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## Section 2B Introduction to Resource Sections

3 The Delta Plan (the Proposed Project), does not propose construction or operation of facilities or other  
4 specific physical actions. Nor does the Delta Stewardship Council (Council) contemplate constructing or  
5 operating facilities or taking other specific physical actions following adoption of the Delta Plan. Rather,  
6 as required by statute, the Delta Plan is a comprehensive plan designed to guide other federal, state, and  
7 local agency actions related to the Sacramento–San Joaquin Delta and the Suisun Marsh (Delta)  
8 (Water Code section 85300(a)). This would be accomplished through policies that contain specific  
9 parameters with which the “covered actions” of state and local agencies must comply, combined with  
10 recommendations to federal, state, and local agencies for actions that they should implement. Generally,  
11 the policies and recommendations are program-level and, for the most part, do not address particular  
12 physical actions, activities or projects.

13 The potential connection between the Council’s Delta Plan on the one hand, and other agencies’ physical  
14 actions, activities or projects that could cause substantial adverse effects on the physical environment on  
15 the other hand, is complex. This Section 2B explains that connection, and provides the context for this  
16 Environmental Impact Report’s (EIR) analysis and conclusions.

### 17 2.1 Policies and Covered Actions: 18 Recommendations

19 The Council’s authority to directly influence the actions of other agencies is through its review of covered  
20 actions (if they are appealed) for consistency with the Delta Plan. Because covered actions must be  
21 consistent with the Delta Plan’s Policies, if a covered action is appealed to the Council, the Council must  
22 determine if the covered action is consistent with the Policies of the Delta Plan. In addition to the Policies  
23 with which covered actions must be consistent, the Delta Plan includes Recommendations. Through the  
24 Recommendations, the Council hopes to influence and guide the activities and programs of other federal,  
25 State, and local agencies towards achieving the coequal goals. Covered actions, Policies, and  
26 Recommendations are discussed in more detail in Sections 1.1, 1.2, and Section 2.1 of Section 2A of  
27 this EIR.

### 28 2.2 Actions, Activities, and/or Projects the Delta 29 Plan Could Influence

30 As mentioned above, the Council itself does not propose or contemplate directly authorizing construction  
31 or operation of any physical activities. Rather, through the Delta Plan, the Council seeks to influence the

1 actions, activities, and/or projects of other agencies – the details of which are under the jurisdiction and  
2 authority of the individual agencies that will propose them in the future. What those projects will look like  
3 in most cases and how much influence over those projects the Delta Plan could have is unclear.

4 In some cases, projects that could be influenced by the Delta Plan have already been contemplated or  
5 even studied, but for whatever reason are not certain to move forward. In other cases, projects that might  
6 be influenced by the Delta Plan have not yet been contemplated or proposed (e.g., new local water storage  
7 in an area that currently relies on Delta water). The Delta Plan’s likelihood of nudging already considered  
8 projects forward, and the Delta Plan’s degree of influence on future undefined projects, is unclear. For  
9 these reasons, this EIR does not seek to evaluate the environmental impacts of the *incremental* change in  
10 those actions, activities, and/or projects that could result from the Delta Plan.

11 For example, the Delta Plan specifically mentions the Cosumnes River-Mokelumne River Confluence  
12 habitat restoration project (North Delta Flood Control and Ecosystem Restoration Project), which is  
13 already contemplated by another agency. The Council does not have the ability to *cause* this project to  
14 occur, but rather seeks to influence it to move forward. How much influence the Council will have is  
15 unclear. Accordingly, rather than attempt to evaluate the environmental impacts of the *incremental*  
16 change the Delta Plan could have over this restoration project (which would be highly speculative if not  
17 impossible to determine), this EIR evaluates, at a program level, the potential impacts of this restoration  
18 project as a whole as the Delta Plan would prefer to see it implemented. The rest of the EIR takes the  
19 same approach. This approach satisfies California Environmental Quality Act (CEQA) in that it informs  
20 the Council and the public of the potential impacts of the actions, activities and/or projects the Delta Plan  
21 seeks to shape. **In other words, the analysis in this EIR assumes that the Delta Plan has the desired**  
22 **outcome.** This is a very conservative approach to environmental review given that the Council does not  
23 contemplate constructing or operating any facilities through the Delta Plan nor undertaking specific  
24 activities to implement the Policies and Recommendations, and has no authority to cause the  
25 Recommendations to be implemented. After the Delta Plan Policies become regulations, however, they  
26 will have the force of law – unlike the Delta Plan’s Recommendations. Accordingly, this EIR treats the  
27 Policies as having more influence than Recommendations over the actions and projects of other agencies.

## 28 2.3 Mitigation Measures

29 This EIR identifies feasible mitigation measures to reduce the Proposed Project’s significant effects on  
30 the environment. Agencies undertaking covered actions must incorporate these measures<sup>1</sup> into their  
31 projects or plans in order for any such covered action to be consistent with the Delta Plan.<sup>2</sup> For  
32 noncovered actions, the Council lacks authority to require that other agencies adopt any particular

33 mitigation.<sup>3</sup> The majority of other agency actions/projects this EIR evaluates, and associated mitigation  
34 measures, will be noncovered actions. For these reasons, this program-level EIR assumes that each  
35 significant environmental impact is significant and unavoidable as CEQA specifies.

36 For many impacts, this conclusion is very conservative. Agencies that might propose actions or activities  
37 that the Delta Plan seeks to influence have a legal duty under CEQA to mitigate those impacts to the

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<sup>1</sup> The covered action may include refined versions of this EIR’s mitigation measures tailored to match the specifics of the covered action, provided that the refined versions provide a reduction in environmental impact equal to or greater than the measures in this EIR.

<sup>2</sup> This would be accomplished through a Delta Plan Policy requiring incorporation of this EIR’s mitigation measures into covered actions.

<sup>3</sup> For example, if an agency proposes a project that is not a covered action, the Council cannot require the Delta Plan’s mitigation measures to be adopted by the agency. Of course, agencies are encouraged to include the mitigation measures into their projects and programs. Moreover, the Council can contest an agency’s position that the project is not a covered action, within the limits of the Delta Reform Act.

1 extent feasible. In addition, as noted in Sections 3 through 21, many of the mitigation measures identified  
2 in this EIR are standard types of mitigation, are generally feasible,<sup>4</sup> and would reduce impacts to a  
3 less-than-significant levels in many cases. Nevertheless, the Council cannot *guarantee* that the mitigation  
4 measures will be adopted by the lead agencies for noncovered actions.

## 5 2.4 Organization of Resource Sections

6 Using the approach discussed above, this EIR evaluates the potential significant impacts<sup>5</sup> of the Delta  
7 Plan and the alternatives to the Delta Plan within a full range of applicable resource areas. Each of these  
8 resource areas is discussed in a separate section – Sections 3 through 21. Each of these EIR sections is  
9 organized to address the types of actions, activities, and projects of other agencies, which the Council  
10 seeks to influence through the Delta Plan’s Policies and Recommendations. The types of expected  
11 projects, both covered actions and noncovered actions, fall into five categories that closely track the Delta  
12 Plan’s general topical organization:

- 13 ♦ Reliable water supply
- 14 ♦ Delta ecosystem restoration
- 15 ♦ Water quality improvement
- 16 ♦ Flood risk reduction
- 17 ♦ Protection and enhancement of Delta as an evolving place

18 Some recommendations in the Delta Plan and/or the alternatives identify and make recommendations,  
19 directly or indirectly, regarding specific “named” projects or actions, such as the Cosumnes  
20 River-Mokelumne River Confluence habitat restoration project mentioned above. These are identified  
21 below and described in Section 2A, Proposed Project and Alternatives. These also are discussed in the  
22 resource sections but are not evaluated at a project level, nor is this EIR intended to provide the  
23 environmental clearance for those projects to proceed, for the reasons stated above.

24 Some of those “named” projects or actions, however, were previously analyzed in their own EIRs by  
25 other lead agencies. This EIR takes advantage of that prior work by summarizing the relevant conclusions  
26 reached in those EIRs. For “named” projects or actions for which no project-level environmental review  
27 has occurred, this EIR uses EIRs and/or EISs from similar projects<sup>6</sup> to provide analogous information  
28 about potential impacts of the named projects. These EIRs and/or EISs also provide analogous  
29 information about the potential impacts of the five general Delta Plan categories, mentioned above and  
30 described below in more detail, and their typical components.<sup>7</sup> Table 2B-1 lists these five categories, the  
31 elements within each, the projects/actions indirectly or directly named in the Delta Plan, and the reference  
32 EIRs and/or EISs that provided analogous information. Tables 2B-2 through 2B-6 include similar  
33 information for each of the alternatives to the Proposed Project.

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<sup>4</sup> Whether the identified mitigation is feasible for any particular project or action proposed by another agency can only be definitively determined at the time that project or action is defined, and would be determined by that agency and not the Council. Where the experience or professional judgment of the preparers of this EIR, or EIRs for analogous projects (see below), identified possible situations where the mitigation might not be feasible, this EIR so notes and concludes that the associated impact would be significant and unavoidable, even if the mitigation would be feasible in the majority of situations. This conservative approach is compelled by CEQA. Nevertheless, the text provides examples of why the mitigation might be infeasible to give the reader a sense of the relative magnitude/importance of the possible feasibility problem(s) and resulting impact.

<sup>5</sup> The thresholds to determine whether the potential impacts are significant rely on Appendix G of the CEQA Guidelines.

<sup>6</sup> These projects, and how they are similar to the types of actions/activities that the Delta Plan could encourage, are described in Appendix H.

<sup>7</sup> Through review of these EIRs and EISs, the project elements analyzed in them, and their conclusions, the authors of this independently concluded that these documents are relevant to the Proposed Project, by analogy, to inform the Council and public about the relative type and magnitude of the impacts that could be expected with the Delta-Plan-influenced projects. That is because the projects that would be influenced by the Delta Plan are similar to the projects analyzed in these project-specific EIRs and EISs.

1 Lastly, regarding the analysis of the project alternatives, the impact analysis for the Proposed Project was  
2 structured to allow more detailed analysis of impacts as they relate to the five Delta Plan policy elements.  
3 To avoid unnecessary repetition in the analysis of impacts that could occur under the alternatives to the  
4 Proposed Project, each impact is discussed only once for each alternative rather than for each policy  
5 element of each alternative.

## 6 **2.5 Potential Covered Actions and Potential** 7 **Environmental Impacts**

8 The five categories of potential projects and actions that the Delta Plan could influence, and the  
9 projects/actions directly or indirectly named in the Delta Plan, account for the foreseeable covered actions  
10 that could be influenced or changed as a result of the requirement that covered actions be consistent with  
11 the Delta Plan; therefore, they are the focus of this EIR.

12 Other types of covered actions possibly could have foreseeable environmental impacts, however. For  
13 example, the Delta Plan generally would restrict development on ecosystem restoration opportunity sites  
14 (Policy ER P3). Development on those sites, however, currently is prohibited by local general plans  
15 and/or zoning in many places, so no physical change compared to existing conditions is expected in those  
16 places as a result of this aspect of the Delta Plan (this is discussed in more detail in Section 6, Land Use  
17 and Planning). As another example, the Delta Plan would restrict development behind levees that do not  
18 provide 200-year flood protection. Any potential changes from this component of the Delta Plan are  
19 discussed in more detail in Section 5, Delta Flood Risk.

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**Table 2B-1**

**Proposed Project: List of Project Types, Named Projects in the Delta Plan and Example EIRs / EISs by Category**

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Reliable Water Supply</b>	<p>Projects could include construction and operation of:</p> <ul style="list-style-type: none"> <li>• Surface water projects (water intakes; treatment and conveyance facilities; reservoirs)</li> <li>• Groundwater projects (wells, wellhead treatment, conveyance facilities)</li> <li>• Ocean desalination projects (water intakes and brine outfalls; treatment and conveyance facilities)</li> <li>• Recycled wastewater and stormwater projects (treatment and conveyance facilities)</li> </ul> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Water transfers</li> <li>• Water use efficiency and conservation program implementation</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Conveyance facilities may include:                             <ul style="list-style-type: none"> <li>- Pipelines and tunnels (construction and operation)</li> <li>- Canals (construction and operation)</li> <li>- Pumping plants (construction and operation)</li> </ul> </li> <li>• Reservoirs may include hydroelectric generation (construction of powerhouse, transmission lines, and operation)</li> <li>• Wells may include construction of withdrawal, recharge, and monitoring wells</li> </ul>	<ul style="list-style-type: none"> <li>• Surface water storage investigations (WR R6)                             <ul style="list-style-type: none"> <li>- Sites Reservoir (North of Delta Offstream Storage Investigation)</li> <li>- Los Vaqueros Reservoir Expansion (Phase 2)</li> <li>- Temperance Flat Reservoir (Upper San Joaquin River Basin Storage Investigation Plan)</li> </ul> </li> <li>• Bulletin 118 update (WR R8)</li> </ul>	<ul style="list-style-type: none"> <li>• Los Vaqueros Reservoir Expansion Project Draft Environmental Impact Statement/Environmental Impact Report (EIS/EIR) (Reclamation and CCWD, February 2009)</li> <li>• Proposed Lower Yuba River Accord Draft EIR/EIS (Reclamation, DWR, and YCWA, June 2007) (Final EIR/EIS October 2007)</li> <li>• Calaveras Dam Replacement Project Draft EIR (SFPUC, October 2009) (Final in January 2011)</li> <li>• Huntington Beach Seawater Desalination Project, Draft Recirculated EIR (City of Huntington Beach, 2005)</li> <li>• Precise Development Plan and Desalination Plant Project EIR (City of Carlsbad, December 2005) (Addendum Precise Development Plan and Desalination Plant Project Final EIR, August 2009)</li> <li>• Western Municipal Water District Riverside-Corona Feeder Project Final Programmatic Environmental Impact Report, May 2005 (Supplemental EIR/EIS for the Riverside-Corona Feeder Pipeline was completed in January 2011 [WMWD and Reclamation])</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007)</li> </ul>

**Table 2B-1**

Proposed Project: List of Project Types, Named Projects in the Delta Plan and Example EIRs / EISs by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Delta Ecosystem Restoration</b>	<p>Projects could include construction and maintenance of:</p> <ul style="list-style-type: none"> <li>• Floodplain restoration</li> <li>• Riparian restoration</li> <li>• Tidal marsh restoration</li> </ul> <p>These projects may involve levee modification (levee modification, removal, degradation), grading, associated infrastructure (pumping facilities, weirs/gates), and dredging</p> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Stressor management</li> <li>• Invasive species management (including removal of invasive vegetation)</li> </ul> <p>Flow objectives that lead to a more natural flow regime in the Delta may lead to the same types of projects described in the Reliable Water Supply category.</p> <p>Elevation-appropriate ecosystem restoration and avoid or mitigate adverse impacts to ecosystem restoration opportunities within the Delta in accordance with DFG's Conservation Strategy for Restoration of the Sacramento-San Joaquin Delta Ecological Management Zone and the Sacramento and San Joaquin Valley Regions</p>	<ul style="list-style-type: none"> <li>• Habitat Restoration Projects (ER R1)               <ul style="list-style-type: none"> <li>- Cache Slough Complex (includes Prospect Island Restoration Project, DWR, in planning stage)</li> <li>- Cosumnes River-Mokelumne River Confluence: North Delta Flood Control and Ecosystem Restoration Project (DWR)</li> <li>- Lower San Joaquin River Bypass Proposal (South Delta Levee Protection and Channel Maintenance Authority and partners)</li> <li>- Suisun Marsh Habitat Management, Preservation, and Restoration Plan (includes Hill Slough Restoration Project, DFG, in planning stage)</li> <li>- Yolo Bypass</li> </ul> </li> <li>• Variance for USACE Vegetation Policy (Ecosystem Restoration [ER] Policy R4)</li> <li>• Delta Conservancy Strategic Plan (ER R2)</li> <li>• DFG's Stage Two Actions for Nonnative Invasive Species (ER R6)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> </ul>	<ul style="list-style-type: none"> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Suisun Marsh Habitat Management, Preservation, and Restoration Plan Draft EIS/EIR (Reclamation et al., October 2010)</li> </ul>

Table 2B-1

Proposed Project: List of Project Types, Named Projects in the Delta Plan and Example EIRs / EISs by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Water Quality Improvement (Water Treatment and Discharge)</b>	<p>Actions would include implementation of plans/programs that lead to reduced constituents from agricultural runoff and wastewater treatment plants.</p> <p>Associated projects could include construction and operation and maintenance of:</p> <ul style="list-style-type: none"> <li>• Water treatment plants</li> <li>• Conveyance facilities:                             <ul style="list-style-type: none"> <li>- Pipelines</li> <li>- Pumping plants</li> </ul> </li> <li>• Wastewater treatment and recycle facilities</li> <li>• Municipal stormwater treatment facilities</li> <li>• Agricultural runoff treatment (eliminate, capture and treat/reuse)</li> <li>• Wellhead treatment facilities</li> <li>• Wells, including withdrawal, recharge, and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Central Valley Drinking Water Policy (WQ R1)</li> <li>• CV-SALTS (WQ R5)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> <li>• State Water Resources Control Board/Central Valley Regional Water Quality Control Board (SWRCB/Central Valley RWQCB) Strategic Workplan (WQ R3)</li> <li>• Complete regulatory processes, research, and monitoring (WQ R6):                             <ul style="list-style-type: none"> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for diazinon and chlorpyrifos</li> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for pyrethroids</li> <li>- Total Maximum Daily Load and Basin Plan Amendments for selenium and methylmercury</li> </ul> </li> <li>• North Bay Aqueduct Alternative Intake Project (WQ R2)</li> </ul>	<ul style="list-style-type: none"> <li>• Grasslands Bypass Draft EIS/EIR (Reclamation and San Luis and Delta-Mendota Water Authority, December 2008) (Final August 2009)</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007) (water treatment plant component)</li> </ul>
<b>Flood Risk Reduction</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Setback levees (levee modification, construction and maintenance)</li> <li>• Floodplain expansion</li> <li>• Levee maintenance</li> <li>• Levee modification</li> <li>• Dredging</li> <li>• Stockpiling of materials</li> <li>• Subsidence reversal</li> <li>• Reservoir reoperation</li> </ul>	<ul style="list-style-type: none"> <li>• Sacramento Deep Water Ship Channel and Stockton Deep Water Ship Channel Maintenance as described in the <i>Delta Dredged Sediment Long-term Management Strategy</i> (USACE) (RR R2)</li> <li>• DWR Framework for Investments in Delta Flood Management (RR P4, RR R5)</li> </ul>	<ul style="list-style-type: none"> <li>• USACE 1998 Long-Term Management Strategy for the Placement of Dredged Material in the San Francisco Bay Region Final Policy EIS and Programmatic EIR</li> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Draft Supplemental EIS/EIR for the Sacramento River Deep Water Ship Channel (USACE, February 2011)</li> </ul>

**Table 2B-1**

**Proposed Project: List of Project Types, Named Projects in the Delta Plan and Example EIRs / EISs by Category**

<b>Category</b>	<b>Potential Facilities or Actions</b>	<b>Named Projects, Plans, Programs</b>	<b>Example EIR(s)/EIS(s)</b>
<b>Protection and Enhancement of Delta as an Evolving Place</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Construction, maintenance, and use of gateways, bike lanes, parks, trails, and marinas and facilities to support wildlife viewing, angling, and hunting opportunities</li> <li>• Additional retail and restaurants in legacy towns to support tourism (construction and use)</li> </ul>	<ul style="list-style-type: none"> <li>• Economic Sustainability Plan (DP R1)</li> <li>• Future State Parks (DP R4)                             <ul style="list-style-type: none"> <li>- Barker Slough</li> <li>- Elkhorn Basin</li> <li>- Southern Delta</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bidwell–Sacramento River State Park Habitat Restoration and Outdoor Recreation Facilities Development Project (California Department of Parks and Recreation, September 2008)</li> </ul>

CCWD: Contra Costa Water District

CV-SALTS: Central Valley Salinity Alternatives for Long-term Sustainability

DFG: California Department of Fish and Game

DWR: California Department of Water Resources

Reclamation: U.S. Bureau of Reclamation

RWQCB: Regional Water Quality Control Board

SFPUC: San Francisco Public Utilities Commission

SWRCB: State Water Resources Control Board

USACE: U.S. Army Corps of Engineers

WMWD: Western Municipal Water District

YCWA: Yuba County Water Agency

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**Table 2B-2**

**No Project Alternative: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

<b>Category</b>	<b>Potential Facilities or Actions</b>	<b>Named Projects, Plans, Programs</b>	<b>Example EIR(s)/EIS(s)</b>
<b>All Categories</b>	<p>Projects could include construction and operation of:</p> <ul style="list-style-type: none"> <li>• Surface water projects (water intakes; treatment and conveyance facilities; reservoirs) → LESS THAN PROPOSED PROJECT</li> <li>• Tidal marsh restoration → LESS THAN PROPOSED PROJECT</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Conveyance facilities may include:                             <ul style="list-style-type: none"> <li>- Pipelines and tunnels (construction and operation)</li> <li>- Canals (construction and operation)</li> <li>- Pumping plants (construction and operation)</li> </ul> </li> <li>• Reservoirs may include hydroelectric generation (construction of powerhouse, transmission lines, and operation)</li> </ul>	<ul style="list-style-type: none"> <li>• Delta-Mendota Canal/California Aqueduct Intertie</li> <li>• Dutch Slough Tidal Marsh Restoration</li> <li>• South Bay Aqueduct Improvement and Enlargement Project</li> <li>• Freeport Regional Water Project</li> <li>• Los Vaqueros Reservoir Expansion (Phase 1)</li> <li>• Contra Costa Canal Fish Screen Project</li> <li>• Delta Water Supply Project – Phase I</li> </ul>	<ul style="list-style-type: none"> <li>• Delta-Mendota Canal/California Aqueduct Intertie Final EIS (Reclamation, November 2009)</li> <li>• Dutch Slough Tidal Marsh Restoration Project Draft EIR (DWR and the California State Coastal Conservancy, November 2008)</li> <li>• South Bay Aqueduct Improvement and Enlargement Project Final EIR (DWR, December 2004)</li> <li>• Freeport Regional Water Project Draft EIR/EIS (Reclamation and the Freeport Regional Water Authority, July 2003) and Final EIR/EIS (March 2004)</li> <li>• Los Vaqueros Reservoir Expansion Project Draft EIS/EIR (Reclamation and CCWD, February 2009)</li> <li>• Contra Costa Canal Intake (Rock Slough) Fish Screening Project NOD and Negative Declaration (DWR, October 1997) and CEQA Addendum No. 2, Dewatering Plan Modification Negative Declaration (DWR, October 2010)</li> <li>• Stockton Delta Water Supply Project Program Draft Environmental Impact Report (City of Stockton, April 2005)</li> </ul>

CCWD: Contra Costa Water District

DWR: California Department of Water Resources

Reclamation: U.S. Bureau of Reclamation

**Table 2B-3**

Alternative 1A: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Reliable Water Supply</b>	<p>Projects could include construction and operation of:</p> <ul style="list-style-type: none"> <li>• Surface water projects (water intakes; treatment and conveyance facilities; reservoirs) → SAME AS PROPOSED PROJECT</li> <li>• Groundwater projects (wells, wellhead treatment, conveyance facilities) → LESS THAN PROPOSED PROJECT</li> <li>• Ocean desalination projects (water intakes and brine outfalls; treatment and conveyance facilities) → LESS THAN PROPOSED PROJECT</li> <li>• Recycled wastewater and stormwater projects (treatment and conveyance facilities) → LESS THAN PROPOSED PROJECT</li> </ul> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Water transfers → LESS THAN PROPOSED PROJECT</li> <li>• Water use efficiency and conservation program implementation → LESS THAN PROPOSED PROJECT</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Conveyance facilities may include: <ul style="list-style-type: none"> <li>- Pipelines and tunnels (construction and operation)</li> <li>- Canals (construction and operation)</li> <li>- Pumping plants (construction and operation)</li> </ul> </li> <li>• Reservoirs may include hydroelectric generation (construction of powerhouse, transmission lines, and operation)</li> <li>• Wells include well construction, withdrawal, recharge, and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Surface water storage investigations (WR R6) <ul style="list-style-type: none"> <li>- Sites Reservoir (North of Delta Offstream Storage Investigation)</li> <li>- Los Vaqueros Reservoir Expansion (Phase 2)</li> <li>- Temperance Flat Reservoir (Upper San Joaquin River Basin Storage Investigation Plan)</li> </ul> </li> <li>• Bulletin 118 update (WR R8)</li> </ul>	<ul style="list-style-type: none"> <li>• Los Vaqueros Reservoir Expansion Project Draft EIS/EIR (Reclamation and CCWD, February 2009)</li> <li>• Proposed Lower Yuba River Accord Draft EIR/EIS (Reclamation, DWR, and YCWA, June 2007) (Final EIR/EIS October 2007)</li> <li>• Calaveras Dam Replacement Project Draft EIR (SFPUC, October 2009) (Final January 2011)</li> <li>• Huntington Beach Seawater Desalination Project, Draft Recirculated EIR (City of Huntington Beach, 2005)</li> <li>• Precise Development Plan and Desalination Plant Project EIR (City of Carlsbad, December 2005) (Addendum Precise Development Plan and Desalination Plant Project Final EIR, August 2009)</li> <li>• Western Municipal Water District Riverside-Corona Feeder Project Final Programmatic Environmental Impact Report, May 2005 (Supplemental EIR/EIS for the Riverside-Corona Feeder Pipeline was completed in January 2011, [WMWD and Reclamation])</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007)</li> </ul>

Table 2B-3

Alternative 1A: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Delta Ecosystem Restoration</b>	<p>Projects could include construction and maintenance of:</p> <ul style="list-style-type: none"> <li>• Floodplain restoration → LESS THAN PROPOSED PROJECT</li> <li>• Riparian restoration → LESS THAN PROPOSED PROJECT</li> <li>• Tidal marsh restoration → LESS THAN PROPOSED PROJECT</li> </ul> <p>These projects may involve levee modification (levee modification, removal, degradation), grading, associated infrastructure (pumping facilities, weirs/gates), and dredging</p> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Stressor management → SAME AS PROPOSED PROJECT</li> <li>• Invasive species management (including removal of invasive vegetation) → SAME AS PROPOSED PROJECT</li> </ul> <p>Flow objectives that lead to a more natural flow regime in the Delta may lead to the same types of projects described in the Reliable Water Supply category. → LESS THAN PROPOSED PROJECT</p> <p>Elevation-appropriate ecosystem restoration and avoid or mitigate adverse impacts to ecosystem restoration opportunities within the Delta in accordance with DFG's Conservation Strategy for Restoration of the Sacramento-San Joaquin Delta Ecological Management Zone and the Sacramento and San Joaquin Valley Regions</p>	<ul style="list-style-type: none"> <li>• Habitat Restoration Projects (ER R1)                             <ul style="list-style-type: none"> <li>- Cache Slough Complex (includes Prospect Island Restoration Project, DWR, in planning stage)</li> <li>- Cosumnes River-Mokelumne River Confluence: North Delta Flood Control and Ecosystem Restoration Project (DWR)</li> <li>- Lower San Joaquin River Bypass Proposal (South Delta Levee Protection and Channel Maintenance Authority and partners)</li> <li>- Suisun Marsh Habitat Management, Preservation, and Restoration Plan (includes Hill Slough Restoration Project, DFG, in planning stage)</li> <li>- Yolo Bypass</li> </ul> </li> <li>• Variance for USACE Vegetation Policy (ER R4)</li> <li>• Delta Conservancy Strategic Plan (ER R2)</li> <li>• DFG's Stage Two Actions for Nonnative Invasive Species (ER R6)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> </ul>	<ul style="list-style-type: none"> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Suisun Marsh Habitat Management, Preservation, and Restoration Plan Draft EIS/EIR (Reclamation et al., October 2010)</li> </ul>

**Table 2B-3**

Alternative 1A: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Water Quality Improvement (Water Treatment and Discharge)</b>	<p>Actions would include implementation of plans/programs that lead to reduced constituents from agricultural runoff and wastewater treatment plants.</p> <p>Associated projects could include construction and operation and maintenance of:</p> <ul style="list-style-type: none"> <li>• Surface water treatment plants</li> <li>• Conveyance facilities:                             <ul style="list-style-type: none"> <li>- Pipelines</li> <li>- Pumping plants</li> </ul> </li> <li>• Wastewater treatment and recycle facilities</li> <li>• Municipal stormwater treatment facilities</li> <li>• Agricultural runoff treatment (eliminate, capture and treat/reuse)</li> <li>• Wellhead treatment facilities</li> <li>• Wells, including withdrawal, recharge, and monitoring</li> </ul> <p>→ ALL SAME AS PROPOSED PROJECT</p>	<ul style="list-style-type: none"> <li>• Central Valley Drinking Water Policy (WQ R1)</li> <li>• CV-SALTS (WQ R5)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> <li>• SWRCB/Central Valley RWQCB Strategic Workplan (WQ R3)</li> <li>• Complete regulatory processes, research, and monitoring (WQ R6):                             <ul style="list-style-type: none"> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for diazinon and chlorpyrifos</li> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for pyrethroids</li> <li>- Total Maximum Daily Load and Basin Plan Amendments for selenium and methylmercury</li> </ul> </li> <li>• North Bay Aqueduct Alternative Intake Project (WQ R2)</li> </ul>	<ul style="list-style-type: none"> <li>• Grasslands Bypass Draft EIS/EIR (Reclamation, San Luis and Delta-Mendota Water Authority, December 2008) (Final August 2009)</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007) (water treatment plant component)</li> </ul>

Table 2B-3

Alternative 1A: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Flood Risk Reduction</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Setback levees (levee modification, construction and maintenance) → SAME AS PROPOSED PROJECT</li> <li>• Floodplain expansion → SAME AS PROPOSED PROJECT</li> <li>• Levee maintenance → LIKELY LESS THAN PROPOSED PROJECT (less emphasis on levees that protect ag land, and more emphasis on levees that protect water supply corridors)</li> <li>• Levee modification → LIKELY LESS THAN PROPOSED PROJECT (less emphasis on levees that protect ag land, and more emphasis on levees that protect water supply corridors)</li> <li>• Dredging → SAME AS PROPOSED PROJECT</li> <li>• Stockpiling of materials → LESS THAN PROPOSED PROJECT</li> <li>• Subsidence reversal → LESS THAN PROPOSED PROJECT</li> <li>• Reservoir reoperation → SAME AS PROPOSED PROJECT</li> </ul>	<ul style="list-style-type: none"> <li>• Sacramento Deep Water Ship Channel and Stockton Deep Water Ship Channel Maintenance as described in the <i>Delta Dredged Sediment Long-Term Management Strategy</i> (USACE) (RR R2)</li> <li>• DWR Framework for Investments in Delta Flood Management (RR P4, RR R5)</li> </ul>	<ul style="list-style-type: none"> <li>• Long-Term Management Strategy for the Placement of Dredged Material in the San Francisco Bay Region Final Policy EIS and Programmatic EIR (USACE, 1998)</li> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Draft Supplemental EIS/EIR for the Sacramento River Deep Water Ship Channel (USACE, February 2011)</li> </ul>
<b>Protection and Enhancement of Delta as an Evolving Place</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Construction, maintenance and use of gateways, bike lanes, parks, trails, and marinas and facilities to support wildlife viewing, angling, and hunting opportunities</li> <li>• Additional retail and restaurants in legacy towns to support tourism (construction and use)</li> </ul> <p>→ ALL SAME AS PROPOSED PROJECT</p>	<ul style="list-style-type: none"> <li>• Economic Sustainability Plan (DP R1)</li> <li>• Future State Parks (DP R4)                             <ul style="list-style-type: none"> <li>- Barker Slough</li> <li>- Elkhorn Basin</li> <li>- Southern Delta</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bidwell–Sacramento River State Park Habitat Restoration and Outdoor Recreation Facilities Development Project (California Department of Parks and Recreation, September 2008)</li> </ul>

**Table 2B-3**

**Alternative 1A: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

<b>Category</b>	<b>Potential Facilities or Actions</b>	<b>Named Projects, Plans, Programs</b>	<b>Example EIR(s)/EIS(s)</b>
CCWD: Contra Costa Water District			
CV-SALTS: Central Valley Salinity Alternatives for Long-term Sustainability			
DFG: California Department of Fish and Game			
DWR: California Department of Water Resources			
Reclamation: U.S. Bureau of Reclamation			
RWQCB: Regional Water Quality Control Board			
SFPUC: San Francisco Public Utilities Commission			
SWRCB: State Water Resources Control Board			
USACE: U.S. Army Corps of Engineers			
WMWD: Western Municipal Water District			
YCWA: Yuba County Water Agency			

**Table 2B-4**

**Alternative 1B: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Reliable Water Supply</b>	<p>Projects could include construction and operation of:</p> <ul style="list-style-type: none"> <li>• Surface water projects (water intakes; treatment and conveyance facilities; reservoirs) → SAME AS PROPOSED PROJECT</li> <li>• Groundwater projects (wells, wellhead treatment, conveyance facilities) → LESS THAN PROPOSED PROJECT</li> <li>• Recycled wastewater and stormwater projects (treatment and conveyance facilities) → LESS THAN PROPOSED PROJECT</li> </ul> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Water transfers → LESS THAN PROPOSED PROJECT</li> <li>• Water use efficiency and conservation program implementation → LESS THAN PROPOSED PROJECT</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Conveyance facilities may include:                             <ul style="list-style-type: none"> <li>- Pipelines and tunnels (construction and operation)</li> <li>- Canals (construction and operation)</li> <li>- Pumping plants (construction and operation)</li> </ul> </li> <li>• Reservoirs may include hydroelectric generation (construction of powerhouse, transmission lines, and operation)</li> <li>• Wells include well construction, withdrawal, recharge, and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Surface water storage investigations (WR R6)                             <ul style="list-style-type: none"> <li>- Sites Reservoir (North of Delta Offstream Storage Investigation)</li> <li>- Los Vaqueros Reservoir Expansion (Phase 2)</li> <li>- Temperance Flat Reservoir (Upper San Joaquin River Basin Storage Investigation Plan)</li> </ul> </li> <li>• Bulletin 118 update (WR R8)</li> </ul>	<ul style="list-style-type: none"> <li>• Los Vaqueros Reservoir Expansion Project Draft EIS/EIR (Reclamation and CCWD, February 2009)</li> <li>• Proposed Lower Yuba River Accord Draft EIR/EIS (Reclamation, DWR, and YCWA, June 2007) (Final EIR/EIS October 2007)</li> <li>• Calaveras Dam Replacement Project Draft EIR (SFPUC, October 2009) (Final in January 2011)</li> <li>• Huntington Beach Seawater Desalination Project, Draft Recirculated EIR (City of Huntington Beach, 2005)</li> <li>• Precise Development Plan and Desalination Plant Project EIR (City of Carlsbad, December 2005) (Addendum Precise Development Plan and Desalination Plant Project Final EIR, August 2009)</li> <li>• Western Municipal Water District Riverside-Corona Feeder Project Final Programmatic Environmental Impact Report, May 2005 (Supplemental EIR/EIS for the Riverside-Corona Feeder Pipeline was completed in January 2011 [WMWD and Reclamation])</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007)</li> </ul>

**Table 2B-4**

**Alternative 1B: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Delta Ecosystem Restoration</b>	<p>Projects could include construction and maintenance of:</p> <ul style="list-style-type: none"> <li>• Floodplain restoration → LESS THAN PROPOSED PROJECT</li> <li>• Riparian restoration → LESS THAN PROPOSED PROJECT</li> <li>• Tidal marsh restoration → LESS THAN PROPOSED PROJECT</li> </ul> <p>These projects may involve levee modification (levee modification, removal, degradation), grading, associated infrastructure (pumping facilities, weirs/gates), and dredging</p> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Stressor management → MORE THAN PROPOSED PROJECT (decrease ocean harvest of wild fish and increase striped bass fishing bag requirements)</li> <li>• Invasive species management (including removal of invasive vegetation) → MORE THAN PROPOSED PROJECT</li> </ul> <p>Flow objectives that lead to a more natural flow regime in the Delta may lead to the same types of projects described in the Reliable Water Supply category. → LESS THAN PROPOSED PROJECT</p> <p>No compliance with elevation-appropriate ecosystem restoration and avoid or mitigate adverse impacts to ecosystem restoration opportunities within the Delta in accordance with DFG's Conservation Strategy for Restoration of the Sacramento-San Joaquin Delta Ecological Management Zone and the Sacramento and San Joaquin Valley Regions</p>	<ul style="list-style-type: none"> <li>• Habitat Restoration Projects (ER R1) <ul style="list-style-type: none"> <li>- Cache Slough Complex (includes Prospect Island Restoration Project, DWR, in planning stage)</li> <li>- Cosumnes River-Mokelumne River Confluence: North Delta Flood Control and Ecosystem Restoration Project (DWR)</li> <li>- Suisun Marsh Habitat Management, Preservation, and Restoration Plan (includes Hill Slough Restoration Project, DFG, in planning stage)</li> <li>- Yolo Bypass</li> </ul> </li> <li>• Delta Conservancy Strategic Plan (ER R2)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> </ul>	<ul style="list-style-type: none"> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Suisun Marsh Habitat Management, Preservation, and Restoration Plan Draft EIS/EIR (Reclamation et al., October 2010)</li> </ul>



Table 2B-4

Alternative 1B: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Water Quality Improvement (Water Treatment and Discharge)</b>	<p>Actions would include implementation of plans/programs that lead to reduced constituents from agricultural runoff and wastewater treatment plants.</p> <p>Associated projects could include construction and operation and maintenance of:</p> <ul style="list-style-type: none"> <li>• Water treatment plants → LESS THAN PROPOSED PROJECT</li> <li>• Conveyance facilities: → LESS THAN PROPOSED PROJECT                             <ul style="list-style-type: none"> <li>- Pipelines</li> <li>- Pumping plants</li> </ul> </li> <li>• Wastewater treatment and recycle facilities → MORE THAN PROPOSED PROJECT</li> <li>• Municipal stormwater treatment facilities</li> <li>• Agricultural runoff treatment (eliminate, capture and treat/reuse) → MORE THAN PROPOSED PROJECT</li> <li>• Wellhead treatment facilities → LESS THAN PROPOSED PROJECT</li> <li>• Wells, including withdrawal, recharge, and monitoring → LESS THAN PROPOSED PROJECT</li> </ul>	<ul style="list-style-type: none"> <li>• Central Valley Drinking Water Policy (WQ R1)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> <li>• SWRCB/Central Valley RWQCB Strategic Workplan (WQ R3)</li> </ul>	<ul style="list-style-type: none"> <li>• Grasslands Bypass Draft EIS/EIR (Reclamation and San Luis and Delta-Mendota Water Authority, December 2008) (Final August 2009)</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007) (water treatment plant component)</li> </ul>

**Table 2B-4**

**Alternative 1B: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

<b>Category</b>	<b>Potential Facilities or Actions</b>	<b>Named Projects, Plans, Programs</b>	<b>Example EIR(s)/EIS(s)</b>
<b>Flood Risk Reduction</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Floodplain expansion → LESS THAN PROPOSED PROJECT</li> <li>• Levee maintenance → MORE THAN PROPOSED PROJECT</li> <li>• Levee modification → MORE THAN PROPOSED PROJECT</li> <li>• Dredging → MORE THAN PROPOSED PROJECT</li> <li>• Stockpiling of materials → LESS THAN PROPOSED PROJECT</li> <li>• Reservoir reoperation → LESS THAN PROPOSED PROJECT</li> </ul>		
<b>Protection and Enhancement of Delta as an Evolving Place</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Construction, maintenance, and use of gateways, bike lanes, parks, trails, and marinas and facilities to support wildlife viewing, angling, and hunting opportunities</li> <li>• Additional retail and restaurants in legacy towns to support tourism (construction and use)</li> </ul> <p>→ ALL SAME AS PROPOSED PROJECT</p>	<ul style="list-style-type: none"> <li>• Economic Sustainability Plan (DP R1)</li> </ul>	<ul style="list-style-type: none"> <li>• Bidwell–Sacramento River State Park Habitat Restoration and Outdoor Recreation Facilities Development Project (California Department of Parks and Recreation, September 2008)</li> </ul>

CCWD: Contra Costa Water District  
 DFG: California Department of Fish and Game  
 DWR: California Department of Water Resources  
 Reclamation: U.S. Bureau of Reclamation  
 RWQCB: Regional Water Quality Control Board  
 SFPUC: San Francisco Public Utilities Commission  
 SWRCB: State Water Resources Control Board  
 USACE: U.S. Army Corps of Engineers  
 WMWD: Western Municipal Water District  
 YCWA: Yuba County Water Agency

Table 2B-5

Alternative 2: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Reliable Water Supply</b>	<p>Projects could include construction and operation of:</p> <ul style="list-style-type: none"> <li>• Surface water projects (water intakes; treatment and conveyance facilities; reservoirs) → LESS THAN PROPOSED PROJECT</li> <li>• Groundwater projects (wells, wellhead treatment, conveyance facilities) → MORE THAN PROPOSED PROJECT</li> <li>• Ocean desalination projects (water intakes and brine outfalls; treatment and conveyance facilities) → MORE THAN PROPOSED PROJECT</li> <li>• Recycled wastewater and stormwater projects (treatment and conveyance facilities) → MORE THAN PROPOSED PROJECT</li> </ul> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Water transfers → MORE THAN PROPOSED PROJECT</li> <li>• Water use efficiency and conservation program implementation → MORE THAN PROPOSED PROJECT</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Conveyance facilities may include:                             <ul style="list-style-type: none"> <li>- Pipelines and tunnels (construction and operation)</li> <li>- Canals (construction and operation)</li> <li>- Pumping plants (construction and operation)</li> </ul> </li> <li>• Wells include well construction, withdrawal, recharge, and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Bulletin 118 update (WR R8)</li> <li>• Tulare Lake Basin Surface Storage (WR R7 in Policies and Recommendations for Alternative 2 only)</li> </ul>	<ul style="list-style-type: none"> <li>• Los Vaqueros Reservoir Expansion Project Draft EIS/EIR (Reclamation and CCWD, February 2009)</li> <li>• Proposed Lower Yuba River Accord Draft EIR/EIS (Reclamation, DWR, and YCWA, June 2007) (Final EIR/EIS October 2007)</li> <li>• Calaveras Dam Replacement Project Draft EIR (SFPUC, October 2009) (Final in January 2011)</li> <li>• Huntington Beach Seawater Desalination Project, Draft Recirculated EIR (City of Huntington Beach, 2005)</li> <li>• Precise Development Plan and Desalination Plant Project EIR (City of Carlsbad, December 2005) (Addendum Precise Development Plan and Desalination Plant Project Final EIR, August 2009)</li> <li>• Western Municipal Water District Riverside-Corona Feeder Project Final Programmatic Environmental Impact Report, May 2005 (Supplemental EIR/EIS for the Riverside-Corona Feeder Pipeline was completed in January 2011 [WMWD and Reclamation])</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007)</li> </ul>

Table 2B-5

Alternative 2: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Delta Ecosystem Restoration</b>	<p>Projects could include construction and maintenance of:</p> <ul style="list-style-type: none"> <li>• Floodplain restoration → LESS THAN PROPOSED PROJECT</li> <li>• Riparian restoration → LESS THAN PROPOSED PROJECT</li> <li>• Tidal marsh restoration → LESS THAN PROPOSED PROJECT</li> </ul> <p>These projects may involve levee modification (levee modification, removal, degradation), grading, associated infrastructure (pumping facilities, weirs/gates), and dredging</p> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Stressor management → SAME AS PROPOSED PROJECT</li> <li>• Invasive species management (including removal of invasive vegetation) → SAME AS PROPOSED PROJECT</li> </ul> <p>Flow objectives that lead to a more natural flow regime in the Delta may lead to the same types of projects described in the Reliable Water Supply category. → MORE THAN PROPOSED PROJECT</p> <p>No compliance with elevation-appropriate ecosystem restoration and avoid or mitigate adverse impacts to ecosystem restoration opportunities within the Delta in accordance with DFG's Conservation Strategy for Restoration of the Sacramento-San Joaquin Delta Ecological Management Zone and the Sacramento and San Joaquin Valley Regions</p>	<ul style="list-style-type: none"> <li>• Habitat Restoration Projects (ER R1) <ul style="list-style-type: none"> <li>- Cache Slough Complex (includes Prospect Island Restoration Project, DWR, in planning stage)</li> <li>- Cosumnes River-Mokelumne River Confluence: North Delta Flood Control and Ecosystem Restoration Project (DWR)</li> <li>- Lower San Joaquin River Bypass Proposal (South Delta Levee Protection and Channel Maintenance Authority and partners)</li> <li>- Suisun Marsh Habitat Management, Preservation, and Restoration Plan (includes Hill Slough Restoration Project, DFG, in planning stage)</li> <li>- Yolo Bypass</li> </ul> </li> <li>• Variance for USACE Vegetation Policy (ER R4)</li> <li>• Delta Conservancy Strategic Plan (ER R2)</li> <li>• DFG's Stage Two Actions for Nonnative Invasive Species (ER R6)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> </ul>	<ul style="list-style-type: none"> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Suisun Marsh Habitat Management, Preservation, and Restoration Plan Draft EIS/EIR (Reclamation et al., October 2010)</li> </ul>

Table 2B-5

Alternative 2: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Water Quality Improvement (Water Treatment and Discharge)</b>	<p>Actions would include implementation of plans/programs that lead to reduced constituents from agricultural runoff and wastewater treatment plants.</p> <p>Associated projects could include construction and operation and maintenance of:</p> <ul style="list-style-type: none"> <li>• Water treatment plants → SAME AS PROPOSED PROJECT</li> <li>• Conveyance facilities: → MORE THAN PROPOSED PROJECT                             <ul style="list-style-type: none"> <li>- Pipelines</li> <li>- Pumping plants</li> </ul> </li> <li>• Wastewater treatment and recycle facilities → MORE THAN PROPOSED PROJECT</li> <li>• Municipal stormwater treatment facilities → SAME AS PROPOSED PROJECT</li> <li>• Agricultural runoff treatment (eliminate, capture and treat/reuse) → MORE THAN PROPOSED PROJECT</li> <li>• Wellhead treatment facilities → SAME AS PROPOSED PROJECT</li> <li>• Wells, including withdrawal, recharge, and monitoring → SAME AS PROPOSED PROJECT</li> </ul>	<ul style="list-style-type: none"> <li>• Central Valley Drinking Water Policy (WQ R1)</li> <li>• CV-SALTS (WQ R5)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> <li>• SWRCB/Central Valley RWQCB Strategic Workplan (WQ R3)</li> <li>• Complete regulatory processes, research, and monitoring (WQ R6):                             <ul style="list-style-type: none"> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for diazinon and chlorpyrifos</li> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for pyrethroids</li> <li>- Total Maximum Daily Load and Basin Plan Amendments for selenium and methylmercury</li> </ul> </li> <li>• North Bay Aqueduct Alternative Intake Project (WQ R2)</li> </ul>	<ul style="list-style-type: none"> <li>• Grasslands Bypass Draft EIS/EIR (Reclamation and San Luis and Delta-Mendota Water Authority; December 2008) (Final August 2009)</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007) (water treatment plant component)</li> </ul>

**Table 2B-5**

**Alternative 2: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Flood Risk Reduction</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Setback levees (levee modification, construction and maintenance) → LESS THAN PROPOSED PROJECT</li> <li>• Floodplain expansion → MORE THAN PROPOSED PROJECT</li> <li>• Levee maintenance → LESS THAN PROPOSED PROJECT</li> <li>• Levee modification → LESS THAN PROPOSED PROJECT</li> <li>• Dredging → LESS THAN PROPOSED PROJECT</li> <li>• Stockpiling of materials → SAME AS PROPOSED PROJECT</li> <li>• Subsidence reversal → SAME AS PROPOSED PROJECT</li> <li>• Reservoir reoperation → MORE THAN PROPOSED PROJECT</li> </ul>		<ul style="list-style-type: none"> <li>• Long-Term Management Strategy for the Placement of Dredged Material in the San Francisco Bay Region Final Policy EIS and Programmatic EIR (USACE, 1998)</li> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Draft Supplemental EIS/EIR for the Sacramento River Deep Water Ship Channel (USACE, February 2011)</li> </ul>
<b>Protection and Enhancement of Delta as an Evolving Place</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Construction, maintenance, and use of gateways, bike lanes, parks, trails, and marinas and facilities to support wildlife viewing, angling, and hunting opportunities</li> <li>• Additional retail and restaurants in legacy towns to support tourism (construction and use)</li> </ul> <p>→ SAME AS PROPOSED PROJECT</p>	<ul style="list-style-type: none"> <li>• Economic Sustainability Plan (DP R1)</li> <li>• Future State Parks (DP R4)               <ul style="list-style-type: none"> <li>- Barker Slough</li> <li>- Elkhorn Basin</li> <li>- Southern Delta</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bidwell–Sacramento River State Park Habitat Restoration and Outdoor Recreation Facilities Development Project (California Department of Parks and Recreation, September 2008)</li> </ul>

**Table 2B-5**

**Alternative 2: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category**

<b>Category</b>	<b>Potential Facilities or Actions</b>	<b>Named Projects, Plans, Programs</b>	<b>Example EIR(s)/EIS(s)</b>
CCWD: Contra Costa Water District			
CV-SALTS: Central Valley Salinity Alternatives for Long-term Sustainability			
DFG: California Department of Fish and Game			
DWR: California Department of Water Resources			
Reclamation: U.S. Bureau of Reclamation			
RWQCB: Regional Water Quality Control Board			
SFPUC: San Francisco Public Utilities Commission			
SWRCB: State Water Resources Control Board			
USACE: U.S. Army Corps of Engineers			
WMWD: Western Municipal Water District			
YCWA: Yuba County Water Agency			

Table 2B-6

Alternative 3: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Reliable Water Supply</b>	<p>Projects could include construction and operation of:</p> <ul style="list-style-type: none"> <li>• Surface water projects (water intakes; treatment and conveyance facilities; reservoirs) → LESS THAN PROPOSED PROJECT</li> <li>• Groundwater projects (wells, wellhead treatment, conveyance facilities) → SAME AS PROPOSED PROJECT</li> <li>• Ocean desalination projects (water intakes and brine outfalls; treatment and conveyance facilities) → SAME AS PROPOSED PROJECT</li> <li>• Recycled wastewater and stormwater projects (treatment and conveyance facilities) → SAME AS PROPOSED PROJECT</li> </ul> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Water transfers → SAME AS PROPOSED PROJECT</li> <li>• Water use efficiency and conservation program implementation → SAME AS PROPOSED PROJECT</li> </ul> <p>Notes:</p> <ul style="list-style-type: none"> <li>• Conveyance facilities may include: <ul style="list-style-type: none"> <li>- Pipelines and tunnels (construction and operation)</li> <li>- Canals (construction and operation)</li> <li>- Pumping plants (construction and operation)</li> </ul> </li> <li>• Reservoirs may include hydroelectric generation (construction of powerhouse, transmission lines, and operation)</li> <li>• Wells include well construction, withdrawal, recharge, and monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• Surface water storage investigations (WR R6) <ul style="list-style-type: none"> <li>- Sites Reservoir (North of Delta Offstream Storage Investigation)</li> <li>- Los Vaqueros Reservoir Expansion (Phase 2)</li> <li>- Temperance Flat Reservoir (Upper San Joaquin River Basin Storage Investigation Plan)</li> </ul> </li> <li>• Bulletin 118 update (WR R8)</li> </ul>	<ul style="list-style-type: none"> <li>• Los Vaqueros Reservoir Expansion Project Draft EIS/EIR (Reclamation and CCWD, February 2009)</li> <li>• Proposed Lower Yuba River Accord Draft EIR/EIS (Reclamation, DWR, and YCWA, June 2007) (Final EIR/EIS October 2007)</li> <li>• Calaveras Dam Replacement Project Draft EIR (SFPUC, October 2009) (Final in January 2011)</li> <li>• Huntington Beach Seawater Desalination Project, Draft Recirculated EIR (City of Huntington Beach, 2005)</li> <li>• Precise Development Plan and Desalination Plant Project EIR (City of Carlsbad, December 2005) (Addendum Precise Development Plan and Desalination Plant Project Final EIR, August 2009)</li> <li>• Western Municipal Water District Riverside-Corona Feeder Project Final Programmatic Environmental Impact Report, May 2005 (Supplemental EIR/EIS for the Riverside-Corona Feeder Pipeline was completed in January 2011 [WMWD and Reclamation])</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007)</li> </ul>



Table 2B-6

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Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Delta Ecosystem Restoration</b>	<p>Projects could include construction and maintenance of:</p> <ul style="list-style-type: none"> <li>• Floodplain restoration → LESS THAN PROPOSED PROJECT IN THE DELTA (emphasis only on public lands)</li> <li>• Riparian restoration → LESS THAN PROPOSED PROJECT IN THE DELTA</li> <li>• Tidal marsh restoration → LESS THAN PROPOSED PROJECT IN THE DELTA</li> </ul> <p>These projects may involve levee modification (levee modification, removal, degradation), grading, associated infrastructure (pumping facilities, weirs/gates), and dredging</p> <p>Projects could also include:</p> <ul style="list-style-type: none"> <li>• Stressor management → MORE THAN PROPOSED PROJECT</li> <li>• Invasive species management (including removal of invasive vegetation) → MORE THAN PROPOSED PROJECT</li> </ul> <p>Flow objectives that lead to a more natural flow regime in the Delta may lead to the same types of projects described in the Reliable Water Supply category. → SAME AS PROPOSED PROJECT</p> <p>No compliance with elevation-appropriate ecosystem restoration and avoid or mitigate adverse impacts to ecosystem restoration opportunities within the Delta in accordance with DFG's Conservation Strategy for Restoration of the Sacramento-San Joaquin Delta Ecological Management Zone and the Sacramento and San Joaquin Valley Regions</p>	<ul style="list-style-type: none"> <li>• Habitat Restoration Projects (ER R1)                         <ul style="list-style-type: none"> <li>- Suisun Marsh Habitat Management, Preservation, and Restoration Plan (includes Hill Slough Restoration Project, DFG, in planning stage)</li> <li>- Yolo Bypass</li> </ul> </li> <li>• Variance for USACE Vegetation Policy (ER R4)</li> <li>• Delta Conservancy Strategic Plan (ER R2)</li> <li>• DFG's Stage Two Actions for Nonnative Invasive Species (ER R6)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> </ul>	<ul style="list-style-type: none"> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Suisun Marsh Habitat Management, Preservation, and Restoration Plan Draft EIS/EIR (Reclamation et al., October 2010)</li> </ul>

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Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Water Quality Improvement (Water Treatment and Discharge)</b>	<p>Actions would include implementation of plans/programs that lead to reduced constituents from agricultural runoff and wastewater treatment plants.</p> <p>Associated projects could include construction and operation and maintenance of:</p> <ul style="list-style-type: none"> <li>• Water treatment plants</li> <li>• Conveyance facilities: <ul style="list-style-type: none"> <li>- Pipelines</li> <li>- Pumping plants</li> </ul> </li> <li>• Wastewater treatment and recycle facilities</li> <li>• Municipal stormwater treatment facilities</li> <li>• Agricultural runoff treatment (eliminate, capture and treat/reuse)</li> <li>• Wellhead treatment facilities</li> <li>• Wells, including withdrawal, recharge, and monitoring</li> </ul> <p>→ ALL SAME AS PROPOSED PROJECT</p>	<ul style="list-style-type: none"> <li>• Central Valley Drinking Water Policy (WQ R1)</li> <li>• CV-SALTS (WQ R5)</li> <li>• Water Quality Control Plan Update for the San Francisco Bay/ Sacramento-San Joaquin Delta Estuary (ER P1)</li> <li>• SWRCB/ Central Valley RWQCB Strategic Workplan (WQ R3)</li> <li>• Complete regulatory processes, research, and monitoring (WQ R6): <ul style="list-style-type: none"> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for diazinon and chlorpyrifos</li> <li>- Central Valley Pesticide Total Maximum Daily Load and Basin Plan Amendment for pyrethroids</li> <li>- Total Maximum Daily Load and Basin Plan Amendments for selenium and methylmercury</li> </ul> </li> <li>• North Bay Aqueduct Alternative Intake Project (WQ R2)</li> </ul>	<ul style="list-style-type: none"> <li>• Grasslands Bypass Draft EIS/EIR (Reclamation and San Luis and Delta-Mendota Water Authority, December 2008) (Final August 2009)</li> <li>• Davis-Woodland Water Supply Project Draft EIR (City of Davis and City of Woodland, April 2007) (water treatment plant component)</li> </ul>
<b>Flood Risk Reduction</b>	<p>Projects or project elements could include:</p> <ul style="list-style-type: none"> <li>• Floodplain expansion → LESS THAN PROPOSED PROJECT</li> <li>• Levee maintenance → MORE THAN PROPOSED PROJECT</li> <li>• Levee modification → MORE THAN PROPOSED PROJECT</li> <li>• Dredging → MORE THAN PROPOSED PROJECT</li> <li>• Stockpiling of materials → SAME AS PROPOSED PROJECT</li> <li>• Reservoir reoperation → SAME AS PROPOSED PROJECT</li> </ul>	<ul style="list-style-type: none"> <li>• Sacramento Deep Water Ship Channel and Stockton Deep Water Ship Channel Maintenance as described in the <i>Delta Dredged Sediment Long-Term Management Strategy</i> (USACE) (RR R2)</li> <li>• DWR Framework for Investments in Delta Flood Management (RR P4, RR R5)</li> </ul>	<ul style="list-style-type: none"> <li>• Long-Term Management Strategy for the Placement of Dredged Material in the San Francisco Bay Region Final Policy EIS and Programmatic EIR (USACE, 1998)</li> <li>• North Delta Flood Control and Ecosystem Restoration Project Draft EIR (DWR, October 2010)</li> <li>• Draft Supplemental EIS/EIR for the Sacramento River Deep Water Ship Channel (USACE, February 2011)</li> </ul>

**Table 2B-6**

Alternative 3: List of Project Types, Named Projects in the Delta Plan, and Example EIRs / EISs, by Category

Category	Potential Facilities or Actions	Named Projects, Plans, Programs	Example EIR(s)/EIS(s)
<b>Protection and Enhancement of Delta as an Evolving Place</b>	Projects or project elements could include: <ul style="list-style-type: none"> <li>• Construction, maintenance, and use of gateways, bike lanes, parks, trails, and marinas and facilities to support wildlife viewing, angling, and hunting opportunities</li> <li>• Additional retail and restaurants in legacy towns to support tourism (construction and use)</li> </ul> → ALL SAME AS PROPOSED PROJECT	<ul style="list-style-type: none"> <li>• Economic Sustainability Plan (DP R1)</li> <li>• Future State Parks (DP R4)                             <ul style="list-style-type: none"> <li>- Barker Slough</li> <li>- Elkhorn Basin</li> <li>- Southern Delta</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bidwell–Sacramento River State Park Habitat Restoration and Outdoor Recreation Facilities Development Project (California Department of Parks and Recreation, September 2008)</li> </ul>

CCWD: Contra Costa Water District  
 CV-SALTS: Central Valley Salinity Alternatives for Long-term Sustainability  
 DFG: California Department of Fish and Game  
 DWR: California Department of Water Resources  
 Reclamation: U.S. Bureau of Reclamation  
 RWQCB: Regional Water Quality Control Board  
 SFPUC: San Francisco Public Utilities Commission  
 SWRCB: State Water Resources Control Board  
 USACE: U.S. Army Corps of Engineers  
 WMWD: Western Municipal Water District  
 YCWA: Yuba County Water Agency