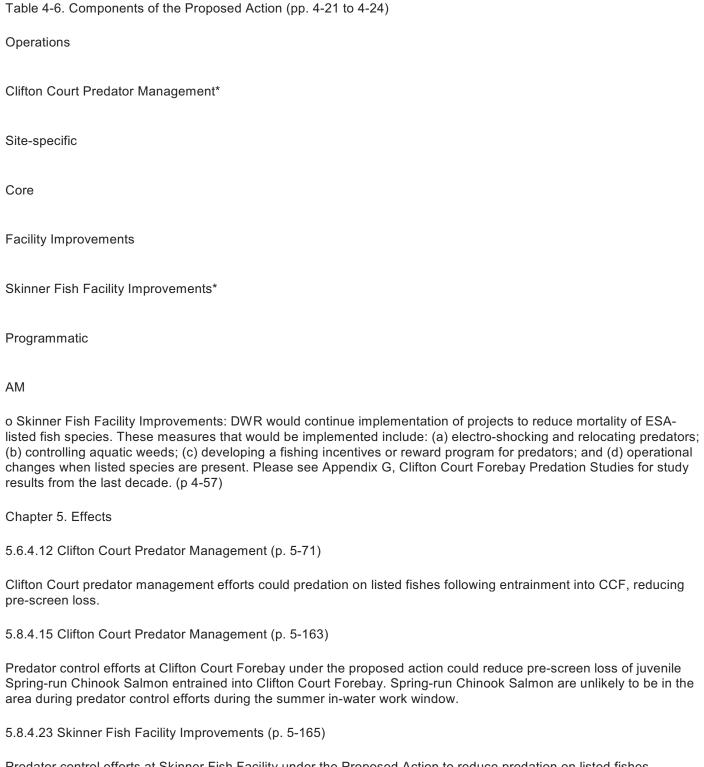
From: J. Stuart - NOAA Federal < j.stuart@noaa.gov> Sent: Tuesday, February 26, 2019 10:52 AM To: Garwin Yip - NOAA Federal **Subject:** Re: CCF Predator Management in ROC BA Attachments: Directed Questions for CCFB Predation.docx Here is a quick set of directed questions for today's call at 11 am On Tue, Feb 26, 2019 at 10:21 AM <garwin.yip@noaa.gov> wrote: Do we have targeted questions for this meeting? One question I have for clarification is how much of the proposed action is from the RPA and ongoing efforts, and how much have changed, so we better understand the details of the proposal. We should make sure to give DWR plenty of time (which isn't much given only 1 hour for the meeting) to describe their proposed action and effects analyses. **CCF Predator Management in ROC BA** Meeting purpose: Provide clarification on DWR's Clifton Court Forebay Predator Management actions in the ROC on LTO Biological Assessment. NMFS has requested details on DWR's CCF Predator Management actions as part of their review of the ROC on LTO BA. The BA excerpts below indicate how the "Clifton Court Predator Management" (Site-specific) actions are currently covered in the BA, along with excerpts for "Skinner Fish Facility Improvements" (Programmatic). The focus of the discussion will be providing details on the Clifton Court Predator Management (Site-specific) action. --> Join Skype Meeting Trouble Joining? Try Skype Web App Join by phone Toll number: +1 (916) 573-2034,,86293360# (Dial-in Number) English (United States) Find a local number Conference ID: 86293360 Forgot your dial-in PIN? |Help [https://data.cnra.ca.gov/img/cnra_logo_sm.png] Welcome to the California Natural Resources Agency and affiliated organizations online meeting system. Enjoy your meeting. [!OC([1033])!]

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Chapter 4. Proposed Action



Predator control efforts at Skinner Fish Facility under the Proposed Action to reduce predation on listed fishes following entrainment into Clifton Court Forebay could reduce pre-screen loss of juvenile Spring-run Chinook Salmon entrained into Clifton Court Forebay. Spring-run Chinook Salmon are unlikely to be in the area during predator control efforts.

5.10.4.14 Clifton Court Predator Management (p. 5-222)

Clifton Court predator management under the proposed action could reduce pre-screen loss of juvenile CV Steelhead entrained into CCF; therefore, providing a benefit for all life stages of CV Steelhead.

5.12.4.10 Clifton Court Predator Management (p. 5-283)

Predator control efforts under the proposed action can reduce predation on listed fish species, following their entrainment into Clifton Court Forebay. This could also reduce pre-screen loss of juvenile southern DPS Green Sturgeon. It is unknown what proportion of juvenile Green Sturgeon are entrained into CCF but individuals are salvaged infrequently.

5.12.4.17 Skinner Fish Facility Improvements (p. 5-285)

Skinner Fish Facility improvements under the proposed action, which involve predator control efforts, can reduce predation on listed fish species, following their entrainment into Clifton Court Forebay. This could also reduce prescreen loss of juvenile southern DPS Green Sturgeon. It is unknown what proportion of juvenile Green Sturgeon are entrained into CCF but individuals are salvaged infrequently. Thus, the proposed action is not likely to negatively impact juvenile Green Sturgeon.

5.14.5.5.14 Clifton Court Predator Management (p. 5-364)

Predator control efforts in Clifton Court Forebay under the proposed action could reduce pre-screen loss of juvenile Fall-run Chinook Salmon entrained into Clifton Court Forebay. Larger proportions of Late Fall-run Chinook Salmon are lost at the facilities and this action would have a larger beneficial effect for this run.

5.14.5.5.22 Skinner Fish Facility Improvements (p. 5-366)

Skinner fish facility improvements from predator control efforts to reduce predation following entrainment into Clifton Court Forebay could reduce pre-screen loss of Fall-run/Late Fall-run juvenile Chinook Salmon entrained into Clifton Cout Forebay. However, only small proportions of Fall-run Chinook Salmon are lost at the SWP (Zeug and Cavallo 2014). Larger proportions of Late Fall-run Chinook Salmon are lost at the facilities and this action would have a larger effect for this run.

5.16.4.3 Clifton Court Predator Removal (p. 5-423)

Predator control efforts under the proposed action to reduce predation on listed fishes following entrainment into Clifton Court Forebay could reduce salvage-related loss of adult Delta Smelt. Entrainment risk under the proposed action would be managed to limit the potential for adult Delta Smelt to occur in the south Delta and be entrained. Depending on the gear type of Clifton Court predator control efforts, predator control efforts may also catch Delta Smelt (that would likely have been salvaged or lost).

5.16.4.3.1 Eggs and Larvae to Juveniles (March - June)

Depending on the geartype of Clifton Court predator control efforts, predator control efforts under the proposed action may also catch Delta Smelt that would likely have been salvaged or lost.

5.16.4.10 Skinner Fish Facility Operations and Improvements (p. 5-433 to 5-434)

5.16.4.10.1 Adults to Eggs and Larvae (December - May)

Skinner fish facility improvements from predator control efforts under the proposed action to reduce predation on listed fishes following entrainment into CCF could reduce salvage-related loss of adult Delta Smelt. However, entrainment risk under the proposed action would be managed to limit the potential for adult Delta Smelt to occur in the south Delta and be entrained. Depending on the gear type of Clifton Court predator control efforts, predator control efforts may also catch Delta Smelt that would likely have been salvaged or lost).

5.16.4.10.2 Eggs and Larvae to Juveniles (March - June)

Larval Delta Smelt are unlikely to be salvaged and therefore the Skinner Fish Facility improvements under the proposed action would have no effects on this life stage. Depending on the gear type of Clifton Court predator control efforts, predator control efforts may also catch Delta Smelt that would likely have been salvaged or lost.

5.16.4.10.3 Juveniles to Subadults (June-September); Subadults to Adults (September - December)

Juvenile and subadult Delta Smelt do not occur in the south Delta (Figure 5.16-1) and therefore there would be no effects from Skinner Fish Facility improvements under the proposed action on this life stage. Depending on the gear type of Clifton Court predator control efforts, predator control efforts may also catch Delta Smelt that would likely have been salvaged or lost.

Appendix A. Facility Descriptions

A.5.3.1.2.2 Clifton Court Forebay Predation Studies (p. A-104)

DWR has conducted the following studies on predation at Clifton Court Forebay:

· Clifton Court Forebay Predation Study Project Report (DWR 2

When Tue Feb 26, 2019 11am - 12pm Pacific Time - Los Angeles

Where DWR 335 - Meeting Room (map)

Who

- Wilkinson, Chris@DWR organizer
- garwin.yip@noaa.gov creator
- Katherine Sun
- · Kristin Begun NOAA Affiliate
- Katrina Harrison (kharrison@usbr.gov)
- · Reeve, Matthew@DWR
- · Brumbaugh, Steven@DWR
- Affonso, Jana @FWS
- · Halston, Armin A
- Clark, Kevin@DWR
- · J. Stuart
- · Jacobs, Brooke@Wildlife
- Pacheco, Victor@CDCR optional
- Bradley, Mark@DWR optional
- Padilla, Roger (Rogelio)@DWR optional

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