# CENTRAL DELTA WATER AGENCY SOUTH DELTA WATER AGENCY LOCAL AGENCIES OF THE NORTH DELTA





April 23, 2014

Assemblymember Anthony Rendon State Capitol P.O. Box 942849 Sacramento, CA 94249-0063

Re: AB2554 As Amended March 24, 2014

Dear Assemblymember Rendon:

These comments are jointly submitted on behalf of the Central Delta Water Agency and Local Agencies of the North Delta ("LAND"). As interests within the Delta, we submit these comments in an effort to constructively engage primarily on the issue primarily on Bond funding for Chapter 8, Sacramento-San Joaquin Delta Sustainability. Because of our concern for existing agriculture and existing communities in the Delta we, unlike many, are not asking for additional moneys to be allocated toward our region. Instead, we urge that any Bond investments in the Delta be made with regard to the existing communities and with the recognition that any bond funded activities in the Delta must both be supported by sound science and be planned and maintained in a manner that is consistent with the maintenance of the agriculturally-based economy of the Delta.

Focusing specifically on the fish that have received so much attention, we do not believe that additional conversion of agricultural land in the Delta to so-called habitat, will help much, if at all. It is well-documented that the focal fish populations of the Delta crashed after the construction of the CVP and SWP pumps in the south Delta, well after the reclamation of the Delta islands occurred around the turn of the 19<sup>th</sup> century. Looking to habitat creation as a panacea for the damage done to the Delta by the SWP and CVP – along with other stressors – is not likely to succeed and therefore does not provide the public benefits necessary to justify Bond funding. Moreover, as explained more fully below, to the extent the SWP and CVP have

LAND is a coalition comprised of local reclamation, levee and water districts in the northern geographic area of the Delta.

obligations to mitigate for existing impacts, those actions would not represent the types of actions that should be funded by the statewide bonds on behalf of all taxpayers in the state.

### I. Background

We appreciate your commitment to a thorough and equitable process of developing the Water Bond. While we support certain investments in the Delta, we are concerned that AB 2554 currently allows for a significant portion of the funding to be used to shift the costs of the Bay Delta Conservation Plan ("BDCP") away from the project contractors and onto the general taxpayers of the State. As you know, the BDCP seeks issuance of a fifty (50) year take permit of endangered species for SWP/CVP exports from the Delta.

According to the BDCP itself, "The BDCP is expected to secure a large portion of the funds allocated to Delta sustainability, as well as smaller portions of funds allocated to conservation and watershed protection." (Draft BDCP, Chapter 8, p. 8-84 (Nov. 2013), see <a href="Exhibit A">Exhibit A</a>, BDCP Chapter 8 excerpts.) The exact amounts intended to be used from two separate statewide bonds are detailed in Table 8-37, and total over \$3.7 billion. It is for this reason, that proponents of BDCP have consistently called for larger funding allocations to Chapter 8 "Sacramento San Joaquin Delta Sustainability."

Proponents of the BDCP claim that the habitat and conservation proposals in the plan as having statewide public benefits, but clear statewide benefits are not present. The current public review draft of the BDCP shows that implementation of the BDCP could potentially imperil nine key species including salmon, Delta smelt and greater sandhill cranes. Independent scientific review has repeatedly found that the BDCP is overly optimistic with respect to the potential benefits to imperiled species by creating new habitat in the Delta, which cannot substitute for flows. Delta restoration projects must be developed using the best available science and criteria developed through transparent, locally inclusive processes to that actually benefit species at risk, not to fulfill regulatory requirements for one project. The so called "restoration" components of BDCP do not meet these basic criteria and should not receive public funds through a water bond or any other source. In short, it is a misnomer to call funds destined for BDCP "Delta Sustainability."

While we oppose funding of any aspect of BDCP, some habitat improvement and

See article by Matt Weiser, Fate still unclear for nine species in Delta water tunnel plan (December 18, 2014), available at: http://www.sacbee.com/2013/12/18/6009767/fate-still-unclear-for-nine-species.html (species include: Longfin smelt, Delta smelt, Winter Spring and Fall Chinook salmon, Green sturgeon, White sturgeon, Steelhead and Greater sandhill crane.

See, e.g., Delta Science Program Independent Review Panel Report (BDCP Effects Analysis Review, Phase 3), p. 25 ("The Effects Analysis does not adequately defend conclusions regarding the net effects of the BDCP, including habitat restoration. The net effects analysis tends to over-reach conclusions of positive benefits for covered fish species, given the inability to quantify the overall net effect and the realization of high uncertainty."); see also Nature Conservancy and American Rivers, Panel Review of the Draft Bay Delta Conservation Plan (2013), p. 82 ("The BDCP is overly optimistic about the potential benefits to delta and longfin smelt of physical habitat restoration.").

conservation projects could be helpful in the Delta and its watersheds. It is vital, however, that these habitat projects be conducted in a manner that is compatible with existing agricultural uses and communities in the Delta. Notably, there are already thousands of acres of acres of land in the Delta that are already owned by the state or other entities that are already or are planned for habitat and related uses. (See Exhibit B, Habitat Types Acreage Table.) Any Bond funds should first be directed toward improving the habitat values of those lands, prior to the purchase and conversion of new lands to be modified and managed for habitat purposes. The amendments we propose below promote this direction.

From a historical perspective, moreover, it is important to note that the costs of the SWP launched by the passage of the California Water Resources Development Bond Act (1960 General Election) was to be paid by the project contractors. The argument in favor of passage clearly provided:

The provision will not be a burden on the taxpayer; no new state taxes are involved; the bonds are to be repaid from project revenues, through the sale of water and power. In other words, it will pay for itself.

(See Exhibit C, copy of the Argument in Favor of the passage; see also Exhibit D, quotation of then Governor Edmund G. (Pat) Brown in the case of Goodman v. County of Riverside (1983) 140 Cal. App. 3rd 900, 906, wherein the Governor stated "the plan itself is completely self-supporting. The law provides that the contracts have to provide for the repayment of the cost of the entire Project."

The SWP was a plan to continue to develop water projects at contractor expense to meet the obligations to the Delta and other areas of origin, including salinity control for the Delta (Water Code, §§11460 et seq. and Water Code,§§ 12200 et seq.); to preserve fish and wildlife (Water Code, §11912); and to meet the project Table A entitlements of about 4.25 million acre feet. No water was to be diverted from the Delta for use elsewhere unless adequate supplies for the Delta were first provided.

The SWP plan recognized that development within the watersheds, including recapture of project water and demands for Table A entitlements would build over time and that by the year 2000 five million acre feet per year of supplemental water delivered to the Delta would be required from developments in North Coast watersheds (Exhibit E). None of such North Coast water was developed. The lack of developed water together with the failure to provide a drainage system for the San Joaquin Valley and failure of the SWP to operate with sufficient carryover storage to meet senior obligations and water quality standards during dry years, are the causes of the crises which confronts us today.

The financial obligations of the SWP contractors should not now be shifted onto the state taxpayers. Yet, the BDCP documents clearly show the intent is to shift the cost of conservation measures claimed to be ecosystem enhancement onto the general taxpayers. Endangered fish have not been preserved by the SWP and in fact have suffered a severe decline since the start of project operations and there is no direct correlation between the fish declines and terrestrial or wetland habitat in the Delta (Exhibit F). In order to ensure the requisite public benefits,

conditions around the types of restoration projects that qualify for funding are needed – whether the restoration is BDCP related or not.

For historical perspective on why we are here now, it is important to recognize that the State Water Resources Control Board in its 1978 Decision 1485 at page 13, found that: "To provide full mitigation of project impacts on all fishery species now would require the virtual shutting down of the project export pumps." Yet Project exports were not curtailed and in fact continued to increase after 1978 (Exhibit G).

### II. Specific Suggestions to March 24, 2014 Version of AB 2554

It is in the context of the above that we request the following amendments:

### Page 4, lines 3-5, Section 79701(d)

Replace the last sentence with the following: "However, the planned water storage projects in the North Coast of California which were to supplement water flowing into the Delta by 5 million acre ft. per year by the year 2000 were not constructed and the water environment has deteriorated."

### Page 9, line 9, Section 79711(a)

At the beginning before "Funds" insert "Subject to the limitations in Section 79712".

### Page 9, line 15, Section 79711(b)

This language should be replaced with the following:

"(b) Funds provided by this division shall not be expended for the acquisition or transfer of water rights except for a permanent dedication of water approved in accordance with Section 1707 where the state board specifies that the water is in addition to water that is required for regulatory requirements as provided in subdivision (c) of Section 1707. The requirement that a dedication of water be permanent shall not preclude the expenditure of funds provided by this division for the initiation of the dedication as a short-term or temporary urgency change, that is approved in accordance with Section 1707 and either Chapter 6.6 (commencing with Section 1435) of, or Chapter 10.5 (commencing with Section 1725) of, Part 2 of Division 2, during the period required to prepare any environmental documentation and for approval of permanent dedication."

This change is crucial as the proponents of BDCP intend to substitute purchase of water with public funds when the habitat creation does not show the measureable improvements for species.<sup>4</sup> (See Exhibit H, a 2012 document obtained from the Kern County Water Agency showing BDCP project proponents plan to use bond funds for water purchases, also available at:

We note also that Jerry Meral, the former deputy secretary of the California Natural Resources Agency in charge of the Bay Delta Conservation Planning Program recently suggested language on behalf of the National Heritage Institute that explicitly allows for purchase of water with Water Bond funds.

http://www.contracostatimes.com/ci\_10152127.) This change will protect against creation of a new version of the failed Environmental Water Account, which cost taxpayers dearly and delivered few benefits to fish. This Bond should not become the vehicle for such waste, regardless of the outcome of BDCP. Moreover, requiring water transfers to go through the normal State Water Resources Control Board Water Code section 1707 transfer process provides needed protections to the environment and would help ensure that environmental impacts of water transfers (particularly the practice of groundwater substitution) are fully reviewed and properly mitigated.

### Page 9, line 21, Section 79712

Replace "agencies" with "contractors".

### Page 9, line 22, Section 79712

After the word "facilities" insert ", and the fifty (50) year ESA take permit secured through the BDCP."

Also add the following: "Funds provided by this division shall not be expended for 1) the mitigation of any of the impacts of the State Water Project or Central Valley Project, or 2) the cost of compliance of such projects with any regulatory requirements, including without limitation biological opinions, take permits, reasonable and prudent actions, and water quality standards, or 3) the cost to carry out the affirmative obligations of the projects to preserve and restore fish and wildlife, including without limitation achieving the CVPIA restoration of anadromous fish to ensure a sustainable natural production at levels not less than twice the average levels attained during the period of 1967-1991, or 4) the costs to ensure a San Joaquin Valley drainage solution, or 5) any costs related to the Bay Delta Conservation Plan (BDCP)."

### Page 17, lines 25-27, Section 79732(e)

Delete lines 25-27.

Note: The specific settlements are set forth in Section 79734 and blanket funding of unspecified settlements is not in the public interest.

### Page 18, line 18, Section 79732(n)

Add the following: "Funds provided by this chapter shall not be expended for 1) the mitigation of any of the impacts of the State Water Project or Central Valley Project, or 2) the cost of compliance of such projects with any regulatory requirements, including without limitation biological opinions, take permits, reasonable and prudent actions, and water quality standards, or 3) the cost to carry out the affirmative obligations of the projects to preserve and restore fish and wildlife, including without limitation achieving the CVPIA restoration of anadromous fish to ensure a sustainable natural production at levels not less than twice the average levels attained during the period of 1967-1991, or 4) the costs to ensure a San Joaquin Valley drainage solution, or 5) any costs related to the Bay Delta Conservation Plan (BDCP)."

### Page 27, line 1, Section 79750(a)(1)

Change "Four hundred million dollars (\$400,000,000)" to "Eight hundred million dollars (\$800,000,000)".

Note: Due to the vast amount of habitat already in place and anticipated from private projects, including the Delta Wetlands Project, there is less need for investment in ecosystem than there is for maintaining and improving levees which are essential to protection of local habitat, agriculture, recreation, water quality and the export of water from the Delta.

### Page 27, line 4, Section 79750(a)(2)

Change "Six hundred million dollars (\$600,000,000)" to "Two hundred million dollars (\$200,000,000)".

As discussed above, we submit that there is limited justification for conversion of agricultural lands to create additional habitat in the Delta. Moreover, the SWP and the CVP are already required to create significant acreages of habitat under the Biological Opinions, including 8,000 acres of intertidal and associated subtidal habitat in the Delta and Suisun Marsh to benefit longfin smelt. These Biological Opinions were recently upheld by the Ninth Circuit Court of Appeals, and the SWP/CVP are already moving forward with those projects. (See Exhibit I, showing map of planned habitat restoration projects already underway to meet the requirements of the Biological Opinion.)

### Page 27, line 6, Section 79750(a)(2)

Add "and the Delta Protection Commission's Delta Investment Fund established under Public Resources Code, section 29778.5 . . ."

The Delta Investment Fund, established in 2009 and administered by the Delta Protection Commission is the vehicle to promote the sustainability of the Delta. (See Exhibit J, What is the Delta Investment Fund?) Without such funding, proposed section 79751, subdivision (c), cannot be adequately carried out.

### Page 27, lines 7-9, Section 79750(a)(3)

Delete the entirety of (3).

Note: Specific allocation is necessary to avoid circumvention of the purpose and need. The levee programs require a net gain in habitat although such is incidental to the primary purpose of levee maintenance and improvement. The mix of the two objectives in the Delta is not cost effective.

### Page 27, line 13, Section 79750(b)

Add "The funding restrictions in Section 79712 shall apply".

### Page 27 after line 34, Section 79754

Add "(d) In the Delta as defined in 12220 the implementation of this section shall to the maximum extent possible seek to achieve the objectives through projects located in the channels, on the channel islands, on the former islands and areas which were in a flooded condition as of January 1, 2014, on lands owned in fee as of January 1, 2014 by State and Federal agencies, for habitat on those lands in public or nonprofit ownership for conservation purposes as of January 1, 2014, and for operation, maintenance and improvement of facilities at Brannan Andrus State Park and other existing state and local parks, for operation, maintenance and improvement of existing public and commercial boat launching, docking and service facilities, for improvements, policing and refuse clean-up of public access locations along existing public roadways and for the improvement and addition of camping areas as a part of existing public and commercial marinas. Project funding shall include grants to public agencies sufficient to establish annuities or endowments to pay all future property taxes, local agency and local district assessments, fees and charges and other levies against the property had the property remained in private ownership. Title to lands and easements shall to the maximum extent possible remain with the landowner and/or a local agency with property management capability. Projects that propagate or include endangered or threatened species shall include adequate buffers and safe harbor or other protective measures to avoid interference with agricultural operations on both the subject land and neighboring lands. Adequate funding for such measures and for acquiring, managing and monitoring shall be included in the grant. Projects outside the scope of the above listing shall be limited to the funding of projects approved in advance by the Board of Supervisors of the county or counties in which the project is located."

### Page 27, line 39, Section 79755(a)

Replace "for any of the following" with "as follows".

### Page 28, line 1, Section 79755(a)(1)

Before "Local" insert the following: "Of the funds provided by this section, not less than two hundred million dollars (\$200,000,000) shall be committed to fund".

### Page 28, line 3, Section 79755(a)(1)

Add "The commitment of funding and program shall extend for a period of years until the funding is exhausted."

### Page 28, line 4, Section 79755(a)(2)

Before "Special" insert the following: "Of the funds provided by this section, not less than four hundred million dollars (\$400,000,000) shall be committed to fund".

### Page 28, line 6, Section 79755(a)(2)

Add "The commitment of funding and program shall extend for a period of years until the funding is exhausted."

### Page 28 after line 13, Section 79755

Add new section (c) as follows: "Funding for levee projects in the Delta as defined in 12220 shall seek to achieve a base level of protection for all levee systems at least equivalent to the PL 84-99 USACE standard for agricultural levees and for those levee systems most critical to protect infrastructure, water quality or water delivery a higher level of protection as deemed appropriate by the Department of Water Resources."

### Page 30 after line 21, Section 79765

Add the following: "(c) Funds provided by this chapter shall not be expended for 1) the mitigation of any of the impacts of the State Water Project or Central Valley Project, or 2) the cost of compliance of such projects with any regulatory requirements, including without limitation biological opinions, take permits, reasonable and prudent actions, and water quality standards, or 3) the cost to carry out the affirmative obligations of the projects to preserve and restore fish and wildlife, including without limitation achieving the CVPIA restoration of anadromous fish to ensure a sustainable natural production at levels not less than twice the average levels attained during the period of 1967-1991, or 4) the costs to ensure a San Joaquin Valley drainage solution, or 5) any costs related to the Bay Delta Conservation Plan (BDCP)."

\* \* \*

Thank you for considering these comments. Please contact the undersigned to discuss any of the suggestions in this letter.

Yours very truly,

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Enclosures

cc:

Senator Lois Wolk

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## **Implementation Costs and Funding Sources**

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### Table 8-35. Present Value of Capital Outlays by Flan Implementation Phase and Element

_	Average Is	50-Year				
BDCP Plan Implementation Elements	Near Term (Yrs 1–10)	Early Long- Term (Yrs 11–15)	Late Long- Term (Yrs 16-50)	Permit Term Total Expenditure (Millions)*		
Water conveyance facilities (CM1)	\$1,225.8	\$0.0	\$0.0	\$12,258.0		
Natural communities restoration and protection (CM2-CM11)	\$125.1	\$67.0	\$28.2	\$2,571.7		
Other stressors (CM12- CM22)	\$12.8	\$16.7	\$7.4	\$471.2		
Changed circumstances	\$0.7	\$1.2	\$1.7	\$72.4		
Fresent Value of Capital Outlays	\$1,364.4	\$84.9	\$37.3	\$15,373.4		

Notes:

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3 Table 8-36. Present Value of O&M Outlays by Plan Implementation Phase and Element

_	Average In	50-Year		
ADCP Plan Implementation Elements	Near Term (Yrs 1–10)	Early Long- Term (Yrs 11–15)	Lata Long- Tenn (Yrs 16–50)	Fermit Term Total Expenditure (Millions)*
Water conveyance facilities (CM1)	\$0.0	\$17.1	\$14.6	\$595.2
Natural communities restoration and protection (CM2-CM11)	\$1.0	\$2.0	\$7.2	\$96.3
Other stressors (CM12- CM22)	\$25.9	\$26.5	\$14.0	\$882.0
local government revenue replacement	\$1.4	\$2.1	\$2.1	\$96.2
Monitoring and research measures	\$14.6	\$13.9	\$7.2	\$466.0
Plan administration	\$5.7	\$5.2	\$2.7	\$177.0
Present Value of Operating Outlays	\$48.5	\$66.7	\$42.7	\$2,312.8

Notes:

Discounted to present value with 3% real discount rate.

The 50-year total expenditures are more precise than the annual averages and may not sum directly from the annual averages due to rounding error.

Discounted to present value with 3% real discount rate.

The 50-year total expenditures are more precise than the annual averages and may not sum directly from the annual averages due to rounding error.

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### 8.3 Funding Sources

### 8.3.1 Scope and Purpose of Funding Sources

This section identifies the potential sources that may be available to support the funding of the 3 implementation actions identified in the previous sections. Consistent with the goals of the NCCPA A 5 and ESA, the BDCP has been designed to mitigate for the effects of the activities proposed in this Plan, provide for the conservation and management of threatened and endangered species in the 6 Plan Area, help prevent species from becoming threatened or endangered, and improve ecosystem 7 health. To achieve these important goals, the Plan will be funded by the Authorized Entities, which 8 0 will include funding from public sources, through state and federal agencies, and other public 10 funding sources. Funding will be provided by the participating state and federal water contractors for construction and operation of the new water facilities, as well as for mitigation necessary to 11 address impacts to terrestrial and aquatic impacts associated with construction and operation. 12 13 Funding from a variety of state and federal sources will be available for the actions in the conservation strategy. Initial state funding will largely come from a new water bond currently on the 14 2014 statewide ballot. Certain federal funding is expected to come from the same authorities that 15 have been used in the past to support Delta restoration efforts. However, it is anticipated that 16 17 additional federal legislation will be required to authorize the continued use of certain federal funds and to extend or broaden fund availability. Such legislation could also provide for new federal 18 19 funding sources.

Every effort has been made to identify potential funding sources and make reasonable assumptions about the applicability of those funding sources to the BDCP so that all expected costs have been addressed. For instance, many of the state and federal funding sources have specific authorities that dictate the programs, projects, and in some cases geographic locations in which funds are allocated. Every effort has been made to assess these authorities and their applicability to the BDCP. Additionally, some funding sources have cost-sharing requirements; this chapter assumes that matching funds will be available. Cost-sharing requirements have been taken into account in the development of potential funding estimations. As referenced above, additional funding sources that have not been identified in this section may become available during the 50-year life of the BDCP.

It is important to note that this chapter is not a financing plan for the state or federal water contractors or any other party. Separate financing plans, funding agreements, legislative authority, and other documents will be needed to enable the use of certain funding sources. This chapter provides an overview of potential funding sources to support the implementation of the BDCP as well as the level of past financial support at the state and federal level for similar Delta activities.

### 8.3.2 Summary of Funding Sources

- Table 8-37 provides a summary of all potential funding sources for the BDCP by entity, source, and Plan component. Each of these funding sources is described below, along with assumptions regarding applicability to the conservation measures (Table 8-38.
- Table 8-39, and Table 8-40). Some funding sources are highly specific in the types of projects or activities that they fund, while others are more broadly defined. These limitations are important determinants of overall funding adequacy. Furthermore, some funding sources have a relatively short expected lifespan, while others may provide funding through the 50-year permit term.

### Table 2-37. Summary of Estimated Funding by Entity, Sources, and Plan Component

		Estimated	Funding by Plan t	iomponent (in mi	Hons \$)°			-
Potential Funding Source <sup>b</sup>	Program Administration	Research; Adaptive Menagement, and Remedial Mensures	Water Facilities and Operation (CM1)	Natural Community Protection and Management (CMS, CM12) <sup>4</sup>	Natural Community Restaration (CM2, CM2– CM10, CM12, CM22)	Other Stressers Conservation (CM13-CM21)	Total	%
Participating State and Federal Water Contractors	\$31	\$113	\$16,027	\$266	\$269	\$72.84	\$16,930	69,49
State Tunding Roomes		JAN 220 0						
New Water Bond (2014)		-		\$194	\$900	\$430	\$1.514	6.19
Swend Water Boad	21 2 2 2 2	_		\$205	\$1,200	\$840	\$2,245	9.1%
Proposition 1E	-	-		-	\$100		\$100	0.494
Proposition 64		-	-		\$42	\$21	\$63	0.3%
Wildlife Conservation Board	-		-	\$10	\$40	741	\$50	0.3%
Interagency Scological Program(grate (applies)		355		* ****			\$55	1 to 1 to 1 to 1
telle Strevardship Council		\$90	_	-	-	·	\$90	0.2%
Surgicism Restoration Programs		_		-			220	0.49
Invironment Enhancement Funds		_	-	_	261		-	0.096
Schorine Restaration Grant Program		_	_			- Ē.		0.0%
interestal State Amading		\$145		\$399	\$1.202	\$1,291		0.0%
Period Panding Sources					All reports (2016)	#1,471	\$4,127	16.6%
idsting and New Federal Authorizations				**	****** **** · · ·			
leatral Valley Project Improvement Act Restoracies (und(Reclamation)	-	8		\$50		\$50	\$160 t	0.496
A Bay-Delta Sesturation Appropriations (Reclamation)	\$100	\$54D			5602	\$4,037	00 0 do -	100
A Bay-Batta Passorudon Appropriations (USFAS)	\$60	\$10	_	596	\$96	\$1,027	\$2,369 9	
A Say-Delta Restoration Fund (EPA)		-	2	-	\$238	Age Tour	3261 1	(a) No.
A Bay Doits Restorations preopriations (USGS)	-	\$175		-	63(2)(2)		\$298 1	
A Bay-Bei la Resignation appropriet less (MRCS)			-		\$102		\$175 0	-
A Bay Delta Restoration Appropriations (NBFS)	-	\$35			<b>新工程</b>		\$102 0	
egional Ecosystem Conservation, NMFS	-	710-					\$15 0	C 100 10
soury Restoration Set (NMFS)	T. 4			_	\$5	85	\$10.0	10%

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November 2013 SP 99548-12

		Estimated	Funding by Plan (	omponent (in mi	lions \$)°		
Potential Funding Source	Program Administration	Monitoring, Research, Adaptive Management, and Remedial Mezsures	Water Facilities and Operation (CM1)	Natural Community Protection and Management (CM3, CM11) <sup>2</sup>	Natural Community Restoration (CM2, CM4- CM10, CM12, CM22)	Other Stressors Conservation (CM13-CM21)	Total %
Existing Federal Grunts						-	
Wetlands Reserve Program (NRCS)		_	-	\$125	-	_	\$125 0.5%
Cooperative Endangered Species Conservation Fund(USFWS)			-	\$50		-	\$50 0.2%
Environmental Quality Incentives Program (NRCS)		_	_	\$50			\$50 0,2%
Land and Water Conservation Fund		-		\$25			
National Coastal Wetlands conservation grants (USFWS)	-		_		\$5		\$25 0.1%
Restoration Partnership Grants (NMFS)		_	100-00-0		67		\$5 0.0%
San Francisco Bay Area Water Quality Improvement Fund (EPA)	_	_		<del></del>	\$5	\$3	\$10.0.0%
Subtotal Federal Funding	\$160	\$840		\$396		-	\$5,0.0%
Other Funding Scurges		+010		\$370	\$1,062	\$1,087	\$3,545 14.3%
nterest income	\$145					400	
Summary					<del></del>	\$20	\$165 0.7%
Total Funding	\$336	\$1,098	\$16,027	\$1,061	\$3,613	An con	
Total Costs	\$336	\$1,097	\$16,027	\$1,061		\$2,623	\$24,758 100,0%
Ofference (funding minus cost)	\$0	\$1	\$0,027		\$3,610	\$2,623	\$24,754 -
Votes:	-	47	30	\$0	\$3	\$0	\$40.0%

In most cases, funding amounts are estimated only based on funding history, overlap with BDCP goals, and assessment of competitiveness of BDCP projects. Where a range is provided in the test, the midpoint of the range is used for this table unless otherwise described. Funding estimates from state and federal agencies do not represent commitments and are subject to grant awards, annual appropriations from Congress, and passage of water bonds by the voters of California. Totals may not sum directly from components due to rounding error. See text for explanation of funding source, including legal situtions for federal and state funding.

See text for rationale of funding estimate. Where funding sources apply to multiple Plan components, funding is allocated proportional to cost across applicable components, unless there is a basis to allocate funds differently. Allocations are estimates of potential funding and do not imply dedicated or guaranteed funding.

33-3

includes property tax revenue replacement for land acquired in fee title from private parties.

Punding may be provided from this source but it is not assumed due to the uncertainty in funding to support the BDCP.

See Table 8-55, Potential Funding from California Bay-Delta Restaution Appropriations, by Federa! Agency and Plan Component, for details on funding.

Excludes EIR/EIS mitigation costs.

### 1 Table 8-33. Potential Funding Source by Conservation Measure—Water Facilities and Operation, Yolo Sypass Enhancement, and Avoidance Measures

Potential Funding Sources*	CM1: Water Facilities and Operation	CM2: Yolo Dypass Fisheries Enhancement	CM22: Avoidance and Minimization Measures
Authorized Entity Funding			
DWR—revenue bonds	X		¥
State water contractors	X		
Central Vailey Project Improvement Act Restoration Fund (Reclamation)	Xé		· ·
California Bay-Delta Restoration appropriations—waterand related resources	annual control of decree of the second of th	X	A
Federal water contractors	X		
Other State Funding Sources			
Ecosystem Restoration Program (CDFW)			v
New Water Bonds			
Proposition 1E			
Proposition 84			
Other Federal Funding Sources	X	<del></del>	Λ
California Bay-Delta Restoration appropriations (all federal agenciess)		· · · · · · · · · · · · · · · · · · ·	V
Estuary Restoration Act (NMFS)		X	
Restoration partnership grants( NMFS)		x	and the same of the same
nvestigations, energy, and water development appropriations (USACE)	λ.		There are not been
Other Funding Sources	X		- A
nterest income	XX.	X	X
lotes:	X	**	

See texts or rationale of funding availability. This table notes potential funding sources and does not imply dedicated or guaranteed funding.

All federal agencies includes appropriations to Reclamation, USACE, NRCS, NMFS, USGS, USFWS, and EPA.

DWR = California Department of Water Resources; CDFW = California Department of Fish and Wildlife; NMFS = National Marine Fisheries Service; USFWS = U.S. Fish and Wildlife Service; USACE = U.S. Army Corps of Engineers; Reclamation = Bureau of Reclamation; NRCS = Natural Resources Conservation Service; USGS = U.S. Geological Survey; EPA = U.S. Environmental Protection Agency

Avoidance and minimization measures are applied to many conservation measures (including restoration) to avoid and minimize effects on the covered species. These measures would be incorporated into most of the projects conducted under other conservation measures, so would be funded by a wide range of sources.

Applicable for refuge water provided by Reclamation (not facility construction).

### Table 8-39. Potential Funding Source by Conservation Measure—Habitat Protection, Restoration, and Management

Potential Funding Sources* Authorized Entity Funding DWR—biological opinions for long-term coordinated operations of SWP	CM3 Natural Communities Protection and Restoration	CM4: Tidal Natural Communities Restoration	CMS: Sensonally inundated Floodplain Restoration	CM6: Channel Margin Enhancement	CM7: Riparian Natural Community Restoration	CM8: Grassland Natural Community Restoration	CM9: Vernal Pool and Alkail Seasonal Wadand Complex Rextoration	CM10: Nontidal Marsh Restoration	CM11: Natural Communities Enhancement and Management	CM12: Methylmercury
State Funding Sources	***	X							-	X
New Water Ronds Proposition 1E	X	_ X	X	_ X	X	х	x	X	Х	Х
Proposition 84	- v -	_ X	- X	X	X	- X	X_	_ x		X
Wildlife Conservation Board	X	X	X	· X -	X	_ X	_ X	X_	* -	X
ederal Funding Sources		^_	<u> </u>	X	X					_ ~
entral Valley Project Improvement Act Restoration Fund (Reclamation)  alifornia Bay-Delta Restoration appropriations—water and related resources	Х	<u>x</u>	- X	X	_ <u>X</u>	X	. <u>X</u>	<u>X</u> _		X
alifornia Bay-Della Restoration appropriations (all federal agencies) egional Ecosystem Conservation (NMRS) stuary Restoration Act (NMRS)	Х	X X X	- X	X	X					_ X
etlands Reserve Program (PRCS)		X	_ X	X	- X					- A
coperative Endangered Species Conservation First Adversary	X	-Xc	X	X	_ X	_x	$-\frac{X}{X^{c}}$	X Xr	_ X	
and and Water Conservation Fund	- X	X	Xc X	X	X	X	X	X	X	
ational Coastal Wetlands Conservation Grants (USFWS) estoration Partnership Grants (NMFS)	X	X X	X	X X X	X			<u>x</u> .	X	- X
an Francisco Bay Area Water Quality Improvement Fund (EPA)	. ~	X	Ć.	Ž.	X					X
ther Funding Sources				^_	Α			X		
terest income adownent (post permit)	Х	. х	X <sup>X</sup>	X	_ X	X	X	_ X	Х	. Х
otes:  See text for rationale of funding availability. This table notes potential funding sor All federal agencies includes appropriations to Reclamation, USACE, NRCS, NMFS, Applicable to land acquisition that might be needed to support restoration.  WR = California Department of Water Resources; CDFW = California Department of CS = Natural Recourses.	USGS, USFV	/S, and EP/	Α -							

NRCS = Natural Resources Conservation Service; USGS = U.S. Geological Survey; EPA = U.S. Environmental Protection Agency

### Table 8-49. Potential Funding Source by Conservation Measure—Other Aquatic Stressors

CM13: Invesive Aqu /egetation Control	JM14: Steckton Dae inlp Channal Dissolv Jaygen Levals	2015: Localized Reducti redatory Fishas	M.16: Nonphysical Fish arriers	A17: Iliegal Harsest eduction	M12: Conservation escheries	M19: Urban Stormwe reatment	420: Recressional Users vasive Species Program	CM21: Nonproject Divarsions
		- Karling			DE	O.F.		
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 See texts or rationale of funding availability. This tables dentifies potentials unding sources and does not imply dedicated or guaranteed funding. All federal agencies includes appropriations to Reclamation, USACE, NRCS, NMFS, USGS, USFWS, and EPA.

Finding for the operation and maintenance of the Stockton Deep Water Ship Channel Acration Facility is being provided through 2013 under a 3-year joint agreement with the Port of Stockton, San Josquin River Group Authority, the San Luis and Delta Mendota Water Authority, the San Josquin Valley Drainage Authority, and DWR.

This funding agreement has two option years (2014 and 2015) that may be exercised. Because of the limited term of this funding source, it is not included as part of the long-term funding strategy.

CDFW = California Department of Fish and wij Milife; NMF5 = National Marine Fisheries Service; USACE = U.S. Army Corps of Engineers; NRCS = Natural Resources Conservation Service; USGS = U.S. Geological Survey; USFWS = U.S. Fish and Wildlife Service; BPA = U.S. Environmental Protection Agency

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### 1 8.3.4.1.3 Supplemental Adaptive Management Fund

The BDCP provides for the creation of a Supplemental Adaptive Management Fund, as described in 2 Chapter 3, Section 3.4.23, Supplemental Adaptive Management Fund. This fund, which will be at least 3 \$450 million, will be used to support adaptive management changes to CM1, as well as to any other 4 conservation measure, determined to be necessary during Plan implementation. Funding for the 5 Supplemental Adaptive Management Fund will be jointly provided by the Authorized Entities, the 6 7 State of California, and the United States. The components of the fund and the process by which it would be made available to support changes to conservation measures through the adaptive 8 management process are described in Chapter 3, Section 3.4.23, Resources to Support Adaptive q 10 Management.

### 8.3.4.2 Financing through Bonds

The state and federal water contractors could issue either general obligation or revenue bonds<sup>56</sup> to finance the costs of *CM1 Water Facilities and Operation*. State and federal water contractors are more likely to issue revenue bonds to finance their contribution to the BDCP because they can issue them on their own rather than general obligation bonds that require voter approval. Additionally, revenue bonds may be a preferable financing mechanism because they do not count towards the authorized debt limit of the issuing entity. However, revenue bonds carry a higher interest rate than a general obligation bond because they are backed only by the assets provided by project revenues.

Revenue bonds for the BDCP may be issued by a variety of sources. DWR may issue bonds for the BDCP as it does to finance the construction of other SWP facilities, which would then be repaid by participating SWP contractors. Individual water contractors may also issue their own revenue bonds or they may do so collectively through a joint powers authority, such as the State and Federal Contractors Water Agency (SFCWA). SFCWA is a Joint Powers Authority that was formed in 2009 by state water contractors and member agencies of the San Luis & Delta-Mendota Water Authority. SFCWA may be used as a funding vehicle for the BDCP, issuing revenue bonds on behalf of its membership and backstopped by the participating members (water contractors).

If SFCWA issues revenue bonds, 70% of all SFCWA directors must approve of the project. In addition, the specific bonds must be approved by 70% of the directors who represent the contractors who are participating members of the project. Given the economic benefits to water contractors, described later in this section and in Section 8.3.4.4.1, Williagness to Provide Funding, it is anticipated that most SWP contractors and members of the San Luis & Delta-Mendota Water Authority would participate in the issuance of necessary revenue bonds.

### 8.3.4.2.1 Debt Financing

One scenario under consideration to finance the BDCP costs identified for the state and federal water contractors (Section 8.3.4.1, SWP and CVP Funding Responsibilities) is the issuance of a series of four revenue bonds, each with a term of 40 years. The costs of CM1 would be financed with texexempt, long-term debt. The four series are described below and in Table 8-43.

1st bond series: fund first 2 years of construction.

Only water contractors with property tax revenue are able to issue general obligation bonds. For example, Metropolitan Water District of Southern California issued a \$39.5 million general obligation bond in 2010. Revenue bonds are an available tool for all water contractors.

- federal water contractors have not agreed on a specified allocation of costs for the BDCP. The exact 1 allocation of these costs between SWP and CVP contractors and within each group will be 2
- determined near the time that permits are issued for the BDCP, and will take into account how BDCP 3
- benefits are realized within the project, as well as existing SWP and CVP policies and procedures. 4

### 8.3.5 State Funding Sources

### 8.3.5.1 New Water Bonds

- 7 In 2009, the California State Legislature passed a comprehensive water package that included four 8
- policy bills and a major water bond measure that is scheduled to be on the 2014 ballot. The measure 9
- is known as the Safe, Clean, and Reliable Drinking Water Supply Act of 2014. Funds derived from the issuance of such bonds would be used, in part, to satisfy the State's financial commitments to the 10
- 11 BDCP.
- The bend was originally slated to be on the 2010 ballot (as Proposition 18), then on the 2012 ballot, 12
- but was postponed until 2014 because of the State's unprecedented economic recession. The bond 13
- would provide \$11.14 billion for water supply reliability, surface and groundwater storage, Delta 14
- restoration, water recycling, water conservation, watershed restoration, groundwater protection 15
- and cleanup, and drought relief (Table 8-46). The Legislature is presently considering amendments 16
- 17 to the bond act.

E,

- The BDCP is expected to secure a large portion of the funds allocated to Delta sustainability, as well 18
- as smaller portions of funds allocated to conservation and watershed protection. The water bond 19 20
- will support the public benefits of Plan implementation, particularly natural community restoration 21
- and other stressors conservation measures. For the purposes of the funding program and assuming the water bond passes, the BDCP is expected to receive the conservative estimate of funding in Table 22
- 23 8-46. Based on the lifespan of similar recent water bonds, the 2014 water bond is expected to
- disburse most or all of its funds within 10 years. For the purposes of this funding analysis, all of the 24
- funds relevant to the BDCP are assumed to be disbursed within a 10-year period. 25

### Table 8-46. Estimated Funding for 2014 Water Bond Relevant to the BDCP (based on 2010 allocations)

Category Relevant to the BDCP (2010 Proposed Bond Section)	Total Funding Assumed (millions)*	Proportion Assumed for the	Total Estimated for the BDCP (millions)
Delta Sustainability (79731)		and the state of t	
Improvements in Delta cities and counties	\$750	13%	\$100
<ul> <li>Implement Bay Delta Conservation Plan</li> </ul>	\$1,500	80%	\$1,200
Subtotal: Delta Sustainability		- X	\$1,300
Conservation and Watershed Protection			Tambi Spellylely and
Ecosystem and watershed protection (79750)	\$1,785	6%	\$100
Coastal Conservancy (79750(a))	\$250	20%	\$50
Wildlife Conservation Board (79750(c))	\$215	14%	530
Farmland Conservancy and Watershed Coordinator grant programs (79750(j))	\$20	20%	54
Central Valley Project Improvement Act project that improves salmouid fish passage in Sacramento River (79760)	\$60	50%	\$30
Subtotal: Conservation and Watershed Protection			\$214
Total Funding Estimated for the BDCF			\$1,514
Notes:			And Book A.

Notes:

Source: Meral pers. comm.; Senate Bill 2, 2009-10 7th Ex. Sess. (CA 2009).

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BDCP assumes passage of a second water bond to fully fund the state portion of the Plan. The total BDCP funding assumed for the subsequent water bond is \$2.25 billion. The timing of any subsequent bond is unknown but would likely occur by year 15 of the permit term, providing funding for approximately 10 years after its passage.

### 8.3.5.1.1 History of Water Bonds in California

As shown in Table 8-47, 12 water bonds have been approved by California voters since 1960, a frequency of one every 4 years, on average. Based on this history, subsequent water bonds that would partially fund the BDCP are also likely to occur during the permit term.

<sup>\*</sup>Based on allocations for 2010 bond; amounts in 2014 or in a future year may be different.

<sup>\*</sup>Based on overlap of BDCP conservation measures with the purpose of the program and potential competitiveness of the BDCP with other projects in the geographic area of the program (some are local, others are statewide).

Table 4-4 Area (in Acres) of Natural Community Types in the Delta and Sulsun Marsh

Natural and Applicultural Occumently Types	Delta	Suinun Maruh	Area of Overlap*	Total for Delta and Suleta Marah <sup>ac</sup>
Tidal open wefer	53.160	25 720	1.180	ED.750
Tidel brackish mersh	380	6,330	360	
Tidel treshwater march	6,983		-	8,330
Norticel open water	10,520	30		8,980
Nontidal briggist march, managed	2,540	40.490	1.880	10,560
Monitrial freehwater massh, unmanaged	3,200	10	10	50,180
Nontkial freshwater marsh, managed	14,300	-	10	3,280
Alkali sessonal wolfarkts	5,470	170	400	14,300
Granilands with viring peole	8,930	1,150	100	5,530
Riparian forest	8,080	1,130	10	19,080
Riperlan acrub	7,030	170		8,980
Riparlan inwedves	170	170	20	7,180
Grassland	53,480	45.540		170
nland dune scrub	20	16,310	580	69,200
Agricultural lands	20		-	20
Alfarfa	82,410			
Imigatori pestura	51,891		-	82,410
Com				51,550
Rica	108,220			108,220
Vineyard	3,760			3,7ac
Orchard	28,850	-	-	28,850
Other cultivated crops	17,960		_	17.680
Other apriculture	114,840		-	114,940
ak wooxani	89,780	2 549	120	72,480
eveloped	-	490	-	460
adelland	\$0,110	1,580	100	51,910
ratio		20	-	20
de: Number have been musted to the records	736,000	186,325	4,520	230,230

Note: Numbers have been rounded to the reserved 10 merce.

# **DELTA 178,190 Acres**

# MARSH 101,380 Acres

<sup>\*</sup>The Delic and States Mean areas product. The acrosses shown represents the extent of counterplay acrosses for each national and

The total supressed the combined screege of the Dolla and Sussen March areas. The overlapping screege is counted only once,

<sup>&</sup>quot;The total may not equal the stars of the assesses for inclivitual types because of rounding.

Title

THE CALIFORNIA WATER RESOURCES DEVELOPMENT BOND ACT

Year/Election 1960 guneral Proposition bond (lag)

Tyme.

Popular vote: Yes: 3,008,328 (51.5%); No: 2,834,384 (48.5%)

Pass/Fall

Summery

This act provides for a bond issue of one billion, seven hundred fifty relilion dollars (\$1,750,000,000) to be used by the Department of Water Resources for the development of the water resources of the State.

For

Argament in Favor of California Water Resources Development Bend Act

Your vote on this measure will decide whether California will continue to prosper.

This Act, if approved, will launch the statewide water development program which will mest present and future demands of all areas of California. The program will not be a previou on the tempayer; no new state taxes are involved, the briefly are regard from project suremore, through the sele of wester and power. In other words, it will say for itself. The bonds will be used over a period of many years and will involve an approximate acquait expenditure averaging only \$75 million, as compared, for example with \$500 million a year we apend on highways.

Existing facilities for furnishing water for California's needs will soon be exhausted because of our rapid population growth and industrial and agricultural expansion. We now face a further critical loss in the Colorado River supply. Without the projects made possible by this Act, we face a major water crisis. We can stand no more delay.

If we fall to not pay to provide new sources of water, land development in the great San Joaquin Valley will slow to a balt by 1965 and the scann of centivered areas in westeland will begin. In southern California, the existing sources of water which have possished its tremendous expansion will reach capacity by 1970 and fairfles. development seast wholly cause in northern California despensivly needed fixed council and water supplies for many local press will be denied.

This Act will assure construction funds for new water development facilities to mest California's requirements now and in the future. No area will be deprived of water to mee; the sacret of specimer, Nor wall way area be asked to pay for water delivered to another.

To meet questions which concerned, southern California, the bonds will flowers completion of all facilities needed, as described in the Act. Contracts for delivery of warar may not be altered by the Legislature. The tap will be open, and no emount of political manouvering can shut it off.

Under this Act the water sights of northern California will remain securely protected. In addition, sufficient money is provided for construction of local projects to meet the pressing needs for flood control recreation and water deliveries in the north,

A small needed drainage system and water supply will be provided in the San Joaquin Valley.

Construction here authorized will provide thousands of jobs. And the program will nourish tremendous industrial and farm and urban expansion which will develop an ever-growing source of employment and economic prosperity for Californians.

Our Legislature has appropriated millions of dellars for work in preparation, and construction is now underway. It would be tragic if this impressive start toward solution of our water problems were now abaseloned.

If we field to act now to insure completion of this constructive program, serious existing water shortages will only get worse. The success of our State is at stake. Your "Yes" for water for secole, for propose, for prosperity!

In addition to the Senate Committee Report, the contracting principles, and the MWD comment, there were political press releases,3 an analysis by the League of Women Voters,4 and reports by outside consultants which all indicated that contract payments would pay for the cost of the entire Project, and that lead property taxes, in addition to user charges, were available if fevences from water sales were not enough to pay such cost.

Alan Crausian, then Scate Councillar, noted in a press release: "As additional security for the bonds, and to provent a drain on the General Pand in case of deficiency, the local social single agencies will have ad valorism tarting power over and above the cost of where when the user will pay [4] Local agencies will therefore he able to meet their communicates to the State even if revenues from local sales, of water are not sufficient for this purpose. [4] Though this precedent, the bage-firstries of the Water Plan become the financial keystone and support rather than this Oceanil Fund and the general taxpayer."

Covernor Pat Brown's press comments at the time are also informative:

"Governor, what is your prawer to people who say. "I don't want to pay for somebody elic's water." Like San Franciscus. There always poid for one water project. Why should I be compelled to buy another?"

"Governor Marien. Well, they more The part made a completely self-outposting. The few proposed of the rest the comparison to a participant of the regularization of the cost of the angle Project.

"The League of Women Voters' analysis observed: "The state will contract with public agencies having the assessment power so they one meet the required payment to the state by the use of taxes samell as water rates if they so desired in this way no area will be subsidizing water for mather region."

"As the report of Ches. T. Main, Inc., consultant to the Department of Water Resources, said: "Rates for water and power and for other reimboroable in me [i.e., charges to the local agencies] will be extelligated so as as reason to the State of costs of project operation, regimenance and explanement, all principal and metals on (a) bonds, (2) expectations from the California Water Faria, and (3) other morace used in the construction of the project works. Since the water distinctly scintigets are proposed to entered as long as the bond repayment period, we consider that is order to tidfill the above requirement reviouses must be developed during this period sufficient to return all each casts." (Since Report, "Conserva Evaluation of the Proposed Program for Proposed and Constructing the State Water Resources Development System of the State of California Department of Water Resources." (Oct. 1950) p. 2.)

Oblina Reself & Co., Inc., a across desire operation on the "figuresis appear of the State" wastr profession, "reported in October, before the abdewide vote: "The Program contemplated the contractors for the water to be delivered by the Program will be muticipal corporations, water districts and similar paidle agencies with local tening power, and that, as suggested by the Logariment, at least part or all of the aquednet charge may be recovered by these consectors through the levy of taxes or successions on real emits within their respective jurisdicators." (Report of Pinancial Consultants to State of California Water Resources, "Financial Associate of Program for State Water Resources Development Systems," (Oct. 26, 1940) p. 24.)

An outside consulting firm engaged to review the financial feasibility of the State Water Project examined each errore area's capacity to pay and concluded that virtually all contraction areas would have to only in part upon taxes up pay the full costs of the Project. In some among the consultant even projected the amount of total taxes which would be required. For example, the report extracted a need in 1990 for tax rates of 15 causs per \$100 of assessed validation in Venuer County, 21 cause in the Antelope-Mojave Valley, 33 cause in the Condults Valley and Pannage area, and 16 cause within the Meuropolitan Water District, including as a factor in its computationable cost of local facilities. (Append. to Final Report. "General Evaluation of the Proposed Program for Financing and Constructing the State Water Resources Development System of the time of California, Department of Water Resources." (Oct. 1960) pp. 81-910

# DEPARTMENT OF WATER RESOURCES STATE OF CALIFORNIA

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# **Bulletin No. 76**

CALIFORNIA STATE LEGISLATURE REPORT TO THE

ON THE

# DELTA WATER FACILITIES

AS AN INTEGRAL FEATURE OF

Hahrry A. Wallang

# THE STATE WATER RESOURCES DEVELOPMENT SYSTEM

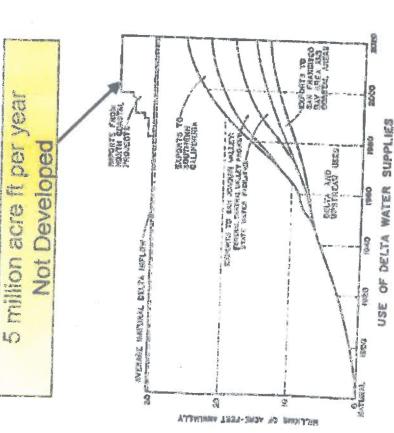
EDMUND C. BROWN

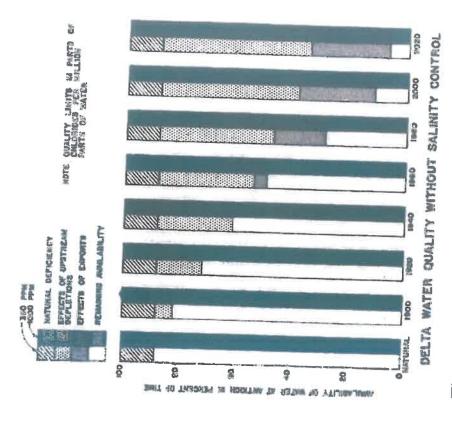


HARVEY O. BANKS Director

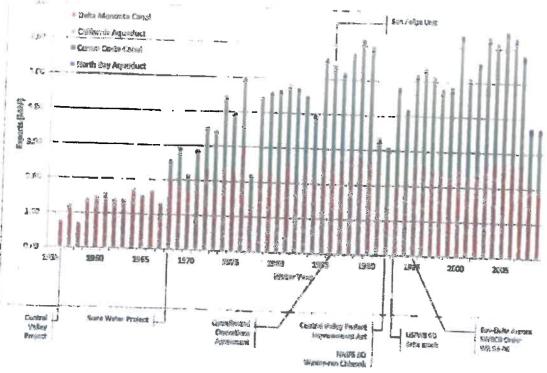
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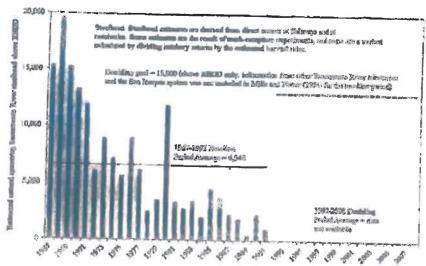
The natural availability of good quality water in the Delta to the amount of surplus water which flows to the occur. The graph to the right indicates the historic and och containing less than 350 and 1,000 parts chlorides per million parts water, under long-term sverage runoff and surbout specific natural conditions, before any significant upstream water developments, there was a deciciency of water supplies within the specifications, there was a deciciency of water supplies within the specifications, there was a deciciency of water supplies within the specifical quality limits. It is attricted that, without salinity control the availability of water containing less than 1,000 ppun chlorides tooms! 30 percent reducing.

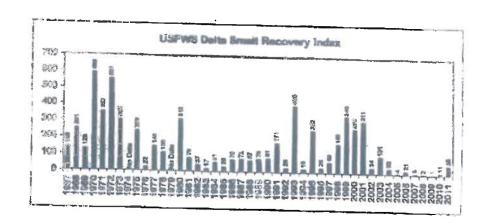




The magnitude of the past and anneipared future uses of water in areas cributary to the Deha, except the Tuiere Leke Basin, the present upstream to the left. It may be noted that, while to the present upstream use accounts for reduction of natural inflowing the next of years will deplete the inflow by an additional 20 percent. By that date about 22 percent of the natural water supply reaching the Delta will be exported to areas of deficiency by focal, state, and federal projects. In addition, economical development of water supplies will necessitate importation of about 5,000,000 acre-feet of water seasonally to the Delta from north coastal streams for transfer to areas of deficiency.







the Delta and Marsh in the absence of the CVP and SWP), 63 under and were excuen-The criteria in the draft appears were recommended The Striped Hase Index would be 71 under without project condimeasure of young bees ourvivel through their first summer. expectment, the fighery standards provide significantly higher nions (i.e., theoreties) conditions which would exist today in The Striped Bess Index under this decision. Basad on our most by Fish and Gome and endorsed by the Department. the extering basin plans, and about 793/ procession than existing basin plens. the Board staff. stoning smalysed by este character.

would not While the standards in this decision approach without project levels of proceetion for striped base, there are many other which such as white catfish, shad and aslmon, species,

at projec provided under this decision is nonetheless a reasonable of protection worll final determinations are made concerning a cross-Dalta transfer facility or other mans to mitigate The Level of proimpacts on all fishery species one sould respile the virtual to personally care managements shutcing down of the project export washe. to white gaves. de protected こうなけれならい 1000 H

project impacts.

There is some indication that factors other than those aca-sidered in the Board's analysis of without project levels may also affect erriped base sorvivel. The selfects of these greater than 71. However, the mightings of this impact is unknown and carmot be quantified at this the impact is m

NO SHUT OCWN
INSTEAD
INCREASED EXPORT

# Summary Template For BDCP Financing Committee Action Items

Action Item: Use of Habitet Funds to Provide Outflow

This issue may be integrated into the decision-tree if the result of the State/federal meetings is a decision tree with insufficient yield to support the project. Even if it does not become part of the decision-tree it should remain in the mix of tools that can be used through the adaptive management program. Under this idea bond funds originally targeted toward habitat restoration could be reprogrammed for capital outlay programs such as parchase of water rights, fallowing programs, development of coordinated proundwater conjunctive use programs, and other water management techniques which would provide outflow needed for fish.

Issue Leader: Breat Walthall

Sommary: This financing ideo was to allow public funding for babitat to be reprogrammed for use in buying water for species protection. It has the enhanced value for the species of providing more benefits than would have been provided by babitat purchases, and also serves to reduce the perceived need for flow criteria that lack sufficient scientific support (e.g. Spring, Summer, Fall K2).

The following language is included in the 2014 bond act. The Finance Committee agreed that this language is clear enough to allow funds made available under this paragraph to be used for water proclasses for species procession.

" as one million five hundred million deliars (51,500,005,000) For projects to protect and enhance the sustainmentary of the police subsystem, including any of the following:

(i) Projects for the development and implementation of the Bay Selts Constitution Plan, remainded with Chapter 10 (compension with Section Selts) of Division 3 of the First one Game Code, the projects shalf be unicommuned through a cooperative effort among regulatory specimen, regulated and personnelly regulated entities, and affected parties, including state and federal enter contractors. These funds may be expended for the propagation of environmental documentation and environmental compliance.

it) Other projects to protect and restors native fish and willlife appendent on the Telts occayeter, including the exquestion of ester rights well be removal or redortion of underivable invasive species.

### Hear Steps:

1. This financing idea requires the passage of the 2014 water band.

Prior to passage of the 2014 water bond the BDCP and the DHCCP should be written
to specifically allow for water purchases to be substituted for habitat purchases f the
BDCP adaptive management plan indicates that is ecologically preferable.
 The BDCP costs chapters should be written to acknowledge the potential use of
bond funding for habitat or water purchases.

See Attachment below

### Water for Habitat

As part of the BDCP conservation measures, 50,000 acres of aquatic habitat will be developed in the next 15 years. The benefits of this habitat development for pelagic species like helts and Longfin Smalt will be determined through careful monitoring and research.

If aquatic habitat development does not make sufficient progress in achieving the BDCP biological goals and objectives, funds that are projected to be used for additional development of aquatic habitat may be used for other actions that would be a surrogase to habitat. For example, if additional seasonal outflow is needed, the funds could be used for acquisition of water for outflow. Outflow (maintenance of salinity at various locations through release of water from upstream reservoirs) may be another way to achieve biological goals and objectives, subject to scientific analysis to be conducted in the upcoming years. The funds may also be used for other conservation purposes which could reduce diversions to achieve the goals and objectives.

The costs of developing the 30,000 arres of aquinic nabitat will be covered in part by future bond funds, and in part by funds provided by water agencies pursuant to OCAP obligations. If no additional tidal marsh habitats are developed after the start of operation of CM1, around \$3 hillion would still be available to develop water for outflow purposes from future bond funds.

The amount of water that may be needed for additional outflow has not been determined, but it could be as much as 1.6 mailon an annual average basis. ICF has estimated that the actual difference on an annual average basis could be much lower, assuming that what is needed to satisfy the fishery agency outflow requirements would be about 700 tall per year (exports at a level of 5.2 mailyr), and the original proposed project (5.9 mailyr).

Funds could be used in a number of ways to produce an average of 700 tal of additional existing.

Purchase Water From Upstream Entitles

Water purchases, both short and long-term, are an important component of the water contractor's supplemental water programs. A key consideration for supporting a water purchase program for Dolta habital requirements will be whether those programs compete with existing or planned supplemental water transfer supplies.

Water Bashts Purchase Lease: All or a portion of the \$3.0 billion would be used to our class water from voluntary selliurs. This ontion would include the purchase of kinds with the appropriate water rights in wither the Opita or the Sacramento Valley where the water supply could be re-managed for outflow or in-Dalta habitas benefits. While transfers from the Sacramento Valley would most likely create the prestest amount of water, transfers from the San Joaquin Valley would also need to be investigated. This method has the potential to interfere with long-serm transfers being continuplated by SWP or CVP south of Delta contractors, which could impact the availability and pricing of supplemental water supplies needed by the water contractors to meet hydrologic or regulatory shortaxes. In this instance the program could impact the water contractors. Additionally, there could be negative impacts in the areas from where land and water rights are being purchased. These impacts may have to be initigated. An exall Transfer Markets. Market transfers include obtaining fallowing agreements, creating conjunctive use agreements, or changing the time of year for rice tailwater ralease. These are generally considered annual transfers because costs we regulated annually and are highly variable, subject to projected commodity or input values, rapedally in rica markets, which have traditionally supported a majority of the fallowing transfer programs. The cost of conjunctive use water has historically tracked with following prices with a slight discount and are, therefore, also subject to annual negotiations. The memanagement of rice tailwater is currently being explored by the water contractors as an additional

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toul to meet hydrologic or nighterory thortages. To use bond funds, these agreements would have to be long term, even though price may have to negotiated on an annual basis.

Fallowing and conjunctive use transfers are took that the SWP/CVP contractors currently use on a regular basis to meet annual water shortages. Therefore, additional computition for a finited supplemental supply (estimated at 200-300 tall per year) would impact the water contractors. Develop New Storage

Several storage projects have been considered that include expanding existing reservoir systems or divisioning new off-stream storage facilities. New smrage could be used to capture water during high flow periods for use later to enhance Delta catiflow. Potential projects fall within two general concepts South of Delta storage and Upstream of Delta Storage.

Shuth of Deha Storage: Devalop new or expand existing storage capability within the CVP/SVP place of use. The ability to improve the water supply associated with an isolated facility is greatly affected by the temporal delivery pations. Expanding the capability to capture water when it is available will improve water supply. For example, analyses have been done to consider the benefits of expanded storage or unlimited demand. These analyses show that as much as 500 laf of additional votes supply could be provided with additional flexibility downstream. Additional storage south or the CVP/SVIP export facilities could include:

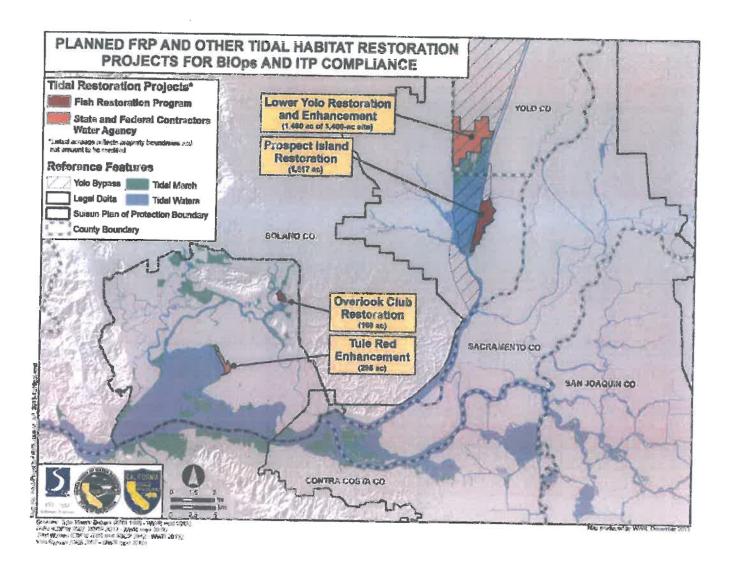
- Expand San Luis Reservoir
- Devalop new off-stream storage south of the Delta
  - Los Sanos Grande 1.73 to 2.04 maf (Calfed 1997)
  - Orestanba 0.38 to 1.14 maf (Called 1997)

If the BDCP develops new storage or expands existing storage south of the Delta, such projects would no longer be available for south-of-Delta contractors to develop as part of their own water management programs. Therefore, this option is considered non-neutral to the SWP/CVF contractors because such project will compete with the exports to develop similar projects that would allow them to fully utilize wet year flow that could be captured in the Delta through a new conveyance facility and used in drier or rustricted years.

Upstream of <u>Delta Storage</u>: Devolop new or expand existing storage capability upstream of the Delta. Additional upstream storage could be used to devolop a water supply during wet years to must additional outflow requirements in other years.

- Develop new on stream storage upstroam of the Delta Exemple: Temperance flat Reservoir – 0.7 to 1.3 MAF at a construction cost of \$2.5 to \$4.0 billion.
- Develop new off stream strage upstream of the Delta
  - Example: Sites Reservoir 1.2 to 1.6 MAF at a cost of \$3.6 to \$3.9 billion. The proposed facility includes the "public benefits" objectives of ecosystem improvements in the form of supplemental flows for the Delta, water quality, and water temperature. The project estimates that roughly 500 tail of ecosystem storage will be available and roughly 200 tail of ecosystem flows will be developed annually.
- Sharta Expension 6.5 to 12.5 foot raise (256 to 634 taf storage) at a construction cost of \$0.8 to \$1.1 billion). Recent feasibility studies identified the primary planning objectives as 1) increase anadromous fish strivival and 2) increase water supply reliability. The project has identified a water supply benefit of bitween 76 to 133 tall annually with improved cold water pool management.

New or expanded storage north of the Delte that include: declicated storage for ecosystem benefits are considered neutral to the water contractor.





### What is the

## Delta Investment Fund?

The Delta Investment Fund was originally proposed in 2008 by the Governor's Delta Vision's Blue Ribbon Task Force. That recommendation was adopted in the Delta Reform Act of 2009, which

- established the coequal goals of water supply reliability and Delta ecosystem restoration "in
  a manner that protects and enhances the unique cultural, recreational, natural resource,
  and agricultural values of the Delta as an evolving place" (Water Code section 85054)
- AND established the Delta Investment Fund, to be administered by the Delta Protection Commission (Public Resources Code, section 29778.5).



### What does it do?

Delta Investment Fund would fund projects that advance regional economic sustainability and enhance Delta communities. The 2012 Economic Sustainability Plan for the Delta recommends the following priorities:

- Infrastructure improvements
- Gap funding for catalytic development projects
- Economic development assistance
- Marketing/branding efforts

### Where's the monay?

No funds have yet been allocated to the Delta Investment Fund. It is authorized to receive funds from federal, state, local, and private sources. Various water bonds being proposed may provide an opportunity for the State to invest in capital improvements to Delta infrastructure.

### How would DPC administer funds?

DPC would develop guidelines and processes for allocation of public funds in a fair and transparent manner. Stakeholders would be encouraged to participate in development of associated programs in order to focus funding on efforts that would have the maximum positive impact on Delta regional economic sustainability.

### When funded, what kind of projects would be eligible?

Depending on the source of available funding, the Delta Investment Fund might support:

- Enhancement of Delta agriculture, such as local, value-added processing of Delta crops
- Recreation and tourism development, including park facilities, agri-tourism, "Gateways" for Delta visitors
- Branding and marketing efforts
- Local community economic development planning
- Grants or low-interest loans to allow private enterprise upgrades or development, such as improvements for agricultural direct-sales, or marina improvements
- Local government participation in Deltawide regulatory process streamlining and regional economic development activities



If general obligation bond funds are available, projects would typically be "capital improvement" projects, such as:

- Educational facilities improvements
- Emergency preparedness and response facilities
- Expansion and improvement of Port facilities, as well as roads, bridges, trails, and signage
- Building improvements, including historic and recreational facilities, as well as
- Seismic & life-safety building improvements, and modernization of aging infrastructures

For more information about the Delta Protection Act, the Delta Reform Act, or the Delta Investment
Fund, see the Public Resources Code section 29778.5 below, or
contact DPC



Public Resources Code, section 29778.5: The Delta Investment Fund is hereby created in the State Treasury. Any funds within the Delta Investment Fund shall be available, upon appropriation by the Legislature, to the commission for the implementation of the regional economic sustainability plan, developed pursuant to Section 29759, for the purposes of enhancing Delta communities. The Delta Investment Fund may receive funds from federal, state, local, and private sources. (Added by Stats. 2009, 7th Ex. Sess., Ch. 5, Sec. 35. Effective February 3, 2010.)

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