

1 THOMAS STOKELY  
2 201 Terry Lynn Avenue  
3 Mount Shasta, CA 96067  
4 Tel: (530) 524-0315  
5 E-Mail: tgstoked@gmail.com  
6 Board Member California Water Impact Network

7 **BEFORE THE**  
8 **CALIFORNIA STATE WATER RESOURCES CONTROL BOARD**

9 HEARING IN THE MATTER OF  
10 CALIFORNIA DEPARTMENT OF WATER  
11 RESOURCES AND UNITED STATES  
12 BUREAU OF RECLAMATION  
13 REQUEST FOR A CHANGE IN POINT OF  
14 DIVERSION FOR CALIFORNIA WATER  
15 FIX

16 TESTIMONY OF THOMAS STOKELY  
17 ON PART 2 ISSUES:  
18 EFFECTS ON FISH AND WILDLIFE  
19 PUBLIC TRUST  
20 PUBLIC INTEREST

21 I, Thomas Stokely, do hereby declare:

22 **I. INTRODUCTION**

23 My name is Thomas Stokely. I am presenting this testimony on behalf of the California  
24 Sportfishing Protection Alliance in this evidentiary hearing before the State Water Resources  
25 Control Board (State Water Board) concerning the petition to change the point of diversion for  
26 the California WaterFix for the State Water Project (SWP) and federal Central Valley Project  
27 (CVP), as specified in the licenses and permits of the US Bureau of Reclamation (USBR) and  
28 the California Department of Water Resources (DWR).

I am a member of the Board of Directors of the California Water Impact Network (C-  
WIN). I have been a salmon and water policy analyst with the Pacific Coast Federation of  
Fishermen’s Associations since 2016. I have been working on Trinity River and Central Valley  
Project issues for approximately 30 years. I spent 23 years as a planner with Trinity County.  
This included approximately ten years on the NEPA/CEQA Project Team that prepared the  
environmental documents for approval of the Trinity River Record of Decision as the CEQA

1 representative for Trinity County. On behalf of Trinity County, I participated in the hearings that  
2 resulted in SWRCB Water Quality Order 89-18 and Water Right Order 90-5 (SWRCB-24)  
3 regarding temperature management of the Sacramento and Trinity River, as well as the hearings  
4 on Decision 1641. I also served as an expert witness for the California Water Impact Network  
5 before the SWRCB regarding the 2009 petition by the Bureau of Reclamation and Department  
6 of Water Resources for a change in the Place of Use. I have made presentations to the State  
7 Board and North Coast Regional Water Quality Control Board six times each regarding the  
8 Trinity River and/or selenium issues (State Board only). I have made four presentations before  
9 the Central Valley Regional Water Quality Control Board regarding selenium issues and the  
10 Grasslands Bypass Project.

11 My statement of qualifications is CSPA-221.

12 My testimony will primarily focus on Key Issue 3(c) for this hearing, which asks:

13 **Key Issue 3(c) If so for a and/or b above, what specific conditions, if any, should the**  
14 **State Water Board include in any approval of the Petition to avoid unreasonable effects**  
15 **to fish, wildlife, or recreational uses?**

16 In my testimony for the Pacific Coast Federation of Fishermen's Associations and the  
17 Institute for Fisheries Resources (PCFFA-87) I discussed WaterFix and CVP impacts to the  
18 Trinity River and how they can be mitigated for the benefit of the Trinity River.

19 This testimony will describe why the damming of the Trinity River and diversion of a  
20 significant portion of the Trinity River's flow at Lewiston to the Sacramento River has not been  
21 good for salmon and other species in the Sacramento and San Joaquin rivers and the Bay-Delta.  
22 The additional impacts to the Central Valley aquatic species from the WaterFix can be partially  
23 mitigated by limiting exports of water from the Trinity River to the Sacramento River, which  
24 would benefit aquatic species in both the Trinity/Lower Klamath rivers and the Sacramento/San  
25 Joaquin and Bay-Delta systems.

1 **II. TRINITY RIVER DIVISION AUTHORIZED TO IRRIGATE SAN LUIS UNIT**  
2 **OF CVP**

3 The Trinity River Act of 1955 (PL 84-386, CSPA-350) authorized construction and  
4 operation of the Trinity River Division of the Central Valley Project. The House and Senate  
5 Committee Reports for the Trinity River Act (Pages 4, 7,15, 23 and 27, CSPA-351) specified  
6 that a significant portion of the diversions from the Trinity River were intended for the San  
7 Luis Unit.

8 Irrigation of the San Luis Unit of the CVP has increased the mobilization, storage and  
9 discharge of salt and selenium to the San Joaquin River, its tributaries and the Bay-Delta  
10 according to the Central Valley Regional Water Quality Control Board (Page 2, paragraph  
11 2,<sup>1</sup>, CSPA-352) and the U.S. Geological Survey's Report Open File Report-00-416<sup>2</sup> (Page  
12 23, CSPA-353).

13 The increased irrigation of seleniferous soils in the San Luis Unit can be seen in the map  
14 showing expansion of the CVP Place of Use as a result of adding the Trinity River Division  
15 (CSPA-354). The map is melded based on Figure 7 on page of USGS Water Resources  
16 Investigation 88-4001, 1988<sup>3</sup> (CSPA-355) and Reclamation Map No. 416-208-341 (CSPA-  
17 356). The melded map (CSPA-354) clearly shows that damming the Trinity River allowed  
18 irrigation of the most seleniferous soils in the San Luis Unit and therefore harming the  
19 aquifers and aquatic resources of the San Joaquin River, its tributaries and the Bay-Delta.  
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25 <sup>1</sup>See Region 5 WQCB Staff report for public workshop on salt, accessed at  
[https://www.waterboards.ca.gov/rwqcb5/water\\_issues/basin\\_plans/cvwb\\_jt\\_pub\\_wkshp/salt\\_staff\\_rpt.pdf](https://www.waterboards.ca.gov/rwqcb5/water_issues/basin_plans/cvwb_jt_pub_wkshp/salt_staff_rpt.pdf)

26 <sup>2</sup> <https://pubs.usgs.gov/of/2000/ofr00-416/pdf/OFR-00-416.pdf>

27 <sup>3</sup> See "Reconnaissance Investigation of Water Quality, Bottom Sediment, And Biota Associated with Irrigation Drainage in  
28 The Tulare Lake Bed Area, Southern San Joaquin Valley, California," 1986-87, By Roy A. Schroeder U.S. Geological  
Survey and Donald U. Palawski and Joseph P. Skorupa U.S. Fish and Wildlife Service  
U.S. Geological Survey Water-Resources Investigations Report 88-4001, Accessed at  
<https://pubs.usgs.gov/wri/1988/4001/report.pdf>

1       **III. TRINITY RIVER DIVERSIONS TO THE CVP INCREASED DELTA FISH**  
2       **MORTALITY FROM DELTA PUMPING**

3       The diversions of water from the Trinity River have allowed increased Delta pumping,  
4       thereby increasing the entrainment and mortality of Delta salmon (Figure 10, Page 19,  
5       Kimmerer, 2008<sup>4</sup>, CSPA-357). Therefore, diversions of Trinity River water that are exported  
6       from the Delta are not good for salmon in the Delta.

7       **IV. TRINITY RIVER DIVERSIONS TO THE SACRAMENTO RIVER HARM**  
8       **SACRAMENTO RIVER SALMON**

9       Trinity River Diversions to the Sacramento River discharging from the Spring Creek  
10      Powerplant into Keswick Reservoir are usually much warmer than discharges from Shasta Dam  
11      into Keswick Reservoir during hot summer months (CSPA-358)<sup>5</sup>.

12      As I discussed in my testimony for PCFFA and IFR (PCFFA-87), those diversions from the  
13      Trinity River to the Sacramento River at Keswick can be both helpful for the Trinity River by  
14      keeping Trinity temperatures low with short residence time in Lewiston Reservoir, and harmful  
15      through exhaustion of Trinity Reservoir cold water supplies resulting in violation of North Coast  
16      Basin Plan Temperature Objectives for the Trinity River.

17      It is clear that minimizing Trinity River diversions to the Sacramento River during hotter  
18      months should be limited to the extent necessary to keep Trinity River release temperatures at  
19      Lewiston Dam within acceptable levels without significantly warming the Sacramento River.

20      **V. CONCLUSION AND RECOMMENDATIONS**

21      Damming of the Trinity River and diverting its waters to the Sacramento River and  
22      subsequent export from the Delta has not been a good thing for fish and other aquatic life in the  
23      Sacramento River, Bay-Delta Estuary and the San Joaquin River. This is the result of warm  
24      water discharges into the Sacramento River during hotter times of the year when salmon are  
25      reproducing, increased Delta pumping with associated increased fish mortality, as well as

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27      <sup>4</sup> See [https://www.waterboards.ca.gov/waterrights/water\\_issues/programs/bay\\_delta/docs/cmnt081712/sr\\_csd/kimmerer2008.pdf](https://www.waterboards.ca.gov/waterrights/water_issues/programs/bay_delta/docs/cmnt081712/sr_csd/kimmerer2008.pdf)

28      <sup>5</sup> Data from <http://cdec.water.ca.gov/cgi-progs/queryF?SPP> and <http://cdec.water.ca.gov/cgi-progs/queryF?SHD>

1 selenium and salt mobilization, storage and discharge into the San Joaquin, its tributaries and  
2 Bay-Delta estuary from increased irrigation of saline/seleniferous soils in the San Luis Unit.

3 I recommend that in order to minimize any environmental impacts to aquatic resources  
4 from construction and operation of the WaterFix, the following mitigation measures should be  
5 adopted:

- 6 1. Minimize Trinity River diversions to the Sacramento River to the extent necessary to  
7 keep Trinity River release temperatures at Lewiston Dam within acceptable levels  
8 without significantly warming the Sacramento River,
- 9 2. Limit CVP Delta exports to minimize fish mortality, and
- 10 3. Minimize irrigation of saline, seleniferous soils within the San Luis Unit and other  
11 areas of the San Joaquin and Tulare basins to reduce groundwater and surface water  
12 contamination with salt and selenium.

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15 Executed this 29th day of November, 2017 at Mount Shasta, California.

16  
17 *Thomas Stokely*

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20 Thomas Stokely