# 1 1D.1.4 California Water Impact Network

From: Carolee Krieger < caroleekrieger 7@gmail.com>

Date: Tue, Sep 22, 2015 at 7:45 PM

Subject: FW: C-WIN request a time extension for the comment period for the Coordinated Long-Term

Operation of the CVP & SWP

To: benelson@usbr.gov

To Mr. Ben Nelson:

CWIN 1

The California Water Impact Network (C-WIN) requests that the Bureau extend the comment period 30 days for the Coordinated Long-Term Operation of the Central Valley Project and State Water Project Draft Environmental Impact Statement. This is a complicated topic and with the concurrent comment period on the DEIS/EIR for the California Water Fix (formerly BDCP), additional time to review this project is needed. An additional 30 days would be tremendously helpful for the public.

The DEIS is a court requirement because the Bureau of Reclamation hasn't analyzed direct, indirect and cumulative impacts from CVP and SWP operations while implementing the 2008 Fish and Wildlife Service Biological Opinion and a 2009 National Marine Fisheries Service BO.

Thank you.

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# 3 1D.1.4.1 Responses to Comments from California Water Impact Network

- 4 **CWIN 1:** At the time the request for extension of the public review period was
- 5 submitted, the Amended Judgement dated September 30, 2014 issued by the
- 6 United States District Court for the Eastern District of California (District Court)
- 7 in the Consolidated Delta Smelt Cases required Reclamation to issue a Record of
- 8 Decision by no later than December 1, 2015. Due to this requirement,
- 9 Reclamation did not have sufficient time to extend the public review period. On
- 10 October 9, 2015, the District Court granted a very short time extension to address
- 11 comments received during the public review period, and requires Reclamation to
- issue a Record of Decision on or before January 12, 2016. This current court
- 13 ordered schedule does not provide sufficient time for Reclamation to extend
- 14 public review period.

# 1 1D.1.5 California Water Impact Network and California Sportfishing Protection Alliance





September 29, 2015

Ben Nelson U.S. Bureau of Reclamation Bay-Delta Office 801 I Street, Suite 140 Sacramento, CA 95814 bcnelson@usbr.gov

Via e-mail

RE: Comments on Draft Environmental Impact Statement for Coordinated Long Term Operation of the Central Valley Project and State Water Project

Dear Mr. Nelson:

The California Sportfishing Protection Alliance (CSPA) and the California Water Impact Network (CWIN) respectfully submit comments on the U.S. Bureau of Reclamation's (Reclamation or BOR) Draft Environmental Impact Statement (DEIS) for Coordinated Long Term Operation of the Central Valley Project (CVP) and State Water Project (SWP).

CWIN CSPA 1

We attach and incorporate into these comments Attachment A, titled Complaint: Against SWRCB, USBR and DWR for Violations of Bay-Delta Plan, D-1641 Bay-Delta Plan Requirements, Clean Water Act, Endangered Species Act, Public Trust Doctrine and California Constitution, and Attachment B, titled COMPLAINT; Against the SWRCB and USBR for Violations of Central Valley Basin Plan, WR Order 90-05, Clean Water Act, Endangered Species Act, Public Trust Doctrine and California Constitution. We also incorporate by reference the comments of AquAlliance on this DEIS.

CWIN CSPA 2

#### I. Overview

The Executive Summary of the DEIS describes part of the background of the DEIS in this way:

CWIN CSPA 3

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The Appellate Court confirmed the District Court ruling that Reclamation must conduct a NEPA review to determine whether the acceptance and implementation of the RPA actions cause a significant effect to the human environment.<sup>1</sup>

CWIN CSPA 3 continued

Chapter 2 of the DEIS further describes the background of the DEIS, stating in part:

As described in Chapter 1, Introduction, the U.S. Fish and Wildlife Service (USFWS) and the National Marine Fisheries Service (NMFS) concluded in their 2008 and 2009 Biological Opinions (BOs), respectively, that coordinated long-term operation of the CVP and SWP, as described in the 2008 Reclamation Biological Assessment, jeopardizes the continued existences of listed species and adversely modifies critical habitat. To remedy this, USFWS and NMFS provided Reasonable and Prudent Alternatives (RPAs) in their BOs.

The U.S. Court of Appeals for the Ninth Circuit confirmed the U.S. District Court for the Eastern District of California ruling that Reclamation must conduct a NEPA review to determine whether the RPA actions cause a significant impact on the human environment. Potential modifications to the coordinated operation of the CVP and SWP analyzed in the EIS process should be consistent with the intended purpose of the action, be within the scope of Reclamation's legal authority and jurisdiction, be economically and technologically feasible, and avoid the likelihood of jeopardizing listed species or resulting in the destruction or adverse modification of critical habitat in compliance with the requirements of Section 7(a)(2) of the Endangered Species Act.<sup>2</sup>

The remand thus set up the requirement for a NEPA analysis of whether implementation of the RPA's would cause a significant impact on the human environment. However, since the Ninth Circuit also upheld the RPA's as necessary under the Endangered Species Act to protect listed species and their critical habitats, simply eliminating part of an RPA is not an option unless equally protective or more protective measures are substituted (and analyzed). Thus, while the "Alternative Basis of Comparison" helps to demonstrate the relative effects (largely related to socioeconomic and water supply issues) of implementing the RPA's, it cannot stand as a viable alternative under NEPA on its own, because NMFS and USFWS have stated in their BiOps, and the Ninth District Court of Appeals has upheld them, that without the RPA's the operation of the SWP and the CVP jeopardize listed species and/or adversely affect their critical habitat.

An RPA is a measure required under the Endangered Species Act to limit the effects of a federal action so that the action does not cause jeopardy or adversely affect critical habitat. The DEIS does not recommend a preferred alternative.<sup>3</sup> Thus it appears that BOR may incorporate in its Record of Decision any combination of the elements analyzed in any of the DEIS's NEPA alternatives. This highly unusual approach under NEPA makes it very difficult to comment on the DEIS. It is particularly difficult to provide comments that address whether effects of ultimate modifications to any of the RPA's taken under the Action will cause jeopardy or adversely affect critical habitat.

CWIN CSPA

DEIS, p. ES-6.

<sup>&</sup>lt;sup>2</sup> DEIS, p. 2-2.

<sup>&</sup>lt;sup>3</sup> See DEIS, p. 1-9.

Below, we maintain that some elements that are analyzed under project alternatives would, on their face, cause jeopardy or adversely affect critical habitat. We also argue that in aggregate baseline conditions (the No Action Alternative) are already doing so. However, an additional round of analysis by BOR in a recirculated DEIS or in an FEIS will be needed in order to evaluate whether the any modifications to RPA's that BOR ultimately proposes, considered in aggregate, comply with the requirements of the ESA. No such analysis is present in the DEIS.

**CWIN CSPA** 

In any case, the DEIS does not specify significant impacts or specific mitigations for such impacts insofar as the DEIS concerns reduced water supply that might be attributable to the RPA's. Instead, the DEIS assumes that urban water supplies will be met by paying relatively nominal increased costs and that increased use of groundwater will replace agricultural supplies lost because of the implementation of the RPA's.

**CSPA** 

In short, there is no compelling argument in the DEIS that the RPA's in whole or part are not "economically or technologically feasible."

Nonetheless, the DEIS describes several alternatives that could be substituted for the parts of the RPA's. The apparent assumption is that actions proposed under these alternatives, including elimination of certain elements of the RPA's and substitution of alternative elements, would meet the requirements of the ESA and would have added benefits that might make them preferable.

**CWIN CSPA** 

Alternative 1 would eliminate RPA actions that would not otherwise occur without the RPA's, and revert to operations and flow requirements that existed prior to issuance of the BiOps. However, it would retain non-operational RPA requirements that have already been implemented or are in the process of being implemented.

Alternative 2 would eliminate a series of physical measures included in the RPA's, including fish passage at CVP dams, temperature improvements at CVP dams on the American River, actions to reduce entrainment at CVP and SWP export facilities, and others.

Alternative 3 would eliminate RPA actions that would not otherwise occur without the RPA's. It would weaken Old and Middle River (OMR) export restrictions from the present restrictions in the BiOps, implement a suite of actions on the Stanislaus River that substantially reduce flow requirements, and eliminate the use of Stanislaus River flow releases to meet D-1641 water quality and pulse flow requirements. It would establish a "predator control

See DEIS p. 3-32.

<sup>&</sup>lt;sup>4</sup> See e.g. DEIS p. 19-57: average annual increased cost of M&I water supplies to Southern California is \$34 Million. See also p. 19-49: average increased regional loss of San Joaquin Valley revenue in Dry and Critical Dry years is \$34.4 Million.
<sup>5</sup> In what appears to be an incomplete analysis, the DEIS also does not analyze whether reduced levels of

groundwater, particularly on the west side of the San Joaquin Valley, are attributable to the Action and must be mitigated. See DEIS pp. 7-140 and 7-141. We would argue that the impacts arise not from the Action (the RPA's), but from excessive cultivation without a reliable water supply, a baseline condition. However, the DEIS does not state the basis for which it declines to consider whether groundwater impacts to the San Joaquin Valley are attributable to the action or whether they are potentially significant.

program," trap and haul a portion of salmonid outmigrants in the San Joaquin River from March through June, and reduce ocean harvest of salmon.

continued

Alternative 4 would eliminate RPA actions that would not otherwise occur without the RPA's. It would limit development in floodplains, replace levee riprap with vegetation, establish a "predator control program," trap and haul a portion of salmonid outmigrants in the San Joaquin River from March through June, and reduce ocean harvest of salmon.

Alternative 5 would implement the RPA's and additionally require positive OMR flows in April and May. It would also require April and May pulse flows from the Stanislaus River, whose volume would be determined by water year type and the location of X2.

- II. The DEIS fails to present a reasonable range of alternatives.
  - A. None of the alternatives analyzed in the DEIS, including the No Action Alternative, are sufficient to avoid jeopardy to Delta smelt and listed salmonids or to protect other public trust fishery resources consistent with applicable law.
    - 1. The DEIS and RPAs ignore the recent condition of pelagic and salmonid species.

Since 1967, the California Department of Fish and Wildlife's (DFW) Fall Midwater Trawl abundance indices for striped bass, Delta smelt, longfin smelt, American shad, splittail and threadfin shad have declined by 99.7, 97.8, 99.9, 91.9, 98.5 and 97.8 percent, respectively. Abundance indices of these species have continued to decline despite the existence of RPA's.

**CWIN CSPA** 

For example, between 2008 and 2014, DFW's 2014 Fall Midwater Trawl abundance index of Delta smelt declined by 60.7 percent, and the 2014 index was the lowest in in the fortyeight year history of the trawl. The 2015 20mm Survey Delta smelt abundance index declined 89.7 percent since 2008 and was the lowest in the twenty-one year history of the survey. The 2015 Spring Kodiak Trawl abundance index for Delta smelt declined 42.7 percent since 2008 and was the lowest in the thirteen-year history of the trawl. 10 The 2015 Summer Townet Delta smelt abundance index was 0.0 (100 percent decline), the lowest in the fifty-six year history of the survey. 11 Survey results for Delta smelt led U.C. Davis fisheries professor Peter Moyle to warn state officials to prepare for the extinction of Delta smelt.12

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<sup>&</sup>lt;sup>7</sup> See DEIS Table 3.5, p. 3-42.

<sup>8</sup> http://www.dfg.ca.gov/delta/projects.asp?ProjectID=FMWT

See Bibliography: <a href="https://www.wildlife.ca.gov/Conservation/Delta/20mm-Survey.">https://www.wildlife.ca.gov/Conservation/Delta/20mm-Survey.</a>
 See Bibliography: <a href="https://www.wildlife.ca.gov/Conservation/Delta/Spring-Kodiak-Trawl.">https://www.wildlife.ca.gov/Conservation/Delta/Spring-Kodiak-Trawl.</a>

<sup>11</sup> See Bibliography: https://www.wildlife.ca.gov/Conservation/Delta/Townet-Survey.

<sup>12</sup> http://www.capradio.org/44478,

http://californiawaterblog.com/2015/03/18/prepare-for-extinction-of-delta-smelt/,

http://news.nationalgeographic.com/2015/04/150403-smelt-california-bay-delta-extinction-endangered-speciesdrought-fish/

Other species may be in equal or worse shape. The 2014 Fall Midwater Trawl abundance index of longfin smelt declined by 88.5 percent since 2008. <sup>13</sup>

CWIN CSPA 8 continued

The USFWS Anadromous Fisheries Restoration Program (AFRP) documents that, since 1967, in-river natural production of Sacramento winter-run Chinook salmon and spring-run Chinook salmon have declined by 98.2 and 99.3 percent, respectively, and are only at 5.5 and 1.2 percent, respectively, of doubling levels mandated by the Central Valley Project Improvement Act, California Water Code and California Fish & Game Code. 14

The 2013 brood years of Sacramento River winter-run, spring-run and fall-run Chinook salmon were seriously impacted by excessive temperatures in the Sacramento River below Keswick Reservoir. In 2014, lethal temperatures below Keswick led to the loss of 95% of winter-run, 98% of fall-run and virtually all of the spring-run 2014 year classes. Daily average and daily maximum temperatures during critical spawning, incubation and alevin life stages at the Above-Clear-Creek-Compliance-Point during May, June and July 2015 significantly exceeded temperatures of the corresponding months of 2014. The loss of a third brood year would likely jeopardize the continued existence of these species.

The DEIS ignores the continuing decline of pelagic and salmonid species following construction of the SWP and the accelerating decline in recent years despite the BOs. This continuing decline of fisheries jeopardizes the existence of species already on the brink of extinction. The failure to acknowledge and analyze the continuing decline of fisheries and impending extinction of one or more species, despite the RPAs, renders the DEIS deficient as a NEPA document.

The DEIS and RPAs fail to account for the SWRCB's pattern and practice of serially weakening fish and wildlife and water quality standards, with the concurrence of USFWS and NMFS.

The State Water Resource Control Board's (SWRCB) San Francisco/Sacramento-San Joaquin Delta Estuary (Bay-Delta Plan) and the Central Valley Regional Water Quality Control Board's (Regional Board) Water Quality Control Plan for the Sacramento River and San Joaquin River Basins (Basin Plan) are issued pursuant to requirements of the federal Water Pollution

CWIN CSPA 9

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<sup>&</sup>lt;sup>13</sup> The USFWS has found that longfin smelt, as a candidate species, warrants protection under the Endangered Species Act but the Service is precluded from adding the species at the present time because of a lack of resources and the extensive list of other species warranting listing. <a href="http://www.fws.gov/sfbaydelta/species/longfin\_smelt.cfm">http://www.fws.gov/sfbaydelta/species/longfin\_smelt.cfm</a>
<sup>14</sup> See <a href="http://www.fws.gov/lodi/afrp/">http://www.fws.gov/sfbaydelta/species/longfin\_smelt.cfm</a>

State Water Resource Control Board, Order Conditionally Approving a Petition for Temporary Urgency Changes in License and Permit Terms and Conditions Requiring Compliance with Delta Water Quality Objectives in Response to Drought Conditions, 3 July 2015, pp. 15,16:

http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/docs/tucp/2015/tucp\_order070315.pdf
And

NRDC, TBI, Drought Operations Will Cause Additional Unreasonable Impacts on Fish and Wildlife in 2015, 20 May 2015, slide 2:

http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/docs/workshops/nrdc\_tbi\_pres.pdf. 16http://cdec.water.ca.gov/cgi-progs/staMeta?station\_id=ccr, and

CSPA, presentation before the State Water Resource Control Board 25 June 2015 Workshop, slides 4-7: <a href="http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/docs/workshops/062415cspa\_pres.pdf">http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/docs/workshops/062415cspa\_pres.pdf</a>

Control Act (Clean Water Act). The SWRCB's D-1641 and Water Rights Orders 90-05, 91-01, 91-03 and 92-02 implement the Bay-Delta Plan and Basin Plan as terms and conditions in Reclamation's CVP. The BO's and RPA's are predicated on compliance with Delta water quality and flow criteria and Sacramento River temperature criteria contained in the SWRCB's D-1641 and WR Orders.

CWIN CSPA 9 continued

However, the SWRCB has succumbed to a pattern and practice of waiving (i.e., weakening) water quality, flow and temperature criteria whenever requested. Over the last two years, the SWRCB has weakened water quality, flow and/or temperature criteria some 35 times. <sup>17</sup> In 2014, the SWRCB reduced regulatory Delta outflow by 43% and increased Delta exports by 18%. In 2015, the SWRCB reduced regulatory outflow by 78% in order to increase exports by 32%. These changes shifted more than one million acre-feet of water from fisheries protection to agricultural and urban use. <sup>18</sup>

D-1641 Table 1, 2 and 3 water quality standards have been routinely exceeded. For example, salinity standards protecting south Delta agricultural beneficial uses have been exceeded thousands of days since 2006, and there were over 400 exceedances at Vernalis, Brandt Bridge, Old River Near Middle River, and Old River Near Tracy in calendar year 2015 alone. Delta outflow standards protecting fish and wildlife and agriculture, Vernalis flow standards protecting salmon and steelhead, and Collinsville salinity standards protecting Delta smelt habitat were exceeded numerous times in 2015, as were the Emmaton, Threemile Slough and Jersey Point salinity standards protecting agricultural beneficial uses. The narrative salmon protection doubling standard has been violated every day since D-1641 became operative.

This pattern and practice of weakening critical Delta flow and water quality standards has replicated itself over decades. For example, between 1988 and 1991, Bay-Delta standards were violated 246 times. The SWRCB's refusal to enforce Bay-Delta water quality and flow standards is more fully described in Attachment A titled Complaint: Against SWRCB, USBR and DWR for Violations of Bay-Delta Plan, D-1641 Bay-Delta Plan Requirements, Clean Water Act, Endangered Species Act, Public Trust Doctrine and California Constitution and incorporated into these comments.

As previously noted and described more fully in Attachment B titled COMPLAINT; Against the SWRCB and USBR for Violations of Central Valley Basin Plan, WR Order 90-05, Clean Water Act, Endangered Species Act, Public Trust Doctrine and California Constitution, the Regional Board established temperature criteria in the Sacramento River, pursuant to the CWA, and the SWRCB implemented the temperature criteria in Reclamation's permits and licenses in WR Order 90-05. In doing so, the SWRCB implemented temperature criteria based on average daily temperatures without determining whether average daily temperatures were protective of aquatic life. As discussed at length in pages 19-23 of Attachment B, a 56°F daily

<sup>17</sup> Pubic Policy Institute of California, What if California's Drought Continues? August 2015, page 7: http://www.ppic.org/content/pubs/report/R\_815EHR.pdf and the Technical Appendix at page 6: http://www.ppic.org/content/pubs/other/815EHR appendix.pdf

18 SURCE at 65 and 61 2005 2005 2005

<sup>&</sup>lt;sup>18</sup> SWRCB, staff presentation at the 20 May 2015 public workshop on drought activities in the Bay-Delta: <a href="http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/docs/workshops/swrcb\_staff\_pres\_session1b.pdf">http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/docs/workshops/swrcb\_staff\_pres\_session1b.pdf</a>

average temperature criterion is not protective of Chinook salmon spawning, egg incubation and fry emergence. 19

CWIN CSPA 9 continued

Additionally, the SWRCB exempted almost 43% of identified fish spawning habitat from temperature requirements. The SWRCB then ignored the Basin Plan's Controllable Factors Policy and its own admonition to Reclamation that water necessary to meet water quality criteria was not available for delivery. When the National Marine Fisheries Service (NMFS) listed winter-run Chinook salmon as threatened under the ESA, the SWRCB inexplicably relocated the temperature compliance point further upstream to Bend Bridge, eliminating another 15 miles of spawning habitat.

Over the next 23 years, the SWRCB participated in back-room temperature management group meetings that recommended ever-changing temperature compliance points for winter-run Chinook salmon, based upon the quantities of water BOR had remaining in storage after deliveries to its water contractors. The SWRCB subsequently approved the recommendations of the temperature management group of which it is a participating member. These approvals generally relocated temperature compliance points further and further upstream, often eliminating as much as 90% or more of spawning habitat protected by the Basin Plan. For example, Clear Creek has been the designated temperature compliance point over the last two years, which has compressed spawning into the upper 10 miles of the Sacramento River downstream of Keswick Reservoir and led to superimposition of redds and conflict with other species.

Despite these yearly concessions, BOR has violated temperature criteria in nearly every year. In 2015, the SWRCB approved Reclamation's request to increase the temperature compliance requirement from a daily average of 56°F to 58°F. This despite the fact that the NMFS pointed out that an increase to 58°F would result in adverse impacts to incubating winterrun eggs and alevin in redds and that 58°F was identified in the scientific literature as lethal to incubating salmon eggs and emerging fry. In the subsequent concurrence letter, NMFS noted that "these conditions could have been largely prevented through upgrades in monitoring and modeling and reduced Keswick releases in April and May" but concurred because "the plan provides a reasonable possibility that there will be some juvenile winter-run survival this year." However, this is an unacceptable and illegal standard of compliance with the BO and ESA.

Drought cannot be employed as an excuse for ignoring or weakening promulgated water quality standards. Drought is normal in California's Mediterranean climate. According to DWR, there have been 10 multi-year drought sequences of large-scale extent in the last 100 years, spanning 41 years. Below normal years occur more than half the time. Agencies cannot

<sup>&</sup>lt;sup>19</sup> The U.S. Environmental Protection Agency, the states of Washington, Oregon and Idaho, both North Coast and Central Valley Regional Water Quality Control Boards, NMFS, DFW, the Pacific Fishery Management Council and the majority of the scientific literature have either adopted or recommended more restrictive temperature criteria based upon a daily maximum and/or a seven-day mean of daily maximums.

NMFS, Contingency Plan for Water Year 2015 Pursuant to Reasonable and Prudent Alternative Action I.2.3.C of the 2009 Coordinated Long-term Operation of the Central Valley Project and State Water Project Biological Opinion, Including a Revised Sacramento River Water Temperature Management Plan, p. 9. Emphasis added.

be surprised, be unprepared for, or claim emergency exemptions for something that occurs more than 40% of the time.

CWIN CSPA 9 continued

However, Reclamation and DWR have continued to maximize water deliveries in the initial years of drought sequences and failed to maintain sufficient carryover storage to protect fisheries, water quality and public trust resources. The pattern and practice of delivering near normal water supplies in the early years of drought, depleting carryover storage and then relying on the SWRCB to weaken water quality standards has been extensively discussed and documented in previous CSPA presentations, protests, objections and complaints before the SWRCB. As Reclamation is aware, CSPA and CWIN have filed a lawsuit in federal court regarding Reclamation's failure to comply with the Clean Water Act and filed a lawsuit in state court against the SWRCB's de facto weakening of CWA water quality standards. We incorporate by reference the allegations contained in those amended complaints into these comments. <sup>22</sup>

CWIN CSPA 10

The continuing exceedances of water quality and flow criteria jeopardize the continued existence of species. Yet the DEIS fails to acknowledge, discuss or analyze the pattern and practice of serially weakening legally promulgated water quality and flow standards established to protect fish and water quality. It further fails to incorporate the serial failure to comply with water quality and flow standards in its modeling and assessment of the project's ability to deliver water and evaluation of alternatives. Consequently, the DEIS is deficient as a NEPA document.

#### The RPAs have failed to protect fisheries and other public trust resources.

The continuing decline of fisheries, degraded water quality, and serial exceedance of water quality and flow criteria are both a track record and report card of the RPA's. Their existence and implementation has failed to protect fisheries and has brought several species to the brink of extinction. Any weakening or elimination of the RPA's would only exacerbate an already unacceptable situation.

CWIN CSPA 11

The DEIS must candidly acknowledge, discuss and analyze the failure of the RPA's to protect fisheries, water quality and public trust resources. Failure to do so would render the DEIS deficient as a NEPA document.

The DEIS makes no showing that Alternatives 1-4 are as protective as D-1641 with the RPA's.

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The DEIS makes no showing that any of the alternatives, including the No Action alternative, meets the purpose and need of the proposed action, including most specifically the need to conform to the requirements of the ESA and to other applicable law that protects public

CWIN CSPA 12

<sup>&</sup>lt;sup>21</sup> See CSPA workshop presentations, protests and objections of Temporary Urgency Change Petitions and complaints over the last two years at the SWRCB's State Water Project and Central Valley Project Temporary Urgency Change Petition website,

http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/tucp/index.shtml

http://calsport.org/news/

trust resources. It also makes no showing that any of the elements proposed in the alternatives will productive positive benefits for fisheries and other public trust resources.

CWIN CSPA 12 continued

#### a. Alternative 1

Alternative 1 would eliminate the RPA's except those elements that would otherwise be implemented pursuant to voluntary actions or other regulatory requirements.

CWIN CSPA 13

#### i. Fall pulse flows

Alternative 1 would eliminate fall attraction pulse flows in the Stanislaus River for fallrun Chinook, a proven, effective and cost-efficient measure to stimulate upstream migration and reduce straying. While consultants for irrigation districts on the Stanislaus have discerned no correlation between fall pulse flows and upstream migration in that river, pulse flows on the Mokelumne have been extremely effective in reducing straying and have shown clear correlation to upstream migration. (Figures 1 and 2).

Adaptively Managing - Impacts of

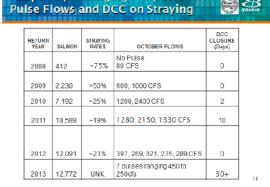


Figure 1: Effects of pulse flows on straying rates and adult migration in the Mokelumne River 2008-2013.<sup>23</sup>

<sup>&</sup>lt;sup>23</sup> East Bay Municipal Utility District staff presentation to MokeWISE stakeholder group, April, 2014.

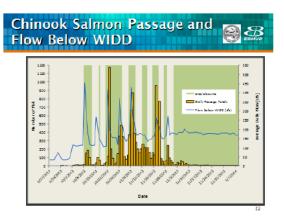


Figure 2: Relation of 2013 pulse flows and upstream migration of Mokelumne fall-run Chinook past Woodbridge Dam.2

More specific to the San Joaquin tributaries including the Stanislaus, Carl Mesick of the U.S. Fish and Wildlife Service found in 2001: "migration rates of adult salmon are substantially higher when Vernalis flows exceed about 3,000 cfs and total exports are less than 100% of Vernalis flows."

The Bureau of Reclamation, recognizing the value and importance of fall pulse flows, ordered them for the Stanislaus in 2014 even in the face of severe drought conditions, and appears prepared to do so again in even worse storage conditions in 2015.

#### ii. Spring flows and pulse flows

Alternative 1 would also reduce spring flows in the Stanislaus River and eliminate spring pulse flows in the San Joaquin River sourced in the Stanislaus. High spring flows and pulse flows in the San Joaquin River at Vernalis are clearly and strongly correlated to successful outmigration of juvenile salmon.

The California Department of Fish and Game (now Department of Fish and Wildlife,) identified spring pulses in the San Joaquin River needed to double salmon in the San Joaquin river system in Exhibit 3 of its submittals in the State Water Resources Control Board's 2010 Delta Flow Criteria proceeding (Figure 3).

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**CWIN** 

**CSPA** 13 continued

<sup>&</sup>lt;sup>24</sup> Id.
<sup>25</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>26</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>26</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>27</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>28</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>29</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Flows and Delta Export Rates During October on the Number of*<sup>30</sup> Carl Mesick, *The Effects of San Joaquin River Rates During October Delta Export Rates During October Delt* 

**CWIN** 

CSPA 13 continued

Table 10 South Delta (Vernalis) Flows Needed to Double Smolt Production at Chipps Island (by Water Year Type)

Froduction at Chipps Island (by Water Teal Type)								
	Water Year Type							
Flow Type	Critical	Dry	Below Normal	Above Normal	Wet			
Base (cfs)	1,500	2,125	2,258	4,339	6,315			
Pulse (cfs)	5,500	4,875	6,242	5,661	8,685			
Pulse Duration	31	40	50	60	70			
Total Flow (cfs)	7,000	7,000	8,500	10,000	15,000			
Acre-Feet Total	614.885	778,772	1.035.573	1,474,111	2,370,768			

Figure 3: DFW recommendations for spring pulse flows at Vernalis<sup>26</sup>

Swanson et al made similar findings and recommendations in the submittal of the Bay Institute ("Delta Inflows," Exhibit TBI-3) to the Delta Flow Criteria proceeding, showing a positive correlation between spring flows and salmon abundance and between a declining rate of escapement and spring flows at Vernalis of less than 5000 cfs. Numerous documents by Carl Mesick (U.S. Fish and Wildlife Service and on behalf of CSPA) similarly stress the importance of high spring flows in various tributaries of the San Joaquin.

Staff of the State Water Resources Control Board, in its 2010 Delta Flow Criteria Report, concluded:

Following are the San Joaquin River inflow criteria based on analysis of the species specific flow criteria and other measures:

- 1) San Joaquin River at Vernalis: 60% of 14-day average unimpaired flow from February through June
- San Joaquin River at Vernalis: 10 day minimum pulse of 3,600 cfs in late October
- ... San Joaquin River inflow criterion 1 and 2 are Category A criteria because they are supported by sufficiently robust scientific information.<sup>29</sup>

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<sup>&</sup>lt;sup>26</sup> California Department of Fish and Game, Flows Needed in the Delta to Restore Anadromous Salmonid Passage from the San Joaquin River at Vernalis to Chipps Island, 2010, p. 35.

http://www.waterboards.ca.gov/waterrights/water\_issues/programs/bay\_delta/deltaflow/docs/exhibits/dfg/dfg\_exh3.pdf

pdf <sup>27</sup> Swanson et al., Exhibit TBI-3: Delta Inflows, SWRCB Public Trust Flow Criteria Proceedings, February 16, 2010, p. 16, p. 23.

 $<sup>\</sup>frac{\text{http://www.waterboards.ca.gov/waterrights/water issues/programs/bay delta/deltaflow/docs/exhibits/bay inst/tbi e \\ \frac{\text{xh3.pdf}}{\text{charge}}$ 

<sup>28</sup> See, for example, Carl Mesick, 2009, The High Risk of Extinction for the Natural Fall-Run Chinook Salmon Population in the Lower Tuolumne River due to Insufficient Instream Flow Releases
<a href="http://www.waterboards.ca.gov/waterrights/water\_issues/programs/bay\_delta/deltaflow/docs/exhibits/cspa/cspa\_exh\_14.pdf">http://www.waterboards.ca.gov/waterrights/water\_issues/programs/bay\_delta/deltaflow/docs/exhibits/cspa/cspa\_exh\_14.pdf</a>

Carl Mesick, 2010, The High Risk of Extinction for the Natural Fall-Run Chinook Salmon Population in the Lower Merced River due to Insufficient Instream Flow Releases.

<a href="http://calsport.org/doc-library/pdfs/57.pdf">http://calsport.org/doc-library/pdfs/57.pdf</a>

State Water Resources Control Board, Development of Flow Criteria for the Sacramento-San Joaquin Delta

<sup>&</sup>lt;sup>29</sup> State Water Resources Control Board, Development of Flow Criteria for the Sacramento-San Joaquin Delta Ecosystem; Prepared Pursuant to the Sacramento-San Joaquin Delta Reform Act of 2009, August 3, 2010, p. 119.

The Delta Flow Criteria Report further summarized existing information:

Available scientific information indicates that average March through June flows of 5,000 cfs on the San Joaquin River at Vernalis represent a flow threshold at which survival of juveniles and subsequent adult abundance is substantially improved for fall-run Chinook salmon and that average flows of 10,000 cfs during this period may provide conditions necessary to achieve doubling of San Joaquin basin fall-run. Both the AFRP and DFG flow recommendations to achieve doubling also seem to support these general levels of flow, though the time periods are somewhat different (AFRP is for February through May and DFG is for March 15 through June 15). 30

State Water Board staff also emphasized: "it is important to preserve the general attributes of the natural hydrograph to which the various salmon runs adapted to over time, including variations in flows and continuity of flows." <sup>31</sup>

The flow regime for the Stanislaus River required in NMFS's RPA's contains a significant degree of weekly and monthly variability, although less variability than the percent-of-unimpaired approach recommended by State Water Board staff would require. Alternative 1 would revert the Stanislaus to significantly lower spring flows than RPA flows, with far less variability. Alternative 1 would reduce March-June flows in the Stanislaus River by up to 52.9% in all years and by 59.6% in Dry and Critical Dry years. Overall, this flow reduction would substantially reduce the frequency and duration of floodplain inundation

#### iii. Restrictions on reverse flows in Old and Middle rivers (OMR)

Alternative 1 would eliminate OMR protections in the RPA's, allowing greater exports at state and federal facilities in the south Delta. The DEIS claims that this would increase exports up to about 1 million acre-feet per year.<sup>33</sup>

The RPA's require limits on net negative tidal flows in Old and Middle Rivers in the South Delta to protect listed winter-run and spring-run Chinook salmon, steelhead, and Delta smelt. Old and Middle River net flows are closely related to total south Delta exports. The OMR limits are not restrictive to higher exports when San Joaquin River Delta inflows are high and provide more positive net OMR. OMR limits allow restrictions on exports when Sacramento River Delta inflows are high and San Joaquin River flows are low. Without OMR limits, exports have been very high (pre-2009) when Sacramento River flows were high. High OMR reverse flows and exports can draw salmon and smelt into the central and south Delta in the winter-spring period during high Sacramento River flows. <sup>34</sup> Under the RPA's, the presence

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continued

<sup>&</sup>lt;sup>30</sup> Id.

<sup>&</sup>lt;sup>31</sup> Id., p. 120

<sup>32</sup> DEIS, p. 5-239.

<sup>&</sup>lt;sup>33</sup> DEIS, p. 5-253. See Section IV of these comments below for discussion of why this figure may be overstated.
<sup>34</sup> The Delta Cross Channel is closed during most of the winter-spring period, and under such conditions Sacramento River flows contribute minimally to lower San Joaquin River and OMR flows. San Joaquin salmon and steelhead smolts that enter the Delta via Georgiana and Threemile sloughs, and smelt living in or moving into the central Delta are at risk to south Delta exports during the winter-spring period. Their presence in the central Delta or export

of listed species can trigger OMR restrictions to -5000 cfs or less negative. Whichever BO RPA is the most restrictive governs operations at any given time. The RPA's prescribe an elaborate review process and triggering criteria for a Smelt Working Group (SWG<sup>35</sup>) and Delta Salmon and Steelhead Group (DOSS<sup>36</sup>) to make operations recommendations to Water Operations Management Team (WOMT), which may or may not adopt recommendations.

CWIN CSPA 13 continued

Old and Middle River (OMR) flow management (Actions IV.2 and IV.3) is prescribed for the period January 1 to June 15 in the NMFS BO RPA. The RPA describes the purpose of these requirements as follows: "Control the net negative flows toward the export pumps in Old and Middle rivers to reduce the likelihood that fish will be diverted from the San Joaquin or Sacramento River into the southern or central Delta. ... Curtail exports when protected fish are observed near the export facilities to reduce mortality from entrainment and salvage." <sup>37</sup>

The USFWS's BO prescribes similar measures to protect smelt:

The objective of Component 1 is to reduce entrainment of pre-spawning adult delta smelt during December to March by controlling OMR flows during vulnerable periods. 38

... The objective [of Component 2] is to improve flow conditions in the Central and South Delta so that larval and juvenile delta smelt can successfully rear in the Central Delta and move downstream when appropriate.<sup>39</sup>

The RPA's provide essential protection in the winter-spring period by limiting exports and reducing losses of salmon, steelhead, sturgeon, and smelt that would otherwise be drawn to the south Delta export pumps under the D-1641 65% export/inflow limit in December-January and 35% export/inflow limit February-June. The restrictions reduce entrainment of listed species into the central and south Delta in both dry and wet years, especially in December-January period. Even in drought years like winter-spring 2014-2015, OMR restrictions in winter reduced potential exports. Lack of prescriptions for December under the NMFS RPA did allow high negative OMR flows and exports. However, concerns for adult smelt led to voluntary reductions in exports and OMR negative flows in mid-December 2014 that subsequently were maintained through the winter.

Prior to the RPA's' OMR restrictions, salmon and smelt protections were generally limited to "take limits" in the form of salvage counts, and water quality standards that included export limits, Delta outflow requirements, and agricultural salinity standards in state water quality standards (D-1641). When these standards proved ineffective in protecting the listed salmon and smelt <sup>40</sup>, the new biological opinions were issued, which added the OMR restrictions as well as other non-flow actions to preserve the species.

salvage can trigger OMR restrictions that otherwise would not occur under the regular D-1641 export/inflow restrictions.

<sup>35</sup> http://www.fws.gov/sfbaydelta/cvp-swp/smelt working group.cfm

<sup>36</sup> http://www.westcoast.fisheries.noaa.gov/central\_valley/water\_operations/doss.html

<sup>37</sup> NMFS OCAP BO, p. 630.

<sup>38</sup> FWS OCAP BO, p. 280.

<sup>&</sup>lt;sup>39</sup> Id., p. 282.

<sup>&</sup>lt;sup>40</sup> Take limits proved irrelevant as populations dropped to new low levels.

In recent drought years, the OMR restrictions in the RPA's have been more important than ever because D-1641 water quality standards have been weakened by the State Water Board, with the consent of NMFS and USFWS.

CWIN CSPA 13 continued

A better level of protection than the RPA's would be a combination of stricter OMR restrictions and substantially improved Delta outflow and salinity standards that further limit risks to salmon and smelt.

#### iv. Non-flow measures that Alternative 1 would eliminate

Alternative 2 is specifically constructed to evaluate elimination of the major non-flow measures of the RPA's. These measures would also be eliminated by Alternative 1. For purposes of document organization, we analyze the consequences of eliminating the major non-flow measures of the RPA's in analyzing Alternative 2.<sup>41</sup>

#### b. Alternative 2

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Alternative 2 would eliminate the major non-flow elements of the RPA's except those elements that would otherwise be implemented pursuant to voluntary actions or other regulatory requirements, and also eliminate floodplain inundation flows on the Stanislaus River.

That said, it is extremely difficult to discern exactly which actions from the RPA's Alternative 2 (or overlapping actions from Alternative 1) would eliminate and which ones would remain. The DEIS should have listed the eliminated and retained actions specifically. The DEIS should also have described how any actions could be eliminated and still meet protection requirements of the ESA and other legal requirements to protect public trust resources. Absent this, the lack of clarity does not support the requirement that NEPA analysis support informed decision-making.

As we understand it, Alternative 2 would eliminate the following actions from the NMFS and USFWS RPS's:

- 2009 NMFS BO RPA Action I.2.5, Winter-Run Passage and Re-Introduction Program at Shasta Dam.
- 2009 NMFS BO RPA Action II.3, Structural Improvements for Temperature Management on the American River.
- 2009 NMFS BO RPA Action II.5, Fish Passage at Nimbus and Folsom Dams.
- 2009 NMFS BO RPA Action II.6, Implement Actions to Reduce Genetic Effects of Nimbus and Trinity River Fish Hatchery Operations.

<sup>&</sup>lt;sup>41</sup> NMFS modified the RPA in 2011. See http://www.westcoast.fisheries.noaa.gov/publications/Central\_Valley/Water%20Operations/Operations,%20Criteria %20and%20Plan/040711\_ocap\_opinion\_2011\_amendments.pdf

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- · 2009 NMFS BO RPA Action III.2.1, Increase and Improve Quality of Spawning Habitat with Addition of Gravel.
- 2009 NMFS BO RPA Action III.2.2, Conduct Floodplain Restoration and Inundation Flows in Winter or Spring to Inundate Steelhead Juvenile Rearing Habitat on Stanislaus River.
- 2009 NMFS BO RPA Action III.2.3, Restore Freshwater Migratory Habitat for Juvenile Steelhead on Stanislaus River.
- 2009 NMFS BO RPA Action III.2.4, Fish Passage at New Melones, Tulloch, and
- · 2009 NMFS BO RPA Action IV.4, Tracy Fish Collection Facility Improvements to Reduce Pre-Screen Loss and Improve Screening Efficiency.
- 2009 NMFS BO RPA Action IV.4.2 Skinner Fish Collection Facility Improvements to Reduce Pre-Screen Loss and Improve Screening Efficiency.
- 2009 NMFS BO RPA Action IV.4.3 Tracy Fish Collection Facility and the Skinner Fish Collection Facility Actions to Improve Salvage Monitoring, Reporting and Release Survival Rates.

The DEIS makes no effort to describe how these RPA actions could be eliminated and still conform to the ESA. It does not address the rationales for these measures provided in the NMFS RPA's. It does not address the removal of fish passage actions at Shasta, Nimbus-Folsom, and Goodwin-Tulloch-New Melones dams in the context of the 2014 NMFS Recovery Plan.4

In a "Public Stakeholder Seminar" on September 24, 2015 convened by Reclamation, Reclamation and representatives of state and federal agencies reaffirmed the link between the need for passage past Shasta and the recent poor survival of winter-run downstream of Lake Shasta. 44 However, the DEIS does not discuss this linkage.

Equally, it is likely that a substantial portion of the cohort of fall-run Chinook will be lost in 2015 on the American River due to high water temperatures. It is also likely that substantial mortality of juvenile steelhead and resident O. mykiss in the American and Stanislaus rivers will occur due to high water temperatures. Yet Alternative 2 makes no effort to place fish passage past dams on these rivers in the context of mortality of listed and non-listed salmonids confined in these rivers to the valley floor.

The "salvage rates" of listed and non-listed species at the Skinner and Tracy "Fish Collection Facilities" is notorious, as is the inefficiency of these facilities. Between 2000 and

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<sup>42</sup> DEIS, p. 3-32.

<sup>&</sup>lt;sup>43</sup> National Marine Fisheries Service, 2014, Final Recovery Plan for the Evolutionarily Significant Units of Sacramento River Winter-run Chinook Salmon and Central Valley Spring-run Chinook Salmon and the Distinct Population Segment of California Central Valley Steelhead. Available at:

http://www.westcoast.fisheries.noaa.gov/publications/recovery\_planning/salmon\_steelhead/domains/california\_cent ral\_valley/final\_recovery\_plan\_07-11-2014.pdf

44 Presentation to be posted at http://www.usbr.gov/mp/BayDeltaOffice/Documents/Shasta\_Fish\_Passage/

2011, more than 130 million fish were salvaged at the CVP and SWP water export facilities in the South Delta. 45 Actual losses are far higher. Recent estimates indicated the 5-10 times more fish are lost than salvaged, largely due to the high predation losses in and around water export facilities. 46 The fish screens are unable to physically screen eggs and larval life states of fish from diversion pumps. 47 The present South Delta fish screens are based on 1950's technology. Only about 11-18% of salmon and steelhead entrained at Clifton Court Forebay survive. Losses to pelagic species such as Delta smelt are much higher.

CWIN continued

The California "Water Fix" would add points of diversion to the south Delta export facilities, but the existing infrastructure would be used about half the time. However the "Water Fix" includes no plans to upgrade the existing south Delta fish screens. The NMFS BO extensively documents the inadequacy of the existing screens, and describes the facilities at Tracy as follows:

... 45 percent of the time, the appropriate velocities in the primary channel and the corresponding bypass ratio are not being met and fish are presumed to pass through the louvers into the main collection channel behind the fish screen leading to the pumps. The lack of compliance with the bypass ratios during all facility operations alters the true efficiency of louver salvage used in the expansion calculations and therefore underestimates loss at the TFCF. 49

Since the BO's were issued, there have been no physical improvements to the fish salvage facilities at the state and federal export facilities. Yet in spite of the known loss of millions of fish annually at these facilities, Alternative 2 blithely proposes to forego improvements to this infrastructure.

In short, Alternative 2 is effectively a throwaway alternative with no justification in fact or law, without even a perfunctory let alone substantial rationale in the DEIS.

#### c. Alternative 3

Alternative 3 is focused on weakening Stanislaus River flow requirements and OMR **CWIN** requirements. It would dramatically lower flow requirements for the Stanislaus River, **CSPA** particularly in the spring and particularly in drier water years, allowing greater diversions, and would exempt (without legal explanation) the Stanislaus River from responsibility for complying with various aspects of D-1641, including Vernalis flow and pulse flow requirements and Delta water quality standards. The would move the compliance point for the D-1422 dissolved oxygen requirement (also without legal explanation) from Ripon upstream to Orange Blossom Bridge. It

<sup>&</sup>lt;sup>45</sup> DFW annual salvage reports for the SWP and CVP fish facilities, 2000-2011.

<sup>46</sup> Larry Walker Associates, 2010, A Review of Delta Fish Population Losses from Pumping Operations in the Sacramento-San Joaquin River Delta, p. 2. <a href="http://www.srcsd.com/pdf/dd/fishlosses.pdf">http://www.srcsd.com/pdf/dd/fishlosses.pdf</a>
Part DWR, 2011, Delta Risk Management Strategy, final Phase 2 Report, Section 15, Building Block 3.3: Install Fish

Screens, pp 15-18.

<sup>&</sup>lt;sup>49</sup> NMFS OCAP BO, pp. 341-342. See also following pages through p. 350 for description of other facility deficiencies and associated mortality.

The proposed Stanislaus River flows and changes to D-1641 and D-1422, see DEIS, p. 3-36.

would implement a "predator control program" in the Stanislaus River and the Delta. It would tie OMR requirements to turbidity levels, to location of X2, and to the proximity of Delta smelt to Old and Middle rivers, thus at times allowing greater levels of export. It would attempt to mitigate for the potential of additional entrainment of San Joaquin watershed salmonids under the new conditions by implementing a trap and haul program of San Joaquin River salmonids; it would seek to capture 10%-20% of outmigrating juvenile salmonids at the head of Old River, place them in barges, and release them at Chipps Island. Like the No Action Alternative, it would restore 10,000 acres of tidally influenced wetlands. It would also reduce opportunities for commercial and sport ocean harvest of salmon by placing the burden of proof on fisheries managers to limit ocean harvest based on "consistency with Viable Salmonid Population Standards, including harvest management to show that abundance, productivity, and diversity (age-composition) are not appreciably reduced." 51

CWIN CSPA 15 continued

As discussed in Section II(A)(4)(a)(ii) of these comments above, the best available science suggests that greater flows are needed in the Stanislaus River, not lower flows. The DEIS attempts to justify flow requirements for the Stanislaus based on Weighted Usable Area for spawning and egg viability. Neither of these factors would be appreciably changed by Alternative 3 compared to the No Action Alternative, in significant part because the most critical flow reductions under Alternative 3 would take place at times of year when spawning and egg incubation were not occurring, at least in the case of fall-run Chinook.

To the degree that water temperatures under Alternative 3 would not change appreciably compared to the No Action Alternative, this is likely attributable to the fact that some of the water presently used for instream flow, particularly in spring, would be devoted to storage or simply held longer in storage. Temperature increases downstream of Goodwin Dam stemming from decrease in flow would be partially offset by lower release temperatures and increased releases for irrigation from New Melones to Goodwin and Tulloch dams; the latter would tend to create lower release temperatures from Goodwin Dam into the lower Stanislaus.

This apparent wash in impacts to water temperature would occur at the expense of floodplain inundation, juvenile rearing habitat for salmonids, and flow variability that the State Water Board and numerous others have identified as key life stages and limiting factors in juvenile salmon survival. See section II(A)(4)(a)(ii) above. The DEIS does not respond to the analysis in the RPA that supports measures that provide these elements, and the DEIS does not evaluate impacts according to these metrics.

The DEIS notes about predation reduction measures that no one has shown that predation reduction measures could have an appreciable population level effect on the success of juvenile salmonid outmigrants from the Stanislaus and lower San Joaquin rivers. 52 We agree.

There is no showing that capture and transport of 10%-20% of San Joaquin River salmonid outmigrant will make a population level difference for fall-run Chinook or for steelhead. Though the program is likely worth at least a stand-alone pilot effort, and a similar

<sup>&</sup>lt;sup>51</sup> DEIS, p. 3-37.

<sup>&</sup>lt;sup>52</sup> "It remains uncertain, however, if predator management actions under would benefit fall-run Chinook Salmon." DEIS, p. 3-78. See also DEIS, p. 9-275.

effort has been initiated by East Bay Municipal Utility District on the Mokelumne, <sup>53</sup> the DEIS provides no quantification that shows that trap and haul of downstream migrants will mitigate for the Alternative's proposed reduction in Stanislaus River flow and/or the weakening of OMR standards. There is no quantification in the DEIS of current (No Action) and projected (Alternative 3) survival of outmigrating salmonids between head of Old River and Chipps Island. Nor is there any analysis in the DEIS of existing or desired levels of juvenile salmonid survival between Oakdale and Caswell and between Caswell and head of Old River. It is likely that the relative effect of trap and haul between head of Old River and Chipps Island is limited in the face of very poor survival between spawning grounds in the Stanislaus and the head of Old River, which would likely become worse under Alternative 3.

CWIN CSPA 15 continued

Alternative 3's proposed changes in OMR flows based on real time monitoring of Delta smelt are likely infeasible because Delta smelt abundance has dropped so low that they are virtually undetectable. See Section  $\Pi(A)(1)$  above.

The analysis in Chapter 19 of economic impacts related to loss of commercial and salmon fishing opportunities that would occur with the enactment of the limitations on salmon fishing proposed in Alternative 3 (and 4) is perfunctory. There should be more analysis based on several scenarios of reduced salmon seasons in various locations, and analysis of secondary impacts on coastal communities. In the limiting case, the placement on harvesters or salmon of the burden to demonstrate no impact to listed species could eliminate harvest of salmon altogether. The DEIS should have analyzed the economic impact of the effective closure of salmon fishing in waters where California-born salmon are present.

#### d. Alternative 4

Alternative 4 contains many of the elements contained in Alternative 3. Like Alternative 3, Alternative 4 would substitute non-flow measures ostensibly to make up for flow reductions. However, the flow measures are different; Alternative 4 would simply eliminate the RPA flows for the Stanislaus River. D-1641 and D-1422 flow and water quality requirements would remain in place. The proposed change in OMR flow requirements in Alternative 3 is not repeated in Alternative 4.

CWIN CSPA 16

Alternative 4 would add a series of actions relating to levees and floodplains. "Under Alternative 4, trees and shrubs would be planted along the levees; and vegetation, woody material, and root re-enforcement material would be installed on the levees instead of riprap for erosion protection." <sup>54</sup> In addition, Alternative 4 would limit development in Central Valley floodplains through a set of administrative and planning requirements. However, the DEIS makes no showing that these requirements would "protect salmonids and Delta smelt," and in particular would not devote a drop of additional water to activate these floodplains or transform them with more frequency or duration into anything other than officially unoccupied terrestrial habitat. On the contrary, the increment of floodplain inundation along the Stanislaus River and

<sup>&</sup>lt;sup>53</sup> East Bay MUD's trap and haul of juvenile salmon outmigrants in the Mokelumne River was initiated in the Critically Dry year 2015. In submittals and presentations to the State Water Board in 2015 drought workshops, the present commenters supported a similar effort in Sacramento River tributaries as an interim drought measure.
<sup>54</sup> DEIS, p. 3-39.

the lower San Joaquin under the existing RPA's would be reduced by the flow reductions proposed under Alternative 4.

CWIN CSPA 16 continued

#### 5. The DEIS makes no showing that the OMR flows and the Stanislaus pulse flows proposed in Alternative 5 are sufficient to protect either smelt or salmonids

Unlike Alternatives 3 and 4, whose development and definition the DEIS attributes in substantial part to irrigation districts on the Stanislaus River and the inaptly named "Coalition for a Sustainable Delta," the DEIS does not describe the derivation of Alternative 5. Alternative 5 proposes increases in Stanislaus River flows and Vernalis River pulse flows, and additionally proposes a requirement for long-term average positive OMR flows in April and May of all water year types. The Vernalis pulse flow requirements would vary depending on the location of X2; however, the DEIS provides no rationale for reducing pulse flow magnitudes based on X2 location. Except where the RPA's conflict with these measures under Alternative 5, the RPA's would otherwise be left in place (same as the No Action Alternative).

CWIN CSPA 17

The analysis in Chapter 9 of the fisheries impacts of this alternative that was apparently designed to be beneficial to fisheries does not indicate appreciable benefit. Whether this is an artifact of modeling or the result of specific design of the alternative, the apparent lack of benefit calls into question the details of the alternative and the basis for its definition.

The present commenters, as well as the Bay Institute and the State Water Board in its Delta Flow Criteria Report, have made numerous recommendations that would substantially improve survival of listed and non-listed species in the Sacramento and San Joaquin rivers, their tributaries, and the Delta. The DEIS apparently made no review of these recommendations or any effort to synthesize specific recommendations or proposals that would comprehensively protect and recover listed species and other fishery resources. The organizing principle of Alternative 5 appears to be inclusion of two elements of historic recommendations at a level that would have relatively small impact on water supply. While the measures proposed in Alternative 5 might make small incremental improvements in the condition of fisheries, the DEIS makes no showing that Alternative 5 is a serious "environmental" option or that its implementation would make a substantial difference in the condition of fisheries affected by the CVP and SWP.

### B. The Alternatives in the DEIS are not sufficiently distinct and are not legally or factually defensible.

As described in sections 1-3 above, D-1641 and the RPA's from the USFWS and NMFS BO's (the No Action Alternative) have not protected listed species or critical habitat from the effects of project operations. Delta smelt have gone almost undetected in 2015 in the extensive sampling performed in the Delta. 95% of the 2014 cohort of winter-run Chinook did not survive to Red Bluff, and water temperature targets for the Sacramento River were again exceeded throughout the summer of 2015. Other species have exhibited precipitous declines.

CWIN CSPA 18

Alternatives 1-4 would substantially weaken the already inadequate existing RPA's. The DEIS makes no argument for how the elements analyzed in Alternatives 1-4 would individually or in aggregate improve existing conditions or protect listed species and other public trust resources. Alternative 5 would make a token, weak incremental improvement that even analysis in the DEIS suggests would do little to improve conditions affected by operation of the state and federal projects.

CWIN CSPA 18

As discussed above, the No Action Alternative is not accurately characterized as a baseline condition that does not avoid jeopardy to listed species. Each of the other Alternatives presented in the DEIS also shares a common flaw: it would not avoid jeopardy of listed species. The DEIS must be recirculated with a range of alternatives that would achieve the project purpose of conforming to the ESA and other applicable law. A recirculated DEIS must provide the analysis that demonstrates conformance with the ESA, that shows the relative benefits of measures proposed, and that allows reasoned analysis of the best alternative or set of measures to protect fisheries and other public trust resources.

#### III. The stated "Purpose[s] of the Action" are in conflict.

The DEIS states the Purpose of the Action as follows:

CWIN CSPA 19

The purpose of the action considered in this Environmental Impact Statement (EIS) is to continue the operation of the Central Valley Project (CVP), in coordination with operation of the State Water Project (SWP), for the authorized purposes, in a manner that:

- Is similar to historical operational parameters with certain modifications
- Is consistent with Federal Reclamation law; other Federal laws and regulations;
   Federal permits and licenses; and State of California water rights, permits, and licenses
- Enables the Bureau of Reclamation (Reclamation) and the California Department of Water Resources (DWR) to satisfy their contractual obligations to the fullest extent possible.<sup>55</sup>

The stated purpose of satisfying contractual obligations to the "fullest extent possible" conflicts with the ESA's requirements to protect listed species and their critical habitat. It routinely jeopardizes listed species because it recklessly prioritizes deliveries to contractors over carryover storage and seeks to constantly skate on the edge of compliance with OMR constraints making minimal protections the target level of protection. It creates systemic demand to push exports to their maximum legal limit in any given year, even when prudent operation of the system would look to following years and thus operate with a substantial margin of safety. We provide an example below.

RPA Action Suite 1.2 in the NMFS BO requires a series of actions in managing Shasta Reservoir, including operations of Shasta to maintain suitable temperatures in the Sacramento River downstream of Shasta Reservoir to protect winter-run and spring-run Chinook, re-

CWIN CSPA 20

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<sup>&</sup>lt;sup>55</sup> See DEIS, p. 2-1.

establishing winter-run Chinook in Battle Creek, and reintroducing winter-run Chinook in rivers upstream of Shasta Reservoir. <sup>56</sup> While re-introduction actions in Battle Creek and upstream of Shasta are clearly not included in the Second Basis of Comparison and Alternatives 1-4, it is unclear whether the operational management of Shasta required in the RPA is included in the Second Basis of Comparison and in these Alternatives. <sup>57</sup>

CWIN CSPA 20 continued

The RPA for Shasta operations requires: "Reclamation should operate in any year in which storage falls below 1.9 MAF EOS as potentially the first year of a drought sequence." In discussing such circumstances, the RPA provides the following rationale:

Notification to the State Water Resources Control Board (SWRCB) is essential. Sacramento Settlement Contract withdrawal volumes from the Sacramento River can be quite substantial during these months. The court has recently concluded that Reclamation does not have discretion to curtail the Sacramento Settlement contractors to meet Federal ESA requirements. Therefore, NMFS is limited in developing an RPA that minimizes take to acceptable levels in these circumstances. Consequently, other actions are necessary to avoid jeopardy to the species, including fish passage at Shasta Dam in the long term. <sup>59</sup>

Thus the RPA punts protection of winter-run to such time as a reintroduction program that achieves fish passage past Shasta Reservoir can be achieved. Passage past Shasta is clearly needed to achieve recovery of winter-run. However, immediate action is required to protect the species downstream of Shasta.

If Reclamation has no discretion to reduce deliveries to Sacramento River Settlement Contractors, then NMFS must otherwise limit discretionary actions by Reclamation to protect winter-run and spring-run and their critical habitat. Sacramento Settlement Contractors are entitled to a minimum of about 1.2 million acre-feet per year. In the face of such demands, the 1.9 million acre-feet end of September storage threshold in Shasta is too low to be protective or winter-run and spring-run, as the mass mortality of winter-run in 2014 (and likely 2015) has demonstrably proven. Thus, NMFS must modify its carryover storage thresholds and further limit discretionary exports and other discretionary deliveries from Shasta in order to protect Shasta storage and the Shasta cold water pool. The RPA cannot improperly defer to the "(n)otification to the State Water Resources Control Board" in the hope that the State Board will order reductions in deliveries to Sacramento Settlement Contractors. Indeed, despite repeated requests to the State Board in 2014 and 2015 by the present commenters and others including the Bay Institute and National Resources Defense Council, the State Board declined to limit deliveries to the Sacramento Settlement Contractors, even in the face of the loss of 95% of the 2014 cohort of Sacramento winter-run Chinook, as discussed in Section II(A)(1) of these comments, above.

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<sup>&</sup>lt;sup>56</sup> See NMFS BO, p. 590 ff.

As noted above in these comments, the lack of clarity about which elements of the RPA's are and are not included in the Alternatives analyzed in the DEIS is a serious flaw that must be corrected.

<sup>58</sup> NMFS BO, p. 597.

<sup>&</sup>lt;sup>59</sup> Id., p. 600.

The Central Valley Project Improvement Act (CVPIA) made protection of fishery and other environmental resources an equal purpose of the Central Valley Project in relation to provision of water supply and other developmental purposes. 60 The DEIS's stated purpose of satisfying contractual obligations to the "fullest extent possible" also conflicts with this mandate.

**CWIN CSPA** 21

A recirculated DEIS should restate the purpose of the Proposed Action so that it is consistent with the ESA and the CVPIA, as well as with the Clean Water Act and the public trust doctrine.

#### IV. Modeling in the DEIS does not accurately depict actual operation in multiple dry year sequences.

CalSim II assumes full compliance with the water quality and flow standards set forth in D-1641. However, in recent dry year sequences including 2007-2009 and 2012-2013, BOR and DWR have often not met some of these standards, with the tacit or de facto approval of the State Water Board. In addition, in 2014 and 2015, BOR and DWR undertook, at their own discretion, a series of temporary urgency change petitions (TUCP's) to weaken D-1641 water quality and flow standards on a large scale.

**CWIN CSPA** 

CalSim II also assumes that deliveries to the San Joaquin Exchange Contractors will always be met from sources north of Delta. However, in 2014 and 2015, such deliveries, to the extent they were made, were made from Millerton Reservoir on the San Joaquin River.

These modeling artifacts tend to overstate the impacts to CVP and SWP water supply, since water that is modeled as lost e.g. for salinity control is often in reality never released, because the standards are either not met or are explicitly weakened. The amount of water "conserved" because of TUCPs for the CVP and SWP was estimated by DWR to be 450,000 acre-feet in 2014<sup>61</sup> and 793,000 acre-feet in 2015.<sup>62</sup> In these circumstances, CalSim II also tends to under-report cumulative reservoir levels in CVP and SWP reservoirs with the possible exception of Millerton. Finally, CalSim II likely underestimates the impacts to fish, particularly pelagic species, because under weakened standards or conditions of non-compliance with standards, the low salinity zone in the Delta is entrained into the central Delta because of increased salinity and reduced outflow, and Delta hydrodynamics are more heavily influenced by exports. Along with the low salinity zone, Delta smelt in particular are, in such circumstances, more likely drawn into the central Delta, as are outnigrating salmon from the Sacramento River system.

Much of the socioeconomic impact analysis in Chapter 19 of the DEIS places special focus on Dry and Critical Dry years. Traditionally, water purveyors have emphasized economic impacts in dry year sequences in advocating for changes in standards or temporary weakening or

**CWIN CSPA** 

http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/tucp/accounting\_reports/docs/dwr2014n ov droughtacct.pdf

http://www.waterboards.ca.gov/waterrights/water\_issues/programs/drought/tucp/docs/dwr2015aug\_droughtacct.pdf

<sup>60</sup> U.S.C. Title XXXIV, Sections 3402 and 3406

<sup>&</sup>lt;sup>61</sup> See

waiving of standards, and it is on such dry year sequences that the balance of impacts turns. To the degree that the economic analysis presented in the DEIS relies on CalSim II, the economic impacts may thus be overstated, and in particular they may be overstated in regard to the time periods that generate the greatest controversy.

CWIN CSPA 23 continued

#### V. Conclusion

BOR should recirculate the DEIS with a proposed Action and alternatives that will allow operation of the SWP and CVP to comply with the ESA and other applicable law. The recirculated DEIS should also address the additional issues raised in these comments.

CWIN CSPA 24 CWIN

Thank you for the opportunity to comment on the Draft Environmental Impact Statement for Coordinated Long Term Operation of the Central Valley Project and State Water Project.

CSPA 25

#### Respectfully submitted,

Bill Jennings, Executive Director California Sportfishing Protection Alliance Director, California Water Impact Network 3536 Rainier Avenue Stockton, CA 95204 p: 209.464.5067 c: 209.938.9053

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e. blancapaloma@msn.com

Chy r chits

Attachment A: Complaint: Against SWRCB, USBR and DWR for Violations of Bay-Delta Plan, D-1641 Bay-Delta Plan Requirements, Clean Water Act, Endangered Species Act, Public Trust Doctrine and California Constitution

Attachment B: COMPLAINT; Against the SWRCB and USBR for Violations of Central Valley Basin Plan, WR Order 90-05, Clean Water Act, Endangered Species Act, Public Trust Doctrine and California Constitution

1D-76

- 1 1D.1.5.1 Attachments to Comments from California Water Impact Network and California Sportfishing Protection Alliance
- 3 Attachments to the California Water Impact Network and California Sportfishing
- 4 Protection Alliance Comment letter are included in Attachment 1D.2 located at
- 5 the end of Appendix 1D.
- 6 1D.1.5.2 Responses to Comments from California Water Impact Network 7 and California Sportfishing Protection Alliance
- 8 **CWIN CSPA 1:** Comment noted.
- 9 **CWIN CSPA 2:** Attachments to the California Water Impact Network and
- 10 California Sportfishing Protection Alliance Comment letter are included in
- 11 Attachment 1D.2 located at the end of Appendix 1D.
- 12 **CWIN CSPA 3:** The Council on Environmental Quality guidance describes that a
- 13 "potential conflict with local or federal law does not necessarily render an
- 14 alternative unreasonable, although such conflicts must be considered." Therefore,
- 15 the range of alternatives considered in this EIS does include actions that are not
- 16 necessarily consistent with existing federal and state requirements for the existing
- long-term operation of the CVP and SWP. The selection of the range of
- alternatives considered in the EIS was informed by several factors, including
- 19 scoping comments.
- 20 **CWIN CSPA 4:** Comment noted.
- 21 **CWIN CSPA 5:** The analysis in the EIS compares conditions under Alternatives
- 22 1 through 5 with the No Action Alternative to identify beneficial and adverse
- 23 impacts for a broad range of physical, environmental, and human resources. The
- NEPA analysis does not determine if the alternatives would change the findings
- of the biological opinions in the determination of the likelihood of the alternatives
- 26 to cause jeopardy to the continued existence of the species, or destroy or
- adversely affect their critical habitat.
- 28 **CWIN CSPA 6:** Historically, many water users have been cooperatively using
- 29 surface water and other water supplies, such as conjunctive use that increases
- 30 groundwater use when CVP and SWP water is reduced. Changes in CVP and
- 31 SWP water deliveries are within the overall range of projected water supplies in
- related urban water management plans, as described in Appendix 5D, Municipal
- and Industrial Water Demands and Supplies. It is anticipated that the
- 34 communities would change their reliance on alternative water supplies, such as
- 35 groundwater and recycled water, as described in the urban water management
- 36 plans.
- 37 As is described in Chapter 12, Agricultural Resources, the SWAP model indicated
- that even with the cost of groundwater pumping from greater depths, the overall
- agricultural production could be maintained.
- 40 The discussion in Chapter 5, Surface Water Resources and Water Supplies,
- 41 discusses that future surface water supplies and groundwater supplies could be
- reduced due to climate change, sea level rise, and projected population growth.
- The EIS analysis compares conditions in 2030 under the Alternatives 1 through 5

- 1 to the No Action Alternative; and under the No Action Alternative and
- 2 Alternatives 1 through 5 to the Second Basis of Comparison. The EIS analysis
- does not compare the conditions under the alternatives, No Action Alternative,
- 4 and Second Basis of Comparison to the existing conditions. The No Action
- 5 Alternative represents operations consistent with implementation of the 2008 and
- 6 2009 Biological Opinions. This No Action Alternative represents the current
- 7 management direction and level of management intensity consistent with the
- 8 explanation of the No Action Alternative included in Council of Environmental
- 9 Quality's Forty Most Asked Questions (Question 3). NEPA does not require
- agencies to mitigate impacts, nor does it require agencies to identify mitigation
- 11 associated with the No Action Alternative.
- 12 It should be noted that Figures 7.15 through 7.60 in Chapter 7, Groundwater
- 13 Resources and Groundwater Quality, have been modified in the Final EIS to
- correct an error that increased the changes in groundwater elevation by a factor of
- 15 3.25. This miscalculation was due to an error in a model post-processor that
- 16 generates the figures related to changing the values from CVHM Model output
- 17 from meters to feet. Therefore, the results in these figures and the related text in
- 18 Chapter 7 are less than reported in the Draft EIS. The figures and the text have
- been revised in the Final EIS. No changes are required to the CVHM model. The
- 20 revised results in the figures and the text in Chapter 7 are consistent with the
- 21 findings of the SWAP model.
- 22 CWIN CSPA 7: As discussed in the response to Comment CWIN CSPA 3, the
- 23 range of alternatives considered in this EIS does include actions that are not
- 24 necessarily consistent with existing federal and state requirements for the existing
- 25 long-term operation of the CVP and SWP. The EIS analysis provides a
- 26 comparison of incremental differences between Alternatives 1 through 5 and the
- No Action Alternative; and Alternatives 1 through 5 and the No Action
- 28 Alternative as compared to the Second Basis of Comparison. The description of
- 29 the alternatives in the comment is consistent with Chapter 3, Description of
- 30 Alternatives.
- 31 **CWIN CSPA 8:** It is acknowledged that the condition of aquatic resources has
- deteriorated recently, and it is likely that the current drought in California has
- 33 undoubtedly resulted in profound effects on aquatic resources, especially on those
- species with already declining populations. It is recognized that droughts have
- occurred throughout California's history, and are constantly shaping and
- innovating the ways in which Reclamation and DWR balance both public health
- 37 standards and urban and agricultural water demands while protecting the Delta
- 38 ecosystem and its inhabitants. The most notable droughts in recent history are the
- droughts that occurred in 1976-77, 1987-92, and the ongoing drought. More
- 40 details have been included in Section 5.3.3 of Chapter 5, Surface Water Resources
- and Water Supplies, and Section 9.3.8 of Chapter 9, Fish and Aquatic Resources,
- 42 in the Final EIS to describe historical responses by CVP and SWP to these
- 43 drought conditions and changes in fisheries resources.

- 1 **CWIN CSPA 9:** Reclamation acknowledges that the SWRCB has modified water
- 2 quality and flow criteria over the past years in response to changing conditions of
- 3 ecological and physical resources and the protection of all beneficial uses.
- 4 **CWIN CSPA 10:** The Draft EIS acknowledges the temperature challenges for
- 5 winter-run Chinook Salmon in the Sacramento River downstream of the Shasta
- 6 Dam. The Draft EIS also acknowledges the value that successfully providing
- 7 upstream passage for winter-run Chinook Salmon could have for the population,
- 8 especially in the long term in consideration of increasing temperatures associated
- 9 with climate change (see pages 9-117 and 9-127).
- 10 The results of the impact analysis presented in Chapter 9, Fish and Aquatic
- Resources, indicates that due to climate change reducing snow pack and
- increasing air temperatures, water temperature thresholds would be exceeded
- frequently in the rivers downstream of CVP and SWP reservoirs under
- 14 Alternatives 1 through 5, the No Action Alternative, and the Second Basis of
- 15 Comparison.
- 16 **CWIN CSPA 11:** The EIS describes that under the No Action Alternative,
- benefits from implementation of the 2008 USFWS BO and 2009 NMFS BO RPA
- actions are anticipated to improve aquatic resources conditions. However, it must
- be recognized that some of the RPA actions are either under construction, or
- 20 recently completed construction (e.g., Battle Creek restoration and Red Bluff
- 21 Pumping Plant, respectively). Other RPA actions are still under development and
- are not scheduled for full development until 2020 (e.g., fish passage around CVP
- reservoirs). Therefore, conditions described in the Affected Environment section
- of Chapter 9 do not represent the anticipated conditions that would occur under
- 25 the No Action Alternative by the Year 2030 with full implementation of the RPA
- actions.
- 27 **CWIN CSPA 12:** As described in the response to Comment CWIN CSPA 3, the
- range of alternatives considered in this EIS does include actions that are not
- 29 necessarily consistent with existing federal and state requirements for the existing
- 30 long-term operation of the CVP and SWP.
- 31 The EIS does indicate incremental benefits and adverse impacts of
- 32 implementation of Alternatives 1 through 5 as compared to the No Action
- 33 Alternative; and Alternatives 1 through 5 and the No Action Alternative as
- compared to the Second Basis of Comparison.
- 35 **CWIN CSPA 13:** Alternative 1 is included in the range of alternatives to
- 36 represent an alternative without implementation of the 2008 USFWS BO and
- 37 2009 NMFS BO in accordance with the District Court Order.
- 38 **CWIN CSPA 14:** Alternative 2 is included in the range of alternatives to
- represent the initial Proposed Action as stated in the 2012 Notice of Intent for this
- 40 EIS. As described in Chapter 3, Description of Alternatives, this alternative
- 41 represents implementation of the RPAs that affect the CVP and SWP operations
- 42 without requiring major construction.

- 1 The analysis of Alternative 2 as compared to the No Action Alternative (see pages
- 2 9-262 to 9-264 in the Draft EIS) indicates that salmonid survival could be less
- 3 under Alternative 2 due to the lack of fish passage actions to move fish to portions
- 4 of the Sacramento, American, and Stanislaus rivers that would provide cooler
- 5 temperatures for spawning and rearing under the No Action Alternative.
- 6 Alternative 2 does not include any facilities considered under the Bay Delta
- 7 Conservation Plan range of alternatives, including the California WaterFix.
- 8 The NEPA analysis in Chapter 9 of the DEIS evaluates the potential impacts on
- 9 aquatic resources that could result from implementation of the various
- alternatives. The analysis does not evaluate compliance with ESA, which is in the
- purview of NMFS and USFWS. Chapter 9, however, does provide the rationale
- of the RPA measures (e.g., see 9.4.2.2.5, Conditions for Fish Passage) or cites the
- 13 BOs where appropriate.
- 14 With regard to the fish passage at New Melones Dam, the Draft EIS (page 142)
- states that this measure is consistent with the recovery plan (NMFS 2014) and
- indicates that "salmonid survival could be less under Alternative 2 due to the lack
- of fish passage actions to move fish to portions of the Sacramento, American, and
- 18 Stanislaus rivers that would provide cooler temperatures for spawning and rearing
- under the No Action Alternative" (Draft EIS, page 9-263).
- 20 **CWIN CSPA 15:** As described in Chapter 3, CVP operations on the Stanislaus
- 21 River under Alternative 3 were suggested as part of a scoping comment.
- 22 The Weighted Useable Area methodology was not applied to the Stanislaus River
- analyses in Chapter 9 of the EIS.
- 24 The results of the impact analysis presented in Chapter 9 indicates that in 2030,
- 25 water temperature thresholds would be exceeded frequently in the rivers
- 26 downstream of CVP and SWP reservoirs under Alternative 3, the No Action
- 27 Alternative, and the Second Basis of Comparison. The EIS analysis evaluates the
- differences in water temperatures between Alternatives 1 through 5 and the No
- 29 Action Alternative and the Second Basis of Comparison and between the No.
- 30 Action Alternative and the Second Basis of Comparison.
- 31 The commenter's discussion of predation control effectiveness is acknowledged.
- 32 The description of the trap and haul program assumptions and methodologies
- presented in Chapter 9 of the Draft EIS were not extensive. Additional
- information has been included on the text from page 9-316 of the Draft EIS, and
- additional information has been provided in Appendix 90 of the Final EIS. There
- are no available and acceptable analytical tools that could be used to project the
- 37 effectiveness of trap and haul operations primarily due to the lack of observed
- data. Therefore, the analysis in the EIS is qualitative.
- 39 Changes in aquatic resources due to changes in Old and Middle River flow
- 40 operations under Alternative 3 as compared to the No Action Alternative and the
- 41 Second Basis of Comparison are presented in Chapter 9.

- 1 Additional details have been provided in Chapter 19, Socioeconomics, related to
- 2 the socioeconomics of freshwater and ocean harvest of fish.
- 3 **CWIN CSPA 16:** The description of Alternative 4 in this comment is consistent
- 4 with the description presented in Chapter 3 of the EIS.
- 5 **CWIN CSPA 17:** Alternative 5 was developed including portions of scoping
- 6 comments. The scoping comments suggested other methods to implement flow
- 7 criteria on the San Joaquin River and to increase Delta outflow. However, the
- 8 CVP and SWP reservoirs are operated in accordance with regulatory limitations,
- 9 including applicable state and federal laws, regulations, and water rights first prior
- 10 to deliver of water to CVP and SWP water contractors. With respect to the San
- 11 Joaquin River flows, following the completion of the Vernalis Adaptive
- 12 Management Program, Reclamation does not have the authority to obtain water
- from other sources to meet water quality requirements on the San Joaquin River.
- 14 CVP and SWP operations are also constrained on methods to reduce temperatures
- downstream of the CVP and SWP reservoirs using reservoir storage carryover
- targets and temperature requirements in the 2009 NMFS BO due to requirements
- to meet Old and Middle River flow and Delta outflow criteria in the BOs and
- water rights.
- 19 Alternative 5 does include a more positive Old and Middle River flow criteria to
- 20 reduce entrainment.
- 21 **CWIN CSPA 18:** See the response to CWIN CSPA 5.
- 22 **CWIN CSPA 19:** The purpose and need for the EIS includes a provision to
- enable Reclamation and DWR to satisfy their contractual obligations to the fullest
- extent possible in accordance with the authorized purposes of the CVP and SWP, as
- 25 well as the regulatory limitations on CVP and SWP operations, including
- applicable state and federal laws and water rights.
- 27 Contract deliveries are based upon available water supplies on an annual and
- 28 monthly basis after all water flow and demand requirements for applicable state
- and federal laws, regulations, and water rights are met. Full CVP and SWP water
- 30 contract deliveries are used in the CalSim II model as a maximum delivery
- volume, but are only met when sufficient water is available.
- 32 **CWIN CSPA 20:** The Second Basis of Comparison, No Action Alternative, and
- 33 Alternatives 1 through 5 include implementation of restoration actions on Battle
- 34 Creek which are currently under construction.
- 35 The Second Basis of Comparison and Alternatives 1, 3, and 4 do not include
- Action I.2 of the 2009 NMFS BO for Shasta Lake operations.
- 37 As discussed in response to Comment CWIN CSPA 19, the CVP and SWP must
- 38 operate in accordance with state water rights which reduce the ability to manage
- 39 the cold water pool in Shasta Lake, especially in 2030 with increased air
- 40 temperatures.

- 1 **CWIN CSPA 21:** As discussed in the response to Comment CWIN CSPA 19,
- 2 Reclamation and DWR authorizations include methods to satisfy their contractual
- 3 obligations to the fullest extent possible in accordance with the authorized purposes
- 4 of the CVP and SWP, as well as the regulatory limitations on CVP and SWP
- 5 operations, including applicable federal laws (e.g. Central Valley Project
- 6 Improvement Act), state laws, and state water rights.
- 7 **CWIN CSPA 22:** The modeling analyses presented in the EIS include these
- 8 prioritizations for long-term operation of the CVP and SWP using an 82-year
- 9 hydrology analyzed with the CalSim II model, including delivery of Level 2
- 10 refuge water supplies in accordance with the CVPIA. This analytical approach
- results in low water storage elevations in CVP and SWP reservoirs and low
- deliveries to CVP agricultural water service contractors located to the south of the
- Delta in critical dry periods. The modeled operations do not include changes in
- 14 SWRCB requirements intended to reduce the effects of extreme flood or drought
- events, such as the recent changes in CVP and SWP drought operations. More
- details have been included in Section 5.3.3 of Chapter 5, Surface Water Resources
- and Water Supplies, in the Final EIS to describe historical responses by CVP and
- 18 SWP to these drought conditions, including recent deliveries of CVP water to the
- 19 San Joaquin River Exchange Contractors.
- 20 **CWIN CSPA 23:** The 82-year CalSim II analysis of a range of hydrologic
- 21 conditions with climate change and sea level rise in the Year 2030 provides a
- 22 wide range of conditions to be evaluated in the agricultural economics analysis
- presented in Chapter 12, Agricultural Resources, and the municipal and industrial
- economic analysis presented in Chapter 19, Socioeconomics. This is especially
- appropriate for municipalities that project water supply resources and costs on an
- annual basis considering both extremely wet and extremely dry conditions that
- 27 could last for multiple years. The information considered in the preparation of
- 28 Chapter 19 water supply cost analysis included the urban water management
- 29 plans prepared by the CVP and SWP water users which evaluated water supplies
- 30 for multiple year droughts.
- 31 **CWIN CSPA 24:** Reclamation has modified the Final EIS in response to
- 32 comments from CWIN CSPA and other commenters; and will use the Final EIS
- in the development of the Record of Decision.
- 34 **CWIN CSPA 25:** Comment noted.

# 1 1D.1.6 The Center for Environmental Science Accuracy and Reliability



#### VIA US MAIL

Ben Nelson Bureau of Reclamation Bay-Delta Office 801 I Street, Suite 140 Sacramento, CA 95814-2536



October 27, 2015

CODE	INITIAL	ACTION	DUE	
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Secretary Jewell
Secretary of Department of Interior
Department of the Interior
1849 C Street, N.W.
Washington DC 20240

Estevan López Commissioner Bureau of Reclamation 1849 C Street NW Washington DC 20240-0001

Hilary Tompkins Solicitor, U.S. Department of the Interior Department of the Interior 1849 C Street, N.W. Washington DC 20240

Jennifer Gimbel
Principal Deputy Assistant Secretary, Water and Science
Department of the Interior
1849 C Street, N.W.
Washington DC 20240

Re: The Center for Environmental Science Accuracy and Reliability (CESAR)
Comments on the Draft Environmental Impact Report (EIR) on the
Coordinated Long-Term Operation of the Central Valley Project and State
Water Project

Docket No.: RR02800000, 15XR0680A1, RX.17868946.0000000

Center for Environmental Science, Accuracy & Reliability 2014 Tulare Street, Suite 423 Fresno, CA 93721 Phone: 559-554-2947

#### Appendix 1D: Comments from Interest Groups and Responses

October 27, 2015

Dear Mr. Nelson,

The Center for Environmental Science, Accuracy, and Reliability ("CESAR") is a non-profit, public interest conservation organization whose mission is to ensure the efficient and effective enforcement of environmental laws, fulfill the educational goals of our members and provide educational information on environmental statutes and their application to the general public.

Our review of the draft EIR identified a number of serious omissions and errors. The document is fatally flawed both from the perspective of its compliance with both the District and Appeals Court direction and with respect to its compliance with the National Environmental Protection Act (NEPA).

The major shortcomings of the document include the following:

#### 1. The EIR fails to follow the direction of the Ninth Circuit Court of Appeals that,

"...Reclamation must conduct a NEPA review to determine whether the acceptance and implementation of the RPA actions cause a significant effect to the human environment..."

Reclamation completely sidesteps the effects of implementation of the RPA actions by defining the baseline as operation of the project with the RPAs in place. This results in there being no alternative considered that does not include all or some of the RPAs. By defining the 'baseline' as project operations with the existing RPAs in place, Reclamation avoids ever having to address the catastrophic consequences of the unilateral adoption of the Services' RPAs. On its face, this is inconsistent with both the text and the intent of NEPA, does not comply with existing case law regarding consideration of "baseline" or with the March 13, 2014 decision of the 9th Circuit order.

Reclamation justifies ignoring the court's order by explaining that because the RPAs were provisionally accepted (before the court order that defined the mandatory scope of review required under the law) and the No Action Alternative represents a continuation of existing policy and management direction, the No Action Alternative includes the RPAs. This circular logic ignores the reality that under no circumstance could Reclamation adopt such far reaching and fundamental changes in operation of the projects without a NEPA review. Just because there was a temporal lag between implementation of the RPAs, and the Court's decision, doesn't mean that Reclamation can ignore the requirements of the law.

The implementation of the RPAs requires a NEPA review of that 'provisional' policy and management decision. Despite the clear order of the court, such a review has not been completed, and this EIR fails to complete such a review.

The EIR fails to consider the effect of the adoption of the RPAs on the 288 listed species in California.

<sup>&</sup>lt;sup>1</sup> Draft Environmental Impact Report (EIR) on the Coordinated Long-Term Operation of the Central Valley Project and State Water Project, page ES 6.

October 27, 2015

The Coordinated Long-Term Operation of the Central Valley Project and State Water Project provides water from Trinity Dam all the way down to Imperial County in Southern California. California has experienced longer and deeper droughts than the one currently being experienced. However, until adoption of the RPAs in the Services 2008 and 2009 Biological Opinions, the projects have never allocated zero deliveries. There have been delivery reductions, but not a cessation of deliveries.

In the past, when drought occurred, the OCAP provided substantial supplies of water for listed species. This water, delivered in the form of irrigation water, was used directly by species both listed and unlisted. The water supported crops which provided habitat and food. The crops supported pollinators which pollinate listed plants and help sustain seed bank creation. The irrigation water provided crops such as alfalfa, nut crops, field crops which ensured populations of prey to sustain listed predator species, and reduce pressure on listed prey species. The water supplied by the OCAP blunted the devastating effects of drought on the natural world as individuals, cities, and farms sustained plant and animal life through irrigation. The EIR must consider the effect of reduced carrying capacity of the lands formerly irrigated in both the northern and southern portions of the state, on listed species both directly through reduced food and water supply, and indirectly.

#### The EIR fails to consider the disproportionate effects on low income and protected classes of people.

Reclamation's implementation of the RPAs, and its failure to consider an actual No Action Alternative as required by the court had the direct effect of immediately reducing economic activity in the service areas south of the Delta. Local counties saw unemployment rates of as much as 40% as a result of the provisionally adopted RPAs. The effects were almost exclusively visited on those populations living in rural areas, with few economic opportunities. The effects of the BiOp were not evident in any urban area or urban minority populations. Some of the towns and cities in these rural areas even suffered loss of public water supplies. The EIR must consider the disproportionate effect of the implementation of the RPAs on these populations.

Reclamation's adoption of the RPAs, which have been demonstrated to be based on little to no science, and which have subsequently been proven to have had disastrous effects, are subject to NEPA. This draft EIR does not comply with the requirements of NEPA. Thank you for consideration of these comments.

Yours Truly

Leah Zabel Staff Attorney

Center for Environmental Science, Accuracy & Reliability

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# 1D.1.6.1 Responses to Comments from The Center for Environmental Science Accuracy and Reliability

The public review period for the Draft EIS ended on September 29, 2015. This

- 5 letter was received on November 2, 2015, 34 days after the close of the public
- 6 comment period. Therefore, specific responses were not developed for this
- 7 comment letter, However, the issues discussed in this comment letter are similar
- 8 to other comments received by Reclamation.

# 1 1D.1.7 Environmental Water Caucus – Number 1 Comment

From: Conner Everts < connere@gmail.com > Date: Tue, Sep 22, 2015 at 4:24 PM

Subject: extend the comment period for the Coordinated Long-Term Operation of the Central Valley Project and State Water Project Draft Environmental Impact Statement

To: benelson@usbr.gov

EWC11

The Environmental Water Caucus (EWC), made up of over 30 organizations, strongly requests that the Bureau extend the comment period for the Coordinated Long-Term Operation of the Central Valley Project and State Water Project Draft Environmental Impact Statement. We are deeply involved with the concurrent comment period on the DEIS/EIR for the California Water Fix (formerly BDCP) and additional time to review this project is needed. An additional 30 days would be tremendously helpful.

Thank you,

Conner Everts Facilitator für EWC

Sent from my iPhone

--

Ben Nelson

Natural Resources Specialist

Bureau of Reclamation, Bay-Delta Office

916-414-2424

2

### 1D.1.7.1 Responses to Comments from Environmental Water Caucus

- 4 **EWC1 1:** At the time the request for extension of the public review period was
- 5 submitted, the Amended Judgement dated September 30, 2014 issued by the
- 6 United States District Court for the Eastern District of California (District Court)
- 7 in the Consolidated Delta Smelt Cases required Reclamation to issue a Record of
- 8 Decision by no later than December 1, 2015. Due to this requirement,
- 9 Reclamation did not have sufficient time to extend the public review period. On
- October 9, 2015, the District Court granted a very short time extension to address
- comments received during the public review period, and requires Reclamation to
- issue a Record of Decision on or before January 12, 2016. This current court
- ordered schedule does not provide sufficient time for Reclamation to extend the
- 14 public review period.

#### 1 1D.1.8 **Environmental Water Caucus – Number 2 Comment**

ENVIRONMENTAL WATER CAUCUS COMMENTS ON DRAFT ENVIRONMENTAL IMPACT STATEMENT ON OPERATIONS AND CRITERIA PLAN FOR CENTRAL VALLEY PROJECT AND STATE WATER PROJECT, SEPTEMBER 29, 2015 CALIFORNIA **NORTH** Response COAST ALLIANCE california water impact CA Save Our Streams Council network River foodswaterwatch Watch NORTHERN CALIFORNIA COUNCIL GoldenGate RESTORE THE DELTA Water4Fish.org FEDERATION OF FLY FISHERS Resource Renewal Institute Lower Sherman Island Duc Hunters Association Catch More Fish Entonmental Just nstitute for Fisheries Resources epic SERVATION wildcalifornia.org

Unite. Protect. Restore.

#### Appendix 1D: Comments from Interest Groups and Responses

Comments on USBR Long Term Operations Draft Environmental Impact Statement September 29, 2015

Ben Nelson U.S. Bureau of Reclamation Bay-Delta Office 801 I Street, Suite 140 Sacramento, CA 95814-2536

Sent via U.S. Mail and via email to bcnelson@usbr.gov

RE: Comments on Draft Environmental Impact Statement for Coordinated

Long-Term Operation of the Central Valley Project and State Water Project

Dear Mr. Nelson:

On behalf of Friends of the River (FOR), Restore the Delta, the Center for Biological Diversity, Sierra Club California, the California Water Impact Network, the California Sportfishing Protection Alliance, and the Environmental Water Caucus (EWC) (a coalition of over 30 nonprofit environmental and community organizations and California Indian Tribes), we provide these comments on the Bureau of Reclamation's Draft Environmental Impact Statement for Coordinated Long-Term Operation of the Central Valley Project and State Water Project ("DEIS"). Unfortunately, the DEIS fails to comply with the requirements of the National Environmental Policy Act ("NEPA"), because it fails to include a reasonable range of alternatives, fails to accurately inform the public and decision makers of potential significant environmental impacts and necessary mitigation measures, and fails to adequately analyze cumulative impacts. Because Reclamation has failed to use sound scientific information and instead used flawed and biased methods to assess potential environmental impacts, the DEIS fails to accurately assess likely impacts on fish and wildlife populations and fails to identify and propose reasonable mitigation measures for potentially significant impacts.

In addition, the DEIS largely ignores that over the past several years, the combination of the drought and CVP/SWP operations (including waivers of D-1641 water quality standards and other environmental protections) has driven Delta Smelt, winter run Chinook salmon, and other species to the brink of extinction. The DEIS never mentions that minimum Delta water quality standards under D-1641 were waived, and that RPA actions required under the biological opinions were not implemented during the drought, and the DEIS wholly fails to analyze the impact of the reasonably foreseeable waiver of water quality standards in future droughts. Yet the DEIS only acknowledges under the No Action Alternative that abundance levels for delta

2

EWC22

FWC2 1

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smelt and other fisheries "are difficult to predict" and that "Currently low levels of relative abundance do not bode well for the Delta Smelt or other fish species in the Delta." DEIS at 9-139.\(^1\) Under the Second Basis of Comparison, the DEIS concludes that,

EWC2 2 continued

As described above for the No Action Alternative, abundance levels for Delta Smelt, Longfin Smelt, Striped Bass, Threadfin Shad, and American Shad are currently very low, and abundance and habitat conditions for fish in the Delta in future years are difficult to predict. It is not likely that operations of the CVP and SWP under the Second Basis of Comparison would result in improvement of habitat conditions in the Delta or increases in populations for these fish by 2030, and the recent trajectory of loss would likely continue.

DEIS at 9-150. Despite these acknowledgements that current operations may very well lead to extinction of the species, the DEIS proposes no mitigation measures and does not even conclude that the alternatives result in significant impacts to Delta Smelt. Similarly, for longfin smelt, the DEIS ignores that current operations have resulted in the U.S. Fish and Wildlife Service concluding that listing longfin smelt under the Endangered Species Act is warranted, and continuation of existing spring outflow conditions is likely to result in adverse effects on the species. As a result, the DEIS fails to accurately assess environmental impacts of CVP/SWP operations on Delta Smelt and longfin smelt.

With respect to salmonids, the DEIS acknowledges that climate change will make it more difficult to achieve water temperature requirements with current upstream reservoir operations, impacting salmon and steelhead. See, e.g., DEIS at 9-126 to 9-127. Yet the DEIS fails to conclude that these excessive temperatures constitute significant environmental impacts and fails to consider any mitigation measures.<sup>2</sup> During the current drought, the failure to meet minimum upstream water temperatures resulted in greater than 95% mortality of the 2014 brood year winter run Chinook salmon cohort, and may result in similar mortality for the 2015 brood year. Increased frequency, duration and intensity of upstream temperature exceedances as a result of climate change in combination with CVP/SWP operations are likely to cause significant

EWC23

<sup>&</sup>lt;sup>1</sup> In part, this conclusion is based on inaccurate assessment of entrainment impacts of the Alternatives on Delta Smelt, as discussed below.

<sup>&</sup>lt;sup>2</sup> In contrast, Reclamation's revised draft environmental impact statement for the California WaterFix concludes that under the No Action Alternative, upstream reservoir operations will result in significant adverse environmental impacts to winter run Chinook salmon and green sturgeon spawning and egg incubation. See, e.g., USBR, CA WaterFix RDEIS/SDEIR at ES-48.

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EWC2 3 continued

environmental impacts. The DEIS also fails to demonstrate whether operations of Shasta Dam under the No Action Alternative are consistent with requirements of the 2009 NOAA biological opinion, which includes performance measures and other requirements to maintain adequate cold water pool for winter run Chinook salmon below the dam. As a result, the DEIS must be revised to analyze compliance with the biological opinion and to consider changes in reservoir operations to mitigate upstream temperature impacts, including reductions in upstream water diversions and deliveries to CVP contractors, including senior contractors.

EWC24

Despite these short term and long term impacts, the DEIS asserts that with respect to several salmon and steelhead runs, the effects of CVP/SWP operations under Alternative 1 are similar to those under the No Action Alternative and Alternative 2. See, e.g., DEIS at ES-30 to ES-31, 9-397 to 9-398.<sup>3</sup> However, the federal courts have twice held that operations under Alternative 1 would jeopardize the continued existence and recovery of listed salmonids and steelhead, in violation of the Endangered Species Act. The DEIS therefore suggests that operations under the No Action Alternative and under Alternative 2 would also jeopardize these listed salmonid species (primarily because of upstream water temperature impacts). Yet the DEIS does not identify a significant environmental impact from these effects, and it proposes no clearly defined mitigation measures to address these impacts (except for programs for upstream fish passage at major dams, which are already required under the No Action Alternative).

EWC25

The DEIS is fundamentally flawed, and Reclamation must revise the DEIS to analyze a broader range of alternatives using a credible methodology for assessing environmental impacts, including cumulative impacts.<sup>4</sup>

EWC26

Adding insult to injury the DEIS assumes up to full contract delivery for CVP contractors. This is contrary to legal obligations required to protect fish and wildlife, and provisions of the San Luis Act, the 1986 Coordination Act and compliance with the feasibility report accompanying

**EWC27** 

<sup>&</sup>lt;sup>3</sup> This is at least In part because of Reclamation's flawed methodology for assessing impacts, particularly with respect to operations in the Delta..

<sup>&</sup>lt;sup>4</sup> In addition, Reclamation and DWR have not complied with CEQA, and compliance with CEQA is required before the Department of Water Resources could propose any changes to State Water Project operations. Numerous additional permits and approvals would be required before authorizing any changes to operations, including requirements under the federal Endangered Species Act, California Endangered Species Act, and other state and federal laws.

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that act.<sup>5</sup> Assumptions must not only comply with the law, but comport with reality. Assuming up to full contract deliveries at is not realistic. And does not take into account water supply impacts due to predicted weather, rain, snow and temperature changes.

EWC27 continued

#### Conclusion

As discussed above, the DEIS fails to accurately assess environmental impacts of CVP/SWP operations, fails to consider a reasonable range of alternatives, and includes alternatives that violate Reclamation's water rights and the purpose and need statement of the DEIS. Reclamation must substantially revise the DEIS to comply with NEPA.

EWC28

Thank you for consideration of our views.

#### Sincerely,

Conner Everts Facilitator, Environmental Water Caucus Executive Director, Southern California Watershed Alliance

Dr. C. Mark Rockwell Pacific Coast Representative Endangered Species Coalition

Chief Caleen Sisk Spirtual Leader Winnemen Wintu Tribe

Jim Martin Conservation Director Berkley Conservation Institute, Pure Fishing Jeff Miller Conservation Advocate Center for Biological Diversity

Jonas Minton Senior Water Policy Advisor Planning and Conservation League

Kathryn Phillips Director Sierra Club California

Robyn DiFalco Executive Director Butte Environmental Council

<sup>&</sup>lt;sup>5</sup> The 1960 San Luis Act authorized irrigating only 500,000 acres in total in Merced, Fresno and Kings Counties and required fish and wildlife mitigations and compliance with the Fish and Wildlife Coordination Act's continuing jurisdiction due to impacts to salmon and fishery resources that rely on the Delta Estuary. See PL 86-488 and the feasibility report: <a href="http://cdm15911.contentdm.oclc.org/cdm/ref/collection/p15911coll10/id/2106">http://cdm15911.contentdm.oclc.org/cdm/ref/collection/p15911coll10/id/2106</a>
And Public Law 99-546 [H.R. 3113]; October 27, 1986.

### Appendix 1D: Comments from Interest Groups and Responses

Comments on USBR Long Term Operations Draft Environmental Impact Statement September 29, 2015

Larry Hanson Lloyd Carter President Manager

California River Watch California Save Our Streams Council

Bill Jennings Carolee Krieger Executive Director Executive Director

California Sportfishing Protection Alliance California Water Impact Network

Jim Cox Alan Levine President Director California Striped Bass Association Coast Action Group

Siobahn Dolan Colin Bailey Executive Director Director

Desal Response Group Environmental Justice Coalition for Water

Amber Shelton Adam Scow Conservation Advocate California Campaign Director Food and Water Watch Environmental Protection Information Center

Eric Wesselman Roger Thomas Executive Director President The Golden Gate Fishermen's Association Friends of the River

John McManus Pietro Parravano Executive Director President

Golden Gate Salmon Association Institute for Fisheries Resources

Roger Mammon Michael Martin, Ph.D. President Director

Lower Sherman Island Duck Club Merced River Conservation Committee

Lowell Ashbaugh Frank Egger Vice President, Conservation President Northern California Council Federation of Fly North Coast Rivers Alliance

Fishers

Tim Sloane Huey Johnson Executive Director Founder and President Pacific Coast Federation of Fishermen's Resource Renewal Institute

Associations

1D-92

# Appendix 1D: Comments from Interest Groups and Responses

Comments on USBR Long Term Operations Draft Environmental Impact Statement September 29, 2015

Barbara Barrigan-Parrilla Executive Director Diana Jacobs

Chair, Board of Directors

Restore the Delta Sacramento River Preservation Trust

Lynne Plambeck Larry Collins Executive Director President

Santa Claritans for Planning and the Environment San Francisco Crab Boat Owners Association

Stephen Green Dick Pool President President Save the American River Association Water4Fish

- 1 1D.1.8.1 Responses to Comments from Environmental Water Caucus
- 2 **EWC 2 1:** Comment noted. Please see responses to Comments EWC 2 2
- 3 through EWC 28.
- 4 EWC 2 2: Droughts have occurred throughout California's history, and are
- 5 constantly shaping and innovating the ways in which Reclamation and DWR
- 6 balance both public health standards and urban and agricultural water demands
- 7 while protecting the Delta ecosystem and its inhabitants. The most notable
- 8 droughts in recent history are the droughts that occurred in 1976-77, 1987-92, and
- 9 the ongoing drought. More details have been included in Section 5.3.3 of
- 10 Chapter 5, Surface Water Resources and Water Supplies, and Section 9.3.8 of
- 11 Chapter 9, Fish and Aquatic Resources, in the Final EIS to describe historical
- responses by CVP and SWP to these drought conditions and changes in
- 13 fisheries resources.
- 14 Conditions that have led to consideration of the federal listing of Longfin Smelt
- are discussed on page 9-67 of the Draft EIS.
- 16 EWC 2 3: The discussion in Chapter 9, Fish and Aquatic Resources, does find
- 17 that increased air temperatures and reduced snowfall would result in water
- temperatures that would result in substantial adverse impacts to salmonids and
- sturgeon in the rivers downstream of the CVP reservoirs under the No Action
- 20 Alternative, Second Basis of Comparison, and Alternatives 1 through 5 (see
- 21 subsections "Changes in Exceedance of Water Temperature Thresholds" in
- Section 9.4.3 of Chapter 9). The EIS analysis compares conditions in 2030 under
- 23 the Alternatives 1 through 5 to the No Action Alternative; and under the No
- 24 Action Alternative and Alternatives 1 through 5 to the Second Basis of
- 25 Comparison. The EIS analysis does not compare the conditions under the
- alternatives, No Action Alternative, and Second Basis of Comparison to the
- 27 existing conditions (as is presented in CEQA documents, such as the Bay Delta
- 28 Conservation Plan Environmental Impact Report/Environmental Impact
- 29 Statement).
- 30 The No Action Alternative represents operations consistent with implementation
- of the 2008 and 2009 Biological Opinions. As described in Section 3.3,
- 32 Reclamation had provisionally accepted the provisions of the 2008 USFWS BO
- and 2009 NMFS BO, and was implementing the BOs at the time of publication of
- 34 the Notice of Intent in March 2012. Under the definition of the No Action
- 35 Alternative in the National Environmental Policy Act regulations (43 CFR 46.30),
- 36 Reclamation's NEPA Handbook (Section 8.6), and Question 3 of the Council of
- 37 Environmental Quality's Forty Most Asked Questions, the No Action Alternative
- 38 could represent a future condition with "no change" from current management
- direction or level of management intensity, or a future "no action" conditions
- 40 without implementation of the actions being evaluated in the EIS. The No Action
- 41 Alternative in this EIS is consistent with the definition of "no change" from
- 42 current management direction or level of management. Therefore, the RPAs were
- 43 included in the No Action Alternative as Reclamation had been implementing the
- BOs and RPA actions, except where enjoined, as part of CVP operations for
- 45 approximately three years at the time the Notice of Intent was issued (2008)

- 1 USFWS BO implemented for three years and three months, 2009 NMFS BO
- 2 implemented for two years and nine months).
- 3 **EWC 2 4:** As has been the case in the past, Reclamation will continue to work
- 4 with NMFS and other members of the Sacramento Rivers Temperature Task
- 5 Group (SRTTG) to manage water temperature in Sacramento River to maximize
- 6 benefits for the species. However, it should be noted that meeting such objectives
- 7 may not be possible given current regulatory environment.
- 8 The 2009 NMFS BO was written in consideration of project operations as
- 9 described in the 2008 BA. Since 2008, the projects have been operating to 2008
- 10 USFWS and 2009 NMFS RPA actions. These actions include maintaining Old
- and Middle River flows at certain levels during December through June, increased
- 12 closure of the Delta Cross Channel compared to those of previous requirements
- per SWRCB D-1641, export limitations in April and May based on San Joaquin
- 14 flow at Vernalis, and increased Delta outflow in fall months following wet and
- above normal years. All of these actions affect project operations and result in
- increased reservoir releases. These effects include a shift in export patterns from
- spring to summer months that causes more water to be released from the
- 18 reservoirs than that is being exported to meet the Delta water quality standards
- during a season where Delta is more saline, an increased need in supply from the
- 20 Sacramento River in April and May since San Joaquin River supply is limited.
- and increased reservoir releases in fall months following wet and above normal
- 22 years. Therefore, this reduction in flexibility to use available water supply in
- 23 most efficient way for water supply and water quality needs further limits
- possibility of meeting storage and temperature performance requirements on
- 25 upper Sacramento River (namely NMFS BO Actions 1.2.1, 1.2.2, 1.2.3,
- 26 and 1.2.4.).
- 27 These NMFS BO RPA actions (namely NMFS BO Actions 1.2.1, 1.2.2, 1.2.3,
- and 1.2.4.) are included and benefits are acknowledged in the No Action
- 29 Alternative, Alternative 2, and Alternative 5; however, in this Draft EIS, it cannot
- 30 be assumed that full benefits of storage performance criteria would be achieved
- 31 due to reasons explained above.
- 32 More details have been included in Section 9.4.3 of Chapter 9, Fish and Aquatic
- Resources, in the Final EIS to qualitatively respond to RPA actions not included
- in the CalSim II model in the No Action Alternative and Alternatives 2 and 5.
- 35 **EWC 2 5:** The EIS analysis is based upon the comparison of conditions in 2030
- 36 under different alternatives. The results of those comparisons related to water
- temperatures show relatively minimal changes under the Alternatives 1 through 5
- 38 to the No Action Alternative; and under the No Action Alternative and
- 39 Alternatives 1 through 5 to the Second Basis of Comparison. However, as
- 40 described in the response to Comment EWC 2 3, the water temperatures in the
- 41 rivers downstream of the CVP reservoirs would result in substantial adverse
- 42 impacts to salmonids and sturgeon under Alternatives 1, 2, 3, and 4 and the
- 43 Second Basis of Comparison without the addition of fish passage methods that are
- included in the No Action Alternative and Alternative 5.

- 1 The CVP and SWP reservoirs are operated in accordance with regulatory
- 2 limitations, including applicable state and federal laws, regulations, and water
- 3 rights first prior to deliver of water to CVP and SWP water contractors. The CVP
- 4 and SWP cannot choose to meet the applicable state and federal laws, regulations,
- 5 and water rights; and, it is not possible to fully meet the temperature thresholds
- 6 downstream of the CVP and SWP reservoirs in 2030 with climate change.
- 7 Therefore, fish passage around the CVP and SWP reservoirs is considered to
- 8 provide habitat with appropriate water temperatures for early lifestages.
- 9 **EWC 2 6:** The analysis in the EIS compares conditions under Alternatives 1
- through 5 with the No Action Alternative to identify beneficial and adverse
- impacts for the range of physical, environmental, and human resources.
- 12 **EWC 27:** Contract deliveries are based upon available water supplies on an
- annual and monthly basis after all water flow and demand requirements for
- 14 applicable state and federal laws, regulations, and water rights are met. Full CVP
- and SWP water contract deliveries are used in the CalSim II model as a maximum
- delivery volume, but are only met when sufficient water is available.
- 17 **EWC 2 8:** Reclamation has modified the Final EIS in response to comments from
- 18 EWC and other commenters; and will use the Final EIS in the development of the
- 19 Record of Decision.