
From: Joab, Christine@Waterboards <Christine.Joab@waterboards.ca.gov>
Sent: Monday, June 06, 2016 3:35 PM
To: Jeff Carruesco [EH]
Cc: Linda Turkatte [EH]; Lisa Medina [EH]; Vidal Pedraza [EH]
Subject: RE: Cyanobacteria in San Joaquin County

Hi Jeff:

Thank you for your response, and for being the point of contact for cyanobacteria concerns in San Joaquin County. I will add your name and contact information to my Contacts roster.

The monitoring that the Department of Water Resources conducts each year from June through October occurs at the same sites in the river, and their frequency of monitoring is about every 2 weeks so they mostly monitor about twice per month. The main purpose of their monitoring is for water quality parameters such as water temp, pH, dissolved oxygen, turbidity, electrical conductivity, turbidity and chlorophyll a. However, they also collect visual observations on cyanobacteria in the water. Their scale of observations are coded as absent, low, medium, high, and very high (see chart below). They do not collect water samples for toxin analyses unless they are performing a special study, and even then when collecting samples it is not the method of sampling that one would collect when assessing risk to human health (i.e., sampling the scum at water's surface and/or shoreline near recreational areas where human exposure may be greatest). However, any available information on the type of toxin and associated concentrations in the water column can be helpful for ascertaining if sampling should occur. I will contact DWR and ask if they have any special study plans and/or plans for collecting water samples for toxin testing this year. I'll share with you any information I receive.

Below is a map of the stations where DWR collects their samples. As I mentioned they take water quality measurements at the same sites during each monitoring run. Most of the stations correspond to the channel marker lights as indicated below in the figure. Their monitoring run starts near Light 57 at Prisoners Point and moves upstream to the Port of Stockton's Turning Basin. During their run on June 2, they spotted low widely scattered colonies of Microcystis at all except the Turning Basin.

Scale for rating visual observations in the Channel:

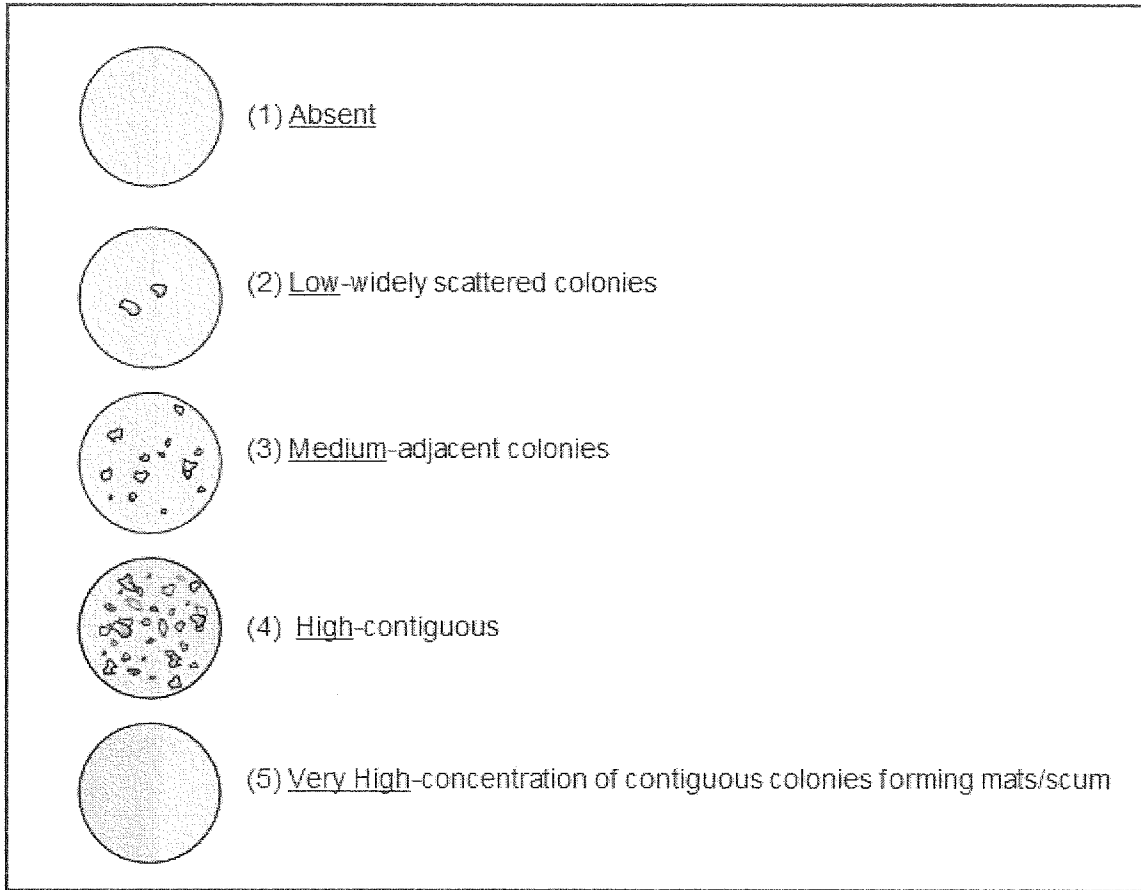
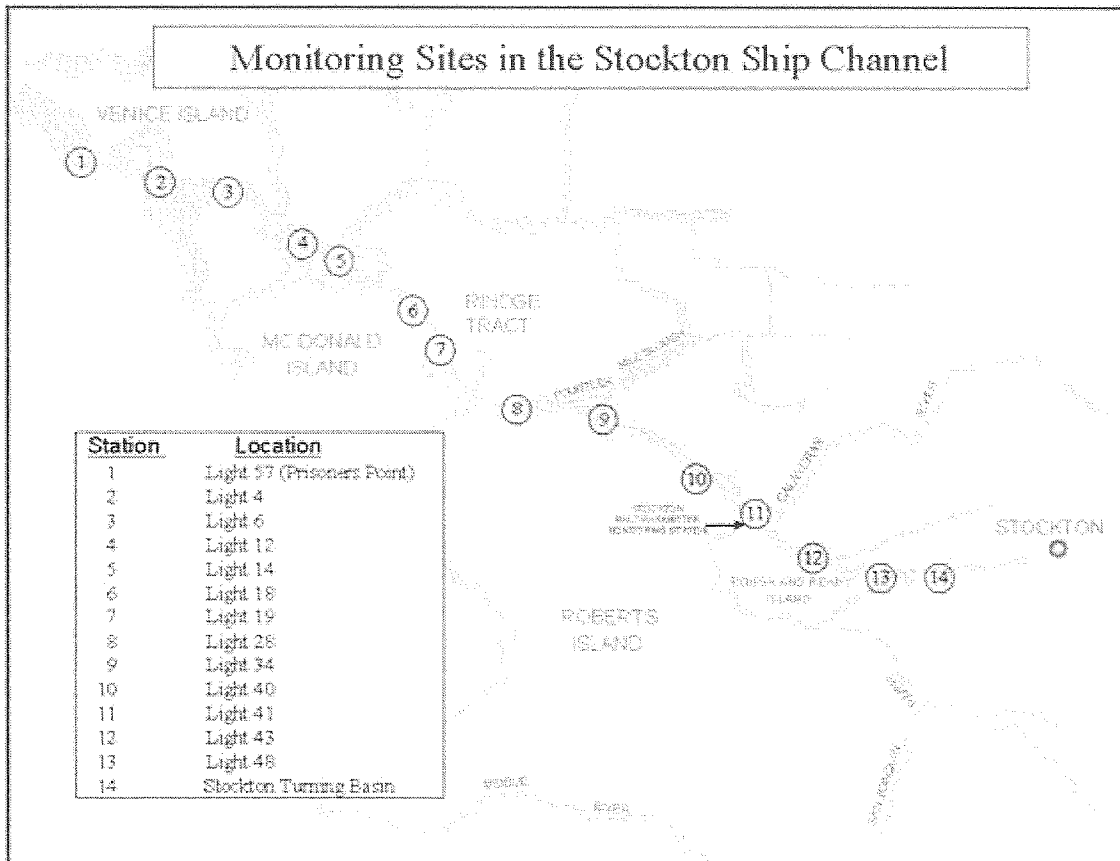


Figure showing DWR's monitoring sites in the Channel:



Please let me know if I can provide any further information.
Thanks.

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