PART 1: BASIC INF	ORMATION	
Name of beach:		Date(s) of survey:
Beach ID:		Time(s) of survey:
City/County/State:		Name of waterbody:
Sampling station(s)/ID:		Number of routine surveys used:
WQX organizational ID:		Name(s) of surveyor(s):
Surveyor affiliation:		
Sampling location	Latitude:	Longitude:
Dates of swim season	Start:	End:

PART 2: QUALITY ASSURANCE

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

PART 3: DESCRIPTION OF LAND USE IN THE WATERSHED .

Current Land	Use in the V	Vatershe	d				
Туре	Residential	Indu	strial	Commercial	Agricul	tural	Other (specify):
Percentage							
% Impervious							
Development	% Undevelop			cribe:			
Development	% Developed	1:	Desc	cribe:			
How was land use	e measured:						
Beach uses: (circle	all that apply)	wimming	Boating	Fishing	Surfing	Windsu	urfing Diving Other (specify):
Are maps of the b		ached?	yes	no Are	maps of the	e watersh	ned attached? yes no
List maps and the	ir sources:						
Do the maps inclu	ude locations of	of the follo	wing key f	eatures: (circle ye	s/no) We reco	ommend	taking photographs to document structures.
Sample points		yes	no	Describe:			
Weather stations, rai	in/flow gauges	yes	no	Describe:			
Pollutant source	es	yes	no	Describe:			
Boat traffic		yes	no	Describe:			
Marinas		yes	no	Describe:			
Boat dockage		yes	no	Describe:			
Fishing		yes	no	Describe:			
Bathing/swimmi	ing	yes	no	Describe:			
Hydrometric net	twork*	yes	no	Describe:			
Do the maps inclu	ude locations of	of the follow	wing boun	iding structures	(circle yes/no):		
Jetty		yes	no	Describe:			
Groin		yes	no	Describe:			
Seawall/bulkhea	ad	yes	no	Describe:			
Other bounding	structure	yes	no	Describe:			
Sanitary facilitie	S	yes	no	Describe:			
Restaurants/ba	rs	yes	no	Describe:			
Playgrounds		yes	no	Describe:			
Parking lots		yes	no	Describe:			
Shellfish-growin	ig areas	yes	no	Describe:			
Other relevant l		yes	no	Describe:			
*This is a network of	monitoring station	s that collect	data such as	rainfall and stream f	flow		



Erosion/Accretion Me	asurements (as needed)			
Is there erosion/accretion a	t the beach? yes no	Are the high watermark lo	ocation measurements	needed? yes no
High Watermark Location Identification	Fixed Object Description (e.g., tree, building)	GPS Reading	Distance from Fixed Object to High Watermark (ft/m)	Distance between High Watermark Locations (ft/m)
A				A⇔B:
В				B⇔C:
С				C⇔D:
D (optional)				D⇔E:
E (optional)				

Shoreline Hardening and Circulation Control Structures (as needed)

Are there shoreline hardening a	and circulatior	n control structures? yes no If yes, describe below:
Structure	Number	Description or Comment (include linear extent and width)
Jetty		
Groin		
Seawall		
Natural formation		
Pier		
Other (specify):		

Discuss whether shoreline hardening or circulation control structures are likely to affect water quality circulation and thus bacteria concentrations at the beach (include relevant studies and their sources, if available):

Sand/Shell mix

Beach Materials/Sediments

Beach materials that apply or report beach materials/sediment lab analysis conducted below: (check all that apply).

□ Sugar sand □ Fine sand □ Coarse sand

 \Box Wet sand \Box Mucky

□ Rocky

□ Pebbles

□ Shell □ Other (specify): _____

Additional description of beach materials/sediment, if needed:

OR Beach Materials/Sediments Lab Analysis (use a map or photographs to document plot locations)

 Were beach materials/sediments sampled and analyzed?
 yes
 no
 If yes, detail here:

 Name of lab used:
 Date of sample collection:

 Plot ID
 Mean Grain Size Diameter** (mm/in)
 Uniformity Coefficient**
 Description of Plot Location

 Average
 Total number of samples:

**Report results from the lab analysis

Describe the results and conclusion of the sediment analysis and potential effects of the sediment distribution at this beach:



Shellfish Growing Area

Describe any shellfish-growing areas near the beach, including size, distance from the swimming area, condition, issues, and results of any recent shellfish sanitary surveys (include any relevant data or reports and cite sources):

Photos Taken in the	e Beach Are	ea or Su	urrounding Wate	rshed (attach copies of	f photos)	
Image	ate/Time	File Na	me		cription of Photo	
Number		1 10 1 10	(e.g., Land Use, High Watermar	k, Fixed Objects, Pollution S	ources, Tide Pools)
Habitat around the beac	h: (check all that	apply)				
□ Dunes	River/Stre		Urban/Boardwalk	□ Park	□ Other:	
Wetlands	Forest		Protected habitat of	r reserve	g 🛛 Other:	
PART 4: WEATHE			AND PHYSICAL		ICS	
Weather Conditions	6					
		ch) colle	cted over the prior be	each season(s) along wi	th bacteria sampling r	esults. Do the bacteria
				owing? (circle yes/no and incl		
Rainfall	yes	no	Describe:			
Air temperature	yes	no	Describe:			
Water temperature	yes	no	Describe:			
Cloud cover	yes	no	Describe:			
Wind speed	yes	no	Describe:			
Wind direction	yes	no	Describe:			
Other weather condition	on yes	no	Describe:			
Physical Characteri	stics					
Do the bacteria concent	rations at this	beach ap	opear to correlate wi	th any of the following?	circle yes/no and include the	e r value if calculated)
Wave height or intensi	ity yes	no	Describe:			
Tide stage	yes	no	Describe:			
Longshore current	yes	no	Describe:			
Other physical characteris	tics yes	no	Describe:			
Have any statistical anal	lyses been do	ne to cal	culate the degree of	correlation? yes	no If yes, desc	cribe:
Average air temperature	e during beach	season.	°C or °F	Average water tempera	ature during beach sea	ason: °C or °F
Average air temperature	•	1	Spring °C or °F	Summer °C or °F	Fall °C or °F	Winter °C or °F
SEASONS (for beaches open n		•				
Average water temperat			Spring °C or °F	Summer °C or °F	Fall °C or °F	Winter or °F
SPASONS (for beaches open n		-			-	

Average wind speed during beach season (mph or km/h): _____ Average wind direction during beach season:





Marine Annual Sanitary Survey for Recreational Waters

ical weather of	condition (circle one):					Total rainfall (in/cm)
Spring:	Sunny	Mostly Sunny	Partly Cloudy	Mostly Cloudy	Overcast	Rainy	
Summer:	Sunny	Mostly Sunny	Partly Cloudy	Mostly Cloudy	Overcast	Rainy	
Fall:	Sunny	Mostly Sunny	Partly Cloudy	Mostly Cloudy	Overcast	Rainy	
Winter:	Sunny	Mostly Sunny	Partly Cloudy	Mostly Cloudy	Overcast	Rainy	

Average rainfall for all beach seasons (in/cm):

Number of significant rain events during beach season:

What constitutes "significant?" (significant may include intensity and duration; e.g., 1 inch in 6 or fewer hours):

Significant Events: Describe any tropical storms or hurricanes that occurred (dates, magnitude, storm surge height, proximity to beach) and their effects on the beach:

Trend Analysis: Describe any analyses done and any trends or correlations found (add lines if needed to describe in detail):

Winds	
What is the prevailing wind speed (mph or km/hr):	What is the prevailing wind direction:
How does the prevailing wind blow (circle one): from beach to water	from water to beach across beach-sand interface (sideways)
Describe any effects the prevailing winds have on bacteria concer	ntrations at the beach:

Waves

Describe the typical wave conditions during the beach season and how those conditions affect bacteria concentrations:

Tides				
Tidal extent:	Mean hig	gh:		Mean low:
How does tidal flow manifest itself?				
Do the tides create a cross-current?				
Do tidal rivers or streams discharge near t swimming area, and so forth?	the beach?	yes	no	If yes, describe flow, tidal influence, salinity, proximity to

Describe the relationship of tidal flow to known point or nonpoint pollution sources:

Tidal Pools					
Describe the type of tide pools, if found, at this beach:					
Are tide pools common at this beach? yes no	How many pools are typically seen?				
Enter the average size of the tide pool: ft/m	Duration pools remained filled:	units:			
Are samples collected from tide pools? yes no	If yes, describe:				
Do children frequently play in the tide pools? yes no	If yes, describe:				
Longshore and Nearshore Currents					
What is the highest speed of longshore or nearshore cur	rents? (mph or km/hr)				
What is the typical direction of longshore or nearshore cu	Irrents (circle one)? N NE E	SE S	SW	W	NW



Do currents change with tidal phases? yes no Describe:

Do the currents carry effluents from wastewater treatment plants, combined sewer overflows, or other dischargers? yes no

Provide any additional characterization of longshore or nearshore currents, including modeling results if available (cite any relevant reports):

We recommend documenting conditions with photographs wherever possible. Additional comments or observations about weather conditions & physical characteristics:

PART 5: BEACH DIMENSIONS

Beach length or dimensions (indicate Z1, Z2	, and Z3 c	on a map t	for eac	h beach	n area))			 	
Total beach length (ft/m):	Average	beach wid	dth (ave	rage setb	ack, ft/m	ı):			 	
Width Z1 (ft/m):	Width Z2	. (ft/m):				Widt	h Z3 (ft	/m):		
Which direction does the beach face (circle one	e)? N	NE	Е	SE	S	SW	W	NW		

Describe the splash zone at the beach (include sediment makeup, rate of erosion, presence of seaweed wrack):

Description and date of last beach rehabilitation (example: new sand, nourishment, dredging, etc. physical structures will be described in Parts 13 and 14)

Additional comments or observations:

PART 6: PEOPLE (NUMBER OF BEACH USERS)

Is the number of people measured? yes no If yes, describe how beachgoer numbers are calculated (e.g., turnstile, counting at noon, photographs):

Beach Use											
		Number of People Per Day Using the Beach (Daily use)									
Beachgoer Category	Peak Use for the Season	Seasonal Average	Holiday Average	Weekend Average	Weekday Average	Off-Season Average (if applicable)					
Total people in the water											
Total people out of the water											
Total people											
Breakdown of Activities (if activities	were broken down on tl	he Routine-Onsite Sa	initary Survey, summarize	them here)	-						
Activity 1:											
Activity 2:											
Activity 3:											
A ativity 4:											

 Activity 4:

 Activity 5:

 Activity 6:

Frequency of measurements (e.g., daily, weekly, monthly):



Examine people data along with sampling results for the past beach season(s). Look at each sampling point or different area of the beach (light use versus heavy use). Does the number of people appear to correlate with bacteria concentrations at any of these areas? Does the number of people in the water or out of the water correlate with bacteria concentrations? Describe statistical analysis that has been done. (add additional pages as needed, or attach a separate report if available):

We recommend taking photographs and provide descriptions Additional comments or observations:

PART 7: BEACH CLEANING

Description of Cleanup Activities (circle activities that were done, specify frequency and equipment used)

Activity	Frequency	Equipment Used			Activity	Frequency		Equipment Used
Leveling sand				Removi	ng trash			
Removing debris				Other: _				
Trimming or removing vegetation				tempora	t/Maintain a y pathway o open water			
Floatables								
How often are floatabl	es found in	the water? (circle one)	lever	Som	etimes F	requently	Very fr	requently
Describe known sourd	es of floata	bles:						
 □ Medical items (e.g., syringes) □ Sewage-related (e.g., tampons, condoms) 				-	ed (e.g., fishin /aste (e.g., hoi	-		bags)
Debris How often is beach de	ebris/litter fo	ound on the beach? (circle one	.)	Never	Sometimes	s Frea	uently	Very Frequently
Describe known sourc			- /			<u> </u>	,	,
Select all types of deb								

□ Natural debris (e.g driftwood, algae)

- □ Oil/Grease (e.g., oil slick)
- □ Building materials (e.g., wood/siding)

Additional comments or observations:

Other: ____



PART 8: INFORMATION ON SAMPLING LOCATION

Description of Sample Points (include beach water and potential pollution sources and take photos when possible):

Sample Point Name/ID	Location (include lat/long)	Description	Sample Frequency (daily, weekly, monthly)		Tidal Stage during Sample Collection (high, ebb, low, flood, etc)				

Are any of the sample locations near a possible pollution source? yes no If yes, describe:

Description of hydrometric network (note that this is a network of monitoring stations that collect data such as rainfall and stream flow):

Additional comments or observations:

PART 9: WATER QUALITY SAMPLING

Name of laboratory:			Distance to labo	oratory: _		mi/km			
Sample travel time:	minutes	(What is t	he time between sar	nple collect	ion and sam	ple arrival at the	lab?)		
Is there a sampling and analysis plan	? yes	no	Is it adequate?	yes	no	lf no, explai	n		
Are the sampling staff property traine	d on samplin	g techni	ques, equipmer	nt mainte	nance, ar	nd calibration	n procedure	s? yes	no
Algae									
Have algae been observed on the be	ach? yes	no If	f yes, take phote	ographs	to docume	ent algae pre	esence.		
Percent of beach season when macro	oalgae were p	oresent	in significant an	nounts in	the nears	shore water:	(circle one)		
None Low (1	%–20%)		Moderate	(21%–50)%)		High (> 50%	%)	
Percent of beach season where mach	oalgae was p	present	in significant an	nounts or	n the bead	ch: (circle one)			
None Low (1	%–20%)		Moderate	(21%–50)%)		High (> 50%	%)	
Identify 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	f materials)	□ Other:	:						
Algae colors: (circle all that apply) Lig	ht Green	Brigh	t Green [Dark Gre	en	Yellow	Brown	Other:	
Are microalgae commonly found at the	is beach?	yes	no If yes	, describ	e occurre	nces:			

Harmful Algae Blooms

Harmful Algal Bloom Observations (include beach water and potential pollution sources and take photographs to document HABS):							
HABs Date	HABs Duration (in days, weeks, etc.)	HABs Species	Effects				



Were any dangerous aquatic organisms found at the beach? yes no If yes, describe:

Presence of Wildlife and Domestic Animals								
Туре	Degree of Presence (high medium low)	Does this presence appear to correlate with bacterial results? (yes/no)	Do people feed waterfowl? Is there any management of pet waste? Are fecal droppings frequently seen? Are there ways to reduce the presence or effects of these wild and domestic animals?					
Geese								
Gulls								
Shorebirds								
Ducks								
Pigeons								
Turtles								
Dogs								
Horses								
Rodents (specify)								
Other (specify)								

Describe any wildlife management areas near the beach:

Were significant numbers of dead birds found on the beach during beach season?	yes	no
Describe types, numbers found, and possible causes (take photos):		

Were significant numbers of dead fish found on the beach during beach season? yes no Describe types, numbers found, and possible causes (take photos):

Beach Samples Coll	ected					
Sampling collector (job title	, agency):		Sampling frequency (daily, weekly, monthly):			
Sampling time:			Is the sampling time tide-dependent? yes no			
What year did you begin monitoring:			Explain:			
Did you test for: (circle yes/r						
Enterococcus?	yes	no	Analytical method used:			
Escherichia coli?	yes	no	Analytical method used:			
Fecal coliform?	yes	no	Analytical method used:			
Additional bacteria?	yes	no	List names and analytical method used:			
Do you composite any bacteria samples? yes no If yes, explain:						

How do this past season's bacteria results compare to those of previous years?

Do the bacteria results	correlate to	o other parameters	, such as water quality	, weather, flow	, tidal stage,	wind, longshore cur	rents,
people load, or algae?	yes	no					

Describe in detail analyses that were performed on the water quality data (add additional lines/pages as needed or attach separate report):

Did you collect bacteria samples from any potential pollution sources (streams or outfalls?) yes no



Water Quality	/							
Check all that ar	e meas	ured re	aulariv	□ Temperature □ pH	□ Rainfall □ Turbidity	 Conductivity Salinity 	□ TSS □ DO	Other (specify):
Describe where	water q	uality m	neasuremer	nts are taken:				
		•	•	proving, deteriora	•			
	-	-		-		ne bacteria concentra	tions at this b	beach appear to correlate with
		-		ne r value if calculated)				
Temperature	yes	no	Describe:					
рН	yes	no	Describe:					
Rainfall	yes	no	Describe:					
Turbidity	yes	no	Describe:					
Conductivity	yes	no	Describe:					
Salinity	yes	no	Describe:					
DO	yes	no	Describe:					
TSS	yes	no	Describe:					
Other:	yes	no	Describe:					
What factor (from attach a separate rep		, ,	opears to ha	ave the greatest e	ffect on bacteria	a levels in the water?	Describe effe	BCt . (add lines or pages as needed or
Are there any ur If yes, explain:	nusual re	esults s	uch as extr	emely high or low	values detecte	d, or unusual trends?	yes i	no
Are water quality	y annual	l trend o	data attache	ed? yes	no			
Do you sample of	during a	dverse	(e.g., wet-v	veather) condition	s? yes	no		
Additional comm	nents or	observ	ations:					
PART 10: M	ODEL	ING A		IER STUDIES				
Are models bein	ig used?)	yes	no briefly describe th				
Have you tested for stormwater cross-connections in the sanitary sewer? yes no If yes, describe results:								
Have you tested If yes, describe			irces of con	tamination? y	es no			
Have you perfor If yes, describe			eening to is	olate discharge ar	reas during dry	and wet weather?	yes no	
Has microbial so If yes, describe t		-		•	yes no			
Additional comm	nents or	observ	ations:					

PART 11: ADVISORIES/CLOSINGS

List any advisories and closings that occurred, whether bacteria levels were high, and any possible reasons for the advisory or closing or high bacteria level, such as stormwater runoff, sewage spill, or wildlife.

Advisory or Closing (specify one)	Start and End Dates	Length of Advisory or Closing (Days)	Did Bacteria Concentrations Exceed Statistical Threshold Value (STV) or Beach Action Value (BAV)?	Reason for Advisory or Closing or Possible Contributing Factors

Totals for Advisories and Closings

Total number of closings issued:	Total number of days under an advisory:
Total number of advisories issued:	Total number of days beach was closed:

Criteria used to issue advisory or close beach:

Additional comments or observations:

PART 12: POTENTIAL	PART 12: POTENTIAL POLLUTION SOURCES (take photographs to document pollution sources)						
Type of Source	Level of Concern (H, M, L, or NA)	Distance to Beach (mi or km)	Latitude/ Longitude*	Does this source directly affect beach water quality (Y or N)?	Describe how this source might contribute to water pollution and frequency of contribution		
Wastewater discharges							
POTW outfalls							
Overboard discharges							
Other:							
Other:							
Sewage overflows							
Septic systems							
Cesspools							
Stormwater outfalls							
Drains and pipes nearby							
Stream or wetland drainage							
Urban runoff, industrial waste							
Natural outfalls							
CAFOs or AFOs							
Wildlife (general)							
Wildlife (significant areas)							





Marine Annual Sanitary Survey for Recreational Waters

table continued					
Type of Source	Level of Concern (H, M, L, or NA)	Distance to Beach (mi or km)	Latitude/ Longitude*	Does this source directly affect beach water quality (Y or N)?	Describe how this source might contribute to beach pollution and frequency of contribution
Agriculture runoff					
Land application of biosolids and manure					
Marinas/Harbors					
Mooring boats					
Domestic animals					
Unsewered areas					
Erosion-prone areas					
Landfills/Open dumps					
Groundwater seepage					
Bathhouse leakage					
Wetland drainage					
Vacant areas					
Homeless encampment					
Other (specify):					
Other (specify):					
Other (specify):					

*If latitude and longitude are unknown, show the location on the detailed map and describe in the additional comments or observations section below.

Have potential pollution sources identified above been included on the detailed map? yes no If yes, describe:

Given your understanding of the beach, which fecal pollution sources are most likely to affect the levels of bacteria in the water? If you have specific concerns about any of the fecal pollution sources as sources of specific pathogens, please describe.

Has this beach been associated with the following? (check all that apply) □ Cases of swimmer's itch □ Other adverse health outcomes If any are checked above, please describe: Has this beach been associated with the following? (check all that apply) □ Outbreaks of diarrheal diseases □ Other:	□ High incidence of skin infection
Has a TMDL for bacteria been done on this waterbody or on any that discharge to it? If yes, summarize the results and attach report:	yes no
Are there any discharge reports available for dischargers near this beach? yes If yes, attach report or pertinent sections and summarize here, including permit limits for	
Have any sources been remediated or have steps been taken to remediate sources? If yes, describe:	yes no
Additional comments or observations:	

PART 13: DESCRIPTION OF SANITARY FACILITIES

Bathhouses and Bathrooms

Datimouses ai					
Total number of ba	athhouses and po	rtable sanitation units (PSUs) at th	e beach:		
Number or ID	Type (bathhouse or PSU)	Location	Condition (good, fair, poor)	Distance from Waterline (ft/m)	Frequency of Cleaning (Daily, weekly, monthly)

How are the sanitary wastes handled? (check all that apply)
Public sewers
On-site treatment
Septic field
Pump-out
Other:

Detail the number of toilets, showers, sinks, etc., and whether these facilities are adequate to support beach use.

Trash Cans

Total number of trash cans at the beach:

Bin Number or ID	Location	Condition (good, fair, or poor)	Distance from Waterline (ft/m)	Frequency of Emptying (daily, weekly, monthly)

Describe further, including whether number and location of trash cans are adequate to support beach use:

PART 14: DESCRIPTION OF OTHER FACILITIES

List and, if possible, photograph facilities in the beach area, such as marinas, restaurants, bars, playgrounds, parking lots, and dog parks:

Facility Name/Type	Location	Condition (good, fair, poor)	Distance from Beach (ft/m)	What is the sewage disposal method used (if applicable)?	How might this facility contribute to water quality problems?

Are there boat pump-outs nearby? yes no If yes, describe:

Additional comments or observations: