Water Management
Technical Feedback Meeting

April 2, 2010
Fresno, CA

Agenda Overview

• Comments on Meeting Notes
• Recovered Water Account Status Update
• MC/FKC Capacity Correction / Reverse Flow Feasibility Studies
• Interim Flow Scheduling
• Recapture and Recirculation
• Part III Guidelines
• Next Meeting Date & Time
• Public Comment
Comments on Meeting Notes

Recovered Water Account Status Update
Madera & Friant-Kern Canals Capacity Correction Assessment & Friant-Kern Canal Reverse Flow Feasibility Studies

Feasibility Studies – Planning Steps

• Preliminary Design Reports
• Economic Benefit Analyses
• Environmental Assessment
• Feasibility Study
Planning Steps – Status Update

• Preliminary Design Report (PDR):
  – Capacity Correction
    • Hydraulic model complete
    • Alternatives development complete April
    • Preliminary design complete June
    • PDR complete July
  – Reverse Flow
    • Hydraulic model complete
    • Alternatives development complete April
    • Preliminary design complete May (TSC)
    • PDR complete by June (TSC)

• Economic Benefit Analyses:
  – DRAFT Model Analysis Strategy TM
    • Comments received from Friant contractors
    • Revising DRAFT per comments
    • Finalize April
  – Economic Benefit Analysis
    • Complete by July (both studies)
Planning Steps – Status Update

- Environmental Assessment (EA):
  - Capacity Correction
    - Field surveys complete by May
    - EA complete by July
  - Reverse Flow (TSC)
    - Field surveys completed
    - EA complete by July

- Feasibility Study
  - Capacity Correction complete by August
  - Reverse Flow complete by August

Capacity Correction PDR - DRAFT Alternatives

- Friant-Kern Canal
  1) No Action
  2) Restore 100% of Capacity Deficiencies
  3) Restore Capacity Deficiencies in Only Highest Priority Areas

- Madera Canal
  1) No Action
  2) Restore 100% of Capacity Deficiencies
  3) Restore Capacity Deficiencies in Highest Priority Areas (Milepost 7-18 and 23-32)
Reverse Flow PDR - DRAFT Alternatives

• According to Authorization:
  1) No Action Alternative
  2) 500 cfs at Shafter-Wasco, 500 cfs at Poso Creek, and 300 cfs at Lake Woollomes

• Will look at White River in preliminary planning as potential facility; not a commitment to complete it throughout studies

Economic Benefit Analyses

• National Economic Development (NED)

• Regional (Friant Division)
  – Ability to increase utilization of Part III projects
  – Ability to increase utilization of 16(a) program
  – Ability to increase utilization of 16(b) program
### Interim Flow Scheduling

### Restoration Flow Schedule

1. Estimated Releases
2. Total Annual Allocation
3. Remaining Allocation
4. Default Flow Schedule
5. Channel Capacity Cap
Estimated Releases

- Estimated Releases
  - Gravelly Ford Total
  - Gravelly Ford 5 cfs
  - Gravelly Ford SJRRP

- Information Sources
  - QA/QC Record
  - Operations Estimates
  - Scheduled Flows

April 1st Releases (as of March 15th)

<table>
<thead>
<tr>
<th>Accounting</th>
<th>Acre-Feet</th>
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<tr>
<td>Total Friant Dam Releases</td>
<td>40,175</td>
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<tr>
<td>- Reach 1 Losses</td>
<td>-4,921</td>
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<tr>
<td>Total Gravelly Ford Flows</td>
<td>35,254</td>
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<td>- Other Inflows at Gravelly Ford</td>
<td>-2,676</td>
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<td>SJRRP Gravelly Ford Target</td>
<td>32,579</td>
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<td>- Baseline at Gravelly Ford</td>
<td>-307</td>
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<td>Releases for the SJRRP</td>
<td>32,271</td>
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### Total Annual Allocation

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<td>Exhibit B Friant Dam Releases</td>
<td>406</td>
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<tr>
<td>Reach 1 Losses</td>
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<td>Exhibit B Gravelly Ford Target</td>
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<td>Gravelly Ford Baseline</td>
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<td>Releases for the SJRRP</td>
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### Remaining SJRRP Allocation

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<td>Exhibit B Gravelly Ford Target</td>
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<td>Flow Passing Gravelly Ford</td>
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<td>Remaining SJRRP Gravelly Ford Target</td>
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<td>Baseline Gravelly Ford Flows</td>
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<td>Remaining Releases for the SJRRP</td>
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Default Flow Schedule

- Lookup Table: releases required for the remainder of the restoration year from the allocation date forward using Method 3.1 flow schedules.

- Interpolate to determine the flow schedule for the remaining SJRRP Allocation.

Gravelly Ford Default Flow Schedule
Daily Operations

Daily Operations Spreadsheet

- Objective: pass SJRRP flows downstream.
- Purpose: set valves, gates, and boards.
- Participants: river operating entities.
- Data: stage, flow measurements, tables, and experience.
Friant to San Mateo Avenue

- MIL – Friant Dam
- GRF – Gravelly Ford
- SJB – Chowchilla Bifurcation
- ??? – San Mateo Ave.
  - Staff Gage
  - Manual Measurements
  - Assumed Infiltration

Mendota Pool Accounting

- Pool Inflows
- SLCC Deliveries
- CCID Releases SLCC
- Channel Capacity
- Loss: San Mateo to SDP
- Target below Sack Dam
- CCID SJRRP Releases
- San Luis Credit
Check (Closure) Terms

- Mendota Pool Closure
  - (+) Gaining Pool
  - (-) Losing Pool

- Daily Flow Balance
  - (-) Owe Pool Users
  - (+) Pool Users Owe SJRRP

- Cumulative Flow Balance

Recapture and Recirculation
Recirculation Project Description

- Delivery to Arvin-Edison WSD
- Delivery to contractors served by FKC upstream of CVC via KCWA (Reverse Flow)
- Transfer to CVP South of Delta contractor
- Exchange for CVP South of Delta banked water
- Delivery to Shafter-Wasco ID through Semitropic WSD
- Exchange for Kings River water via Tulare Lake Basin WSD

Part III Guidelines
Part III Guidelines

- Public Review Draft released
- Draft available at: www.restoresjr.net
- Comments due May 28, 2010
- Send comments to: Part3Guidelines@restoresjr.net

Next Meeting
Agenda for Next Meeting

- Date & Time:
  - TBD

- Tentative Agenda:
  - Recovered Water Account
  - Part III Guidelines
  - Interim Flows

Public Comment