BDCP Conveyance Overview
• Conveyance Overview
• Status Update - Ongoing Work
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• Next Steps
• Questions
What is “Dual Conveyance”? BDCP is proposing a dual conveyance water delivery system. Dual conveyance reflects the coordinated use of new North Delta Intakes and Conveyance, and the existing South Delta Diversion Facilities to balance the needs of the estuary with reliable water supplies.
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North Delta Diversion Operations Criteria (December-April)

**WET YEAR (Jan. 21, 2006)**
- 64,000 cfs
- 15,000 Diversion

**DRY YEAR (Jan. 21, 2009)**
- 6,400 cfs
- No Diversion

Sacramento River Flow (cfs):
- 9,000
- 15,000
- 20,000
- 39,150

(Flow at which maximum diversion is reached under proposed operations range)

Maximum possible diversion (cfs):
- 0 - 3,000
- 1,600 - 7,000
- 15,000
- 15,000 (Diverted water)

No diversion
Restoring More Natural Flows

- SACRAMENTO River
- Isolated Conveyance
- Existing through-Delta
- Yolo Bypass
- Cache Slough

Ocean tidal flows

San Francisco Bay

California Aqueduct

Delta-Mendota Canal

Pumping Station

STOCKTON

Mokelumne River

Calaveras River

San Joaquin River
Potential Intake Locations

- Dixon
- Clarksburg
- Courtland
- Freeport
- Walnut Grove
- Mokelumne River
• New recommendations released by 5-agency fish facilities technical team
  • Address unresolved issues related to intake location, size, design, and configuration
    • Diversion structures
    • Fish screens
    • Velocity
Factors Effecting Size and Performance

- Operational Flexibility to Improve Fishery Conditions
- Capital Costs
- Operation and Maintenance Costs
- Improved Water Supply
- Sea Level Rise / Climate Change
- More Constrained South Delta Conditions
- Catastrophic Delta Levee Failure
- Water Quality Delivered South of the Delta
- In-Delta Water Quality
- Potential Increased Delta Outflow Requirements
Capacity and Sizes

| Capacity (cfs) | Tunnels       | Intakes / IPP | Pumps  \
|---------------|---------------|---------------|--------
| 3,000         | two 18-ft     | 1             | 2 pumps|
|               | tunnels       |               |        |
| 6,000         | two 23-ft     | 2             | 4 pumps|
|               | tunnels       |               |        |
| 9,000         | two 26-ft     | 3             | 6 pumps|
|               | tunnels       |               |        |
| 15,000        | two 33-ft     | 5             | 10 pumps|
|               | tunnels       |               |        |

* Number of Pumps at the Intermediate Pumping Plant
Intakes:
a number of possible intake locations are under consideration in the area from Freeport to Courtland. River intakes with pumping plants transfer water to conveyance facilities on the East, West, Pipeline/Tunnel, and Through-Delta Conveyance options.

*Not all intake options are shown*

### Intakes

**West Option**
- Up to 5 intake facilities with fish screens
- 6 pump stations
- 36 miles of canals
- 17-mile tunnel (2 bores, 33-feet inside diameter)
- 620-acre forebay near existing Clifton Court Forebay

**Pipeline/Tunnel Option**
- Up to 5 intake facilities with fish screens
- 6 pump stations
- 5-mile single bore tunnel (29 feet inside diameter)
- 35-mile dual bore tunnel (33-feet inside diameter)
- 750-acre forebay near Courtland
- 600-acre forebay near the existing Clifton Court Forebay

**Separate Corridors Option**
- Fish corridors
- Water supply corridors
- 2 intake facilities with fish screens along the Sacramento River
- 14 operable barriers
- 2 pumping plants
- 2 siphons
- Channel/canal modification in the Clifton Court Forebay area

**East Option**
- Up to 5 intake facilities with fish screen along the Sacramento River
- 6 pump stations
- 42 miles of canals
- 3 tunnels (2 miles combined length)
- 8 siphons
- 620-acre forebay near existing Clifton Court Forebay