



# Calaveras County

## Environmental Management Agency

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### DISINFECTING PUBLIC SWIMMING POOLS AND SPAS AFTER FECAL, VOMIT, OR BLOOD CONTAMINATION

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<b>Purpose</b>	The purpose of this bulletin is to provide pool operators with recommended procedures and guidelines to follow in the event of an incident involving fecal, vomit, or blood contamination.
<b>Background</b>	Fecal, vomit, and blood contamination in public pools can lead to the transmission of serious illness from microorganisms such as Giardia, Cryptosporidium, E. coli O157:H7 and Shigella. Precautionary measures should be taken to help reduce the risk of illness to pool users.
<b>Minimum Daily Requirements</b>	California Health and Safety Code (CHSC) Section 65529 requires that the free-chlorine in public pools and spas be maintained at or above 2.0 ppm and the pH be maintained between 7.2 and 7.8. Public pools and spas should not be open for use unless the filtration and automatic disinfection equipment is operating. If proper recirculation or disinfection cannot be maintained, the pool or spa should be closed by the pool operator.
<b>Close Pool or Spa</b>	When fecal, vomit, or blood contamination occurs, the pool operator shall instruct all users to exit the pool or spa immediately. Do not allow anyone to enter the contaminated pool or spa until all the following steps are completed.
<b>Disinfection Procedures</b>	<p>The pool operator shall immediately remove as much of the contaminating material as possible using a net or scoop and shall dispose of it in a sanitary manner. After removal, the pool operator shall clean and disinfect all equipment used during this step.</p> <p>If the contamination consists of formed stool, vomit, or blood, the pool operator shall maintain the free-chlorine residual for the pool or spa at 2 ppm or higher and the pH at 7.5 or lower for a period of time not less than 25 minutes.</p> <p>If the contamination consists of diarrhea or a loose stool, the pool operator shall increase the free-chlorine concentration to 20 ppm and maintain the concentration for at least 12.75 hours. If the pool water contains cyanuric acid, the pool operator shall increase the free-chlorine concentration to 40 ppm or higher and reduce the pH to 6.5 or lower for a period of time not less than 30 hours.</p> <p>For fecal accidents involving diarrhea or loose stools, the filter should be thoroughly backwashed to a sanitary sewer. If the pool or spa has a cartridge filter, the cartridges should be replaced.</p>
<b>Documentation</b>	<p>The pool operator shall immediately document all incidents of fecal, vomit, or blood contamination in the pool or spa by recording the following information:</p> <ol style="list-style-type: none"><li>Date and time of incident</li><li>Free-chlorine and pH reading at time of incident</li><li>Free-chlorine and pH reading after completing disinfection procedures</li><li>Free-chlorine and pH reading when reopening the pool or spa</li><li>Formed stool or diarrhea</li><li>Procedures followed in responding to the contamination incident</li><li>Number of pool or spa users at time of incident</li></ol>
<b>Questions</b>	For further information or to report fecal, vomit, or blood contamination at a public swimming pool or spa, please contact EHD at (209) 754-6399.

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