | 23.16 | 23.18 | 22.93 | 24.96 | 24.90 | 25.85 | 7.28 | 7.31 | 7.32 | 3.57 | 3.22 | 2.82 | 46.1 | 43.4 | 37.6 | 1.9 | 4.07 | 26.0 | | 250 | 52 | | | | | | | 2 | 4 | 5 | 6 | 1 | W | 1.0 | 1 | 0 | nh | pj | pj | clear surface conditions |
| Site 1 | 8/2/2021 | 11:30 AM | 23.68 | 23.65 | 23.47 | 24.38 | 24.30 | 25.55 | **no pH data, sensor unopera** | | | 5.58 | 5.83 | 4.78 | 76.3 | 79.9 | 64.8 | 1.1 | 4.58 | 22.8 | | 13 | 1 | | | | | | | 0 | 2 | 5 | 6 | 2 | NW | 2.7 | 1 | 0.5 | nh | pj | pj | clear surface conditions,do in hypoxic range at btm depth |
| Site 1 | 8/9/2021 | 9:47 AM | 22.24 | 22.28 | 22.28 | 25.18 | 25.41 | 26.03 | 7.30 | 7.30 | 7.25 | 3.82 | 3.34 | 2.62 | 50.1 | 43.7 | 33.9 | 1.6 | 4.86 | 22.0 | | 90 | 70 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 2.8 | 4 | 0 | nh | pj | pj | clear surface conditions,do in hypoxic range at all depths |
| Site 1 | 8/24/2021 | 9:32 AM | 24.10 | 24.17 | 24.12 | 24.42 | 24.60 | 25.40 | 7.39 | 7.41 | 7.42 | 4.31 | 3.88 | 3.53 | 57.0 | 53.0 | 48.3 | 1.1 | 4.23 | 25.6 | | 45 | 6 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 8 | 1 | 0 | es | pj | pj | clear surface conditions,do in hypoxic range at all depths |
| Site 1 | 8/31/2021 | 10:29 AM | 24.71 | 24.61 | 23.67 | 25.00 | 25.29 | 26.53 | pH sensor broken | | | 5.20 | 5.70 | 5.13 | 73.3 | 81.7 | 67.6 | 0.8 | 4.60 | 26.1 | | 16 | <1 | | | | | | | 1 | 2 | 5 | 6 | 3 | NW | 6.0 | 1 | 0 | es | pj | pj | clear surface conditions |
| Site 1 | 9/7/2021 | 9:52 AM | 23.29 | 23.27 | 23.42 | 24.72 | 24.73 | 25.21 | pH sensor broken | | | 5.45 | 5.35 | 4.86 | 73.3 | 72.2 | 65.7 | 0.9 | 5.26 | 21.1 | | 28 | 11 | | | | | | | 0 | 4 | 4 | 6 | 0 | WNW | 8 | 1 | 0 | es | pj | pj | clear surface conditions |
| Site 1 | 9/13/2021 | 11:15 AM | 23.35 | 23.29 | 23.00 | 23.92 | 24.01 | 24.41 | pH sensor broken | | | 5.82 | 5.92 | 5.92 | 78.3 | 79.4 | 78.8 | 0.7 | 3.87 | 26.1 | | 21 | 1 | | | | | | | 0 | 4 | 5 | 6 | 1 | NW | 11.0 | 1 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 1 | 9/21/2021 | 10:23 AM | 22.31 | 22.38 | 22.75 | 24.70 | 24.87 | 25.56 | pH sensor broken | | | 5.18 | 5.41 | 5.23 | 68.1 | 71.3 | 68.1 | 1.3 | 5.77 | 18.8 | | 24 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 7 | 2 | 0 | fb | pj | pj | clear surface conditions |
| Site 1 | 10/4/2021 | 11:21 AM | 20.83 | 20.83 | 20.83 | 24.48 | 24.38 | 25.36 | pH sensor broken | | | 5.75 | 5.55 | 5.12 | 73.5 | 71.3 | 66.1 | 0.7 | 6.41 | 18.8 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | ENE | 11.0 | 3 | 0.5 | es | pj | pj | clears surface conditions |
| Site 1 | 10/11/2021 | 10:52 AM | 18.92 | 19.22 | 20.16 | 22.69 | 23.82 | 25.33 | pH sensor broken | | | 6.05 | 5.95 | 5.34 | 74.1 | 73.6 | 66.6 | 1.5 | 4.28 | 18.8 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 9 | 6 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 1 | 10/18/2021 | 10:05 AM | 18.17 | 18.28 | 18.80 | 23.02 | 24.62 | 25.27 | pH sensor broken | | | 7.78 | 7.42 | 7.38 | 93.6 | 91.6 | 92.1 | 1.1 | 6.10 | 12.2 | | 30 | 7 | | | | | | | 1 | 4 | 5 | 6 | 3 | W | 13.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 1 | 10/25/2021 | 10:22 AM | 17.22 | 17.14 | 17.17 | 24.58 | 25.01 | 25.36 | pH sensor broken | | | 7.39 | 7.31 | 7.17 | 88.6 | 87.9 | 86.4 | 1.1 | 4.51 | 18.8 | | 2 | 1 | | | | | | | 1 | 4 | 5 | 6 | 3 | S | 10 | 2 | 0.5 | es | pj | pj | bunker jumping |
| Site 1 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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**Friends of the Bay 2021 Water Quality Data - Site 2, Cold Spring Cove North**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Floor Depth (meters) | Air Temp (°C) | H2O Temp BTM monthly AVG | Fecal Coliform Bacteria | Enterococci | Ammonia (NH3) | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl Nitrogen (TKN) | Organic Nitrogen (N) | Total Nitrogen | Rain fall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 2 | 4/19/2021 | 10:54 AM | 10.85 | 10.45 | 9.83 | 24.92 | 25.40 | 26.32 | 8.22 | 8.17 | 8.18 | 11.12 | 11.31 | 10.90 | 118.4 | 119.4 | 113.5 | 1.1 | 4.45 | 18.4 | | 2 | <1 | | | | | | | 0 | 3 | 5 | 6 | 1 | NE | 2.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 4/26/2021 | 10:39 AM | 10.80 | 10.83 | 10.79 | 24.45 | 24.49 | 24.61 | 8.05 | 8.04 | 8.04 | 9.18 | 9.14 | 9.08 | 96.7 | 96.3 | 95.7 | 1.4 | 4.74 | 10.4 | | 7 | 2 | | | | | | | 1 | 4 | 5 | 6 | 1 | NW | 5.6 | 1 | 1.5 | nh | pj | pj | choppy |
| Site 2 | 5/3/2021 | 10:48 AM | 12.06 | 12.09 | 11.85 | 25.21 | 25.13 | 25.65 | 7.96 | 7.96 | 7.96 | 8.87 | 8.89 | 8.83 | 96.8 | 97.3 | 96.1 | 1.5 | 5.67 | 16.2 | | 8 | 2 | | | | | | | 0 | 2 | 5 | 6 | 4 | NE | 1.6 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 5/10/2021 | 9:49 AM | 12.23 | 12.18 | 11.59 | 24.72 | 25.09 | 26.07 | 8.05 | 8.06 | 7.92 | 9.22 | 9.80 | 9.44 | 103.5 | 107.7 | 102.3 | 1.0 | 8.38 | 13.8 | | 11 | 5 | | | | | | | 2 | 4 | 5 | 6 | 4 | W | 3.0 | 3 | 1.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 5/17/2021 | 10:21 AM | 14.85 | 14.40 | 13.72 | 24.87 | 25.40 | 26.19 | 7.94 | 7.95 | 7.83 | 8.52 | 8.88 | 8.42 | 97.9 | 100.8 | 94.5 | 1.7 | 6.96 | 26.6 | | 5 | 2 | | | | | | | 0 | 3 | 5 | 6 | 0 | N | 1.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 5/24/2021 | 9:49 AM | 18.65 | 18.70 | 18.43 | 23.38 | 25.18 | 25.66 | 8.00 | 7.96 | 7.88 | 8.67 | 8.78 | 8.80 | 106.1 | 108.7 | 107.8 | 1.0 | 3.66 | 18.6 | | 66 | 12 | | | | | | | 0 | 4 | 5 | 6 | 4 | W | 3.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 6/1/2021 | 10:36 AM | 15.28 | 14.99 | 14.48 | 24.08 | 24.73 | 25.82 | 7.70 | 7.71 | 7.70 | 7.05 | 7.25 | 6.92 | 80.9 | 83.0 | 78.7 | 1.3 | 6.63 | 22.3 | | 15 | 5 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 6/7/2021 | 10:59 AM | 19.02 | 17.54 | 16.33 | 25.06 | 25.76 | 26.22 | 8.10 | 7.99 | 7.73 | 8.95 | 9.61 | 8.15 | 112.3 | 117.2 | 95.7 | 1.1 | 8.51 | 27.1 | | 26 | 5 | | | | | | | 0 | 1 | 5 | 6 | 1 | N | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 6/15/2021 | 10:21 AM | 17.21 | 16.86 | 16.65 | 25.85 | 26.19 | 26.57 | 7.89 | 7.83 | 7.70 | 7.31 | 7.53 | 6.96 | 88.9 | 90.8 | 83.7 | 0.9 | 5.38 | 25.5 | | 58 | 12 | | | | | | | 1 | 3 | 5 | 6 | 3 | N | 1.6 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 6/21/2021 | 11:10 AM | 21.92 | 20.61 | 19.89 | 24.88 | 25.86 | 26.36 | 8.20 | 8.03 | 7.94 | 8.71 | 9.22 | 7.75 | 117.2 | 119.7 | 99.0 | 0.7 | 7.38 | 25.9 | | 80 | 15 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 3.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 2 | 6/28/2021 | 10:43 AM | 19.84 | 19.87 | 18.53 | 25.45 | 25.62 | 26.54 | 7.60 | 7.61 | 7.45 | 6.54 | 6.47 | 5.19 | 82.9 | 81.8 | 64.1 | 0.8 | 5.48 | 30.0 | | 140 | 5 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 2.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 7/6/2021 | 11:21 AM | 20.20 | 19.35 | 18.98 | 26.39 | 26.85 | 27.10 | **no pH data, sensor unoperative** | | | 5.60 | 5.23 | 4.13 | 71.6 | 65.2 | 52.4 | 1.2 | 5.40 | 31.0 | | 23 | 2 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 2.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 7/12/2021 | 9:24 AM | 22.06 | 21.71 | 21.50 | 24.65 | 24.82 | 25.98 | 7.42 | 7.29 | 7.29 | 4.72 | 4.69 | 3.62 | 62.4 | 61.1 | 47.5 | 0.8 | 5.27 | 25.0 | | 280 | 48 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 7/19/2021 | 11:07 AM | 23.86 | 23.71 | 23.53 | 24.86 | 25.13 | 25.60 | 7.78 | 7.62 | 7.39 | 5.64 | 6.07 | 4.73 | 77.7 | 83.0 | 60.9 | 0.6 | 4.49 | 24.0 | | 90 | 23 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 2 | 7/26/2021 | 9:14 AM | 23.13 | 23.01 | 22.76 | 24.81 | 25.22 | 25.95 | 7.42 | 7.40 | 7.37 | 3.71 | 3.61 | 3.33 | 50.2 | 48.5 | 44.3 | 1.4 | 5.01 | 25.0 | | 160 | 80 | | | | | | | 2 | 4 | 5 | 4 | 1 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | 1 dead fish |
| Site 2 | 8/2/2021 | 11:16 AM | 23.45 | 23.41 | 23.32 | 24.79 | 24.80 | 25.62 | **no pH data, sensor unoperative** | | | 4.58 | 4.82 | 4.28 | 62.4 | 65.9 | 57.6 | 1.3 | 6.28 | 22.8 | | 6 | <1 | | | | | | | 0 | 2 | 5 | 6 | 2 | NW | 3.8 | 1 | 0.5 | nh | pj | pj | clear surface conditions, do in hypoxic range at all depths |
| Site 2 | 8/9/2021 | 9:33 AM | 22.18 | 22.24 | 22.28 | 24.43 | 25.27 | 26.01 | 7.42 | 7.39 | 7.27 | 3.15 | 3.54 | 2.03 | 41.2 | 47.0 | 26.7 | 1.3 | 6.23 | 22.0 | | 120 | 80 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 2.7 | 3 | 0.0 | nh | pj | pj | clear surface conditions, do in hypoxic range at all depths |
| Site 2 | 8/24/2021 | 9:18 AM | 23.93 | 24.05 | 24.06 | 24.11 | 24.90 | 25.39 | 7.41 | 7.44 | 7.45 | 4.43 | 4.03 | 3.74 | 60.2 | 55.1 | 51.3 | 1.1 | 4.73 | 23.8 | | 51 | 66 | | | | | | | 1 | 4 | 4 | 6 | 0 | W | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions, do in hypoxic range at all depths |
| Site 2 | 8/31/2021 | 10:19 AM | 24.19 | 23.92 | 23.43 | 24.99 | 26.02 | 26.77 | pH sensor broken | | | 3.63 | 3.71 | 2.52 | 48.8 | 52.5 | 33.6 | 0.9 | 6.55 | 25.0 | | 24 | 2 | | | | | | | 1 | 2 | 5 | 6 | 2 | NW | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions, do in hypoxic range at all depths |
| Site 2 | 9/7/2021 | 9:37 AM | 23.23 | 23.20 | 23.44 | 24.99 | 24.99 | 25.24 | pH sensor broken | | | 4.83 | 4.74 | 4.44 | 65.1 | 64.1 | 60.2 | 1.0 | 7.54 | 20.0 | | 14 | 4 | | | | | | | 0 | 4 | 4 | 3 | 0 | WNW | 7.0 | 1 | 0.0 | es | pj | pj | foam, do in hypoxic range at all depths |
| Site 2 | 9/13/2021 | 11:02 AM | 22.94 | 22.90 | 22.69 | 24.11 | 24.14 | 24.79 | pH sensor broken | | | 5.96 | 6.28 | 5.66 | 79.9 | 83.7 | 74.9 | 1.2 | 5.49 | 27.1 | | 15 | 2 | | | | | | | 0 | 4 | 5 | 6 | 1 | NW | 11.0 | 1 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 2 | 9/21/2021 | 10:10 AM | 22.58 | 22.30 | 22.83 | 25.09 | 25.00 | 25.72 | pH sensor broken | | | 5.37 | 5.32 | 5.32 | 69.5 | 69.8 | 64.7 | 1.3 | 8.37 | 18.8 | | 33 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 6.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 2 | 10/4/2021 | 11:10 AM | 20.87 | 20.84 | 20.80 | 25.00 | 25.25 | 25.58 | pH sensor broken | | | 5.87 | 5.44 | 5.08 | 74.5 | 70.0 | 65.8 | 1.1 | 7.59 | 18.8 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | ENE | 11.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 2 | 10/11/2021 | 10:40 AM | 20.00 | 19.99 | 20.27 | 24.96 | 25.01 | 25.80 | pH sensor broken | | | 5.80 | 5.51 | 5.00 | 73.2 | 69.2 | 63.6 | 1.1 | 6.38 | 17.7 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 16.0 | 3 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 2 | 10/18/2021 | 9:53 AM | 18.58 | 18.60 | 18.83 | 25.06 | 25.06 | 25.37 | pH sensor broken | | | 7.90 | 7.74 | 7.63 | 97.4 | 96.3 | 95.2 | 1.3 | 4.16 | 12.2 | | 14 | 2 | | | | | | | 1 | 4 | 5 | 6 | 3 | W | 13.0 | 2 | 1.5 | es | pj | pj | clear surface conditions |
| Site 2 | 10/25/2021 | 10:05 AM | 16.89 | 16.96 | 17.35 | 24.10 | 24.59 | 25.72 | pH sensor broken | | | 7.55 | 7.45 | 7.25 | 89.6 | 89.0 | 88.1 | 1.3 | 6.83 | 20.0 | | 9 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | S | 11.0 | 2 | 0.5 | es | pj | pj | bunker jumping |
| Site 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Site 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 Water Quality Data - Site 3, Cold Spring Harbor South**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Floor Depth (meters) | Air Temp (°C) | H2O Temp BTM monthly AVG | Fecal Coliform Bacteria | Enterococci | Ammonia (NH3) | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl Nitrogen | Organic Nitrogen | Total Nitrogen | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 3 | 4/19/2021 | 10:43 AM | 10.59 | 10.40 | 9.52 | 26.00 | 26.20 | 26.56 | 8.26 | 8.28 | 8.23 | 10.75 | 10.98 | 11.15 | 114.5 | 116.4 | 115.3 | 1.1 | 4.67 | 17.8 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 1 | NE | 1.1 | 1 | 0.5 | nh | pj | pj | clear suface conditions |
| Site 3 | 4/26/2021 | 10:18 AM | 10.78 | 10.78 | 10.49 | 25.24 | 25.19 | 25.52 | 8.12 | 8.11 | 8.14 | 9.4 | 9.31 | 9.32 | 99.3 | 98.5 | 98.3 | 2.0 | 6.5 | 10.9 | | <1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | W | 8.0 | 1 | 1.5 | nh | pj | pj | choppy |
| Site 3 | 5/3/2021 | 10:38 AM | 12.21 | 12.16 | 11.29 | 25.27 | 25.48 | 25.99 | 8 | 8.01 | 7.95 | 8.86 | 9.1 | 8.93 | 97.6 | 99.9 | 96.3 | 1.3 | 4.58 | 18.5 | | 2 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 5/10/2021 | 9:38 AM | 12.14 | 12.15 | 11.43 | 25.73 | 25.74 | 26.07 | 8.07 | 8.07 | 7.97 | 9.66 | 9.86 | 9.78 | 106.9 | 108.9 | 105.1 | 1.9 | 6.33 | 12.4 | | <1 | <1 | | | | | | | 2 | 4 | 5 | 6 | 4 | NW | 2.5 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 3 | 5/17/2021 | 10:06 AM | 14.89 | 14.23 | 13.48 | 25.61 | 26.12 | 26.44 | 7.97 | 7.99 | 7.92 | 8.92 | 9.15 | 9.12 | 102.9 | 103.8 | 102.0 | 1.3 | 4.45 | 26.1 | | 1 | 1 | | | | | | | 0 | 3 | 5 | 6 | 0 | NW | 2.1 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 5/24/2021 | 9:36 AM | 18.73 | 18.73 | 16.44 | 25.52 | 25.55 | 26.06 | 7.99 | 8.00 | 7.79 | 8.08 | 8.65 | 7.92 | 100.6 | 107.5 | 93.0 | 1.6 | 6.86 | 17.1 | | 11 | 1 | | | | | | | 0 | 4 | 5 | 6 | 4 | S | 4.5 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 3 | 6/1/2021 | 10:27 AM | 15.05 | 14.83 | 14.32 | 25.43 | 25.70 | 26.31 | 7.76 | 7.84 | 7.73 | 7.55 | 7.51 | 7.46 | 86.5 | 86.1 | 84.5 | 1.2 | 4.60 | 23.0 | | 12 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 0.8 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 6/7/2021 | 10:48 AM | 19.81 | 19.38 | 16.17 | 25.76 | 26.06 | 26.30 | 8.14 | 8.17 | 7.75 | 9.92 | 10.41 | 9.29 | 127.0 | 131.1 | 109.0 | 1.6 | 6.45 | 33.2 | | 7 | 2 | | | | | | | 0 | 1 | 5 | 6 | 1 | N | 2.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT outside of range at top and 1m depths |
| Site 3 | 6/15/2021 | 10:12 AM | 17.68 | 17.30 | 16.53 | 26.13 | 26.28 | 26.80 | 8.04 | 8.00 | 7.79 | 7.97 | 8.39 | 8.29 | 97.5 | 102.4 | 98.5 | 0.9 | 4.67 | 25.5 | | 44 | 4 | | | | | | | 1 | 3 | 5 | 6 | 4 | N | 1.7 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 6/21/2021 | 11:00 AM | 20.93 | 20.89 | 19.78 | 26.05 | 26.11 | 26.42 | 8.16 | 8.16 | 7.98 | 7.86 | 8.42 | 8.10 | 104.7 | 111.3 | 103.0 | 0.9 | 6.27 | 26.6 | | 17 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 3.5 | 3 | 1.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 6/28/2021 | 10:27 AM | 20.62 | 19.36 | 18.49 | 26.32 | 26.43 | 26.73 | 7.76 | 7.69 | 7.63 | 7.06 | 7.01 | 6.57 | 92.0 | 88.0 | 80.0 | 1.2 | 4.27 | 29.0 | | 14 | 1 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 2.9 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 7/6/2021 | 11:09 AM | 20.58 | 20.39 | 18.55 | 26.64 | 26.72 | 27.20 | **no pH data, sensor unoper** | | | 5.76 | 6.20 | 5.33 | 76.1 | 80.7 | 66.4 | 1.7 | 6.26 | 30.0 | | 5 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 1.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 7/12/2021 | 9:13 AM | 22.09 | 21.95 | 21.35 | 25.07 | 25.50 | 26.05 | 7.47 | 7.44 | 7.39 | 4.44 | 4.54 | 4.33 | 57.5 | 60.0 | 56.4 | 1.2 | 4.64 | 25.0 | | 70 | 14 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 7/19/2021 | 10:52 AM | 24.02 | 24.00 | 23.68 | 25.50 | 25.54 | 25.92 | 7.87 | 7.90 | 7.48 | 5.06 | 6.11 | 5.47 | 71.5 | 84.9 | 73.2 | 1.1 | 5.53 | 24.0 | | 24 | 5 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 7/26/2021 | 9:05 AM | 22.96 | 22.88 | 22.36 | 25.51 | 25.52 | 26.15 | 7.51 | 7.52 | 7.49 | 4.61 | 4.49 | 4.27 | 62.4 | 60.5 | 56.8 | 1.6 | 4.44 | 25.0 | | 62 | 46 | | | | | | | 2 | 4 | 5 | 6 | 2 | 0 | 0.0 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 3 | 8/2/2021 | 11:01 AM | 23.55 | 25.53 | 23.12 | 25.77 | 25.62 | 25.62 | **no pH data, sensor unoper** | | | 6.71 | 6.80 | 6.03 | 92.7 | 93.2 | 81.3 | 1.5 | 4.58 | 22.8 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 2.3 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 3 | 8/9/2021 | 9:17 AM | 22.42 | 22.41 | 22.33 | 25.49 | 25.66 | 26.40 | 7.69 | 7.63 | 7.37 | 4.84 | 5.17 | 3.83 | 64.9 | 68.8 | 50.7 | 1.3 | 5.26 | 22.0 | | 38 | 20 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 2.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions,do in hypoxic range at btm depth |
| Site 3 | 8/24/2021 | 9:07 AM | 24.07 | 24.06 | 23.83 | 24.98 | 25.59 | 26.03 | 7.64 | 7.59 | 7.49 | 5.31 | 5.27 | 4.64 | 73.1 | 72.6 | 63.2 | 1.3 | 4.73 | 22.8 | | 27 | 9 | | | | | | | 1 | 4 | 4 | 6 | 0 | W | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 3 | 8/31/2021 | 10:06 AM | 24.30 | 24.22 | 23.38 | 25.85 | 26.00 | 26.81 | pH sensor broken | | | 5.85 | 6.63 | 5.04 | 82.5 | 92.7 | 67.7 | 0.7 | 5.58 | 23.8 | | 11 | 2 | | | | | | | 1 | 2 | 5 | 6 | 3 | NW | 6.0 | 3 | 0.0 | es | pj | pj | clear surface conditions |
| Site 3 | 9/7/2021 | 9:20 AM | 23.27 | 23.30 | 23.30 | 25.22 | 25.25 | 25.66 | pH sensor broken | | | 5.84 | 5.81 | 5.30 | 78.7 | 78.9 | 71.8 | 1.0 | 5.84 | 20.0 | | 7 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | WNW | 7.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 3 | 9/13/2021 | 10:52 AM | 23.00 | 22.99 | 22.74 | 24.66 | 24.68 | 25.15 | pH sensor broken | | | 6.31 | 6.46 | 6.21 | 84.6 | 86.6 | 81.8 | 1.1 | 4.60 | 26.1 | | 14 | <1 | | | | | | | 0 | 3 | 5 | 6 | 0 | NW | 11.0 | 1 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 3 | 9/21/2021 | 9:56 AM | 22.57 | 22.56 | 22.97 | 25.63 | 25.65 | 26.02 | pH sensor broken | | | 5.98 | 6.12 | 5.61 | 78.7 | 80.9 | 74.4 | 1.2 | 6.12 | 18.8 | | <1 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 6.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 3 | 10/4/2021 | 10:59 AM | 20.89 | 20.89 | 20.80 | 25.31 | 25.34 | 25.72 | pH sensor broken | | | 6.72 | 6.60 | 6.35 | 86.6 | 85.4 | 82.3 | 1.5 | 7.14 | 20.0 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | ENE | 11.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 3 | 10/11/2021 | 10:27 AM | 20.00 | 20.01 | 20.18 | 25.45 | 25.45 | 25.82 | pH sensor broken | | | 5.91 | 5.63 | 5.33 | 74.3 | 70.6 | 67.6 | 1.6 | 5.00 | 17.7 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 3 | 10/18/2021 | 9:39 AM | 18.89 | 18.99 | 19.18 | 25.82 | 25.85 | 26.03 | pH sensor broken | | | 8.10 | 8.04 | 8.01 | 101.6 | 101.3 | 101.3 | 1.3 | 6.95 | 12.2 | | 1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | W | 12.0 | 2 | 1.5 | fb | pj | pj | clear surface conditions |
| Site 3 | 10/25/2021 | 9:57 AM | 17.35 | 17.36 | 17.46 | 25.63 | 25.65 | 25.89 | pH sensor broken | | | 8.06 | 8.05 | 8.01 | 97.8 | 97.8 | 97.5 | 1.5 | 5.07 | 18.8 | | 1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | S | 11.0 | 3 | 1.0 | es | pj | pj | clear surface conditions |
| Site 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 3 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 Water Quality Data - Site 4, Cold Spring Harbor North**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 4 | 4/19/2021 | 10:30 AM | 11.21 | 11.19 | 9.16 | 25.83 | 26.34 | 26.71 | 8.30 | 8.32 | 8.22 | 11.28 | 11.70 | 11.59 | 121.6 | 126.6 | 119.6 | 2.0 | 5.27 | 15.9 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 1 | NE | 1.7 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 4/26/2021 | 10:00 AM | 9.73 | 9.7 | 9.68 | 25.83 | 25.86 | 25.84 | 8.15 | 8.15 | 8.15 | 9.52 | 9.52 | 9.54 | 98.8 | 98.8 | 98.9 | 2.2 | 7.05 | 12.8 | | 1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | NW | 5.0 | 1 | 2.0 | nh | pj | pj | choppy |
| Site 4 | 5/3/2021 | 10:29 AM | 12.36 | 12.37 | 10.67 | 25.54 | 25.60 | 26.27 | 8.10 | 8.10 | 8.04 | 9.42 | 9.62 | 9.63 | 104.4 | 106.4 | 102.3 | 2.1 | 5.39 | 16.7 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 5/10/2021 | 9:29 AM | 11.74 | 11.75 | 11.3 | 26.09 | 26.12 | 26.35 | 7.99 | 7.99 | 7.96 | 9.11 | 9.14 | 9.03 | 99.8 | 100.0 | 98 | 2.2 | 6.81 | 12.3 | | <1 | <1 | | | | | | | 2 | 4 | 5 | 6 | 4 | N | 3.3 | 3 | 1.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 5/17/2021 | 9:57 AM | 15.10 | 15.01 | 13.3 | 26.05 | 26.08 | 26.59 | 8.05 | 8.05 | 7.94 | 9.30 | 9.58 | 9.54 | 107.9 | 110.7 | 105.8 | 2.0 | 5.05 | 26.8 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 0 | N | 1.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 5/24/2021 | 9:18 AM | 16.61 | 16.59 | 14.41 | 26.27 | 26.34 | 26.54 | 8.05 | 8.05 | 7.95 | 9.11 | 9.21 | 8.90 | 109.0 | 109.9 | 101.6 | 1.9 | 7.39 | 16.9 | | 1 | <1 | | | | | | | 0 | 4 | 5 | 6 | 4 | SE | 4.8 | 3 | 1.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 6/1/2021 | 10:17 AM | 15.35 | 15.01 | 13.63 | 25.16 | 25.49 | 26.51 | 7.95 | 7.99 | 7.81 | 8.56 | 9.09 | 9.15 | 99.8 | 104.8 | 102 | 1.6 | 5.17 | 23.0 | | 5 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 6/7/2021 | 10:38 AM | 19.39 | 19.16 | 15.93 | 25.98 | 26.10 | 26.51 | 8.15 | 8.14 | 7.85 | 9.86 | 10.35 | 9.60 | 124.8 | 131.0 | 113.4 | 1.7 | 7.13 | 30.5 | | 2 | <1 | | | | | | | 0 | 1 | 5 | 6 | 1 | NE | 0.6 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT outside of range at top and 1m levels |
| Site 4 | 6/15/2021 | 9:57 AM | 18.73 | 18.11 | 15.97 | 26.42 | 26.45 | 26.95 | 8.25 | 8.25 | 7.63 | 8.62 | 9.75 | 8.02 | 110.2 | 121.1 | 94.8 | 1.1 | 5.26 | 23.6 | | 1 | <1 | | | | | | | 1 | 3 | 5 | 6 | 4 | SE | 2.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions, % SAT fluctuated at 1 m |
| Site 4 | 6/21/2021 | 10:48 AM | 21.66 | 21.65 | 16.90 | 26.23 | 26.29 | 26.88 | 8.24 | 8.24 | 7.90 | 8.53 | 8.81 | 8.18 | 114.2 | 117.9 | 99.7 | 1.3 | 6.96 | 23.7 | | 5 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 4.7 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 4 | 6/28/2021 | 10:07 AM | 20.26 | 20.23 | 18.63 | 26.56 | 26.60 | 26.80 | 7.83 | 7.83 | 7.65 | 7.64 | 7.67 | 6.57 | 98.0 | 98.5 | 81.2 | 1.4 | 4.82 | 28.3 | | 5 | 1 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 2.1 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 7/6/2021 | 10:57 AM | 21.06 | 20.96 | 18.58 | 26.69 | 26.74 | 27.21 | **no pH data, sensor unopera** | | | 6.54 | 7.10 | 7.06 | 87.3 | 93.6 | 87.3 | 1.6 | 6.85 | 29.0 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 2.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 7/12/2021 | 9:03 AM | 22.68 | 22.54 | 20.88 | 25.44 | 25.46 | 26.25 | 7.85 | 7.82 | 7.56 | 7.05 | 7.68 | 7.10 | 96.6 | 103.3 | 92.2 | 1.1 | 5.21 | 25.0 | | 2 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 7/19/2021 | 10:38 AM | 24.75 | 24.74 | 23.95 | 26.04 | 25.99 | 26.16 | 8.13 | 8.12 | 7.75 | 7.08 | 8.39 | 8.04 | 102.8 | 108.8 | 108.2 | 0.7 | 6.20 | 23.0 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.7 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 7/26/2021 | 8:50 AM | 23.51 | 23.48 | 21.79 | 25.68 | 25.79 | 26.44 | 7.76 | 7.77 | 7.51 | 5.76 | 5.99 | 5.41 | 79.1 | 82.4 | 71.7 | 1.7 | 4.99 | 24.0 | | 2 | <1 | | | | | | | 2 | 4 | 5 | 6 | 2 | 0 | 0.0 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 8/2/2021 | 10:51 AM | 23.43 | 23.37 | 22.14 | 25.83 | 25.81 | 26.36 | **no pH data, sensor unopera** | | | 6.81 | 7.05 | 5.53 | 94.6 | 96.6 | 74.2 | 1.5 | 6.13 | 22.2 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 3.8 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 4 | 8/9/2021 | 9:06 AM | 22.55 | 22.54 | 22.32 | 26.49 | 26.55 | 26.70 | 7.67 | 7.67 | 7.62 | 5.48 | 5.35 | 4.95 | 73.2 | 71.8 | 66.1 | 1.8 | 5.63 | 22.0 | | 5 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 3.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 4 | 8/24/2021 | 8:57 AM | 24.01 | 23.99 | 23.63 | 25.80 | 25.84 | 26.20 | 7.76 | 7.76 | 7.60 | 5.77 | 6.09 | 5.64 | 80.2 | 84.4 | 77.2 | 1.4 | 5.25 | 23.8 | | 7 | <1 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 7.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 4 | 8/31/2021 | 9:56 AM | 24.90 | 24.83 | 22.91 | 26.17 | 26.28 | 27.10 | pH sensor broken | | | 6.25 | 7.91 | 7.00 | 91.2 | 114.2 | 91.3 | 1.0 | 6.30 | 23.8 | | <1 | <1 | | | | | | | 1 | 2 | 5 | 6 | 3 | NW | 5.0 | 3 | 0.0 | es | pj | pj | clear surface conditions |
| Site 4 | 9/7/2021 | 9:10 AM | 23.15 | 23.13 | 23.05 | 25.56 | 25.58 | 25.65 | pH sensor broken | | | 6.57 | 6.50 | 6.27 | 89.0 | 88.0 | 84.8 | 2.1 | 6.30 | 18.8 | | 2 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | WNW | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 4 | 9/13/2021 | 10:42 AM | 23.23 | 23.23 | 23.04 | 25.36 | 25.36 | 25.41 | pH sensor broken | | | 8.30 | 8.95 | 9.10 | 114.3 | 121.3 | 121.7 | 1.1 | 5.12 | 26.1 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 10.0 | 1 | 1.5 | fb | pj | pj | clear surface conditions |
| Site 4 | 9/21/2021 | 9:46 AM | 22.95 | 22.92 | 22.85 | 26.04 | 26.03 | 26.08 | pH sensor broken | | | 7.56 | 7.67 | 7.62 | 100.9 | 102.1 | 101.0 | 1.5 | 6.63 | 17.7 | | 1 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 6.0 | 2 | 0.0 | fb | pj | pj | clear surface condition |
| Site 4 | 10/4/2021 | 10:49 AM | 21.16 | 21.16 | 21.16 | 25.97 | 25.99 | 25.96 | pH sensor broken | | | 7.70 | 7.68 | 7.67 | 100.5 | 100.4 | 100.3 | 2.2 | 7.79 | 18.8 | | | | | | | | | | >1 | 2 | 5 | 6 | 4 | ENE | 12.0 | 3 | 1.0 | es | pj | pj | clear surface conditions |
| Site 4 | 10/11/2021 | 10:15 AM | 20.01 | 20.01 | 20.35 | 26.02 | 26.05 | 26.42 | pH sensor broken | | | 6.83 | 8.76 | 6.55 | 86.7 | 86.0 | 84.0 | 2.2 | 5.53 | 17.7 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 15.0 | 3 | 1.5 | fb | pj | pj | clear surface conditions |
| Site 4 | 10/18/2021 | 9:26 AM | 19.42 | 19.42 | 19.42 | 26.19 | 26.18 | 26.19 | pH sensor broken | | | 8.13 | 7.94 | 7.85 | 103.0 | 100.7 | 99.7 | 1.5 | 7.29 | 12.2 | | <1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | W | 13.0 | 2 | 2.0 | es | pj | pj | clear surface conditions |
| Site 4 | 10/25/2021 | 9:47 AM | 17.30 | 17.30 | 17.60 | 25.86 | 25.83 | 26.13 | pH sensor broken | | | 8.03 | 8.10 | 8.04 | 97.5 | 98.7 | 98.1 | 2.2 | 5.41 | 18.8 | | 5 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 10.0 | 32 | 1.0 | es | pj | pj | clear surface conditions |
| Site 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Site 4 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 Water Quality Data - Site 5, Plum Point**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTON | Wind SPEED | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 5 | 4/19/2021 | 10:17 AM | 10.38 | 10.46 | 10.16 | 26.42 | 26.53 | 26.58 | 8.22 | 8.22 | 8.23 | 10.34 | 10.48 | 10.69 | 109.9 | 111.4 | 113.1 | 1.9 | 4.68 | 14.6 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 1 | N | 1.2 | 1 | 0.5 | nh | pj | pj | clear surface conditions, more jellyfish orange centers |
| Site 5 | 4/26/2021 | **heavy wind and wave action** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 5 | 5/3/2021 | 10:19 AM | 11.7 | 11.70 | 11.65 | 25.95 | 25.94 | 25.98 | 8.02 | 8.03 | 8.03 | 9.1 | 9.11 | 9.13 | 99.1 | 99.4 | 99.4 | 2 | 4.47 | 16.5 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | SE | 1.0 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 5 | 5/10/2021 | 9:18 AM | 11.58 | 11.53 | 11.32 | 26.13 | 26.15 | 26.27 | 7.98 | 7.98 | 7.96 | 9.05 | 9.08 | 8.99 | 98.7 | 98.9 | 97.4 | 2.4 | 6.83 | 12.7 | | <1 | <1 | | | | | | | 2 | 4 | 5 | 6 | 4 | N | 1.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 5/17/2021 | 9:41 AM | 14.73 | 14.71 | 14.66 | 26.28 | 26.39 | 26.32 | 7.91 | 7.91 | 7.91 | 8.56 | 8.59 | 8.61 | 98.5 | 98.7 | 98.8 | 1.9 | 5.25 | 27.1 | | 3 | <1 | | | | | | | 0 | 3 | 5 | 6 | 0 | NW | 1.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 5/24/2021 | 9:08 AM | 16.57 | 16.63 | 16.36 | 26.28 | 26.27 | 26.31 | 8.03 | 8.02 | 8.01 | 8.93 | 9.05 | 9.17 | 106.7 | 108.2 | 108.9 | 1.6 | 2.95 | 17.8 | | 1 | 2 | | | | | | | 0 | 4 | 5 | 6 | 4 | SE | 3.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 5 | 6/1/2021 | 10:07 AM | 14.58 | 14.59 | 14.3 | 25.95 | 26.01 | 26.19 | 7.83 | 7.83 | 7.82 | 8.16 | 8.14 | 8.04 | 93.2 | 93.0 | 91.4 | 1.6 | 4.85 | 18.3 | | <1 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | N | 2.1 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 6/7/2021 | 10:27 AM | 18.97 | 18.31 | 17.58 | 26.16 | 26.21 | 26.17 | 8.09 | 8.04 | 7.92 | 9.38 | 9.78 | 8.99 | 118.5 | 121.1 | 109.8 | 1.7 | 2.87 | 27.2 | | 1 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | NE | 1.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT at top of range at top and 1m levels |
| Site 5 | 6/15/2021 | 9:48 AM | 18.19 | 18.22 | 17.97 | 26.59 | 26.61 | 26.67 | 8.06 | 8.06 | 8.04 | 8.27 | 8.59 | 8.68 | 103.3 | 106.5 | 106.7 | 1.0 | 7.57 | 24.1 | | 1 | 1 | | | | | | | 1 | 3 | 5 | 6 | 4 | N | 2.8 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 6/21/2021 | 10:34 AM | 20.02 | 20.39 | 18.94 | 26.33 | 26.44 | 26.58 | 8.15 | 8.12 | 8.07 | 8.42 | 8.56 | 8.05 | 111.4 | 111.1 | 102.1 | 1.1 | 3.93 | 25.7 | | 5 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 3.4 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 5 | 6/28/2021 | 9:49 AM | 20.36 | 19.88 | 19.79 | 26.66 | 26.82 | 26.70 | 7.70 | 7.69 | 7.69 | 6.73 | 6.64 | 6.43 | 86.5 | 83.9 | 81.7 | 1.0 | 2.58 | 28.0 | | 3 | <1 | | | | | | | 0 | 4 | 5 | 6 | 0 | SW | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 7/6/2021 | 10:46 AM | 19.78 | 19.27 | 18.86 | 27.03 | 27.09 | 27.14 | **no pH data, sensor unoperative** | | | 5.53 | 5.70 | 5.26 | 71.3 | 72.6 | 66.5 | 1.2 | 12.42 | 28.0 | | 7 | 1 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 1.7 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 7/12/2021 | 8:53 AM | 22.47 | 22.17 | 21.94 | 25.57 | 25.69 | 25.82 | 7.63 | 7.59 | 7.57 | 6.05 | 6.11 | 5.92 | 81.0 | 81.1 | 78.1 | 1.0 | 4.70 | 25.0 | | 4 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 7/19/2021 | 10:29 AM | 24.21 | 24.18 | 24.01 | 26.15 | 26.11 | 26.18 | 7.80 | 7.80 | 7.76 | 5.98 | 5.94 | 5.79 | 82.5 | 82.3 | 80.0 | 1.2 | 1.95 | 23.0 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.1 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 5 | 7/26/2021 | 9:41 AM | 23.65 | 23.45 | **too shallow** | 25.88 | 26.02 | **too shallo** | 7.77 | 7.75 | **too shallow** | 6.37 | 6.36 | **too shallow** | 87.6 | 86.9 | **too shallow** | | 1.65 | 24.0 | | 5 | 6 | | | | | | | 2 | 4 | 5 | 6 | 2 | W | 0.5 | 2 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit BTM before disappearing |
| Site 5 | 8/2/2021 | 10:41 AM | 22.52 | 22.44 | 22.42 | 26.19 | 26.24 | 26.24 | **no pH data, sensor unoperative** | | | 5.46 | 5.26 | 5.07 | 73.8 | 70.2 | 68.2 | 1.5 | 2.13 | 22.2 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 2.1 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 5 | 8/9/2021 | 8:53 AM | 22.72 | 22.72 | 22.75 | 26.40 | 26.46 | 26.48 | 7.66 | 7.66 | 7.67 | 5.84 | 5.64 | 5.44 | 77.5 | 75.7 | 73.1 | 1.4 | 5.96 | 22.0 | | 9 | 9 | | | | | | | 1 | 4 | 5 | 6 | 4 | N | 3.0 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 5 | 8/24/2021 | 8:48 AM | 23.87 | 23.87 | 23.77 | 25.96 | 26.07 | 26.17 | 7.59 | 7.59 | 7.58 | 4.97 | 4.89 | 4.69 | 67.9 | 67.4 | 64.6 | 1.3 | 8.63 | 23.8 | | 29 | 9 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 7.0 | 1 | 0.0 | es | pj | pj | clear surface, DO top of hypoxic range, all depths |
| Site 5 | 8/31/2021 | 9:47AM | 24.48 | 24.50 | 23.97 | 26.40 | 26.43 | 26.63 | pH sensor broken | | | 7.24 | 7.38 | 6.62 | 101.4 | 103.4 | 90.0 | 1.2 | 5.52 | 23.8 | | <1 | <1 | | | | | | | 1 | 2 | 5 | 6 | 3 | NW | 5.0 | 3 | 0.0 | es | pj | pj | clear surface conditions |
| Site 5 | 9/7/2021 | 8:59 AM | 22.74 | 22.74 | 22.99 | 25.29 | 25.31 | 25.47 | pH sensor broken | | | 6.03 | 5.81 | 5.63 | 80.1 | 78.0 | 76.0 | 1.8 | 8.11 | 18.8 | | 1 | 1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 7.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 5 | 9/13/2021 | 10:29 AM | 23.11 | 23.10 | 23.04 | 25.43 | 25.46 | 25.44 | pH sensor broken | | | 7.62 | 7.68 | 7.69 | 102.8 | 103.4 | 103.4 | 1.5 | 11.5 | 26.1 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 11.0 | 1 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 5 | 9/21/2021 | 9:35 AM | 22.94 | 22.84 | 22.68 | 26.04 | 26.07 | 26.29 | pH sensor broken | | | 7.30 | 7.32 | 6.87 | 97.3 | 97.3 | 90.5 | 1.4 | 2.43 | 17.7 | | 2 | <1 | | | | | | | 0 | 4 | 5 | 6 | 4 | E | 6.0 | 3 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 5 | 10/4/2021 | 10:37 AM | 21.1 | 21.10 | 21.1 | 25.91 | 25.93 | 25.93 | pH sensor broken | | | 7.55 | 7.51 | 7.51 | 98.4 | 98.0 | 98.0 | 2.5 | 3.47 | 18.8 | | | | | | | | | | >1 | 1 | 5 | 6 | 4 | ENE | 11.0 | 3 | 2.5 | es | pj | pj | clear surface conditions |
| Site 5 | 10/11/2021 | 10:04 AM | 20.01 | 20.01 | too shallov | 26.05 | 26.05 | too shallo | pH sensor broken | | | 7.10 | 7.04 | too shallov | 90.3 | 89.5 | too shallov | 0.8 | 1.4 | 17.7 | | | | | | | | | | 1 | 3 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 5 | 10/18/2021 | 9:08 AM | 19.20 | 19.22 | 18.95 | 26.25 | 26.23 | 26.20 | pH sensor broken | | | 7.38 | 7.28 | 7.19 | 93.3 | 92.1 | 90.6 | 2.05 | 9.05 | 11.1 | | <1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | W | 11 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 5 | 10/25/2021 | 9:36 AM | 17.30 | 17.30 | 17.29 | 25.96 | 25.95 | 25.94 | pH sensor broken | | | 7.99 | 8.01 | 8.00 | 97.1 | 97.2 | 97.2 | 2.1 | 2.80 | 18.8 | | <1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | S | 9.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 - Site 6, Seawanhaka Yacht Club PSTP Outfall**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Floor Depth (meters) | Air Temp (°C) | H2O Temp BTM monthly AVG | Fecal Coliform Bacteria | Enterococci | Ammonia (NH3) | 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 DIRECTION | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 6 | 4/19/2021 | 10:05 AM | 11.62 | 10.83 | 10.33 | 26.24 | 26.26 | 26.44 | 8.19 | 8.20 | 8.21 | 10.53 | 10.60 | 10.79 | 114.6 | 114.3 | 114.3 | 1.9 | 5.18 | 15.3 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 1 | N | 1.7 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 4/26/2021 | 9:37 AM | 9.99 | 9.99 | 9.46 | 25.72 | 25.74 | 25.79 | 8.13 | 8.13 | 8.16 | 9.48 | 9.46 | 9.60 | 98.9 | 98.6 | 99.2 | 2.3 | 7.61 | 12.6 | | <1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | NW | 2.5 | 1 | 1.0 | nh | pj | pj | choppy |
| Site 6 | 5/3/2021 | 10:04 AM | 11.75 | 11.74 | 11.62 | 25.93 | 25.98 | 26.00 | 8.04 | 8.04 | 8.03 | 9.08 | 9.17 | 9.22 | 99.2 | 100.0 | 100.3 | 2.2 | 5.1 | 16.2 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | SE | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 5/10/2021 | 9:08 AM | 11.92 | 11.66 | 11.36 | 26.03 | 26.1 | 26.22 | 7.94 | 7.95 | 7.95 | 8.60 | 8.74 | 8.80 | 94.5 | 95.4 | 95.6 | 2.1 | 6.44 | 13.0 | | <1 | 9 | | | | | | | 2 | 4 | 5 | 6 | 4 | N | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 5/17/2021 | 9:30 AM | 14.84 | 14.78 | 14.39 | 26.33 | 26.36 | 26.41 | 7.91 | 7.91 | 7.90 | 8.55 | 8.63 | 8.66 | 98.6 | 99.4 | 98.8 | 2.5 | 4.87 | 22.6 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | W | 1.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions, 2 osprey with fish |
| Site 6 | 5/24/2021 | 8:59 AM | 17.27 | 17.27 | 17.24 | 26.25 | 26.25 | 26.23 | 8.01 | 8.00 | 8.00 | 8.81 | 8.85 | 8.91 | 106.7 | 107.0 | 107.6 | 1.5 | 6.88 | 17.4 | | <1 | 7 | | | | | | | 0 | 4 | 5 | 6 | 4 | SE | 3.9 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 6 | 6/1/2021 | 9:58 AM | 14.9 | 14.88 | 14.6 | 25.87 | 25.92 | 26.01 | 7.84 | 7.84 | 7.83 | 8.27 | 8.29 | 8.28 | 95.1 | 95.1 | 94.5 | 1.8 | 5.17 | 24.2 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 3 | SW | 1.1 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 6/7/2021 | 10:18 AM | 19.11 | 18.58 | 17.48 | 26.21 | 26.31 | 26.31 | 8.04 | 8.05 | 7.88 | 9.14 | 9.53 | 9.19 | 115.9 | 119.1 | 111.9 | 1.9 | 6.35 | 32.2 | | <1 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 0.9 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT at top of range at top and 1m levels |
| Site 6 | 6/15/2021 | 9:39 AM | 18.63 | 18.18 | 17.84 | 26.62 | 26.58 | 26.71 | 8.05 | 8.06 | 8.01 | 8.35 | 8.69 | 8.79 | 105.0 | 107.9 | 108.3 | 1.1 | 5.06 | 24.6 | | 1 | <1 | | | | | | | 1 | 3 | 5 | 6 | 3 | W | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 6/21/2021 | 10:25 AM | 21.43 | 21.43 | 20.83 | 26.30 | 26.30 | 26.46 | 8.18 | 8.19 | 8.07 | 8.20 | 8.69 | 8.70 | 110.9 | 115.9 | 112.3 | 1.3 | 6.90 | 23.8 | | 5 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 4.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 6 | 6/28/2021 | 9:35 AM | 20.78 | 20.70 | 20.56 | 26.62 | 26.58 | 26.59 | 7.72 | 7.72 | 7.72 | 6.62 | 6.61 | 6.61 | 85.7 | 85.5 | 85.3 | 1.1 | 4.35 | 27.7 | | 2 | <1 | | | | | | | 0 | 3 | 5 | 6 | 0 | SW | 1.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 7/6/2021 | 10:33 AM | 20.69 | 20.54 | 19.16 | 26.76 | 26.77 | 27.07 | **no pH data, sensor unoperative** | | | 6.70 | 6.85 | 6.09 | 87.8 | 89.3 | 76.9 | 1.4 | 7.12 | 28.0 | | 1 | <1 | | | | | | | 0 | 1 | 5 | 6 | 1 | SW | 2.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 7/12/2021 | 8:45 AM | 22.67 | 22.64 | 21.82 | 25.40 | 25.42 | 25.83 | 7.64 | 7.63 | 7.53 | 6.47 | 6.45 | 5.99 | 86.7 | 86.0 | 78.8 | 1.1 | 4.94 | 25.0 | | 1 | 3 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 7/19/2021 | 10:20 AM | 24.45 | 24.38 | 24.17 | 26.05 | 26.06 | 26.11 | 7.91 | 7.89 | 7.79 | 6.68 | 6.98 | 6.77 | 93.0 | 97.3 | 92.9 | 1.0 | 6.21 | 23.0 | | 4 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 7/26/2021 | 8:32 AM | 23.90 | 23.82 | 23.72 | 25.83 | 25.88 | 25.93 | 7.78 | 7.77 | 7.76 | 6.36 | 6.36 | 6.27 | 87.8 | 87.6 | 86.1 | 1.6 | 4.50 | 23.0 | | 5 | 6 | | | | | | | 2 | 3 | 5 | 6 | 3 | W | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 8/2/2021 | 10:32 AM | 23.17 | 23.13 | 22.59 | 25.99 | 26.00 | 26.19 | **no pH data, sensor unoperative** | | | 5.85 | 6.01 | 5.53 | 80.2 | 82.1 | 74.5 | 1.8 | 6.19 | 22.2 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 2.6 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 6 | 8/9/2021 | 8:43 AM | 22.91 | 22.90 | 22.77 | 26.26 | 26.36 | 26.49 | 7.68 | 7.68 | 7.67 | 6.12 | 5.89 | 5.67 | 82.4 | 79.3 | 76.2 | 1.6 | 5.16 | 22.0 | | 4 | 3 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 1.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 6 | 8/24/2021 | 8:40 AM | 24.09 | 24.03 | 23.77 | 25.79 | 25.89 | 26.18 | 7.59 | 7.57 | 7.54 | 5.21 | 5.02 | 4.61 | 71.5 | 69.3 | 63.2 | 1.6 | 5.05 | 23.8 | | 7 | <1 | | | | | | | 1 | 4 | 4 | 6 | 0 | W | 7.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 6 | 8/31/2021 | 9:38AM | 24.56 | 24.54 | 23.69 | 26.34 | 26.38 | 26.78 | pH sensor broken | | | 6.02 | 6.82 | 6.29 | 85.8 | 96.4 | 85.1 | 1.0 | 6.20 | 23.8 | | <1 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 5.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 6 | 9/7/2021 | 8:46 AM | 23.13 | 23.13 | 23.15 | 25.50 | 25.49 | 25.54 | pH sensor broken | | | 6.26 | 6.19 | 6.06 | 84.6 | 83.9 | 82.2 | 1.3 | 6.09 | 17.7 | | 2 | 1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 7.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 6 | 9/13/2021 | 10:16 AM | 23.2 | 23.18 | 22.98 | 25.49 | 25.47 | 25.53 | pH sensor broken | | | 7.40 | 7.73 | 7.73 | 100.0 | 104.4 | 102.1 | 1.5 | 5.08 | 26.1 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 2 | NW | 11.0 | 1 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 6 | 9/21/2021 | 9:25 AM | 22.92 | 22.93 | 22.93 | 26.05 | 26.03 | 26.04 | pH sensor broken | | | 7.17 | 7.08 | 7.01 | 95.0 | 94.0 | 93.1 | 1.6 | 6.43 | 17.7 | | 2 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 6.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 6 | 10/4/2021 | 10:27 AM | 21.06 | 21.07 | 21.01 | 25.92 | 25.93 | 25.89 | pH sensor broken | | | 7.48 | 7.47 | 7.46 | 97.5 | 97.5 | 97.0 | 2.1 | 7.51 | 18.8 | | | | | | | | | | 1 | 1 | 5 | 6 | 4 | ENE | 11.0 | 4 | 1.5 | es | pj | pj | clear surface conditions |
| Site 6 | 10/11/2021 | 9:56 AM | 19.96 | 19.96 | 20.02 | 25.92 | 25.95 | 26.12 | pH sensor broken | | | 6.84 | 6.73 | 6.59 | 86.5 | 85.3 | 83.6 | 2.0 | 5.27 | 17.7 | | | | | | | | | | 1 | 3 | 5 | 6 | 4 | NE | 17.0 | 3 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 6 | 10/18/2021 | 8:59 AM | 19.43 | 19.44 | 19.39 | 21.16 | 26.15 | 26.15 | pH sensor broken | | | 7.91 | 7.65 | 7.49 | 100.0 | 97.0 | 95.1 | 1.7 | 7.14 | 11.1 | | 2 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | W | 11.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 6 | 10/25/2021 | 9:27 AM | 17.39 | 17.39 | 17.39 | 26.01 | 25.99 | 26.02 | pH sensor broken | | | 7.82 | 7.82 | 7.82 | 95.2 | 95.2 | 95.2 | 2.5 | 4.25 | 18.8 | | 5 | 1 | | | | | | | 1 | 4 | 5 | 6 | 4 | S | 9.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| Site 6 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 Water Quality Data - Site 7, Oyster Bay Cove**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTION | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 7 | 4/19/21 | 9:53 AM | 11.07 | 10.93 | 10.50 | 26.29 | 26.30 | 26.30 | 8.18 | 8.18 | 8.17 | 9.85 | 10.04 | 10.21 | 105.9 | 107.7 | 108.4 | 1.8 | 2.01 | 19.9 | | <1 | <1 | | | | | | | 0 | 3 | 5 | 6 | 0 | NW | 1 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 4/26/21 | 11:31 AM | 10.52 | 10.51 | 10.52 | 25.32 | 25.30 | 25.42 | 8.10 | 8.09 | 8.10 | 9.22 | 9.18 | 9.15 | 97.0 | 96.6 | 96.5 | 1.4 | 3.76 | 11.5 | | 1 | 1 | | | | | | | 1 | 1 | 5 | 6 | 0 | NW | 4 | 1 | 1.5 | nh | pj | pj | choppy |
| Site 7 | 5/3/21 | 9:52 AM | 12.51 | 12.38 | 11.99 | 25.73 | 25.82 | 25.85 | 7.93 | 7.92 | 7.98 | 8.59 | 8.56 | 8.55 | 95.2 | 94.3 | 93.7 | 2.1 | 2.33 | 15.8 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.3 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 5/10/21 | 8:54 AM | 12.28 | 12.28 | 12.25 | 25.96 | 25.98 | 25.96 | 7.94 | 7.94 | 7.93 | 9.00 | 8.95 | 8.88 | 99.5 | 98.9 | 98.0 | 2.1 | 3.09 | 12.6 | | 2 | 5 | | | | | | | 2 | 4 | 5 | 6 | 4 | NW | 1.9 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 7 | 5/17/21 | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | 5/24/21 | 8:47 AM | 18.50 | 18.36 | 18.01 | 25.91 | 26.23 | 26.20 | 7.85 | 7.89 | 7.91 | 8.15 | 8.06 | 8.23 | 100.7 | 99.0 | 101.0 | 1.3 | 3.89 | 18.5 | | 18 | 6 | | | | | | | 0 | 4 | 5 | 6 | 4 | E | 3.4 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 7 | 6/1/21 | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | 6/7/21 | 10:02 AM | 19.01 | 18.64 | 18.23 | 26.06 | 26.09 | 26.05 | 7.96 | 7.98 | 7.94 | 8.69 | 8.98 | 9.18 | 109.9 | 111.9 | 113.6 | 1.3 | 3.46 | 31.7 | | 10 | 1 | | | | | | | 0 | 4 | 5 | 6 | 1 | SE | 1.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions, %SAT all depths top of range |
| Site 7 | 6/15/21 | 9:25 AM | 18.17 | 18.14 | **too shallov** | 26.36 | 26.42 | **too shallov** | 7.84 | 7.85 | **too shallov** | 7.27 | 7.25 | **too sha** | 90.0 | 89.7 | **too sha** | 1.1 | 1.78 | 24.7 | | 54 | 11 | | | | | | | 1 | 2 | 5 | 6 | 4 | N | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 6/21/21 | 10:12 AM | 21.62 | 21.49 | 21.19 | 26.30 | 26.21 | 26.27 | 8.06 | 8.07 | 8.03 | 7.71 | 7.78 | 7.81 | 102.5 | 103.8 | 103.0 | 1.0 | 3.79 | 24.2 | | 11 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 3.7 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 7 | 6/28/21 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | 7/6/21 | 10:14 AM | 21.66 | 21.50 | 20.63 | 26.54 | 26.51 | 26.58 | **no pH data, sensor unoperative** | | | 6.64 | 7.05 | 7.07 | 88.6 | 93.6 | 91.0 | 1.4 | 3.25 | 28.0 | | <1 | <1 | | | | | | | 0 | 1 | 5 | 6 | 1 | SW | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 7/12/21 | 10:02 AM | 23.71 | 23.58 | 23.13 | 25.16 | 25.17 | 25.30 | 7.79 | 7.79 | 7.72 | 7.12 | 7.42 | 7.42 | 97.3 | 101.1 | 99.9 | 1.2 | 2.13 | 25.0 | | 3 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 7/19/21 | 10:10 AM | 24.82 | 24.76 | 24.51 | 24.99 | 25.78 | 25.97 | 7.69 | 7.76 | 7.64 | 5.79 | 5.99 | 5.90 | 81.0 | 84.0 | 80.9 | 0.9 | 3.13 | 23.0 | | 5 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 7/26/21 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | 8/2/21 | 10:17 AM | 23.28 | 23.28 | 23.27 | 25.72 | 25.73 | 25.75 | **no pH data, sensor unoperative** | | | 5.55 | 5.23 | 5.07 | 74.9 | 71.1 | 69.1 | 1.3 | 2.42 | 22.2 | | 5 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 3.9 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 7 | 8/9/21 | 10:14 AM | 23.08 | 23.03 | 23.01 | 26.13 | 26.16 | 26.16 | 7.72 | 7.73 | 7.71 | 5.94 | 5.96 | 5.99 | 80.1 | 80.6 | 80.8 | 1.6 | 3.20 | 22.0 | | 5 | 7 | | | | | | | 1 | 4 | 5 | 6 | 3 | NE | 3.2 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 7 | 8/24/21 | 9:59 AM | 24.37 | 24.37 | 24.39 | 25.65 | 25.62 | 25.62 | 7.58 | 7.58 | 7.59 | 5.76 | 5.54 | 5.41 | 79.5 | 76.6 | 75.2 | 1.4 | 2.22 | 25.5 | | 25 | 3 | | | | | | | 1 | 4 | 4 | 6 | 0 | w | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 7 | 8/31/21 | 9:23AM | 24.55 | 24.54 | 24.25 | 26.18 | 26.22 | 26.44 | | pH sensor broken | | 6.07 | 6.09 | 5.52 | 85.1 | 84.9 | 76.3 | 1.1 | 2.99 | 23.8 | | 7 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 5.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 7 | 9/7/21 | 8:34 AM | 22.79 | 22.79 | 22.88 | 25.05 | 25.05 | 25.17 | | pH sensor broken | | 6.46 | 6.06 | 5.94 | 86.6 | 81.3 | 79.9 | 0.8 | 2.15 | 17.7 | | 18 | 5 | | | | | | | 0 | 4 | 4 | 6 | 0 | NNW | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 7 | 9/13/21 | 10:04 AM | 23.33 | 23.27 | 23.25 | 24.46 | 24.58 | 24.69 | | pH sensor broken | | 7.86 | 7.97 | 8.25 | 106.2 | 107.2 | 111.1 | 0.9 | 1.76 | 26.1 | | 20 | 4 | | | | | | | 0 | 2 | 4 | 6 | 2 | NW | 10.0 | 3 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 7 | 9/21/21 | 9:11 AM | 22.15 | 22.14 | 22.07 | 25.66 | 25.64 | 25.62 | | pH sensor broken | | 7.81 | 7.81 | 7.79 | 102.1 | 102.2 | 101.8 | 1.2 | 2.69 | 17.7 | | 5 | <1 | | | | | | | 0 | 4 | 5 | 6 | 4 | E | 6.0 | 3 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 7 | 10/4/21 | 10:16 AM | 20.80 | 20.80 | 20.81 | 25.69 | 25.68 | 25.71 | | pH sensor broken | | 7.21 | 7.11 | 7.04 | 93.1 | 92.1 | 91.1 | 1.7 | 3.81 | 18.8 | | | | | | | | | | >1 | 4 | 5 | 6 | 4 | ENE | 10 | 3 | 1.5 | es | pj | pj | clear surface conditions |
| Site 7 | 10/11/21 | 9:36 AM | 19.52 | 19.69 | 19.78 | 25.43 | 25.67 | 25.71 | | pH sensor broken | | 5.76 | 5.74 | 5.80 | 72.5 | 72.5 | 73.5 | 1.4 | 2.13 | 17.2 | | | | | | | | | | 1 | 3 | 5 | 6 | 4 | NE | 16.0 | 3 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 7 | 10/18/21 | 8:47 AM | 17.79 | 17.78 | 17.74 | 25.69 | 25.73 | 25.79 | | pH sensor broken | | 8.24 | 8.03 | 7.89 | 101.9 | 98.4 | 96.9 | 1.3 | 3.08 | 11.1 | | 7 | 3 | | | | | | | 1 | 4 | 5 | 6 | 0 | W | 10.0 | 1 | 0.5 | es | pj | pj | clear surface conditions |
| Site 7 | 10/25/21 | 9:13 AM | 16.95 | 16.99 | 17.08 | 25.47 | 25.60 | 25.78 | | pH sensor broken | | 7.96 | 7.88 | 7.82 | 95.6 | 94.9 | 94.6 | bottom | 2.01 | 18.8 | | 6 | 1 | | | | | | | 1 | 4 | 5 | 6 | 4 | S | 9.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 7 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 8, Oyster Bay STP at White's Creek**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTION | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 8 | 4/19/2021 | 9:36 AM | 10.49 | 10.10 | 10.00 | 26.48 | 25.35 | 26.49 | 8.16 | 8.16 | 8.18 | 10.20 | 10.30 | 10.30 | 108.2 | 108.3 | 108.2 | 2.1 | 2.15 | 15.8 | | 2 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 1.7 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 4/26/2021 | **high winds, anchor wouldn't set** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 8 | 5/3/2021 | 9:42 AM | 12.01 | 12.00 | 11.90 | 25.77 | 25.82 | 25.90 | 7.97 | 7.97 | 7.97 | 8.71 | 8.71 | 8.70 | 95.4 | 95.4 | 95.1 | 2 | 2.18 | 16.1 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 0.9 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 8 | 5/10/2021 | 8:41 AM | 12.18 | 12.23 | 12.18 | 25.66 | 25.80 | 25.93 | 7.90 | 7.91 | 7.92 | 8.81 | 8.77 | 8.77 | 97.0 | 96.9 | 96.8 | 2.2 | 3.14 | 11.8 | | 16 | 15 | | | | | | | 2 | 4 | 5 | 6 | 4 | N | 4.0 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 8 | 5/17/2021 | 9:16 AM | 15.02 | 14.92 | 14.76 | 26.15 | 26.14 | 26.32 | 7.83 | 7.83 | 7.85 | 8.21 | 8.25 | 8.21 | 94.9 | 95.0 | 94.3 | | 1.94 | 20.9 | | 5 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | E | 0.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit bottom before disappearing |
| Site 8 | 5/24/2021 | 8:35 AM | 18.30 | 18.29 | 18.06 | 25.88 | 26.00 | 26.18 | 7.89 | 7.89 | 7.88 | 8.30 | 8.28 | 8.28 | 102.0 | 101.8 | 101.5 | 1.2 | 3.76 | 18.6 | | 9 | 8 | | | | | | | 0 | 4 | 5 | 6 | 4 | SE | 2.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 6/1/2021 | 9:42 AM | 15.19 | 15.02 | 14.76 | 25.73 | 25.73 | 25.81 | 7.83 | 7.79 | 7.76 | 8.27 | 8.31 | 8.09 | 95.6 | 94.4 | 92.7 | 1.8 | 2.0 | 23.1 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 3 | E | 0.4 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 6/7/2021 | 9:50 AM | 18.52 | 18.47 | 17.94 | 26.15 | 26.18 | 26.15 | 7.94 | 7.95 | 7.86 | 8.78 | 8.96 | 8.88 | 109.5 | 111.5 | 109.0 | 1.3 | 4.02 | 30.5 | | 5 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 2.0 | 1 | 0.0 | nh | pj | pj | clear surface condition, % SAT top of range at all depths |
| Site 8 | 6/15/2021 | 9:11 AM | 18.46 | 18.25 | 18.21 | 26.44 | 26.49 | 26.46 | 8.04 | 8.06 | 8.04 | 8.39 | 8.69 | 8.83 | 104.4 | 108.0 | 109.6 | 1.0 | 2.12 | 23.8 | | 13 | 3 | | | | | | | 1 | 2 | 5 | 6 | 4 | N | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 6/21/2021 | 9:52 AM | 21.47 | 21.28 | 20.83 | 26.16 | 26.28 | 26.32 | 8.07 | 8.06 | 8.07 | 7.66 | 7.88 | 7.86 | 102.7 | 104.4 | 103.2 | 1.0 | 3.89 | 24.3 | | 8 | 7 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 4.3 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 8 | 6/28/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 8 | 7/6/2021 | 10:01 AM | 20.71 | 20.68 | 19.62 | 26.56 | 26.62 | 26.83 | **no pH data, sensor unoperative** | | | 5.79 | 5.77 | 5.51 | 75.5 | 75.2 | 70.3 | 1.3 | 4.13 | 27.0 | | 13 | 2 | | | | | | | 0 | 1 | 5 | 6 | 1 | SW | 3.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 7/12/2021 | 8:28 AM | 22.66 | 22.57 | **too shallo** | 25.10 | 25.38 | **too shallo** | 7.63 | 7.59 | **too shallo** | 6.82 | 6.56 | **too shallo** | 91.4 | 87.6 | **too shallo** | 0.9 | 1.74 | 23.3 | | 44 | 13 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 7/19/2021 | 9:54 AM | 24.64 | 24.57 | 24.40 | 25.74 | 25.78 | 26.08 | 7.68 | 7.67 | 7.62 | 5.59 | 5.62 | 5.28 | 78.1 | 78.1 | 73.1 | 1.2 | 3.41 | 23.0 | | 14 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 7/26/2021 | 8:17 AM | 23.91 | 23.75 | **too shallo** | 25.75 | 25.92 | **too shallo** | 7.73 | 7.68 | **too shallo** | 6.30 | 6.20 | **too shallo** | 86.7 | 85.1 | **too shallow** | | 1.70 | 23.0 | | 9 | 9 | | | | | | | 2 | 3 | 5 | 6 | 3 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit BTM before disappearing |
| Site 8 | 8/2/2021 | 10:05 AM | 23.20 | 23.19 | 23.10 | 25.70 | 25.71 | 25.76 | **no pH data, sensor unoperative** | | | 5.73 | 5.53 | 5.33 | 77.2 | 75.0 | 72.2 | 1.5 | 3.13 | 21.1 | | 7 | 4 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 4.4 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 8 | 8/9/2021 | 10:33 AM | 23.06 | 23.09 | 22.98 | 26.07 | 26.09 | 26.23 | 7.74 | 7.75 | 7.70 | 6.35 | 6.34 | 6.13 | 85.6 | 85.7 | 82.5 | 1.4 | 3.32 | 22.0 | | 12 | 8 | | | | | | | 1 | 4 | 5 | 6 | 3 | NE | 2.8 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 8 | 8/24/2021 | 8:25 AM | 24.09 | 24.06 | 23.98 | 25.62 | 25.61 | 25.68 | 7.63 | 7.61 | 7.58 | 5.98 | 5.81 | 5.44 | 82.5 | 79.4 | 74.8 | 1.7 | 2.04 | 23.8 | | 17 | 4 | | | | | | | 1 | 4 | 4 | 6 | 1 | w | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 8 | 8/31/2021 | 9:11AM | 24.57 | 24.55 | 24.32 | 26.24 | 26.29 | 26.41 | pH sensor broken | | | 6.08 | 6.11 | 4.95 | 84.9 | 85.4 | 68.2 | 1.2 | 3.30 | 22.7 | | 6 | 1 | | | | | | | 1 | 2 | 5 | 6 | 4 | nw | 5.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 8 | 9/7/2021 | 8:17 AM | 22.96 | 22.96 | 22.96 | 25.38 | 25.39 | 28.38 | pH sensor broken | | | 6.61 | 6.36 | 6.11 | 89.1 | 85.6 | 82.5 | 1.1 | 2.49 | 17.7 | | 12 | 3 | | | | | | | 0 | 4 | 4 | 6 | 0 | w | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 8 | 9/13/2021 | 9:47 AM | 23.13 | 23.11 | 23.07 | 25.24 | 25.28 | 25.33 | pH sensor broken | | | 7.83 | 7.82 | 7.75 | 105.4 | 105.2 | 104.0 | 1.4 | 2.02 | 26.1 | | 1 | <1 | | | | | | | 0 | 2 | 4 | 6 | 3 | w | 10.0 | 2 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 8 | 9/21/2021 | 8:58 AM | 22.60 | 22.63 | 22.63 | 25.78 | 25.77 | 25.81 | pH sensor broken | | | 7.67 | 7.55 | 7.46 | 101.2 | 99.6 | 98.5 | 1.3 | 2.63 | 17.7 | | 4 | <1 | | | | | | | 0 | 4 | 5 | 6 | 4 | E | 6.0 | 3 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 8 | 10/4/2021 | 10:04 AM | 20.75 | 20.75 | 20.75 | 25.63 | 25.62 | 25.65 | pH sensor broken | | | 7.27 | 7.19 | 7.05 | 94.1 | 92.8 | 91.2 | 1.7 | 4.25 | 18.8 | | | | | | | | | | <1 | 4 | 5 | 6 | 4 | ENE | 7.0 | 3 | 1.5 | es | pj | pj | clear surface conditions |
| Site 8 | 10/11/2021 | 9:24 AM | 19.51 | 19.53 | 19.54 | 25.53 | 25.60 | 25.57 | pH sensor broken | | | 7.13 | 6.93 | 6.78 | 89.0 | 86.7 | 85.3 | 1.8 | 2.06 | 17.2 | | | | | | | | | | 1 | 3 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.5 | fb | pj | pj | clear surface conditions |
| Site 8 | 10/18/2021 | 8:35 AM | 18.83 | 18.79 | 18.87 | 25.87 | 25.85 | 25.89 | pH sensor broken | | | 7.92 | 7.73 | 7.59 | 99.2 | 96.5 | 95.3 | 2.2 | 3.62 | 11.2 | | 9 | 2 | | | | | | | 1 | 4 | 5 | 6 | 0 | W | 9.0 | 1 | 0.5 | es | pj | pj | clear surface conditions |
| Site 8 | 10/25/2021 | 9:01 AM | 17.25 | 17.25 | 17.27 | 25.77 | 25.83 | 25.87 | pH sensor broken | | | 7.96 | 7.86 | 7.85 | 96.4 | 95.3 | 95.2 | 2.1 | 2.32 | 18.8 | | 5 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 9.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 Water Quality Data - Site 9, Roosevelt Beach**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTON | Wind SPEED m/s | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 9 | 4/19/2021 | 9:20 AM | 10.09 | 10.10 | 10.10 | 26.42 | 26.34 | 26.35 | 8.17 | 8.17 | 8.17 | 10.1 | 10.2 | 10.28 | 106.6 | 107.5 | 108.3 | 1.9 | 2.14 | 19.9 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 4/26/2021 | 9:15 AM | 10.58 | 10.60 | 10.49 | 25.54 | 25.54 | 25.52 | 8.09 | 8.08 | 8.08 | 9.11 | 9.03 | 9.01 | 96.1 | 95.3 | 95.0 | 2.4 | 3.56 | 7.4 | | <1 | <1 | | | | | | | 1 | 4 | 5 | 6 | 1 | NW | 6.3 | 1 | 1.0 | nh | pj | pj | choppy |
| Site 9 | 5/3/2021 | 9:31 AM | 11.93 | 11.89 | 11.87 | 25.90 | 25.85 | 25.85 | 7.98 | 7.98 | 7.98 | 8.69 | 8.67 | 8.65 | 95.1 | 94.9 | 94.6 | 2.1 | 2.37 | 14.9 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 2.7 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 9 | 5/10/2021 | 8:24 AM | 12.27 | 12.28 | 12.27 | 25.95 | 25.92 | 25.92 | 7.92 | 7.92 | 7.92 | 8.81 | 8.76 | 8.73 | 97.3 | 96.8 | 96.5 | 2.6 | 2.79 | 11.2 | | <1 | 1 | | | | | | | 2 | 4 | 5 | 6 | 4 | NW | 3.0 | 3 | 1.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 5/17/2021 | 9:03 AM | 14.95 | 14.88 | **too shallo** | 26.27 | 26.25 | **too shallo** | 7.86 | 7.86 | **too shallo** | 8.4 | 8.41 | **too shallo** | 96.8 | 96.9 | **too shallow** | | 1.83 | 21.9 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit bottom before disappearing |
| Site 9 | 5/24/2021 | 8:23 AM | 18.15 | 18.11 | 18.01 | 26.08 | 26.16 | 26.16 | 7.91 | 7.91 | 7.92 | 8.39 | 8.46 | 8.56 | 103.1 | 103.8 | 105.0 | 1.4 | 3.54 | 17.8 | | 7 | 2 | | | | | | | 0 | 4 | 5 | 6 | 4 | E | 2.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 6/1/2021 | 9:31 AM | 14.81 | 14.79 | 14.79 | 25.89 | 25.92 | 25.9 | 7.78 | 7.78 | 7.78 | 7.71 | 7.67 | 7.62 | 88.4 | 87.9 | 87.3 | 1.8 | 2.12 | 21.8 | | 3 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 6/7/2021 | 9:29 AM | 18.53 | 18.22 | 17.91 | 26.15 | 26.17 | 26.07 | 7.92 | 7.92 | 7.88 | 8.63 | 8.79 | 8.79 | 107.5 | 108.6 | 107.9 | 1.4 | 3.58 | 31.6 | | 6 | 2 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 1.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT near top of range at all depths |
| Site 9 | 6/15/2021 | 8:56 AM | 19.02 | 18.73 | 18.70 | 26.42 | 26.49 | 26.48 | 8.09 | 8.06 | 8.05 | 8.53 | 8.90 | 8.90 | 108.0 | 111.1 | 111.3 | 1.0 | 1.88 | 23.8 | | 2 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 1.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions, % SAT near top of range at all depths |
| Site 9 | 6/21/2021 | 9:39 AM | 21.76 | 21.72 | 20.81 | 26.15 | 26.16 | 26.31 | 8.05 | 8.05 | 8.06 | 7.70 | 7.77 | 7.78 | 103.0 | 103.7 | 102.1 | 1.0 | 3.91 | 24.5 | | 13 | 3 | | | | | | | 0 | 2 | 5 | 6 | 4 | S | 2.7 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 9 | 6/28/2021 | 9:11 AM | 21.80 | 21.77 | **too shallo** | 26.50 | 26.46 | **too shallo** | 7.70 | 7.70 | **too shallo** | 6.56 | 6.56 | **too shallo** | 86.5 | 86.4 | **too shallo** | 1.1 | 1.43 | 28.0 | | 1 | 1 | | | | | | | 0 | 3 | 5 | 6 | 1 | SW | 1.7 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 7/6/2021 | 9:48 AM | 21.20 | 20.72 | 19.55 | 26.39 | 26.54 | 26.86 | **no pH data, sensor unoperative** | | | 6.15 | 6.45 | 5.84 | 81.5 | 84.3 | 74.2 | 1.4 | 4.63 | 27.0 | | 4 | 2 | | | | | | | 0 | 1 | 5 | 6 | 1 | SW | 2.6 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 7/12/2021 | 8:16 AM | 23.61 | 23.01 | **too shallo** | 24.56 | 24.90 | **too shallo** | 7.77 | 7.61 | **too shallo** | 7.34 | 7.39 | **too shallo** | 99.9 | 95.7 | **too shallo** | 1.1 | 1.57 | 23.9 | | 6 | <1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 7/19/2021 | 9:45 AM | 24.89 | 24.71 | 24.51 | 25.80 | 25.81 | 25.86 | 7.70 | 7.66 | 7.57 | 5.80 | 5.81 | 4.97 | 81.1 | 80.9 | 68.8 | 1.2 | 3.38 | 23.0 | | 16 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 7/26/2021 | 8:04 AM | 23.73 | **too shallo** | 23.71 | 25.79 | **too shallo** | 25.87 | 7.67 | **too shallo** | 7.66 | 6.06 | **too shallo** | 5.69 | 82.6 | **too shallo** | 77.9 | | 1.41 | 22.0 | | 32 | 43 | | | | | | | 2 | 3 | 5 | 6 | 3 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit BTM before disappearing |
| Site 9 | 8/2/2021 | 9:53 AM | 23.48 | 23.39 | 23.29 | 25.68 | 25.79 | 25.73 | **no pH data, sensor unoperative** | | | 5.90 | 5.63 | 5.39 | 80.2 | 76.6 | 73.1 | 1.7 | 3.08 | 21.1 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 3.7 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 9 | 8/9/2021 | 8:24 AM | 22.96 | 23.05 | 23.05 | 25.98 | 25.98 | 26.03 | 7.65 | 7.64 | 7.64 | 6.22 | 5.72 | 5.56 | 83.4 | 77.0 | 74.9 | 1.6 | 1.96 | 22.0 | | 52 | 61 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 2.3 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 9 | 8/24/2021 | 8:14 AM | 24.10 | 24.09 | **too shallo** | 25.34 | 25.50 | **too shallo** | 7.57 | 7.54 | **too shallo** | 5.75 | 5.23 | **too shallo** | 78.5 | 71.5 | **too shallo** | bottom | 1.65 | 22.7 | | 31 | 10 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 9 | 8/31/2021 | 9:02AM | 25.19 | 25.20 | 24.84 | 25.86 | 25.90 | 26.08 | pH sensor broken | | | 7.05 | 7.26 | 7.22 | 99.6 | 102.9 | 100.6 | 1.1 | 3.20 | 22.7 | | 1 | 1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 5.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 9 | 9/7/2021 | 7:54 AM | 23.10 | 23.10 | 23.11 | 25.32 | 25.31 | 25.33 | pH sensor broken | | | 6.09 | 5.89 | 5.74 | 81.9 | 79.3 | 77.7 | 1.7 | 1.98 | 16.1 | | 3 | 1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 3.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 9 | 9/13/2021 | 9:32 AM | 23.09 | 23.09 | 23.1 | 25.16 | 25.14 | 25.17 | pH sensor broken | | | 7.74 | 7.75 | 7.74 | 104 | 104 | 104.0 | 1.6 | 2.06 | 26.1 | | 3 | 4 | | | | | | | 0 | 2 | 5 | 6 | 2 | W | 10.0 | 2 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 9 | 9/21/2021 | 8:45 AM | 22.90 | 22.90 | 22.86 | 25.75 | 25.74 | 25.74 | pH sensor broken | | | 7.37 | 7.24 | 7.12 | 97.2 | 95.8 | 94.3 | 1.7 | 2.24 | 16.1 | | <1 | 1 | | | | | | | 0 | 4 | 5 | 6 | 3 | N | 7.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 9 | 10/4/2021 | 9:54 AM | 20.75 | 20.75 | 20.8 | 25.70 | 25.69 | 25.74 | pH sensor broken | | | 7.42 | 7.35 | 7.28 | 96.00 | 95.10 | 94.5 | 1.8 | 4.34 | 18.8 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | ENE | 8.0 | 3 | 1.5 | es | pj | pj | clear surface conditions |
| Site 9 | 10/11/2021 | 9:11 AM | 19.22 | 19.22 | 19.22 | 25.30 | 25.34 | 25.30 | pH sensor broken | | | 6.80 | 6.78 | 6.77 | 85.00 | 84.60 | 84.5 | 1.9 | 1.89 | 17.2 | | | | | | | | | | 1 | 3 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.5 | fb | pj | pj | clear surface conditions |
| Site 9 | 10/18/2021 | 8:23 AM | 19.30 | 19.31 | 19.32 | 25.95 | 25.97 | 25.97 | pH sensor broken | | | 7.58 | 7.44 | 7.36 | 95.50 | 94.20 | 93.4 | 1.9 | 3.49 | 11.1 | | 3 | <1 | | | | | | | 1 | 4 | 5 | 6 | 0 | W | 9.0 | 1 | 1.0 | es | pj | pj | clear surface conditions |
| Site 9 | 10/25/2021 | 8:49 AM | 17.15 | 17.15 | 17.15 | 25.78 | 25.76 | 25.79 | pH sensor broken | | | 7.72 | 7.68 | 7.65 | 93.30 | 92.90 | 92.6 | bottom | 1.88 | 17.7 | | 14 | <1 | | | | | | | 1 | 3 | 5 | 6 | 4 | S | 7.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 10, Beekman Beach**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 10 | 4/19/2021 | 9:04 AM | 10.48 | 10.34 | 10.07 | 26.21 | 26.36 | 26.38 | 8.17 | 8.18 | 8.16 | 10.16 | 10.24 | 10.32 | 107.9 | 108.4 | 108.5 | 1.8 | 4.36 | 18.2 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 4/26/2021 | 8:50 AM | 10.64 | 10.63 | 10.62 | 25.35 | 25.42 | 25.37 | 8.04 | 8.05 | 8.05 | 8.82 | 8.79 | 8.75 | 93.2 | 92.7 | 92.4 | 1.7 | 4.97 | 8.9 | | 3 | 1 | | | | | | | 1 | 4 | 5 | 6 | 0 | NW | 3.0 | 1 | 1.0 | nh | pj | pj | choppy |
| Site 10 | 5/3/2021 | 9:21 AM | 12.26 | 11.97 | 11.82 | 25.64 | 25.81 | 25.86 | 7.96 | 7.97 | 7.97 | 8.59 | 8.58 | 8.57 | 94.2 | 93.9 | 93.5 | 1.7 | 4.20 | 16.9 | | 10 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 2.0 | 3 | 0.0 | nh | pj | pj | pollen on surface |
| Site 10 | 5/10/2021 | 8:07 AM | 12.21 | 12.4 | 12.38 | 25.00 | 25.3 | 25.78 | 7.90 | 7.91 | 7.89 | 8.81 | 8.71 | 8.69 | 96.5 | 96.0 | 96.2 | 0.3 | 4.74 | 10.9 | | 34 | 20 | | | | | | | 2 | 4 | 5 | 6 | 4 | NW | 3.5 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 10 | 5/17/2021 | 8:51 AM | 15.05 | 14.91 | 14.64 | 25.93 | 26.25 | 26.24 | 7.83 | 7.84 | 7.85 | 8.17 | 8.19 | 8.2 | 94.3 | 94.2 | 93.9 | 2.4 | 3.80 | 23.6 | | 21 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 5/24/2021 | 8:07 AM | 18.28 | 18.36 | 18.15 | 25.79 | 26.03 | 26.15 | 7.86 | 7.87 | 7.86 | 8.18 | 8.15 | 8.23 | 100.5 | 100.5 | 101.1 | 1.1 | 5.27 | 18.0 | | 79 | 52 | | | | | | | 0 | 4 | 5 | 6 | 4 | NE | 1.9 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 6/1/2021 | 9:18 AM | 15.07 | 14.98 | 14.72 | 25.41 | 25.67 | 25.83 | 7.77 | 7.77 | 7.77 | 7.84 | 7.83 | 7.74 | 90.1 | 89.9 | 88.5 | 1.6 | 4.20 | 21.2 | | 7 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | SW | 0.6 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 6/7/2021 | 9:18 AM | 19.09 | 18.67 | 17.80 | 25.66 | 25.90 | 26.09 | 7.92 | 7.92 | 7.81 | 8.39 | 8.72 | 8.46 | 105.6 | 108.9 | 103.2 | 1.5 | 5.87 | 30.2 | | 1 | 6 | | | | | | | 0 | 4 | 5 | 6 | 1 | S | 2.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT near top of range at all depths |
| Site 10 | 6/15/2021 | 8:43 AM | 19.76 | 18.72 | 18.37 | 26.29 | 26.42 | 26.54 | 8.19 | 8.07 | 8.00 | 8.97 | 9.37 | 9.01 | 114.5 | 117.2 | 111.6 | 0.9 | 3.86 | 23.3 | | 1 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 1.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions, % SAT near top of range at all depths |
| Site 10 | 6/21/2021 | 9:28 AM | 21.70 | 21.45 | 21.06 | 25.32 | 26.17 | 26.31 | 8.03 | 8.03 | 8.04 | 7.61 | 7.63 | 7.60 | 101.2 | 101.3 | 100.0 | 1.0 | 6.49 | 24.5 | | 31 | 29 | | | | | | | 0 | 1 | 5 | 6 | 4 | S | 2.3 | 4 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 10 | 6/28/2021 | 8:46 AM | 21.79 | 21.66 | 21.14 | 26.41 | 26.50 | 26.46 | 7.73 | 7.73 | 7.71 | 7.00 | 7.00 | 6.94 | 92.5 | 92.1 | 90.0 | 0.9 | 3.55 | 27.0 | | 12 | 3 | | | | | | | 0 | 2 | 5 | 6 | 1 | S | 4.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 7/6/2021 | 9:36 AM | 21.17 | 21.04 | 20.30 | 26.39 | 26.44 | 26.69 | **no pH data, sensor** | | | 5.80 | 5.87 | 5.44 | 76.4 | 77.1 | 70.4 | 1.3 | 1.30 | 26.0 | | 3 | <1 | | | | | | | 0 | 1 | 5 | 6 | 1 | SW | 2.8 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 7/12/2021 | 8:05 AM | 23.80 | 23.71 | 23.43 | 24.16 | 24.59 | 24.61 | 7.83 | 7.82 | 7.76 | 7.71 | 7.83 | 7.84 | 104.8 | 106.4 | 105.7 | 1.0 | 3.96 | 23.9 | | 20 | 9 | | | | | | | 1 | 3 | 5 | 6 | 2 | SW | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 7/19/2021 | 9:27 AM | 24.90 | 24.76 | 24.41 | 25.58 | 25.82 | 25.98 | 7.65 | 7.64 | 7.62 | 5.23 | 5.27 | 5.05 | 73.3 | 73.5 | 70.0 | 1.1 | 5.64 | 22.0 | | 25 | 11 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 7/26/2021 | 7:52 AM | 24.52 | 24.52 | 23.98 | 25.49 | 25.52 | 25.62 | 7.74 | 7.74 | 7.71 | 6.46 | 6.45 | 6.36 | 89.9 | 89.8 | 87.6 | 1.3 | 3.83 | 22.0 | | 8 | 8 | | | | | | | 2 | 3 | 5 | 6 | 3 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 10 | 8/2/2021 | 9:39 AM | 23.50 | 23.56 | 23.20 | 25.34 | 25.50 | 25.85 | **no pH data, sensor** | | | 5.33 | 5.46 | 5.38 | 72.9 | 75.2 | 72.6 | 1.3 | 5.65 | 21.1 | | 7 | 3 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 3.9 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 10 | 8/9/2021 | 8:07 AM | 22.79 | 23.01 | 23.29 | 22.80 | 25.22 | 26.10 | 7.67 | 7.66 | 7.67 | 6.46 | 6.24 | 6.01 | 84.7 | 83.8 | 81.2 | 1.2 | 3.73 | 22.0 | | 150 | 120 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 4.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 10 | 8/24/2021 | 8:03 AM | 24.18 | 24.25 | 24.19 | 24.76 | 24.98 | 25.26 | 7.60 | 7.60 | 7.54 | 5.67 | 5.61 | 5.34 | 78.2 | 77.5 | 73.5 | 1.5 | 3.78 | 22.8 | | 33 | 6 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 5.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 10 | 8/31/2021 | 8:48AM | 25.13 | 25.08 | 24.14 | 25.87 | 25.89 | 26.45 | pH sensor broken | | | 6.08 | 6.37 | 6.26 | 85.9 | 90.0 | 84.1 | 1.1 | 5.58 | 22.3 | | 3 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 3.0 | 3 | 0.0 | KP | pj | pj | clear surface conditions |
| Site 10 | 9/7/2021 | 7:42 AM | 22.76 | 22.77 | 23.11 | 24.92 | 24.92 | 25.16 | pH sensor broken | | | 6.58 | 6.55 | 6.48 | 88.3 | 88.0 | 87.4 | 1.6 | 4.07 | 17.2 | | 11 | 1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 3.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 10 | 9/13/2021 | 4:19 AM | 23.14 | 23.11 | 22.98 | 25.03 | 25.13 | 25.28 | pH sensor broken | | | 7.53 | 7.65 | 7.61 | 101.5 | 102.7 | 101.6 | 1.4 | 4.20 | 23.8 | | 15 | 11 | | | | | | | 0 | 2 | 4 | 6 | 2 | W | 10.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 10 | 9/21/2021 | 8:23 AM | 22.60 | 22.77 | 23.04 | 25.33 | 25.44 | 25.67 | pH sensor broken | | | 7.48 | 7.53 | 7.27 | 98.7 | 99.6 | 96.4 | 1.1 | 4.23 | 16.1 | | 9 | 1 | | | | | | | 0 | 4 | 5 | 6 | 2 | N | 6.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 10 | 10/4/2021 | 9:42 AM | 20.51 | 20.51 | 20.69 | 25.28 | 25.31 | 25.63 | pH sensor broken | | | 7.28 | 7.31 | 7.22 | 93.6 | 94.2 | 93.0 | 1.6 | 6.12 | 18.8 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | ENE | 8.0 | 3 | 1.5 | es | pj | pj | clear surface conditions |
| Site 10 | 10/11/2021 | 8:59 AM | 19.12 | 19.19 | 19.26 | 24.57 | 24.92 | 25.37 | pH sensor broken | | | 6.96 | 6.79 | 6.72 | 86.1 | 84.5 | 84.1 | 1.3 | 4.17 | 17.2 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 10 | 10/18/2021 | 8:08 AM | 19.24 | 19.28 | 19.27 | 25.76 | 25.77 | 25.76 | pH sensor broken | | | 8.02 | 7.68 | 7.53 | 100.1 | 97.0 | 95.1 | 1.9 | 5.48 | 10.0 | | 6 | 4 | | | | | | | 1 | 4 | 5 | 6 | 0 | W | 9.0 | 1 | 0.5 | es | pj | pj | clear surface conditions |
| Site 10 | 10/25/2021 | 8:35 AM | 17.12 | 17.14 | 17.17 | 25.73 | 25.78 | 25.85 | pH sensor broken | | | 7.93 | 7.86 | 7.82 | 95.6 | 94.9 | 94.7 | 2.4 | 4.19 | 17.7 | | 9 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | S | 7.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

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

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia | Nitrate (NO | Nitrit (NO | Total Kjelda | Organic Nit | Total Nitroge | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTON | 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 | 0.0 | 1 | 0.0 | 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 | 6.0 | 1 | 1.0 | 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 | 3.30 | 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 | 12.80 | 12.80 | 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 | 3.00 | 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 | 7.86 | 7.84 | 8.44 | 8.47 | 8.59 | 99.6 | 99.9 | 100.2 | 2.2 | 2.60 | 16.6 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | 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 | 1.0 | 3 | 0.0 | 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 | 0.0 | 1 | 0.0 | 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 | 0.0 | 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 | 6/28/2021 | 8:12 AM | 23.46 | 23.45 | 23.34 | 26.17 | 26.22 | 26.23 | 7.75 | 7.75 | 7.74 | 6.75 | 6.90 | 6.97 | 91.9 | 93.2 | 94.4 | 0.9 | 2.15 | 26.3 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 3.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 11 | 7/6/2021 | 9:12 AM | 21.28 | 21.26 | 21.22 | 26.40 | 26.39 | 26.47 | **no pH data, senso** | | | 6.91 | 6.93 | 6.93 | 91.0 | 91.2 | 91.1 | 1.4 | 4.20 | 25.0 | | <1 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 3.4 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 11 | 7/12/2021 | 7:51 AM | 23.82 | 23.74 | 23.40 | 24.03 | 24.21 | 24.68 | 7.66 | 7.67 | 7.62 | 7.14 | 7.16 | 7.17 | 96.9 | 97.1 | 96.7 | 0.9 | 2.27 | 22.8 | | 28 | 5 | | | | | | | 1 | 3 | 5 | 6 | 2 | SW | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 11 | 7/19/2021 | 9:06 AM | 25.11 | 25.08 | 24.44 | 25.78 | 25.86 | 26.00 | 7.76 | 7.74 | 7.65 | 6.07 | 6.15 | 5.83 | 85.5 | 86.5 | 80.9 | 1.0 | 4.28 | 22.0 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 11 | 7/26/2021 | 7:25 AM | 24.72 | 24.72 | 24.67 | 25.57 | 25.55 | 25.65 | 7.69 | 7.68 | 7.67 | 6.37 | 6.32 | 6.26 | 89.9 | 88.3 | 87.2 | 1.1 | 2.28 | 22.0 | | 5 | <1 | | | | | | | 2 | 3 | 5 | 6 | 3 | W | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 11 | 8/2/2021 | 9:12 AM | 23.62 | 23.61 | 23.56 | 25.70 | 25.73 | 25.71 | **no pH data, senso** | | | 6.09 | 5.96 | 5.81 | 83.2 | 81.5 | 79.3 | 1.4 | 4.04 | 20.0 | | 1 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 3.4 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 11 | 8/9/2021 | 7:44 AM | 23.40 | 23.40 | 23.41 | 26.02 | 26.07 | 26.10 | 7.59 | 7.59 | 7.59 | 5.94 | 5.61 | 5.40 | 80.4 | 75.9 | 73.4 | 1.3 | 2.43 | 22.0 | | <1 | <1 | | | | | | | 1 | 3 | 5 | 6 | 4 | N | 3.5 | 4 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 11 | 8/24/2021 | 7:33 AM | 24.30 | 24.30 | 24.31 | 24.58 | 24.64 | 25.21 | 7.63 | 7.60 | 7.56 | 5.32 | 5.00 | 4.79 | 72.4 | 68.6 | 66.1 | 1.4 | 2.21 | 22.2 | | 42 | 17 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 5.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 11 | 8/31/2021 | 8:22AM | 25.51 | 25.50 | 24.12 | 25.64 | 25.72 | 26.51 | pH sensor broken | | | 6.58 | 7.01 | 6.24 | 93.5 | 99.6 | 84.8 | 1.0 | 4.08 | 22.7 | | 1 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 3.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 11 | 9/7/2021 | 7:30 AM | 23.00 | 22.98 | 23.17 | 24.81 | 24.78 | 25.05 | pH sensor broken | | | 5.60 | 5.52 | 5.44 | 75.4 | 74.3 | 73.5 | 1.2 | 2.40 | 16.1 | | 20 | 3 | | | | | | | 0 | 4 | 4 | 3 | 0 | W | 4.0 | 1 | 0.0 | es | pj | pj | Foam |
| Site 11 | 9/13/2021 | 8:48 AM | 23.19 | 23.18 | 23.17 | 24.92 | 24.91 | 24.85 | pH sensor broken | | | 7.80 | 8.06 | 8.26 | 105.7 | 108.9 | 110.9 | 0.7 | 3.06 | 23.8 | | 1 | <1 | | | | | | | 0 | 2 | 4 | 6 | 3 | W | 10.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 11 | 9/21/2021 | 7:58 AM | 22.86 | 22.83 | 22.88 | 25.25 | 25.24 | 25.27 | pH sensor broken | | | 7.41 | 7.38 | 7.38 | 97.6 | 97.6 | 97.6 | 1.3 | 2.58 | 13.9 | | 7 | <1 | | | | | | | 0 | 4 | 5 | 6 | 0 | N | 5.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 11 | 10/4/2021 | 9:16 AM | 20.66 | 20.66 | 20.71 | 25.60 | 25.59 | 25.63 | pH sensor broken | | | 7.25 | 7.16 | 7.08 | 93.2 | 92.3 | 91.5 | 1.9 | 4.89 | 18.8 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 8.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 11 | 10/11/2021 | 8:28 AM | 19.36 | 19.36 | 19.36 | 25.51 | 25.57 | 25.55 | pH sensor broken | | | 6.97 | 6.82 | 6.68 | 86.8 | 85.2 | 83.8 | 1.6 | 2.94 | 17.7 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 11 | 10/18/2021 | 7:44 AM | 18.53 | 18.56 | 18.60 | 25.60 | 25.59 | 25.61 | pH sensor broken | | | 8.12 | 7.79 | 7.69 | 99.9 | 97.0 | 95.9 | 1.3 | 3.53 | 11.1 | | 7 | 1 | | | | | | | 1 | 4 | 5 | 6 | 0 | W | 10.0 | 1 | 0.5 | es | pj | pj | clear surface conditions |
| Site 11 | 10/25/2021 | 8:13 AM | 16.43 | 16.43 | 16.29 | 25.58 | 25.58 | 25.63 | pH sensor broken | | | 8.10 | 8.15 | 8.18 | 96.3 | 97.0 | 97.0 | 1.9 | 2.64 | 17.7 | | 5 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | S | 7.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 12, Turtle Cove**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl | Organic Nitrogen | Total Nitrogen | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTION | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 12 | 4/19/2021 | 8:41 AM | 12.30 | 11.80 | 11.69 | 26.14 | 26.06 | 26.25 | 7.98 | 8.06 | 7.96 | 9.11 | 9.11 | 9.15 | 99.7 | 99.5 | 99.1 | 1.6 | 2.29 | 16.3 | | 3 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 4/26/2021 | 12:30 PM | 11.29 | 11.27 | 11.27 | 25.54 | 25.5 | 25.56 | 8.08 | 8.07 | 8.07 | 8.95 | 8.95 | 8.94 | 95.9 | 95.9 | 95.8 | 1.1 | 3.52 | 9.8 | | <1 | <1 | | | | | | | 1 | 1 | 5 | 6 | 0 | NW | 5.2 | 1 | 1.0 | nh | pj | pj | choppy |
| Site 12 | 5/3/2021 | 9:06 AM | 13.31 | 13.25 | 13.1 | 25.73 | 25.78 | 25.76 | 7.9 | 7.91 | 7.91 | 8.47 | 8.5 | 8.50 | 95.5 | 95.6 | 95.5 | 0.9 | 2.40 | 16.9 | | 16 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 5/10/2021 | 7:49 AM | 13.40 | 13.43 | 13.4 | 25.73 | 25.75 | 25.72 | 7.68 | 7.67 | 7.67 | 7.28 | 7.08 | 7.00 | 81.8 | 80 | 79.1 | 0.8 | 2.31 | 10.3 | | 1 | <1 | | | | | | | 2 | 4 | 5 | 6 | 4 | NE | 4.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 12 | 5/17/2021 | 8:32 AM | 17.68 | 17.45 | **too shallo** | 26.15 | 26.14 | **too shallo** | 7.69 | 7.74 | **too sha** | 7.52 | 7.39 | **too shallo** | 91.3 | 89.4 | **too shall** | 1.2 | 1.80 | 19.7 | | 1 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | N | 0.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 5/24/2021 | 7:54 AM | 18.16 | 18.24 | 18.03 | 26.13 | 26.09 | 26.08 | 7.75 | 7.76 | 7.69 | 7.49 | 7.44 | 7.30 | 91.8 | 91.4 | 89.3 | 1.3 | 3.05 | 18.4 | | <1 | 1 | | | | | | | 0 | 4 | 5 | 6 | 4 | E | 2.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 6/1/2021 | 9:04 AM | 15.27 | 15.28 | 15.33 | 25.46 | 25.48 | 25.65 | 7.88 | 7.85 | 7.78 | 8.58 | 8.67 | 8.45 | 99.2 | 100.2 | 97.7 | 1.4 | 2.04 | 17.7 | | 5 | 1 | | | | | | | 0 | 2 | 5 | 6 | 4 | N | 1.3 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 6/7/2021 | 8:59 AM | 22.65 | 22.55 | 21.66 | 25.60 | 25.74 | 25.88 | 7.86 | 7.89 | 7.86 | 7.44 | 7.53 | 8.08 | 99.7 | 100.8 | 106.6 | 1.0 | 3.37 | 30.3 | | 2 | 4 | | | | | | | 0 | 4 | 5 | 6 | 1 | SE | 1.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 6/15/2021 | 8:30 AM | 20.59 | 20.38 | 19.94 | 26.02 | 26.14 | 26.26 | 7.87 | 8.08 | 8.00 | 7.31 | 7.36 | 7.70 | 94.4 | 97.2 | 98.5 | 1.0 | 1.90 | 23.3 | | 7 | 5 | | | | | | | 1 | 2 | 5 | 6 | 3 | SW | 1.3 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 6/21/2021 | 9:15 AM | 23.75 | 23.75 | 23.70 | 26.13 | 26.13 | 26.13 | 7.79 | 7.79 | 7.71 | 6.08 | 5.95 | 5.75 | 83.5 | 82.2 | 79.2 | 1.0 | 3.67 | 24.8 | | 7 | 9 | | | | | | | 0 | 1 | 5 | 6 | 4 | S | 3.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 12 | 6/28/2021 | 8:22 AM | 24.79 | **too shallo** | 24.69 | 26.09 | **too shallo** | 26.13 | 7.46 | **too sha** | 7.46 | 5.01 | **too shallo** | 5.02 | 69.5 | **too shall** | 69.6 | 0.7 | 1.33 | 28.4 | | 20 | 20 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 1.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 7/6/2021 | 9:22 AM | 22.64 | 22.64 | 22.62 | 25.99 | 26.05 | 26.11 | **no pH data, sensor un** | | | 5.81 | 5.81 | 5.80 | 78.3 | 78.2 | 78.1 | 0.9 | 3.20 | 26.0 | | 14 | 6 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 2.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 7/12/2021 | 10:22 AM | 24.14 | 23.83 | 23.44 | 24.48 | 24.76 | 24.93 | 7.68 | 7.59 | 7.45 | 5.92 | 5.98 | 5.62 | 81.2 | 81.1 | 75.3 | 0.7 | 2.34 | 25.0 | | 5 | 1 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 7/19/2021 | 9:16 AM | 26.13 | 26.12 | 25.91 | 25.60 | 25.59 | 25.61 | 7.69 | 7.68 | 7.54 | 5.31 | 5.34 | 4.96 | 76.0 | 76.4 | 70.7 | 0.7 | 3.43 | 22.0 | | 18 | 5 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 2.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 7/26/2021 | 7:39 AM | 25.00 | 25.00 | **too shallo** | 25.41 | 25.55 | **too shallo** | 7.45 | 7.46 | **too sha** | 5.45 | 5.26 | **too shallo** | 76.2 | 73.5 | **too shall** | 0.6 | 1.43 | 22.0 | | 21 | 46 | | | | | | | 2 | 3 | 5 | 6 | 3 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 8/2/2021 | 9:21 AM | 23.84 | 23.80 | 23.67 | 25.66 | 25.65 | 25.60 | **no pH data, sensor un** | | | 6.14 | 5.82 | 5.59 | 83.7 | 79.7 | 76.2 | 0.8 | 3.20 | 21.1 | | 4 | 1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NW | 2.8 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 12 | 8/9/2021 | 7:53 AM | 23.24 | 23.23 | **too shallo** | 26.04 | 26.11 | **too shallo** | 7.46 | 7.46 | **too sha** | 5.44 | 4.85 | **too shallo** | 73.1 | 65.1 | **too shall** | 1.4 | 1.63 | 22.0 | | 1 | 3 | | | | | | | 1 | 4 | 5 | 6 | 4 | N | 1.5 | 4 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 12 | 8/24/2021 | 7:49 AM | 23.84 | 24.17 | NA | 24.13 | 24.86 | NA | 7.42 | 7.35 | NA | 4.84 | 4.55 | NA | 65.9 | 61.7 | NA | 1.3 | 2.40 | 22.7 | | 39 | 16 | | | | | | | 1 | 4 | 4 | 6 | 1 | W | 5.0 | 1 | 0.0 | es | pj | pj | clear surface conditions, top of hypoxic range at top and 1m depths |
| Site 12 | 8/31/2021 | 8:31AM | 26.17 | 26.17 | 25.69 | 25.54 | 25.59 | 25.67 | pH sensor broken | | | 6.29 | 6.37 | 5.87 | 90.2 | 91.3 | 83.1 | 1.0 | 2.98 | 22.7 | | 6 | 11 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 3.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 12 | 9/7/2021 | 10:25 AM | 22.77 | 22.76 | 22.73 | 24.78 | 24.78 | 24.80 | pH sensor broken | | | 7.05 | 6.82 | 6.73 | 93.3 | 91.5 | 90.3 | 1.0 | 3.68 | 21.1 | | 10 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 7.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 12 | 9/13/2021 | 8:59 AM | 23.31 | 23.31 | 23.26 | 24.88 | 24.9 | 24.90 | pH sensor broken | | | 7.70 | 7.77 | 7.75 | 103.9 | 104.8 | 104 | 0.8 | 2.14 | 23.8 | | 3 | <1 | | | | | | | 0 | 2 | 4 | 6 | 3 | W | 10.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 12 | 9/21/2021 | 8:09 AM | 22.46 | 22.49 | 22.45 | 25.28 | 25.28 | 25.27 | pH sensor broken | | | 7.02 | 6.86 | 6.79 | 92 | 90.1 | 88.3 | 0.6 | 1.93 | 16.1 | | 3 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | N | 6.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 12 | 10/4/2021 | 9:26 AM | 20.58 | 20.58 | 20.44 | 25.25 | 25.26 | 25.29 | pH sensor broken | | | 7.5 | 7.59 | 7.36 | 96.7 | 97.9 | 94.3 | 1.4 | 4.11 | 18.8 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 8.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 12 | 10/11/2021 | 8:42 AM | 19.24 | 19.24 | 19.24 | 25.47 | 25.49 | 25.49 | pH sensor broken | | | 6.63 | 6.48 | 6.30 | 82.4 | 80.6 | 78.5 | 1.5 | 2.10 | 17.7 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | NE | 17.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 12 | 10/18/2021 | 7:53 AM | 18.05 | 18.06 | 18.00 | 25.54 | 25.56 | 25.56 | pH sensor broken | | | 8.16 | 7.91 | 7.73 | 100.5 | 97.4 | 95.2 | 1.3 | 2.86 | 11.2 | | 2 | <1 | | | | | | | 1 | 4 | 5 | 6 | 0 | W | 10.0 | 1 | 0.5 | es | pj | pj | clear surface conditions |
| Site 12 | 10/25/2021 | 8:21 AM | 15.92 | 15.92 | | 25.64 | 25.61 | | pH sensor broken | | | 7.94 | 7.95 | | 93.7 | 93.8 | | 1.8 | 2.32 | 17.7 | | 3 | 3 | | | | | | | 1 | 2 | 5 | 6 | 4 | S | 8.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Friends of the Bay **2021** Water Quality Data - **Site 13, Mill Neck Creek East**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Seaflor Depth (meters) | Air Temp (°C) | H2O Temp BTM monthly AVG | Fecal Coliform Bacteria | Enterococci | Ammonia (NH3) | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl Nitr | Organic Nitrogen | Total Nitrogen | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 13 | 4/19/2021 | 8:07 AM | 11.48 | 11.26 | 11.12 | 25.34 | 25.9 | 26.04 | 8.09 | 8.09 | 8.09 | 9.75 | 9.83 | 9.84 | 105.2 | 105.8 | 105.7 | 1.6 | 3.02 | 13.7 | | 1 | 2 | | | | | | | 0 | 2 | 5 | 6 | 1 | NE | 0.4 | 1 | 0.0 | nh | pj | pj | dead bunker jellyfish |
| Site 13 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 13 | 5/3/2021 | 8:33 AM | 13.6 | 13.41 | 12.87 | 24.57 | 25.05 | 25.65 | 7.83 | 7.84 | 7.88 | 8.09 | 8.01 | 8.07 | 90.9 | 89.9 | 90.1 | 1.6 | 3.25 | 14.8 | | 2 | 5 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 2.1 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 5/10/2021 | 11:40 AM | 13.05 | 13.11 | 13.02 | 25.58 | 25.61 | 25.57 | 7.9 | 7.9 | 7.91 | 8.53 | 8.54 | 8.53 | 95.8 | 95.7 | 95.6 | 2.3 | 4.21 | 21.1 | | 1 | 2 | | | | | | | 2 | 1 | 5 | 6 | 3 | E | 0.5 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 5/17/2021 | 8:07 AM | 16.49 | 16.43 | 16.35 | 25.34 | 25.5 | 25.84 | 7.69 | 7.7 | 7.74 | 7.67 | 7.49 | 7.44 | 90.3 | 88.4 | 88.3 | 1.6 | 2.39 | 18.0 | | 4 | 2 | | | | | | | 0 | 2 | 5 | 6 | 0 | W | 0.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 5/24/2021 | 11:42 AM | 18.57 | 18.57 | 18.44 | 26.07 | 26.18 | 26.08 | 7.89 | 7.89 | 7.86 | 7.82 | 7.94 | 7.99 | 97.1 | 98.4 | 98.7 | 1.2 | 4.15 | 23.4 | | 13 | 2 | | | | | | | 0 | 1 | 5 | 6 | 4 | W | 1.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 6/1/2021 | 8:12 AM | 15.03 | 15.1 | 15.10 | 23.51 | 25.14 | 25.13 | 7.7 | 7.71 | 7.72 | 8.00 | 7.76 | 7.63 | 90.4 | 89 | 87.6 | 1.0 | 3.09 | 16.3 | | 24 | 5 | | | | | | | 0 | 2 | 5 | 6 | 4 | W | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 6/7/2021 | 8:02 AM | 19.93 | 19.83 | 19.76 | 25.62 | 25.68 | 25.74 | 7.85 | 7.86 | 7.86 | 8.43 | 8.47 | 8.47 | 107.5 | 107.6 | 107.5 | 1.1 | 3.31 | 22.3 | | 12 | 3 | | | | | | | 0 | 4 | 5 | 6 | 2 | S | 2.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions, comb jellyfish, % SAT near top of range at all depths |
| Site 13 | 6/15/2021 | 7:49 AM | 20.28 | 20.26 | 20.11 | 25.35 | 25.59 | 25.90 | 7.88 | 7.91 | 7.99 | 7.61 | 7.51 | 7.76 | 97.3 | 96.3 | 99.5 | 0.9 | 2.55 | 20.7 | | 45 | 32 | | | | | | | 1 | 2 | 5 | 6 | 4 | W | 1.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 6/21/2021 | 7:52 AM | 22.54 | 22.45 | 22.37 | 25.95 | 25.98 | 25.58 | 7.96 | 7.97 | 7.98 | 7.28 | 7.28 | 7.32 | 98.5 | 98.3 | 98.8 | 0.8 | 4.19 | 25.6 | | 32 | 17 | | | | | | | 0 | 4 | 5 | 6 | 2 | S | 2.3 | 2 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 13 | 6/28/2021 | 7:46 AM | 23.66 | 23.53 | 23.49 | 25.56 | 25.67 | 25.76 | 7.35 | 7.41 | 7.44 | 5.16 | 4.82 | 4.98 | 68.8 | 65.5 | 67.5 | 0.8 | 2.05 | 25.4 | | 63 | 36 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 2.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 7/6/2021 | 8:04 AM | 22.56 | 22.55 | 22.49 | 25.70 | 25.72 | 25.72 | **no pH data, ser** | | - | 7.27 | 7.24 | 7.20 | 97.5 | 97.2 | 96.5 | 1.0 | 3.55 | 24.0 | | 4 | <1 | | | | | | | 0 | 4 | 5 | 6 | 4 | SW | 3.8 | 3 | 0.5 | nh | pj | pj | clear suface conditions |
| Site 13 | 7/12/2021 | 10:47 AM | 24.14 | 23.97 | 23.87 | 23.80 | 23.99 | 24.09 | 7.76 | 7.72 | 7.69 | 7.25 | 7.36 | 7.16 | 99.0 | 99.8 | 96.8 | 0.8 | 3.02 | 26.1 | | 37 | 5 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 7/19/2021 | 7:51 AM | 25.25 | 25.27 | 25.29 | 25.51 | 25.52 | 25.55 | 7.62 | 7.61 | 7.60 | 5.76 | 5.61 | 5.36 | 80.6 | 78.7 | 75.5 | 1.2 | 4.18 | 21.0 | | 10 | 6 | | | | | | | 0 | 1 | 5 | 6 | 4 | NW | 1.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 7/26/2021 | 10:28 AM | 25.11 | 24.99 | 24.91 | 25.07 | 25.12 | 25.17 | 7.68 | 7.67 | 7.66 | 6.30 | 6.21 | 5.94 | 88.0 | 86.7 | 82.9 | 1.2 | 2.69 | 26.0 | | 44 | 36 | | | | | | | 2 | 4 | 5 | 6 | 1 | W | 2.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 8/2/2021 | 8:43 AM | 23.76 | 23.76 | 23.72 | 25.39 | 25.44 | 25.45 | **no pH data, sensor ur** | | | 6.31 | 6.15 | 5.99 | 86.3 | 84.3 | 81.9 | 1.2 | 3.84 | 18.9 | | 2 | <1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 2.4 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 13 | 8/9/2021 | 11:21 AM | 23.45 | 23.45 | 23.44 | 25.85 | 25.86 | 25.88 | 7.69 | 7.68 | 7.67 | 6.31 | 6.08 | 5.84 | 85.3 | 82.3 | 79.3 | 1.6 | 4.23 | 23.0 | | 9 | 5 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 4.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 13 | 8/24/2021 | 10:50 AM | | | | | | sonde started malfunctioning, out of order | | | | | | | | | | 0.9 | NA | 26.6 | | 36 | 2 | | | | | | | 1 | 4 | 4 | 6 | 0 | w | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 13 | 8/31/2021 | 7:54AM | 25.37 | 25.36 | 25.40 | 25.42 | 25.41 | 25.55 | pH sensor broken | | | 6.51 | 6.35 | 6.39 | 91.8 | 89.4 | 90.3 | 1.0 | 3.94 | 22.2 | | 10 | 1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 13 | 9/7/2021 | 11:05 AM | 23.24 | 23.24 | 23.25 | 24.93 | 24.94 | 24.98 | pH sensor broken | | | 6.55 | 6.47 | 6.37 | 88.6 | 87.5 | 86.4 | 1.3 | 4.50 | 22.2 | | 14 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | w | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 13 | 9/13/2021 | 8:20 AM | 23.06 | 23.06 | 23.11 | 23.94 | 24.12 | 24.55 | pH sensor broken | | | 6.85 | 6.74 | 6.57 | 90.9 | 89.6 | 87.9 | 0.7 | 2.96 | 23.8 | | 24 | 9 | | | | | | | 0 | 2 | 4 | 6 | 3 | w | 9.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 13 | 9/21/2021 | 11:27 AM | 23.05 | 23.06 | 23.01 | 25.23 | 25.22 | 25.27 | pH sensor broken | | | 7.60 | 7.8 | 7.91 | 101.3 | 104 | 104.8 | 1.1 | 4.57 | 21.1 | | 7 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | E | 8.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 13 | 10/4/2021 | 7:51 AM | 20.57 | 20.57 | 20.57 | 25.11 | 25.13 | 25.19 | pH sensor broken | | | 7.12 | 7.03 | 6.96 | 91.4 | 90.2 | 89.7 | 1.2 | 3.73 | 20.0 | | | | | | | | | | >1 | 4 | 5 | 6 | 4 | E | 6.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 13 | 10/11/2021 | 7:59 AM | 18.54 | 18.67 | 18.79 | 24.37 | 24.47 | 24.67 | pH sensor broken | | | 6.38 | 6.13 | 6.01 | 77.5 | 75.0 | 74.2 | 1.0 | 2.87 | 17.2 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | NE | 15.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 13 | 10/18/2021 | 11:54 AM | 18.68 | 18.65 | 18.82 | 25.74 | 25.73 | 25.73 | pH sensor broken | | | 8.00 | 7.83 | 7.74 | 99.9 | 97.7 | 97.2 | 1.5 | 4.24 | 12.7 | | 10 | <1 | | | | | | | 1 | 2 | 5 | 4 | 4 | WNW | 16.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 13 | 10/25/2021 | 7:50 AM | 16.21 | 16.25 | 16.45 | 24.64 | 24.75 | 25.14 | pH sensor broken | | | 7.03 | 6.73 | 6.56 | 82.5 | 79.0 | 78.0 | 0.9 | 2.35 | 17.7 | | 18 | 134 | | | | | | | 1 | 2 | 5 | 6 | 4 | SW | 7.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 13 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 14, Mill Neck Creek West**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Sensor Depth (meters) | Air Temp (°C) | H2O Temp BTM | Fecal Coliform Bact | Enterococci | Ammonia (NH3) | Nitrate NO3 | Nitrite (NO2) | Total Kjeldahl Nitrogen | Organic Nitrogen (N) | Total Nitrogen | Rain fall in 24 hour | Tidal Stage | Water Color | Surface Conditio | Cloud Cover | Wind DIRECT | Wind SPEED | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 14 | 4/19/2021 | 8:15 AM | 11.76 | 11.82 | 11.76 | 24.97 | 25.54 | 25.54 | 8.02 | 8.06 | 8.07 | 9.57 | 9.43 | 9.64 | 103 | 102.7 | 104.7 | 1.9 | 1.87 | 17.9 | | 11 | 2 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 14 | 5/3/2021 | 8:15 AM | 13.61 | 13.58 | 12.91 | 24.70 | 25.11 | 25.61 | 7.82 | 7.83 | 7.87 | 8.15 | 8.02 | 8.10 | 91.8 | 90.4 | 90.5 | 1.5 | 2.6 | 15.0 | | 5 | 6 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 5/10/2021 | 11:32 AM | 13.42 | 13.23 | 13.04 | 25.23 | 25.44 | 25.48 | 7.88 | 7.89 | 7.90 | 8.56 | 8.53 | 8.52 | 96.4 | 95.9 | 95.6 | 2.1 | 3.69 | 22.3 | | 5 | 2 | | | | | | | 2 | 1 | 5 | 6 | 3 | E | 3.5 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 5/17/2021 | 7:57 AM | 16.12 | 16.13 | **too shallov** | 25.09 | 25.09 | **too shallov** | 7.65 | 7.65 | **too sha** | 7.34 | 7.04 | **too sha** | 85.7 | 82.6 | **too shallow** | | 1.44 | 18.6 | | 16 | 4 | | | | | | | 0 | 2 | 5 | 6 | 0 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit bottom before disappearing |
| Site 14 | 5/24/2021 | 11:34 AM | 18.97 | 18.96 | 18.44 | 25.55 | 25.57 | 26.10 | 7.88 | 7.87 | 7.87 | 8.00 | 8.01 | 8.04 | 99.5 | 99.6 | 99.2 | 1.1 | 3.07 | 21.9 | | 42 | 7 | | | | | | | 0 | 1 | 5 | 6 | 4 | SE | 1.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 6/1/2021 | 8:00 AM | 15.10 | 15.18 | 15.17 | 23.64 | 23.81 | 24.93 | 7.69 | 7.70 | 7.68 | 7.88 | 7.78 | 7.68 | 89.5 | 88.8 | 88.1 | 1.5 | 2.57 | 17.3 | | 13 | 5 | | | | | | | 0 | 2 | 5 | 6 | 4 | W | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions, 2 osprey |
| Site 14 | 6/7/2021 | 8:12 AM | 20.10 | 19.97 | 19.84 | 25.64 | 25.70 | 25.77 | 7.84 | 7.86 | 7.86 | 8.20 | 8.33 | 8.36 | 104.9 | 106.4 | 106.3 | 1.1 | 2.78 | 22.7 | | 10 | 3 | | | | | | | 0 | 4 | 5 | 6 | 2 | W | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT near top of range at all depths |
| Site 14 | 6/15/2021 | 7:35 AM | 20.34 | 20.42 | 20.41 | 24.66 | 25.35 | 25.34 | 7.82 | 7.81 | 7.81 | 6.83 | 6.71 | 6.66 | 87.0 | 86.0 | 85.4 | 0.9 | 1.91 | 21.7 | | 76 | 48 | | | | | | | 1 | 2 | 5 | 6 | 4 | W | 1.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 6/21/2021 | 8:01 AM | 22.58 | 22.56 | 22.47 | 25.94 | 26.03 | 25.96 | 7.98 | 7.97 | 7.94 | 7.24 | 7.27 | 7.27 | 98.1 | 98.5 | 98.1 | 0.7 | 2.79 | 23.2 | | 20 | 7 | | | | | | | 0 | 4 | 5 | 6 | 4 | S | 4.5 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 14 | 6/28/2021 | 7:36 AM | 23.82 | **too shallov** | **too shallov** | 24.87 | **too shallov** | **too shallov** | 7.06 | **too shallov** | **too sha** | 4.29 | **too sha** | **too sha** | 52.7 | **too sha** | **too sha** | 0.6 | 0.71 | 25.3 | | 110 | 65 | | | | | | | 0 | 2 | 5 | 6 | 1 | SW | 1.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 7/6/2021 | 8:14 AM | 23.07 | 23.02 | 22.86 | 25.36 | 25.40 | 25.52 | **no pH data, sensor unoperati** | | | 6.66 | 6.68 | 6.70 | 90.1 | 90.4 | 90.2 | 0.8 | 2.15 | 24.0 | | 6 | 3 | | | | | | | 0 | 4 | 5 | 6 | 4 | SW | 3.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 7/12/2021 | 10:55 AM | 24.11 | 24.11 | 24.09 | 23.55 | 23.50 | 23.52 | 7.70 | 7.70 | 7.69 | 7.13 | 7.15 | 7.11 | 97.0 | 97.3 | 96.4 | 0.8 | 2.18 | 26.1 | | 58 | 17 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 7/19/2021 | 7:59 AM | 25.39 | 25.41 | 25.28 | 25.37 | 25.42 | 25.58 | 7.60 | 7.58 | 7.61 | 5.50 | 5.42 | 5.31 | 77.2 | 76.3 | 74.7 | 1.2 | 3.42 | 21.0 | | 15 | 8 | | | | | | | 0 | 1 | 5 | 4 | 4 | NW | 1.0 | 3 | 0.0 | nh | pj | pj | 1 dead fish, 1 dead crab |
| Site 14 | 7/26/2021 | 10:19 AM | 25.13 | 25.06 | **too shallov** | 24.41 | 24.62 | **too shallov** | 7.59 | 7.56 | **too sha** | 6.03 | 5.97 | **too sha** | 84.3 | 82.3 | **too sha** | 1.2 | 1.79 | 26.0 | | 510 | 76 | | | | | | | 2 | 4 | 5 | 6 | 1 | 0 | 0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 8/2/2021 | 8:28 AM | 23.72 | 23.73 | 23.78 | 25.17 | 25.24 | 25.28 | **no pH data, sensor unoperati** | | | 5.71 | 5.49 | 5.40 | 77.7 | 75.0 | 74.1 | 0.9 | 3.43 | 17.8 | | 6 | 7 | | | | | | | 0 | 1 | 5 | 6 | 0 | NW | 3.5 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 14 | 8/9/2021 | 11:30 AM | 23.46 | 23.44 | 23.44 | 25.92 | 25.91 | 25.90 | 7.69 | 7.69 | 7.68 | 6.38 | 6.08 | 5.96 | 86.7 | 82.4 | 80.9 | 1.4 | 3.53 | 23.0 | | 8 | 7 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 14 | 8/24/2021 | | | | | | | | | | | | | | sonde out of order | | | | | | | | | | | | | | | | | | | | | | | | es | pj | pj | clear surface conditions |
| Site 14 | 8/31/2021 | 7:47 AM | 25.41 | 25.42 | 25.43 | 24.80 | 24.87 | 25.51 | pH sensor broken | | | 5.56 | 5.14 | 5.04 | 77.3 | 72.0 | 71.5 | 0.8 | 2.97 | 22.2 | | 15 | 5 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 14 | 9/7/2021 | 11:17 AM | 23.34 | 23.33 | 23.25 | 25.03 | 25.03 | 25.02 | pH sensor broken | | | 6.87 | 6.83 | 6.73 | 93.2 | 92.7 | 90.9 | 1.3 | 4.05 | 22.2 | | 9 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 14 | 9/13/2021 | 8:04 AM | 23.05 | 23.06 | 23.09 | 24.15 | 24.03 | 24.23 | pH sensor broken | | | 6.60 | 6.41 | 6.21 | 87.5 | 84.9 | 82.7 | 0.6 | 2.65 | 22.7 | | 23 | 9 | | | | | | | 0 | 2 | 4 | 6 | 3 | W | 11.0 | 3 | 0.0 | es | pj | pj | clear surface conditions |
| Site 14 | 9/21/2021 | 11:37 AM | 23.08 | 23.06 | 23.03 | 25.35 | 25.33 | 25.35 | pH sensor broken | | | 7.68 | 7.92 | 7.92 | 102.4 | 105.3 | 105.1 | 1.0 | 3.67 | 21.1 | | 6 | <1 | | | | | | | 0 | 4 | 5 | 6 | 1 | E | 8.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 14 | 10/4/2021 | 7:59 AM | 20.57 | 20.57 | 20.57 | 25.20 | 25.20 | 25.23 | pH sensor broken | | | 7.09 | 7.01 | 6.59 | 91.1 | 89.9 | 89.4 | 1.2 | 3.20 | 20.0 | | | | | | | | | | <1 | 4 | 5 | 6 | 3 | E | 6.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 14 | 10/11/2021 | 7:49 AM | 18.42 | 18.49 | 18.52 | 24.26 | 24.54 | 24.56 | pH sensor broken | | | 6.25 | 5.92 | 6.06 | 75.2 | 72.5 | 74.6 | 1.1 | 2.17 | 17.0 | | | | | | | | | | 1 | 2 | 5 | 6 | 4 | NE | 16.0 | 3 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 14 | 10/18/2021 | 11:45 AM | 18.54 | 18.56 | 18.58 | 25.66 | 25.66 | 25.67 | pH sensor broken | | | 7.82 | 7.67 | 7.57 | 97.0 | 95.5 | 94.6 | 1.0 | 3.81 | 12.7 | | 18 | 1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NNW | 15.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 14 | 10/25/2021 | 7:41 AM | 15.85 | too shallov | too shallov | 23.95 | too shallov | too shallov | pH sensor broken | | | 6.70 | too sha | too sha | 77.4 | too sha | too sha | 0.9 | 1.14 | 17.8 | | 43 | 167 | | | | | | | 1 | 2 | 5 | 6 | 4 | SW | 7.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 14 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 15, Mill Neck Creek South**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 Temp 0.5 m from | 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 | Fecal Coliform | Enterococci | Ammonia | Nitrate | Nitrite | Total Kj | Organic N | Total N | Rain fall in 24 | Tidal Stage | Water Color | Surface Con | Cloud Cov | Wind DIR | Wind SPE | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 15 | 4/19/2021 | **tide falling, too shallow** | | | | | | tide falling, too shallow | | | | | | | tide falling, too shallow | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 5/3/2021 | 8:04 AM | 14.04 | 13.41 | **too shall** | 24.75 | 25.42 | **too shall** | 7.80 | 7.84 | **too sh** | 7.92 | 7.90 | **too sh** | 89.8 | 88.9 | **too shall** | 1.1 | 1.4 | 15.1 | | 13 | 10 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 1.6 | 3 | 0.0 | nh | pj | pj | clear surface conditions, shallow |
| Site 15 | 5/10/2021 | 11:03 AM | 13.48 | 13.48 | 13.46 | 24.37 | 24.36 | 24.39 | 7.89 | 7.89 | 7.89 | 8.64 | 8.62 | 8.63 | 97 | 96.9 | 96.9 | 1.6 | 2.16 | 17.6 | | 22 | 2 | | | | | | | 2 | 4 | 5 | 6 | 4 | E | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 15 | 5/17/2021 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 5/24/2021 | 11:24 AM | 19.04 | 18.49 | 18.43 | 24.89 | 26.20 | 26.20 | 7.84 | 7.89 | 7.89 | 7.64 | 7.71 | 7.99 | 95.2 | 95.5 | 98.9 | 1.0 | 2.09 | 21.3 | | 112 | 31 | | | | | | | 0 | 1 | 5 | 6 | 4 | SE | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 15 | 6/1/2021 | 7:36 AM | 15.35 | 15.47 | **too shall** | 23.58 | 24.27 | **too shall** | 7.83 | 7.81 | **too sh** | 7.84 | 8.73 | **too sh** | 89.50 | 89.00 | **too shallow** | | 1.32 | 16.8 | | 22 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit bottom before disappearing |
| Site 15 | 6/7/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 6/15/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 6/21/2/1 | 8:33 AM | 23.22 | 23.14 | 22.88 | 25.18 | 25.77 | 25.86 | 7.85 | 7.89 | 7.89 | 6.74 | 6.68 | 6.68 | 91.7 | 91.3 | 90.7 | 0.6 | 2.22 | 23.6 | | 390 | 210 | | | | | | | 0 | 4 | 5 | 6 | 4 | S | 3.3 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 15 | 6/28/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 7/6/2021 | 8:48 AM | 23.65 | 23.57 | 23.53 | 24.60 | 24.72 | 24.71 | **no pH data, sensor un** | | 6.32 | 6.19 | 6.00 | 85.8 | 83.7 | 81.3 | 0.7 | 1.83 | 25.0 | | | 22 | 16 | | | | | | | 0 | 4 | 5 | 6 | 1 | SW | 1.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 15 | 7/12/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 7/19/2021 | 8:36 AM | 25.81 | 25.80 | 25.63 | 25.10 | 25.20 | 25.32 | 7.50 | 7.50 | 7.52 | 5.32 | 5.07 | 4.82 | 75.0 | 71.4 | 67.9 | 0.8 | 1.95 | 21.0 | | 300 | 71 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 15 | 7/26/2021 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | 8/2/2021 | 8:17 AM | 23.64 | 23.64 | **too shall** | 24.51 | 24.72 | **too shall** | **no pH data, sensor un** | | 4.60 | 4.24 | **too sh** | 62.0 | 57.4 | **too shall** | 0.6 | 1.84 | 17.8 | | | 33 | 14 | | | | | | | 0 | 1 | 5 | 6 | 0 | NW | 2.8 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 15 | 8/9/2021 | 11:41 AM | 23.55 | 23.49 | 23.46 | 24.29 | 24.48 | 24.85 | 7.64 | 7.56 | 7.52 | 6.39 | 6.34 | 5.87 | 86.2 | 85.2 | 78.8 | 1.9 | 2.26 | 23.0 | | 380 | 170 | | | | | | | 1 | 4 | 5 | 4 | 4 | NE | 3.2 | 3 | 0.0 | nh | pj | pj | 2 dead fish |
| Site 15 | 8/24/2021 | | | | | | | | | | | | | sonde out of order | | | sonde out of order, sonde out of order | | | | | | | | | | | | | | | | | | | | | | es | pj | pj | clear surface conditions |
| Site 15 | 8/31/2021 | 7:37 AM | 25.51 | 25.65 | 25.67 | 23.98 | 24.76 | 24.83 | pH sensor broken | | **4.70** | **4.07** | **3.60** | 65.3 | 56.5 | 50.3 | 0.8 | 1.96 | 22.2 | | | 43 | 14 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions, DO in hypoxic range at all depths |
| Site 15 | 9/7/2021 | 11:28 AM | 23.43 | 23.44 | 23.33 | 24.35 | 24.37 | 24.46 | pH sensor broken | | 6.26 | 6.04 | 5.77 | 84.5 | 81.5 | 77.6 | 1.0 | 2.52 | 22.2 | | | 40 | 11 | | | | | | | 0 | 4 | 4 | 6 | 0 | w | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 15 | 9/13/2021 | 7:54 AM | 23.18 | 23.32 | too shall | 23.28 | 23.99 | too shall | pH sensor broken | | 6.34 | 5.87 | too sh | 84.0 | 77.8 | too shall | 0.7 | too shall | 22.7 | | | 48 | 21 | | | | | | | 0 | 2 | 4 | 6 | 4 | w | 11.0 | 13 | 0.5 | es | pj | pj | clear surface conditions |
| Site 15 | 9/21/2021 | 11:50 AM | 22.89 | 22.91 | 23.06 | 24.54 | 24.70 | 24.91 | pH sensor broken | | 7.44 | 7.42 | 7.42 | 98.0 | 98.0 | 98.6 | 0.9 | 2.38 | 21.1 | | | 46 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 8.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 15 | 10/4/2021 | 8:10 AM | 20.73 | 20.73 | 20.71 | 24.55 | 24.57 | 24.66 | pH sensor broken | | 6.43 | 6.13 | 5.73 | 81.9 | 77.5 | 73.4 | 0.6 | 1.93 | 20.0 | | | | | | | | | | | <1 | 4 | 5 | 6 | 3 | E | 6.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 15 | 10/11/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | fb | pj | pj | clear surface conditions |
| Site 15 | 10/18/2021 | 11:13 AM | 17.20 | 17.55 | 17.92 | 24.50 | 24.70 | 25.13 | pH sensor broken | | 7.34 | 7.23 | 7.00 | 88.4 | 87.7 | 85.6 | 1.0 | 2.37 | 12.7 | | | 74 | 10 | | | | | | | 1 | 1 | 5 | 6 | 4 | W | 15.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 15 | 10/25/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | 1 | | | | | | | | | es | pj | pj | |
| Site 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2021 Water Quality Data - Site 16, Mill Neck Creek North**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 16 | 4/19/2021 | **tide falling, too shallow** | | | | | | | | tide falling, too shallow | | | | | | | tide falling, too shallow | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 5/3/2021 | 7:55 AM | 13.32 | 13.20 | **too shal** | 25.42 | 25.52 | **too shal** | 7.84 | 7.85 | **too shal** | 8.25 | 8.21 | **too shal** | 92.6 | 92.0 | **too shal** | 1.7 | 1.7 | 15.1 | | 1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 4 | E | 2.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions, shallow |
| Site 16 | 5/10/2021 | 11:13 AM | 13.37 | 13.29 | 13.13 | 25.07 | 25.09 | 25.48 | 7.90 | 7.90 | 7.90 | 8.70 | 8.65 | 8.61 | 97.8 | 97.3 | 96.6 | 2.0 | 2.35 | 20.4 | | 10 | 11 | | | | | | | 2 | 4 | 5 | 6 | 4 | N | 2.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 16 | 5/17/2021 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 5/24/2021 | 11:12 AM | 18.92 | 18.88 | 18.72 | 25.70 | 25.73 | 26.00 | 7.87 | 7.87 | 7.88 | 8.06 | 7.98 | 7.96 | 100.0 | 99.1 | 98.6 | 1.2 | 2.31 | 19.1 | | 46 | 5 | | | | | | | 0 | 1 | 5 | 6 | 4 | S | 1.3 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 16 | 6/1/2021 | 7:50 AM | 15.17 | 15.21 | **too shal** | 24.06 | 24.46 | **too shal** | 7.67 | 7.66 | **too shal** | 8.11 | 7.88 | **too shal** | 92.5 | 90.1 | **too shallow** | | 1.4 | 16.0 | | 34 | 8 | | | | | | | 0 | 2 | 5 | 6 | 4 | 0 | 0.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit bottom before disappearing, bald eagle |
| Site 16 | 6/7/2021 | 8:25 AM | 20.66 | 20.61 | **too shal** | 25.58 | 25.57 | **too shal** | 7.82 | 7.82 | **too shal** | 7.87 | 7.95 | **too shal** | 101.7 | 102.6 | **too shal** | 1.0 | 1.69 | 22.6 | | 18 | 7 | | | | | | | 0 | 4 | 5 | 6 | 2 | S | 0.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions, 2 osprey |
| Site 16 | 6/15/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 6/21/2021 | 8:21 AM | 22.56 | 22.62 | 22.52 | 25.92 | 25.97 | 25.96 | 7.97 | 7.96 | 7.98 | 7.29 | 7.32 | 7.32 | 98.9 | 99.0 | 99.1 | 0.8 | 2.35 | 24.2 | | 33 | 18 | | | | | | | 0 | 4 | 5 | 6 | 4 | S | 2.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 16 | 6/28/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 7/6/2021 | 8:21 AM | 23.34 | 23.32 | 23.31 | 25.05 | 25.15 | 25.09 | **no pH data, sensor unope** | | | 6.80 | 6.69 | 6.43 | 92.0 | 90.4 | 86.8 | 0.7 | 1.84 | 24.0 | | 11 | 5 | | | | | | | 0 | 4 | 5 | 6 | 3 | SW | 1.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 16 | 7/12/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 7/19/2021 | 8:24 AM | 25.39 | 25.38 | 25.37 | 25.46 | 25.45 | 25.51 | 7.57 | 7.57 | 7.58 | 5.39 | 5.28 | 5.21 | 75.7 | 74.4 | 73.2 | 0.8 | 2.25 | 21.0 | | 47 | 19 | | | | | | | 0 | 2 | 5 | 6 | 4 | NW | 1.3 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 16 | 7/26/2021 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | 8/2/2021 | 8:05 AM | 23.77 | 23.77 | 23.76 | 25.06 | 25.07 | 25.10 | **no pH data, sensor unope** | | | 5.63 | 5.39 | 5.20 | 76.7 | 73.2 | 71.2 | 0.9 | 2.09 | 17.8 | | 5 | 4 | | | | | | | 0 | 1 | 5 | 6 | 0 | NW | 3.7 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 16 | 8/9/2021 | 11:53 AM | 23.68 | 23.54 | 23.46 | 24.98 | 25.60 | 25.90 | 7.62 | 7.67 | 7.68 | 6.34 | 6.17 | 6.00 | 86.1 | 83.6 | 81.5 | 1.2 | 2.49 | 23.0 | | 90 | 47 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 1.8 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 16 | 8/24/2021 | sonde out of order, sonde out of order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | es | pj | pj | clear surface conditions |
| Site 16 | 8/31/2021 | 7:28 AM | 25.37 | 25.50 | 25.5 | 24.76 | 24.94 | 25.34 | pH sensor broken | | | 5.81 | 5.49 | 5.35 | 81.4 | 77.1 | 75.6 | 0.7 | 2.14 | 22.2 | | 13 | 4 | | | | | | | 1 | 2 | 6 | 0 | 4 | NW | 2.0 | 3 | 0.0 | kp | pj | pj | oil slick, debris, bubbles |
| Site 16 | 9/7/2021 | 11:38 AM | 23.41 | 23.30 | 23.23 | 24.91 | 24.94 | 24.98 | pH sensor broken | | | 6.85 | 6.81 | 6.63 | 93.0 | 92.1 | 89.4 | 1.1 | 2.75 | 23.8 | | 13 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | W | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 16 | 9/13/2021 | 7:41 AM | 23.16 | 23.16 | too shal | 24.73 | 24.93 | too shal | pH sensor broken | | | 5.91 | 5.81 | too shal | 79.0 | 77.9 | too shal | 0.7 | 1.49 | 22.7 | | 15 | 8 | | | | | | | 0 | 2 | 4 | 6 | 4 | W | 10.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 16 | 9/21/2021 | 12:02 PM | 23.21 | 23.17 | 23.15 | 25.11 | 25.25 | 25.24 | pH sensor broken | | | 7.79 | 7.92 | 8.14 | 104.0 | 106.0 | 108.4 | 0.9 | 2.61 | 22.2 | | 10 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 8.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 16 | 10/4/2021 | 8:21 AM | 20.61 | 20.62 | 20.62 | 24.83 | 24.91 | 24.99 | pH sensor broken | | | 6.90 | 6.72 | 6.59 | 88.5 | 86.1 | 84.8 | 1.0 | 2.22 | 20.0 | | | | | | | | | | <1 | 4 | 5 | 6 | 4 | ENE | 5.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 16 | 10/11/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | fb | pj | pj | |
| Site 16 | 10/18/2021 | 11:24 AM | 18.74 | 18.76 | 18.77 | 25.81 | 25.81 | 25.81 | pH sensor broken | | | 8.06 | 7.90 | 7.74 | 100.9 | 98.8 | 97.0 | 1.4 | 2.51 | 12.7 | | 20 | 6 | | | | | | | 1 | 2 | 5 | 6 | 4 | W | 15.0 | 3 | 1.0 | es | pj | pj | clear surface conditions |
| Site 16 | 10/25/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | 1 | | | | | | | | | es | pj | pj | |
| Site 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 16 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 17, The Birches STP**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTION | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 17 | 4/19/2021 | **tide too low, too shallow** | | | | | tide too low, too shallow | | | | | | **tide too low, too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 5/3/2021 | **too shallow** | | | | | too shallow | | | | | | too shallow | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 5/10/2021 | 11:23 AM | 13.47 | 13.45 | 13.29 | 24.39 | 24.57 | 25.18 | 7.87 | 7.88 | 7.89 | 8.72 | 8.7 | 8.66 | 97.9 | 97.7 | 97.4 | 1.8 | 1.98 | 28.3 | | 13 | 1 | | | | | | | 2 | 4 | 5 | 6 | 4 | E | 3.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 17 | 5/17/2021 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 5/24/2021 | 11:04 AM | 19.41 | 19.43 | **too shall** | 25.55 | 25.67 | **too shal** | 7.76 | 7.75 | **too shal** | 7.28 | 7.18 | **too sha** | 91.1 | 90.1 | **too sha** | 1.3 | 1.58 | 20.8 | | 78 | 17 | | | | | | | 0 | 1 | 5 | 6 | 4 | E | 2.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 17 | 6/1/2021 | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 6/7/2021 | **too shallow** | | | | | | **too shallow** | | | | | | | | | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 6/15/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 6/21/2021 | 8:12 AM | 23.21 | 23.18 | **too shall** | 25.60 | 25.70 | **too shal** | 7.74 | 7.75 | **too shal** | 5.86 | 5.77 | **too sha** | 79.7 | 78.6 | **too sha** | 0.7 | 1.63 | 23.3 | | 260 | 280 | | | | | | | 0 | 4 | 5 | 6 | 1 | S | 1.6 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 17 | 6/28/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 7/6/2021 | 8:31 AM | 23.67 | 23.62 | **too shall** | 24.54 | 24.66 | **too shal** | **no pH data, sensor unop** | | | 5.84 | 5.77 | **too sha** | 79.3 | 78.3 | **too sha** | 0.4 | 1.57 | 24.0 | | 12 | 7 | | | | | | | 0 | 4 | 5 | 6 | 2 | SW | 1.5 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 17 | 7/12/2021 | **too shallow, low tide** | | | | | | **too shallow, low tide** | | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 7/19/2021 | 8:09 AM | 25.40 | 25.44 | 25.60 | 24.95 | 24.99 | 25.14 | 7.44 | 7.44 | 7.46 | 4.77 | 4.58 | 4.44 | 66.7 | 64.3 | 62.7 | 0.7 | 2.15 | 21.0 | | 49 | 64 | | | | | | | 0 | 1 | 5 | 6 | 4 | NW | 1.8 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 17 | 7/26/2021 | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | 8/2/2021 | 7:46 AM | 23.49 | 23.52 | **too shall** | 24.69 | 24.81 | **too shal** | **no pH data, sensor unop** | | | 4.76 | 4.35 | **too sha** | 64.1 | 58.9 | **too sha** | 0.6 | 1.83 | 17.8 | | 9 | 5 | | | | | | | 0 | 1 | 5 | 6 | 0 | NW | 2.5 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 17 | 8/9/2021 | 12:02 PM | 23.64 | 23.58 | 23.56 | 24.69 | 25.05 | 25.06 | 7.60 | 7.59 | 7.59 | 6.14 | 6.05 | 5.85 | 83.1 | 81.7 | 79.0 | 0.8 | 2.16 | 23.0 | | 190 | 58 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 2.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 17 | 8/24/2021 | | | | | | | | | | | | | | sound out of order | | | sonde out of order | | | | | | | | | | | | | | | | | | | | | es | pj | pj | clear surface conditions |
| Site 17 | 8/31/2021 | 7:17 AM | 25.52 | 25.59 | no data - | 24.54 | 24.63 | too shal | pH sensor broken | | | **4.02** | **3.67** | too shal | 56.1 | 51.1 | too shal | 0.7 | 1.18 | 22.2 | | 16 | 7 | | | | | | | 1 | 2 | 5 | 6,5,2 | 4 | NW | 2.0 | 2 | 0.0 | kp | pj | pj | oil slick, debris, bubbles, turtle sighting, DO in hypoxic range at top and 1m depths |
| Site 17 | 9/7/2021 | 11:48 AM | 23.47 | 23.41 | 23.24 | 24.54 | 24.61 | 24.93 | pH sensor broken | | | 6.49 | 6.24 | 6.06 | 87.5 | 83.9 | 82.2 | 1.0 | 2.44 | 22.7 | | 54 | 2 | | | | | | | 0 | 4 | 4 | 6 | 0 | w | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 17 | 9/13/2021 | | | | | | | | | | | | | | | | too shallow | | | | | | | | | | | | | | | | | | | | | | es | pj | pj | clear surface conditions |
| Site 17 | 9/21/2021 | 12:12 PM | 23.08 | 23.05 | 22.97 | 24.8 | 24.77 | 24.93 | pH sensor broken | | | 7.60 | 7.69 | 7.69 | 100.8 | 101.8 | 101.6 | 0.8 | 2.29 | 22.2 | | 24 | <1 | | | | | | | 0 | 4 | 5 | 6 | 2 | E | 7.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 17 | 10/4/2021 | 8:38 AM | 20.61 | 20.62 | 20.61 | 24.67 | 24.7 | 24.71 | pH sensor broken | | | 6.81 | 6.67 | 6.65 | 87.3 | 85.3 | 85.4 | 0.7 | 2.24 | 20.0 | | | | | | | | | | <1 | 4 | 5 | 6 | 4 | ENE | 5.0 | 4 | 0.5 | es | pj | pj | clear surface conditions |
| Site 17 | 10/11/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | | | | | | | | | | fb | pj | pj | |
| Site 17 | 10/18/2021 | 11:35 AM | 17.82 | 17.79 | 17.81 | 25.19 | 25.25 | 25.23 | pH sensor broken | | | 7.99 | 7.57 | 7.38 | 97.8 | 92.4 | 90.6 | 1.1 | 1.91 | 12.7 | | 38 | 4 | | | | | | | 1 | 2 | 5 | 6 | 4 | VNW | 15.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 17 | 10/25/2021 | **too shallow** | | | | | | **too shallow** | | | | | | **too shallow** | | | | | | | | | | | | | | | | 1 | | | | | | | | | es | pj | pj | |
| Site 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 18, Mill Neck Cove**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | 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 DIRECTION | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 18 | 4/19/2021 | 7:53 AM | 10.97 | 11.00 | 10.96 | 26.00 | 26.12 | 26.00 | 8.12 | 8.13 | 8.13 | 9.83 | 9.98 | 10.06 | 105.8 | 107 | 107.7 | 0.9 | 2.03 | 12.3 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NE | 1.3 | 1 | 0.0 | nh | pj | pj | clear surface conditions, common tern sighting |
| Site 18 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 18 | 5/3/2021 | 7:42 AM | 12.76 | 12.76 | 12.76 | 25.68 | 25.64 | 25.65 | 7.86 | 7.88 | 7.89 | 8.24 | 8.22 | 8.21 | 91.6 | 91.4 | 91.4 | 1.7 | 2.72 | 15.1 | | <1 | 1 | | | | | | | 0 | 1 | 5 | 6 | 4 | W | 0.9 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 5/10/2021 | 11:50 AM | 13.58 | 13.37 | 13.05 | 25.48 | 25.44 | 25.57 | 7.9 | 7.91 | 7.92 | 8.58 | 8.56 | 8.62 | 96.9 | 96.6 | 96.6 | 2.4 | 3.16 | 25.1 | | 1 | 1 | | | | | | | 2 | 1 | 5 | 6 | 3 | W | 2.1 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 5/17/2021 | 7:43 AM | 15.71 | 15.73 | **too sha** | 26 | 26.1 | **too sha** | 7.76 | 7.77 | **too shallow** | 8.07 | 7.94 | **too shall** | 94.3 | 92.9 | **too shallow** | | 1.54 | 17.5 | | 3 | 2 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 1.4 | 1 | 0.0 | nh | pj | pj | clear surface conditions, Secchi hit bottom before disappearing |
| Site 18 | 5/24/2021 | 11:52 AM | 18.54 | 18.53 | 18.54 | 26.05 | 26.03 | 26.13 | 7.84 | 7.84 | 7.86 | 8.03 | 8.00 | 7.87 | 99.3 | 98.8 | 97.3 | 1.3 | 2.77 | 21.7 | | 2 | <1 | | | | | | | 0 | 1 | 5 | 6 | 4 | S | 1.2 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 6/1/2021 | 8:24 AM | 15.12 | 15.10 | 15.08 | 25.18 | 25.36 | 25.3 | 7.73 | 7.74 | 7.75 | 7.87 | 7.76 | 7.76 | 90.4 | 89.2 | 89.2 | 1.5 | 1.90 | 18.3 | | 9 | 4 | | | | | | | 0 | 2 | 5 | 6 | 4 | SW | 0.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 6/7/2021 | 7:50 AM | 20.75 | 20.10 | 20.03 | 25.44 | 25.76 | 25.83 | 7.77 | 7.80 | 7.80 | 7.87 | 7.94 | 7.99 | 101.7 | 101.5 | 102.1 | 1.0 | 2.19 | 23.6 | | 13 | 5 | | | | | | | 0 | 4 | 5 | 6 | 1 | E | 1.1 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT closer to normal range but high for location |
| Site 18 | 6/15/2021 | 8:02 AM | 19.78 | **too sha** | 19.76 | 25.90 | **too sha** | 25.94 | 7.91 | **too sha** | 7.95 | 7.70 | **too shall** | 7.69 | 97.9 | **too shall** | 97.9 | 0.6 | 1.43 | 21.7 | | 49 | 38 | | | | | | | 1 | 2 | 5 | 6 | 4 | W | 1.0 | 3 | 0.0 | nh | pj | pj | clear surafce conditions, water churned up from engine prop stayed in area |
| Site 18 | 6/21/2021 | 7:41 AM | 22.50 | 22.49 | 22.48 | 26.00 | 26.03 | 25.99 | 7.96 | 7.96 | 7.96 | 7.29 | 7.32 | 7.32 | 98.7 | 98.9 | 99.0 | 0.7 | 3.11 | 23.6 | | 30 | 31 | | | | | | | 0 | 4 | 5 | 6 | 2 | S | 2.3 | 2 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 18 | 6/28/2021 | **too shallow, low tide** | | | | | | | | **too shallow, low tide** | | | | | | | | **too shallow, low tide** | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 18 | 7/6/2021 | 7:51 AM | 22.74 | 22.63 | 22.54 | 25.33 | 25.57 | 25.69 | **no pH data, sensor unopera** | | | 6.97 | 6.92 | 7.04 | 93.3 | 93.0 | 94.6 | 0.9 | 2.49 | 24.0 | | 8 | 6 | | | | | | | 0 | 4 | 5 | 6 | 4 | SW | 3.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 7/12/2021 | 10:38 AM | 24.42 | 23.93 | **too sha** | 23.06 | 24.06 | **too sha** | 7.78 | 7.75 | **too shallow** | 7.58 | 7.64 | **too shall** | 103.6 | 103.5 | **too shall** | 0.7 | 1.80 | 26.1 | | 54 | 5 | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 7/19/2021 | 7:42 AM | 25.17 | 25.20 | 25.18 | 25.39 | 25.47 | 25.62 | 7.59 | 7.59 | 7.62 | 5.71 | 5.45 | 5.39 | 79.3 | 76.3 | 75.7 | 0.9 | 3.20 | 21.0 | | 15 | 16 | | | | | | | 0 | 1 | 5 | 6 | 4 | NW | 0.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 7/26/2021 | 10:42 AM | 25.44 | 25.17 | **too sha** | 24.96 | 25.19 | **too sha** | 7.73 | 7.74 | **too shallow** | 6.79 | 6.81 | **too shall** | 95.7 | 95.7 | **too shall** | 1.1 | 1.79 | 26.0 | | 82 | 24 | | | | | | | 2 | 4 | 5 | 6 | 1 | NW | 1.5 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 8/2/2021 | 8:53 AM | 23.7 | 23.72 | 23.73 | 25.39 | 25.41 | 25.44 | **no pH data, sensor unopera** | | | 6.24 | 6.05 | 5.95 | 85.2 | 82.7 | 81.6 | 1.3 | 2.81 | 20.0 | | 1 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | NW | 1.2 | 1 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 18 | 8/9/2021 | 11:06 AM | 23.49 | 23.49 | 23.43 | 25.81 | 25.81 | 25.83 | 7.69 | 7.69 | 7.67 | 6.39 | 6.24 | 6.05 | 86.5 | 84.6 | 82.0 | 1.2 | 2.96 | 23.0 | | 17 | 9 | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 1.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 18 | 8/24/2021 | 10:34 AM | 24.84 | 24.57 | NA | 23.39 | 24.41 | NA | 7.39 | 7.45 | NA | 5.02 | 4.80 | NA | 69.9 | 66.1 | NA | 0.9 | 2.02 | 26.1 | | 43 | 9 | | | | | | | 1 | 4 | 4 | 6 | 0 | w | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 18 | 8/31/2021 | 8:10 AM | 25.33 | 25.32 | 25.35 | 25.52 | 25.53 | 25.59 | pH sensor broken | | | 6.41 | 6.44 | 6.44 | 90.4 | 90.9 | 90.9 | 1.1 | 2.83 | 22.2 | | 12 | 1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 2.0 | 3 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 18 | 9/7/2021 | 10:50 AM | 23.26 | 23.20 | 23.21 | 24.92 | 24.96 | 24.94 | pH sensor broken | | | 6.70 | 6.51 | 6.37 | 90.6 | 89.1 | 86.0 | 1.1 | 3.30 | 21.1 | | 18 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | w | 6.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 18 | 9/13/2021 | 8:34 AM | `23.07 | 23.06 | 23.05 | 24.76 | 24.75 | 24.75 | pH sensor broken | | | 7.36 | 7.39 | 7.40 | 98.5 | 98.9 | 99.0 | 0.8 | 1.84 | 23.8 | | 7 | 1 | | | | | | | 0 | 2 | 4 | 6 | 4 | w | 10.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 18 | 9/21/2021 | 12:31 PM | 23.17 | 23.16 | 23.12 | 25.39 | 25.4 | 25.46 | pH sensor broken | | | 8.01 | 8.18 | 8.27 | 107.4 | 109.5 | 109.8 | 1.1 | 3.55 | 22.2 | | 4 | <1 | | | | | | | 0 | 4 | 5 | 6 | 3 | E | 8.0 | 2 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 18 | 10/4/2021 | 12:14 PM | 20.51 | 20.57 | 20.57 | 24.66 | 25.19 | 25.21 | pH sensor broken | | | 7.22 | 7.08 | 7.02 | 92.3 | 91 | 90.3 | 1.2 | 2.61 | 20.0 | | | | | | | | | | <1 | 4 | 5 | 6 | 4 | E | 6.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 18 | 10/11/2021 | 8:15 AM | 19.01 | 19.03 | too shal | 25.21 | 25.25 | too shal | pH sensor broken | | | 6.91 | 6.82 | too shall | 85.5 | 84.7 | too shall | 1.7 | 1.70 | 16.1 | | | | | | | | | | 1 | 2 | 5 | 6 | 3 | NE | 16.0 | 2 | 1.0 | fb | pj | pj | clear surface conditions |
| Site 18 | 10/18/2021 | 12:05 PM | 18.75 | 18.75 | 18.80 | 25.72 | 25.75 | 25.77 | pH sensor broken | | | 8.17 | 8.00 | 7.90 | 102.0 | 100.0 | 99.0 | 1.6 | 3.17 | 12.7 | | 13 | 2 | | | | | | | 1 | 2 | 5 | 6 | 4 | /NW | 16.0 | 2 | 0.5 | es | pj | pj | clear surface conditions |
| Site 18 | 10/25/2021 | 8:02 AM | 16.18 | too shal | too shal | 25.03 | too shal | too shal | pH sensor broken | | | 7.38 | too shall | too shall | 86.5 | too shall | too shall | bottom | 1.31 | 17.7 | | 22 | >600 | | | | | | | 1 | 2 | 5 | 6 | 4 | SW | 7.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 18 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**Friends of the Bay 2020 Water Quality Data - Site 19, Flowers Oyster Hatchery**

| Site | Date | Time | H20 Temp TOP (0.5m) | H20 Temp 1.0 m | H20 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 | Enterococci | Ammonia (NH3) | Nitrate N O3 | Nitrite (NO2) | Total Kjeldahl Nitrogen (TKN) | Organic Nitrogen | Total Nitrogen (N) | Rainfall in 24 hours | Tidal Stage | Water Color | Surface Condition | Cloud Cover | Wind DIRECTON | Wind SPEED m/s | Weather | Wave Height | Data Entered by | Captain | Sampling Leader | Notes |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Site 19 | 4/19/2021 | 7:45 AM | 10.9 | 10.91 | 10.91 | 26.04 | 26.12 | 26.07 | 8.11 | 8.12 | 8.11 | 10.17 | 10.17 | 10.17 | 108.7 | 108.8 | 108.8 | 1.6 | 4.96 | 11.6 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 1 | NE | 2.2 | 1 | 0.0 | nh | pj | pj | surface water-possible discharge, jellyfish |
| Site 19 | 4/26/2021 | **strong wind and waves** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 19 | 5/3/2021 | 7:30 AM | 12.82 | 12.79 | 12.72 | 25.62 | 25.66 | 25.74 | 8.09 | 8.09 | 8.08 | 8.24 | 8.24 | 8.26 | 91.8 | 91.7 | 91.8 | 1.5 | 4.99 | 14.8 | | <1 | <1 | | | | | | | 0 | 1 | 5 | 6 | 4 | SE | 1.0 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 5/10/2021 | 12:00 PM | 13.18 | 13.35 | 12.84 | 25.53 | 25.52 | 25.86 | 7.90 | 7.91 | 7.92 | 8.57 | 8.60 | 8.67 | 96.6 | 96.9 | 96.9 | 2.2 | 5.23 | 22.3 | | <1 | 2 | | | | | | | 2 | 1 | 5 | 6 | 3 | W | 2.5 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 5/17/2021 | 7:30 AM | 15.8 | 15.77 | 15.69 | 25.90 | 25.98 | 25.96 | 7.82 | 7.81 | 7.77 | 7.98 | 7.97 | 7.92 | 93.4 | 93.2 | 92.6 | 1.6 | 4.27 | 15.2 | | 2 | 1 | | | | | | | 0 | 2 | 5 | 6 | 0 | W | 1.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 5/24/2021 | 7:30 AM | 18.97 | 18.88 | 18.44 | 25.64 | 25.80 | 25.84 | 7.70 | 7.71 | 7.72 | 7.58 | 7.51 | 7.48 | 94.1 | 93.3 | 92.2 | 1.2 | 4.71 | 17.4 | | 15 | 7 | | | | | | | 0 | 4 | 5 | 6 | 4 | NE | 2.4 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 6/1/2021 | 11:40 AM | 16.17 | 15.9 | 15.29 | 24.18 | 24.46 | 24.94 | 7.78 | 7.80 | 7.77 | 8.02 | 8.26 | 8.15 | 94.0 | 95.9 | 93.8 | 1.4 | 3.27 | 28.2 | | 14 | 3 | | | | | | | 0 | 3 | 5 | 6 | 3 | NE | 0.5 | 2 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 6/7/2021 | 7:30 AM | 20.97 | 20.80 | 19.94 | 25.42 | 25.47 | 25.67 | 7.80 | 7.79 | 7.78 | 7.76 | 7.99 | 8.04 | 101.0 | 103.4 | 102.5 | 1.1 | 4.70 | 21.4 | | 33 | 3 | | | | | | | 0 | 4 | 5 | 6 | 1 | W | 2.2 | 1 | 0.0 | nh | pj | pj | clear surface conditions, % SAT closer to normal range but still higher than avg. for location |
| Site 19 | 6/15/2021 | 11:24 AM | 20.43 | 20.24 | 19.80 | 25.74 | 25.98 | 26.23 | 8.01 | 8.02 | 8.04 | 8.90 | 9.02 | 9.18 | 115.2 | 115.3 | 116.9 | 0.9 | 4.20 | 24.4 | | 29 | 2 | | | | | | | 1 | 3 | 5 | 6 | 3 | S | 1.2 | 2 | 0.0 | nh | pi | pi | clear surface conditions, % SAT near top of range at all depths |
| Site 19 | 6/21/2021 | 7:30 AM | 22.83 | 22.67 | 22.46 | 25.76 | 25.92 | 26.02 | 7.82 | 7.87 | 7.91 | 6.76 | 6.70 | 6.84 | 91.7 | 90.5 | 92.7 | 0.7 | 5.40 | 24.7 | | 150 | 64 | | | | | | | 0 | 4 | 5 | 6 | 2 | S | 1.9 | 2 | 0.5 | nh | pi | pi | clear surface conditions |
| Site 19 | 6/28/2021 | 12:00 PM | 25.95 | 25.24 | 23.64 | 25.72 | 26.07 | 26.21 | 7.73 | 7.74 | 7.69 | 7.31 | 7.49 | 7.19 | 103.9 | 104.7 | 97.6 | 0.8 | 3.53 | 31.0 | | 4 | 1 | | | | | | | 0 | 4 | 5 | 6 | 1 | W | 2.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 7/6/2021 | 7:33 AM | 22.99 | 22.99 | 22.76 | 24.72 | 24.76 | 25.48 | **no pH data, sensor unoperative** | | | 6.35 | 6.32 | 6.46 | 85.3 | 85.0 | 86.9 | 0.8 | 5.36 | 23.0 | | 36 | 15 | | | | | | | 0 | 4 | 5 | 6 | 4 | SW | 3.2 | 3 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 19 | 7/12/2021 | 7:35 AM | 24.12 | 24.11 | 23.69 | 22.56 | 22.72 | 24.31 | 7.49 | 7.50 | 7.54 | 6.72 | 6.70 | 6.65 | 90.8 | 90.6 | 89.9 | 0.8 | 3.72 | 23.3 | | 90 | 26 | | | | | | | 1 | 3 | 5 | 6 | 2 | SW | 1.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 7/19/2021 | 7:24 AM | 25.28 | 25.27 | 25.26 | 25.48 | 25.48 | 25.51 | 7.68 | 7.67 | 7.64 | 5.45 | 5.38 | 5.35 | 76.6 | 75.6 | 75.3 | 0.9 | 5.71 | 21.0 | | 24 | 10 | | | | | | | 0 | 1 | 5 | 6 | 4 | NW | 1.5 | 3 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 7/26/2021 | 10:52 AM | 25.40 | 25.42 | 24.78 | 24.77 | 24.95 | 25.37 | 7.76 | 7.75 | 7.68 | 6.65 | 6.97 | 6.86 | 94.2 | 98.7 | 95.2 | 1.2 | 4.65 | 26.0 | | 120 | 25 | | | | | | | 2 | 4 | 5 | 6 | 1 | 0 | 0.0 | 1 | 0.0 | nh | pj | pj | clear surface conditions |
| Site 19 | 8/2/2021 | 12:28 PM | 24.50 | 24.25 | 24.14 | 25.55 | 25.48 | 25.48 | **no pH data, sensor unoperative** | | | 6.81 | 6.85 | 6.82 | 94.9 | 95.1 | 94.1 | 1.2 | 4.05 | 23.9 | | <1 | <1 | | | | | | | 0 | 2 | 5 | 6 | 2 | NW | 4.1 | 2 | 0.5 | nh | pj | pj | clear surface conditions |
| Site 19 | 8/9/2021 | 7:29 AM | 23.42 | 23.48 | 23.50 | 25.18 | 25.29 | 25.61 | 7.62 | 7.60 | 7.60 | 5.69 | 5.23 | 5.07 | 76.2 | 70.6 | 68.8 | 1.2 | 3.59 | 21.0 | | 65 | 52 | | | | | | | 1 | 3 | 5 | 6 | 4 | N | 2.5 | 4 | 0.0 | nh | pi | pi | clear surface conditions |
| Site 19 | 8/24/2021 | sonde out of order, sonde out of order | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | es | pj | pj | clear surface conditions |
| Site 19 | 8/31/2021 | 11:13 AM | 26.05 | 26.01 | 25.46 | 24.88 | 24.94 | 25.64 | pH sensor broken | | | 7.03 | 7.11 | 7.10 | 100.0 | 100.7 | 100.3 | 1.1 | 3.99 | 26.1 | | 16 | <1 | | | | | | | 1 | 2 | 5 | 6 | 4 | NW | 4.0 | 1 | 0.0 | kp | pj | pj | clear surface conditions |
| Site 19 | 9/7/2021 | 12:10 PM | 23.33 | 23.36 | 23.29 | 24.71 | 24.80 | 24.93 | pH sensor broken | | | 6.78 | 6.56 | 6.50 | 91.5 | 88.8 | 88.1 | 1.2 | 6.89 | 23.8 | | 17 | <1 | | | | | | | 0 | 4 | 4 | 6 | 0 | WNW | 8.0 | 1 | 0.0 | es | pj | pj | clear surface conditions |
| Site 19 | 9/13/2021 | 12:25 PM | 23.87 | 23.85 | 23.21 | 24.50 | 24.59 | 24.80 | pH sensor broken | | | 7.69 | 8.32 | 8.19 | 106.7 | 113.4 | 107.4 | 0.7 | 4.60 | 27.1 | | 6 | 1 | | | | | | | 0 | 4 | 5 | 6 | 0 | NW | 10.0 | 1 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 19 | 9/21/2021 | 7:41 AM | 22.77 | 22.91 | 22.96 | 24.73 | 24.97 | 25.13 | pH sensor broken | | | 6.83 | 6.78 | 6.74 | 89.9 | 89.5 | 89.2 | 1.3 | 4.07 | 13.9 | | 20 | 3 | | | | | | | 0 | 4 | 5 | 6 | 0 | E | 5.0 | 1 | 0.0 | fb | pj | pj | clear surface conditions |
| Site 19 | 10/4/2021 | 7:29 AM | 20.64 | 20.65 | 20.60 | 24.76 | 24.84 | 25.09 | pH sensor broken | | | 6.98 | 6.83 | 6.76 | 89.2 | 87.7 | 87.0 | 1.3 | 5.23 | 18.8 | | | | | | | | | | <1 | 4 | 5 | 6 | 4 | E | 5.0 | 3 | 0.5 | es | pj | pj | clear surface conditions |
| Site 19 | 10/11/2021 | 11:36 AM | 19.17 | 19.18 | 19.21 | 25.24 | 25.24 | 25.32 | pH sensor broken | | | 7.23 | 7.17 | 7.17 | 90.0 | 89.6 | 89.5 | 1.5 | 4.59 | 18.8 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | NE | 16.0 | 3 | 0.5 | fb | pj | pj | clear surface conditions |
| Site 19 | 10/18/2021 | 7:27 AM | 17.36 | 17.45 | 17.88 | 24.72 | 24.76 | 25.23 | pH sensor broken | | | 7.84 | 7.18 | 6.88 | 92.6 | 87.1 | 84.3 | 1.2 | 5.15 | 11.1 | | 47 | 26 | | | | | | | 1 | 4 | 5 | 6 | 1 | W | 10.0 | 1 | 0.5 | es | pi | pi | clear surface conditions |
| Site 19 | 10/25/2021 | 11:21 AM | 16.79 | 16.64 | 16.56 | 24.59 | 24.70 | 25.46 | pH sensor broken | | | 7.62 | 7.59 | 7.57 | 90.7 | 90.3 | 90.3 | 1.7 | 4.65 | 21.1 | | | | | | | | | | 1 | 4 | 5 | 6 | 4 | SW | 9.0 | 2 | 0.5 | es | pi | pi | clear surface conditions |
| Site 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Site 19 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

# GENERAL TRIP NOTES

| DATE | SITE | |
|---|---|---|
| 4/19/2021 | 13-19 | water clarity-very green, murky in Mill Neck creek |
| 4/26/2021 | | anchor loop broke left side, winch slipping at rope anchor connection point, notification tag on anchor line, more bumpers and lines |
| 6/1/2021 | | anchor line frayed, may need winch adjustment |
| 6/7/2021 | | anchor line frayed at anchor chain, needs fixing ASAP |
| 6/7/2021 | ALL Locations | Air Temp excessive - data sheets have most locations mid to high 30's (converts to 90's - 100 F) *accuweather.com shows a high of 82 on 6/7 |
| 6/7/2021 | 1-11,13,14 | % SAT either at top of or exceeding range at top and 1m levels, ocassionally bottom (top of range is 120%) |
| 6/7/2021 | 12,16,18,19 | Closer to normal (avg. around 100%) but high for locations compared to other dates this season and time of year |
| 6/7/2021 | 15,17 | No data recorded due to tide being too low and shallow depths |
| 6/7/2021 | ALL Locations | ** % SAT very high and untypical for most locations |
| 6/15/2021 | 9,10,11,19 | % SAT at top of range at (top of range is 120%) |
| 6/15/2021 | 15,16,17 | No data recorded due to tide being too low and shallow depths |
| 6/28/2021 | Inner Cold Spring | dead fish! |
| 6/28/2021 | 7,8, 15-18 | No data recorded due to tide being too low and shallow depths |
| 7/6/2021 | | winch is slipping on rope, pH sensor unoperative |
| 7/12/2021 | | 2 x CO2 canisters for life vests |
| 7/12/2021 | 15-17 | No data recorded due to tide being too low and shallow depths |
| 7/19/2021 | 14 | observed one dead fish, one dead crab |
| 7/19/2021 | 2,15 | Dissolved Oxygen is in the mid-4 mg/l range at the bottom water level at one site in CSH & one site In MNC |
| 7/19/2021 | 17 | Dissolved Oxygen is in the mid-4 mg/l range at all water levels at one site In MNC |
| | | * DO in the 2-4 mg/l range is harmful to marine life |
| 7/26/2021 | | bunker schooling at surface Oyster Bay, mostly Cold Spring Harbor) |
| 8/2/2021 | | pH unreliable, consistently read same value |
| 8/9/2021 | | pH seems to be working, still iffy |
| 8/9/2021 | 1 | DO in hypoxic range at all depths |
| 8/9/2021 | 2 | DO in hypoxic range at all depths |
| 8/9/2021 | 3 | DO in hypoxic range at bottom depth |
| 8/9/2021 | 15 | observed two dead fish |
| 8/9/2021 | | **bacteria levels extremely high after rainfall in previous 24 hrs. Lab sheets have asterisks next to some enterococci. I think some of highest numbers we've seen. I don't know what they symbolize but I have to ask David.** |
| 8/16/2021 | NO SAMPLING | **Engine Troubleshooting** |
| 8/24/2021 | 1,2,5 | DO is in top of hypoxic range at all depths |
| 8/24/2021 | 3,6 | DO is in top of hypoxic range at Btm. Depth |
| 8/24/2021 | 12 | DO is in top of hypoxic range at top and 1m depths |
| 8/24/2021 | 9,18 | No Btm. Depth data recorded due to shallow depths |
| 8/24/2021 | 13-17, 19 | Sonde started malfunctioning at site 13 and thru 17 & 19 |
| 8/31/2021 | 2,15 | DO is in hypoxic range at all depths |
| 8/31/2021 | 17 | DO is in hypoxic range at top and 1m depths; No Btm. Depth data recorded due to shallow depths |
| 9/7/2021 | 2 | DO is at top of hypoxic range at all depths |
| | | pH sensor sent for repair - still being serviced |