From: Chamberlain, Charles < charles_chamberlain@fws.gov>

Sent: Monday, April 22, 2019 4:11 PM **To:** Sarah Gallagher - NOAA Federal

Cc: Provins, Samuel

Subject: Re: [EXTERNAL] Water temperature data at the confluence of Clear Creek

Hi Sarah,

The file is big for email. I uploaded it here where you can access it. https://fileshare.fws.gov/?linkid=KZi4zr6VWWV3rSHev3Gdlb+q8k2BmHq/8YDODS6ncAGbVD1eicsuEg

Talk to you soon

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On Wed, Apr 17, 2019 at 4:16 PM Sarah Gallagher - NOAA Federal < <u>sarah.gallagher@noaa.gov</u>> wrote: Hi Sam and Charlie,

I am interested in describing water temperatures that migrating steelhead are experiencing when they enter Clear Creek mid-Aug and Sept. I have passage data and water temps at CCVS, but think temperatures are heavily influenced by Sac river temps in 2014 and 2015. Could I get the water temp data excel for the Confluence site for comparison?

Sometime in the near future I'd like to discuss a couple ideas that I have for summarizing Clear Creek water temperature data. I'm tyring to find the appropriate ways describe temperature exposure and effects to fish, and compare it to what may occur under future operations. I don't have time to work on this for what I am currently doing; but sometime soon. I'm sure have some suggestions and have already done some work on this. Also interested on you perspective on the Santa Cruz draft temperature paper.

Thanks for all the summaries you have provided to date, been very helpful.

Sarah Gallagher | Fish Biologist

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