AGENDA

WORKSHOP
OF THE
BOARD OF DIRECTORS

WEDNESDAY, JANUARY 3, 2018
10:00 A.M.

INLAND EMPIRE UTILITIES AGENCY*
AGENCY HEADQUARTERS
BOARD ROOM
6075 KIMBALL AVENUE
CHINO, CALIFORNIA 91708

CALL TO ORDER
OF THE INLAND EMPIRE UTILITIES AGENCY BOARD OF DIRECTORS
MEETING/WORKSHOP MEETING

FLAG SALUTE

PUBLIC COMMENT

Members of the public may address the Board on any item that is within the jurisdiction of the Board; however, no action may be taken on any item not appearing on the agenda unless the action is otherwise authorized by Subdivision (b) of Section 54954.2 of the Government Code. Those persons wishing to address the Board on any matter, whether or not it appears on the agenda, are requested to complete and submit to the Board Secretary a “Request to Speak” form which is available on the table in the Board Room. Comments will be limited to three minutes per speaker. Thank you.

ADDITIONS TO THE AGENDA

In accordance with Section 54954.2 of the Government Code (Brown Act), additions to the agenda require two-thirds vote of the legislative body, or, if less than two-thirds of the members are present, a unanimous vote of those members present, that there is a need to take immediate action and that the need for action came to the attention of the local agency subsequent to the agenda being posted.
1. WORKSHOP

A. CHINO BASIN CONJUNCTIVE USE ENVIRONMENTAL WATER STORAGE/EXCHANGE PROGRAM (POWERPOINT)

B. COLLECTION SYSTEMS WORKSHOP (POWERPOINT)

2. ADJOURN

*A Municipal Water District

In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the Board Secretary (909) 993-1736, 48 hours prior to the scheduled meeting so that the Agency can make reasonable arrangements.

Declaration of Posting

I, April Woodruff, Board Secretary of the Inland Empire Utilities Agency*, A Municipal Water District, hereby certify that a copy of this agenda has been posted by 5:30 p.m. at the Agency’s main office, 6075 Kimball Avenue, Building A, Chino, CA on Thursday, December 28, 2017.

April Woodruff
Chino Basin Conjunctive Use Environmental Water Storage/Exchange Program
Workshop Overview

- California Water Commission Presentation
- Public Outreach
- Next Steps
Chino Basin Project Location

Project Partners & Supporters
- Chino Basin Desalter Authority
- Chino Basin Watermaster
- Jurupa Community Services District
- Metropolitan Water District of So. California
- Regional Water Quality Control Board
- Santa Ana Watershed Project Authority
- Southern California Water Committee
- The Nature Conservancy
- Western Municipal Water District
100% Guaranteed and Dedicated Delta Supply

- Provides ecological benefits north & south of Delta
- New source of conjunctively managed water
- Not dependent on climate

Source: http://paleo.com/files/items/pics/245/244245_6f9f3105d416042d446a7711abe1bbf0_large.jpg
New Source of Water, Not Dependent on the Delta

- Reliable new dedicated water supply
- Available on-call anytime, including dry, critically dry and successive dry years
- Flexible delivery of water (i.e., annually or all at once)

Source: http://www.keepcalmmandflyish.com/search?q=featherriver
Borrow Capacity from Existing Surplus Groundwater

- Utilize surplus Chino Basin storage
- Leverage existing infrastructure
- Project benefit as early as 2020
Provide Ecological Benefits to Delta

- Dedications blocks of water for ecological needs
- Lake Oroville discharges benefit the Feather River, fall and spring run Chinook salmon and aquatic habitat

Chino Basin Pre-Project Conditions

State Water Project (SWP) Deliveries to Southern California
- From Lake Oroville
- Across the Delta
- Pumped through the SWP California Aqueduct
- Delivered to partnering SWP contracting agencies

Inland Empire Utilities Agency

15 TAF/year currently available for other uses

IEUA treats 54 TAF/year of recycled water

TAF: Thousand Acre Feet
Chino Basin Post-Project Conditions

Ecosystem Benefits
- Reliable new dedicated water supply
- Available on-call anytime, including dry, critically dry and successive dry years
- Increased Delta outflow
- Borrowing capacity starting 2020

Simple Water Exchange
Chino Basin groundwater in exchange for release of stored water at Lake Oroville

Proposed Project
- Advanced water treatment of recycled water
- Stored as new water in the local basin — flexible, secure and resilient
- Continue supply for Santa Ana River ecosystem
- On-call from DFW, deliver water from storage for Delta ecosystem benefits

Sacramento-San Joaquin Delta
Lake Oroville
Feather River

Inland Empire Utilities Agency
A MUNICIPAL WATER DISTRICT
Chino Basin Project Components

- Advanced water treatment facility
- Wells and treatment system
- Pipelines and interconnection
- Secure supply for Santa Ana River discharges
- Local agencies pay for operations and maintenance costs, while **100% supply is dedicated to Delta**
Chino Basin Project Public Benefits

- **Reliable new water supply** in all types of years
- **Flexible delivery** of water (annually, all at once, etc.)
- **Dedicates blocks of water** for ecological needs
  - Lake Oroville discharges benefit the Feather River, fall and spring run Chinook salmon and aquatic habitat
- **Enhances local water quality** in the Chino Basin
- **Emergency response** supply for Southern California
  - Through agreements with State Water Project Contractor(s)
Chino Basin Project Non-Public Benefits

- Frees up capacity in California Aqueduct, improving flexibility & resilience of State Water Project operations
- Ensures sustainable groundwater management by increasing local groundwater recharge
- Addresses historical Chino Basin land subsidence
- Year-round flows provide ecological benefits for Santa Ana River
Chino Basin Project Timeline & Milestones

- Final Environmental Document: 2020
- Early Project Benefit Borrowing Capacity Available: 2020
- Agreements Executed: 2020
- Permits & Design Complete: Begin Construction 2021
- Facilities Startup: 2025
Chino Basin Project

Create a dedicated environmental water account with 100% of the water available for Delta Benefits while providing regional and local water resiliency benefits.

- Ecosystem Support
- Drought Resilient New Supply
- Groundwater Sustainability
- Water Use Maximization
- Water Quality Enhancement
- Regional Integration

Consistent with California Water Action Plan
Public Outreach

- Diverse Application Support Letters
- Communication Plan
  - Local & Regional Project Partners
  - State Water Project Contractors
  - State Agencies
  - Environmental Community
  - State Legislative Representatives
Next Steps

• Proposition 1 Timeline
  – Application Submission – August 2017
  – Project Presentations to CWC – December 2017
  – Project Ranking & Scoring Released by CWC – May 2018
  – CWC Releases Preliminary Project Funding Plan – June 2018
• Support Letters – Complete by February 2018
• Project Agreements – Initiate mid-2018
WORKSHOP

1B
Collection Systems Workshop
Presentation Overview

- Brine Sewer System
- Regional Sewer System
- Sewer System Management Plan
- Collection System O&M
- Future Topics
Etiwanda Waste Line System Overview

Collection Systems
158 miles

EWL: 6 miles
NRWS: 57 miles
IEBL: 6 miles
Regional 89 miles

EWL: Etiwanda Waste Line
NRWS: Non-Reclaimable Wastewater System
IEBL: Inland Empire Brine Line
Non-Reclaimable Wastewater System Overview

Collection Systems
- 158 miles

EWL: Etiwanda Wastewater Line
NRWS: Non-Reclaimable Wastewater System
IEBL: Inland Empire Brine Line

EWL: 6 miles
NRWS: 57 miles
IEBL: 6 miles
Regional: 89 miles
Benefit of Brine Sewer Systems

- Meets Basin Commitment for:
  - Maximum Benefit for Chino Basin
  - Basin Plan
- Allows continued use of Recycled Water within the Chino Basin
- Promotes economic development and job creation
- Permit Compliance for wastewater treatment plants
  - Agency wide average TDS 500 mg/L (limit: 550 mg/L)
  - Without Brine Lines, Regional System TDS > 995 mg/L
- Salt Export from the Chino Basin
  - 38,350 Tons Annually
  - annual savings of $30M operational desalter cost
Regional Sewer System Overview

Collection Systems
158 miles

EWL 6 miles
NRWS 57 miles
IEBL 6 miles
Regional 89 miles

EWL: Etiwanda Wastewater Line
NRWS: Non-Reclaimable Wastewater System
IEBL: Inland Empire Brine Line
Collection System – Operations and Maintenance

Collection Systems
158 miles
2,478 manholes

EWL
6 miles
58 mh
8-24”

NRWS
57 miles
820 mh
4-42”

IEBL
6 miles
126 mh
6-27”

Regional
89 miles
1,474 mh
6-80”
Sewer System Management Plan (SSMP)

Operation and Maintenance Program

- System Map
- Preventative Maintenance
- Rehabilitation and Replacement
Geographic Information System (GIS)

Legend

Sewer Manholes - Pending Rehab Repair

Defect Category
- Cracks
- Joint Offset
- Lining
- Flooding
- Sag

Sewer Pipeline Summary
1. Excellent (Re-inspect in 5+ years)
2. Good (Re-inspect in 3 to 5 years)
3. Moderate (Re-inspect in 3 years)
4. Poor (Rehab/Repair or Cleaning in 1 to 2 years)
5. Failing (Immediate Rehab/Repair or Cleaning)
Collections System O&M
Rehabilitation and Replacement Projects - Engineering

<table>
<thead>
<tr>
<th>FY 17/18 Collections Projects</th>
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<tbody>
<tr>
<td>Project Title</td>
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<tr>
<td>Budget</td>
</tr>
<tr>
<td>Collection System Upgrades</td>
</tr>
<tr>
<td>$500,000</td>
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<tr>
<td>NRW Pressure Line Assessment</td>
</tr>
<tr>
<td>$75,000</td>
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<tr>
<td>NRW Manhole Upgrades</td>
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<tr>
<td>$200,000</td>
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<tr>
<td>NRW Emergency O&amp;M Projects</td>
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Future Topics 2018

- IEBL Ordinance and Resolution
- Capacity Pool Agreement
- Sewer Fee Evaluation
- NRWS Ordinance
- Data Management Software
- O&M Manual & SSMP Re-certification