California State law requires Local Health Officers to test waters of public beaches or bays for microbiological contaminants and to inform the public when a beach is under a water contact closure, posted under advisory, or may pose public health risks. The State health standards use fecal indicator bacteria commonly found in human or animal feces that are indicators for other pathogens that could make you sick and may be present in the water. In May 2022, San Diego County became the first Federal and State approved coastal county in the nation to begin using a new droplet digital polymerase chain reaction (ddPCR) testing method that offers more rapid results to inform the public of the water quality conditions within the same day This method looks for bacterial DNA which has proven to be more precise and protective of public health. The following chart compares the previous culture-based testing method with the new ddPCR method. For up-to-date information on beach water quality visit <a href="https://www.sdbeachinfo.com">www.sdbeachinfo.com</a>.

Subject	Previous Culture Based Method	New ddPCR Method
Testing For	Fecal indicator bacteria, which are commonly	Fecal indicator bacteria, which are commonly
	found in human or animal feces and indicators	found in human or animal feces and indicators
	for pathogens that contaminate water and	for pathogens that contaminate water and cause
	cause illness.	illness.
Illness/Disease	gastroenteritis, respiratory disease, fever,	gastroenteritis, respiratory disease, fever,
Risks	rashes, paralysis, meningitis, infections in	rashes, paralysis, meningitis, infections in
	bloodstream, diarrhea.	bloodstream, diarrhea.
Testing Method	Culture water samples to measure the presence	Amplify DNA in water samples to measure fecal
	of live bacteria growth for three types of fecal	indicator bacteria (live or dead bacteria presence
	indicator bacteria, which indicate that other pathogens may be present that can cause	of other pathogens or viruses) which indicate that other pathogens may be present that can
	illness.	cause illness.
Enterococcus	If there are more than 104 bacteria per 100 ml,	If there are more than 1,413 DNA copies of
Contamination	the sample exceeds State health standards and	bacteria per 100 ml, the sample exceeds State
Thresholds (State	actions such as closures or advisories may be	health standards and actions such as closures or
Health Standards)	taken.	advisories may be taken.
		The ddPCR State health standard threshold value
		of 1413 DNA copies of bacteria per 100 ml.
		water is equivalent to the culture State health
Datamaination of	Chata Danidationa developed by CA Danatus at	standard of 104 bacteria per 100 ml. water.
Determination of Contamination	State Regulations developed by CA Department of Public Health.	State Regulations developed by CA Department of Public Health.
Thresholds (State	of Fusile Health.	of Fusite Health.
Health Standards)		
Beach Advisories	Bacterial Exceedance Advisory is issued when	Bacterial Exceedance Advisory is issued when
Issued	ocean or bay water sample results exceed State	ocean or bay water sample results exceed State
Health & Safety	health standards due to high bacteria levels.	health standards due to high bacteria levels.
Code 115875 -		
115915	Example of an advisory: Enterococcus test	Example of an advisory: Enterococcus test results
	results from a beach show 104	from a beach shows 1413 organisms/bacteria
	organisms/bacteria per 100 ml, the sample exceeds State health standards, and an advisory	per 100 ml, the sample exceeds State health standards, and an advisory is issued.
	is issued.	standards, and an davisory is issued.
Beach Closures	Water contact closure is issued in the event of a	Water contact closure is issued in the event of a
Issued	known untreated sewage release adjacent to a	known untreated sewage release adjacent to a
Health & Safety	public beach or a sewage release that is known	public beach or a sewage release that is known
Code 115875 –	to have reached the recreational waters.	to have reached the recreational waters.
115915		
	Example of a closure: A sewage release impacts	Example of a closure: A sewage release impacts
	beach water. Enterococcus test results show 104	beach water. Enterococcus test results show
	organisms/bacteria per 100 ml, the sample	1413 organisms/bacteria per 100 ml, the sample
	exceeds State health standards and a closure is	exceeds State health standards and a closure is
	exceeds State health standards, and a closure is issued.	exceeds State health standards, and a closure is issued.
Timing of Results	issued.	issued.
Timing of Results Testing Frequency	·	•
	issued. 24 hours/next day	issued. 6-10 hours/same day
Testing Frequency	issued. 24 hours/next day	issued. 6-10 hours/same day
Testing Frequency (South County Beach Locations)	issued. 24 hours/next day Daily	issued. 6-10 hours/same day Daily
Testing Frequency (South County Beach Locations) Method	issued. 24 hours/next day	issued. 6-10 hours/same day
Testing Frequency (South County Beach Locations)	issued. 24 hours/next day Daily	issued. 6-10 hours/same day Daily
Testing Frequency (South County Beach Locations) Method	issued.  24 hours/next day  Daily  CA Department of Public Health	issued. 6-10 hours/same day Daily United States Environmental Protection Agency CA Department of Public Health
Testing Frequency (South County Beach Locations) Method Authorization	issued. 24 hours/next day Daily	issued. 6-10 hours/same day Daily United States Environmental Protection Agency