GENERAL INFORMATION

Name of beach (if applicable): Date(s) of survey:
Beach ID: Time(s) of survey:
Name of waterbody: Waterbody type:
Sampling station(s)/ID: Surveyor affiliation:
WQX organizational ID: Name(s) of surveyor(s):
Sampling location Latitude: Longitude:
Dates of swim season Start: End:

QUALITY ASSURANCE
Will the data collected use an approved Quality Assurance Project Plan (QAPP)? yes no

PART 1: WEATHER AND GENERAL WATERBODY CONDITIONS

Weather Conditions
Survey the weather using the method of your choice. You may use the National Weather Service as your source.

Air temperature: °C or °F Method for temperature: (check one) □ Liquid-in-glass therm. □ Electronic thermometer
Wind speed: units: Wind gust speed: units: Method for wind speed: (check all that apply) □ Wind vane for direction □ Weather app
Wind direction: Measured or Estimated
Is the wind: (circle one) Onshore or Offshore
Wind speed: units: Wind gust speed: units: Method for wind speed: (check one) □ Rain gauge □ Weather report □ Weather app □ Other (specify):

If you collected wind speed from a local weather station, how far were you from the station: ____ mi or km

How recent was the last rain event: (circle one) 0-24 hrs 24-48 hrs 48-72 hrs 72+ hrs
Rain intensity: (circle one) Misting Light rain Moderate rain Heavy rain Other:
Total measured rainfall: in or cm Distance to the gauge/station when recording rainfall amount: ____ mi or km

Method for rainfall: (check one) □ Rain gauge □ Weather report □ Weather app □ Other (specify):

Sky condition/amount of cloud cover: (circle one) Sunny/No clouds Mostly sunny/1/8 to 2/8 Partly sunny/3/8 to 1/2 Mostly cloudy/5/8 to 7/8 Cloudy/Total coverage
Method for weather conditions: (check one) □ Visual observations □ Weather app □ Other (specify):

Waterbody Conditions

Water flow speed: units:

Method for water flow speed: (check one) □ Stick with fishing reel with water balloon on end □ Ball and tether □ Other: __

Direction from which the wave is coming (e.g., N, SW): How tall are the waves: m or ft

Is the wave height measured or estimated? (circle one) Measured Estimated
Method for measuring wave height: (check one) □ Visual examination of wave height □ Graduated stick and ranging pole □ Other (specify):

Is the stream bank/shoreline eroding? yes no

Width of riparian vegetation on river/stream left (looking downstream) (circle one) none 0-25 ft 25-50 ft 50+ ft Width of riparian vegetation on river/stream right (looking downstream) (circle one) none 0-25 ft 25-50 ft 50+ ft

Add additional comments for general waterbody conditions.
**Aquatic Organism Passage Barrier**

<table>
<thead>
<tr>
<th>What is the outlet drop (e.g., 3.5ft)</th>
<th>Severity of barrier debris, sediment, or rock for the structure with the least amount of debris (None, minor, moderate, severe)</th>
<th>Location (lat/long)</th>
<th>Description</th>
</tr>
</thead>
</table>

*Minor = <10% open area of structure blocked; Moderate = 10-50% open area of structure blocked; Severe = 50% open area structure blocked

Take images to document aquatic organism passage barriers and provide detailed descriptions where possible.

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**PART 2: WATER QUALITY**

**Bacteria**

List bacteria samples collected at the beach. Potential pollution sources, if applicable, can be recorded in Part 4.

<table>
<thead>
<tr>
<th>Sample Point</th>
<th>Sample Number</th>
<th>Location (lat/long)</th>
<th>Date &amp; Time</th>
<th>Parameter (enterococci, E. coli, etc.)</th>
<th>Comments</th>
</tr>
</thead>
</table>

**General Water Quality**

Water temperature: __________ °C or °F  Water color: (circle one) Clear Blue Brown Green Red Other: 

Method for water temperature: (check one) □ Multiprobe □ Electronic meter □ Graduated thermometer □ Report from local radio station □ Report from NOAA weather band radio □ Other: 

Has the water color changed since the last visit? yes no don’t know If yes, take photographs and describe:

Select the best description of the water smell: (circle one) None Septic Algae Sulfur Other: 

How did you measure turbidity? □ Observed: (circle one) Clear Slightly turbid Opaque □ Measured: NTU value: _________ Secchi disc depth: ____________

What method was used to measure the turbidity of the water: (circle one) Simple visual observation Visual test kit Titrimetric test kit Nephelometer/Turbidimeter Other: 

Describe other measurements taken and report values:

Additional water quality observations:

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**PART 3: PEOPLE**

Are there recreators (swimmers, boaters, waders, etc.) present at the beach or waterbody? yes no

Total people in water: _________ + Total people out of water: _________ = Total people at the beach or waterbody: ____

Total number of boats: _________
Report activities observed at the beach or shoreline and in the water. Quantify and take photographs, if possible.

Activity (swimming, fishing, etc.)

Approximate # of people participating

Describe notable activities that could affect water quality (Example: babies in disposable diapers in the water):

Method for numbers of people participating in various activities: (check one) □ Counting by surveyor □ Photos □ Counting by lifeguard □ Turnstiles □ Other: ________________

PART 4: POTENTIAL POLLUTION SOURCES

Identify visible sources of pollutants up to 500 feet from the beach or waterbody boundary. Quantify and photograph sources, if possible.

<table>
<thead>
<tr>
<th>Type of Source</th>
<th>Discharge Source Name</th>
<th>Discharge Source Amount (H, M, L)</th>
<th>Discharge Flow Rate</th>
<th>Discharge Volume</th>
<th>Discharge Source Characteristics</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetland drainage</td>
<td></td>
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<tr>
<td>Outfall/Pipe (stormwater)</td>
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<tr>
<td>Leaking pit latrines/septic</td>
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<tr>
<td>Runoff (impervious surfaces)</td>
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<td></td>
<td></td>
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<tr>
<td>Homeless encampments</td>
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<tr>
<td>Other (specify):</td>
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</tr>
</tbody>
</table>

Did you collect samples and complete the Bacteria Samples section in Part 2? yes no If no, describe why not:

How did you identify the source of discharge? (circle one) Visual observation WWTP notification/report Other: ________________

How did you measure flow/velocity or volume? (circle one) Mechanical flow meter Electric flow meter USGS gauging station WWTP notification/report Orange (float) and stopwatch Other: ________________

Floatables and Debris

Are floatables present in the water? yes no If yes, select the types found: (check all that apply)

- Street litter (e.g., cigarette filters)
- Food-related litter (e.g., packaging/containers)
- Medical items (e.g., syringes)
- Sewage-related (e.g., tampons, condoms)
- Building materials (e.g., wood/siding)
- Fishing-related (e.g., fishing line, nets, lures)
- Household waste (e.g., household trash, plastic bags)
- Tar/Oil (e.g., tar balls)
- Oil/Grease (e.g., oil slick)
- Other: ________________

Method for determining floatables presence: (circle one) Visual observation Cleanup event results Other: ________________

Is there debris or litter present on the beach or shoreline? yes no

Select the amount (%) of debris/litter on the beach or shoreline: (circle one)

- None
- Low (1% - 20%)
- Moderate (21% - 50%)
- High (>50%)

Select the types of debris found? (check all that apply)

- Street litter (e.g., cigarette filters)
- Food-related litter (e.g., packaging/containers)
- Medical items (e.g., syringes)
- Sewage-related (e.g., tampons, condoms)
- Natural debris (e.g., driftwood, algae)
- Building materials (e.g., wood/siding)
- Fishing-related (e.g., fishing line, nets, lures)
- Household waste (e.g., household trash, plastic bags)
- Tar/Oil (e.g., tar balls)
- Oil/Grease (e.g., oil slick)
- Other: ________________

Method for determining debris presence: (circle one) Visual observation Cleanup event results Other: ________________

Algae

Is algae present in the nearshore water, beach and/or shoreline? yes no don't know If present, document with photographs.

Select the amount (%) of algae in nearshore water: (circle one)

- None
- Low (1%–20%)
- Moderate (21%–50%)
- High (>50%)
Select the amount (%) of algae on the beach or shoreline: (circle one)

<table>
<thead>
<tr>
<th>None</th>
<th>Low (1%–20%)</th>
<th>Moderate (21%–50%)</th>
<th>High (&gt; 50%)</th>
</tr>
</thead>
</table>

Method for determining amount and color of algae: (circle one)

- Visual observation
- Other:____________________

Circle the types of algae found: (check all that apply)
- ☐ Periphyton (attached to rocks, stringy)
- ☐ Globular (blobs of floating material)
- ☐ Free floating (no obvious mass of materials)
- ☐ Other:____________________

Algae colors: (circle all that apply)
- Light green
- Bright green
- Dark green
- Yellow
- Brown
- Other:_________

Is the nearshore water discolored? yes no don’t know
If yes, specify the color: (circle all that apply)
- Clear
- Green
- Dark red
- Brown
- Yellowish
- Other:_________

**Harmful Algae Blooms**

Is there presence of harmful algal blooms? yes no don’t know
If yes, photograph and describe:

Method for identifying harmful algal blooms in nearshore water and beach: (circle one)

- Field guide or internet site for taxonomic identification
- Other:____________________

Are there mats or scum in nearshore waters? (circle all that apply)
- Mats-floating
- Foam
- Scum
- None

Are there dead fish or other dead wildlife deaths present with bloom? yes no

Have any illnesses (e.g., itchy throat, cough, gastrointestinal) been reported by local or state health departments? yes no
If yes, describe:

Is algal toxin monitoring conducted? yes no don’t know
If yes, have algal toxins been detected? ____________

Have algal species been identified? yes no don’t know
If yes, specify the species: ______________________

**Presence of Wildlife and Domestic Animals**

Are wildlife and domestic animals present? yes no
If yes, document with photographs.

Are dead birds found on the beach? yes no
If yes, specify the number and species of dead birds.

<table>
<thead>
<tr>
<th>Type</th>
<th>Number</th>
<th>Type</th>
<th>Number</th>
<th>Type</th>
<th>Number</th>
<th>Type</th>
<th>Number</th>
<th>Type</th>
<th>Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Geese</td>
<td></td>
<td>Shorebirds</td>
<td></td>
<td>Pigeons</td>
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</tbody>
</table>

Method for determining presence of wildlife and domestic animals: (circle one)

- Counting using hand-held counter and if necessary, binoculars
- Other (specify):____________________

List the number and species of birds found dead on the beach

<table>
<thead>
<tr>
<th>Type</th>
<th># Dead</th>
<th>Type</th>
<th># Dead</th>
<th>Type</th>
<th># Dead</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common loon</td>
<td></td>
<td>Black-crowned night-heron</td>
<td></td>
<td>Long-tailed ducks</td>
<td></td>
</tr>
<tr>
<td>Herring gulls</td>
<td></td>
<td>Double crested cormorants</td>
<td></td>
<td>Horned grebes</td>
<td></td>
</tr>
<tr>
<td>Ring-billed gulls</td>
<td></td>
<td>White winged scoter</td>
<td></td>
<td>Snowy egrets</td>
<td></td>
</tr>
<tr>
<td>Mallard ducks</td>
<td></td>
<td>Red-necked grebes</td>
<td></td>
<td>Great blue herons</td>
<td></td>
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</tr>
</tbody>
</table>

Method for determining the number of dead birds: (circle one)

- Counting using hand-held counter and if necessary, binoculars
- Other:____________________

Method for identifying dead birds: (circle one)

- Field guide or internet site for taxonomic identification
- Other:____________________

Are dead fish found in the waterbody, on the beach or along the shoreline? yes no
If yes, specify the number of dead fish found on the beach or in/at the waterbody and take photographs:

Method for determining the number of dead fish: (circle one)

- Visual observation
- Other:____________________

Additional comments or observations on pollution sources, algae, or animals. Describe any photos taken.