Bay Delta Conservation Plan Update

Special Committee on Bay-Delta
Item 4a, March 27, 2012

Bay Delta Conservation Plan

- Multi-species approach to endangered species protection
- Includes habitat conservation, conveyance improvements, and other stressors control
- Regulatory assurances
  - Long-term operations permit
  - Coverage for existing & future listed species
  - Future regulatory obligation defined upfront

Ecosystem Restoration & Preservation Targets

Restoration & Preservation	Targets
Tidal Marsh	65,000 ac
Seasonal Floodplain	10,000 ac
Riparian Habitat	5,000 ac
River Channel Margin	20 mi
Grassland	10,000 ac
Non-Tidal Wetland	400 ac
Alkali Seasonal Wetland	400 ac
Vernal Pool	500 ac
Agricultural Habitat	16,620 - 32,640 ac
TOTAL	**107,920 - 123,940 ac**

State Water Project

Annual Average Supply Goal

- Existing reliability [1]

  ~ 60% Table A

  ~ 1.1 million acre-ft (MWD share)

- Restored 2005 level reliability [2]

  ~ 77% Table A

  ~ 1.6 million acre-ft (MWD share)

(1) 2009 DWR Reliability Report (at 2025 level of development)

(2) 2005 DWR Reliability Report (at 2025 level of development)

Schedule Overview

Administrative Draft	Feb 2012
Revise Draft BDCP EIR/S	Apr 2012
Public Draft	Jun 2012
Governor/Sec of Interior announce proposed direction	Jul 2012
Final EIR/S	Dec 2012
Record of Decision	Feb 2013

Bay Delta Conservation Plan

First Administrative Draft

- Released Feb 2012
- All preliminary draft chapters of BDCP & EIR/S
- Covered activities
- Plan implementation
- Effects analysis and technical appendices

Bay Delta Conservation Plan

Conveyance Elements Analyzed

- Project analyzed
  - Central Delta tunnel alignment
  - 15,000 cfs capacity
  - 5 intakes @ 3,000 cfs each
  - 2 tunnels (33’ interior diameter)
- EIR/S also evaluating
  - Through-delta
  - West & East alignment
  - Capacity 3,000-15,000 cfs
  - Tunnel vs canal
- Capital cost of 15,000 cfs tunnel: $13 billion

Bay Delta Conservation Plan

New Conveyance Benefits

- Resilient against sea-level rise and climate change
- Safeguards water supply against catastrophic seismic event
- Provides increased operational flexibility
- Improves downstream flow patterns & conditions for fisheries

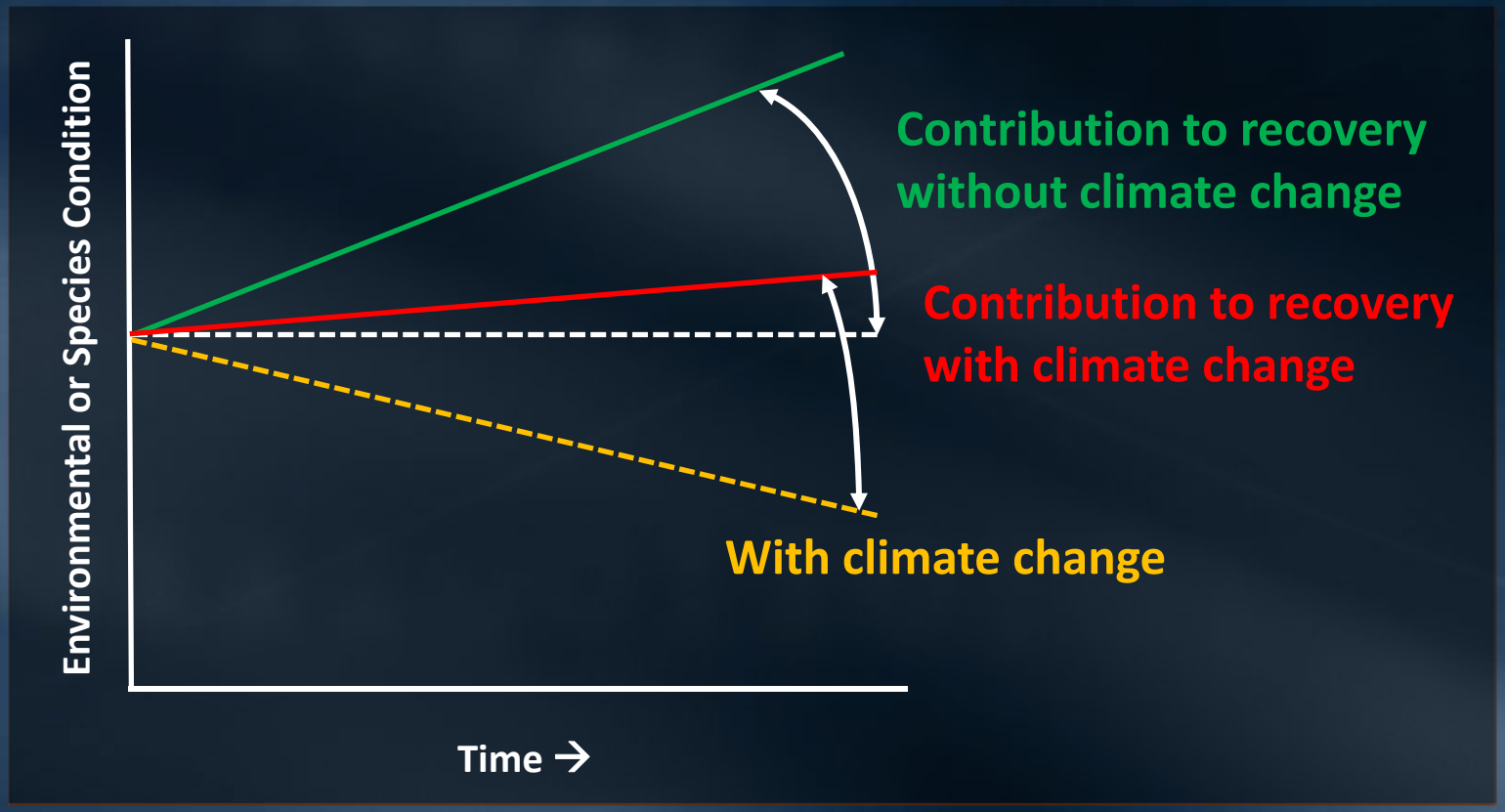
Bay Delta Conservation Plan

Effects Analysis

- Provide necessary information for permitting
- Endangered Species Act
- Natural Community Conservation Planning Act
- Provide foundation for alternatives analysis
- Determine overall effects on covered species and natural communities as a result of BDCP
- Includes only analyses for biological effects

Bay Delta Conservation Plan

Climate Change



Bay Delta Conservation Plan

Terrestrial Benefits

- Mitigates and contributes to recovery for all 49 terrestrial species
- Provides substantial long-term conservation for many species through
  - Strategic land protection
  - Habitat restoration
  - Population creation (plants)
  - Long-term monitoring and targeted research

Bay Delta Conservation Plan

Aquatic Species Analysis

- 63 species
- Stressors evaluated
  - Food Resources
  - Competition for food
  - Nutrient balance
  - Flow Regulation
  - Alternative channels
  - Passage Barriers
  - North Delta Intakes
  - South Delta Pumps
  - North Bay Aqueduct
  - Diversions (Smaller Diversions)
  - Tidal wetlands
  - Channel Margin
  - Floodplains
  - Low Salinity Zone
  - Submerged Aquatic Vegetation
  - Temperature
  - Turbidity
  - Dissolved Oxygen
  - Contaminants
  - Microcystis toxicity
  - Predation
  - Harvest

ESA Listed Fish (covered under BDCP)

SACRAMENTO SPLITTAIL

(substantial)

GREEN AND WHITE STURGEON

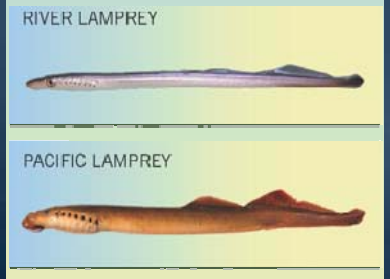
(substantial)

CHINOOK SALMON

winter, spring, fall and late fall

CENTRAL VALLEY STEELHEAD

PACIFIC AND RIVER LAMPREY



DELTA SMELT

LONGFIN SMELT

Benefits to ESA Fish Species

Covered under BDCP

- Increased rearing and spawning habitat
- Greater food production and export
- Enhanced predator management
- Improved control of submerged aquatic vegetation
- Decreased overall entrainment

Benefits to ESA Fish Species

Covered under BDCP

- BDCP mitigates and contributes to recovery
  - Sacramento Splittail
  - Chinook Salmon and Steelhead
  - Sturgeon and Lamprey
- Uncertain net effects to
  - Delta Smelt
  - Longfin Smelt

Next Steps Toward Public Draft

- Work with fish & wildlife agencies and stakeholders
  - Complete technical analysis
  - Reduce adverse impacts on key species
  - Increase benefits of conservation measures
- Incorporate new and revised analyses in technical appendices
- Work towards
  - Selected Project (Jul 2012)
  - Public Draft BDCP and EIR/S

Financial Report

- Total funding — $240 million *
  - *1st Funding Agreement* — *$140 million*
  - *Supplemental Funding Agreement* — *$100 million*
- Total incurred — $141.1 million
- Total commitment — $150.1 million

* Does not include initial BDCP funding amount of $13.5 million