CALL TO ORDER
Chairman Godsey called the meeting to order at 6:00 pm.

Commissioners present:
Tualatin Valley Water District (TVWD): Jim Doane
Beaverton: Marc San Soucie
Hillsboro: John Godsey (Chair)
Sherwood: Sean Garland (Vice Chair)
Tigard: John Goodhouse
Wilsonville: Tim Knapp
Kristin Akervall (Alternate)

Committee Members present:
TVWD: Mark Knudson, Management Committee
       Paul Matthews, Finance Committee
       Carrie Pak, Operations Committee
Beaverton: David Donaldson, Management Committee
          David Winship, Operations Committee
Hillsboro: Kevin Hanway, Management Committee
          Lee Lindsey, Finance Committee
          Niki Iverson, Management Committee (Alternate)
Sherwood: Craig Sheldon, Management Committee
Tigard: Brian Rager, Management Committee
        John Goodrich, Operations Committee

Managing Agency Staff present:
Dave Kraska, WIF Commission General Manager
Justin Carlton, Willamette Water Supply Program (WWSP) Finance and Administrative Supervisor
Faye Branton, WIF Commission Recorder

Other Attendees:
Joel Cary, TVWD Water Resources Division Manager
Joelle Bennett, WWSP Assistant Director
Jill Chomycia, WWSP Permitting Coordinator
Mark McConnell, TVWD Facilities Department
1. **GENERAL MANAGER’S REPORT**

Mr. Kraska presented the General Manager’s report, including Safety Moment on what to do after an auto accident, followed by an update regarding coordination with Kinder Morgan and an update regarding the 2019 property and liability insurance renewal for the Willamette Intake Facilities.

2. **PUBLIC COMMENT**

There were no public comments.

3. **CONSENT AGENDA**

   A. Approve the October 29, 2018 meeting minutes.

   Motion was made by Doane, seconded by Garland, to approve the Consent Agenda as presented.

   The motion passed unanimously with Doane, Garland, Godsey, Goodhouse, Knapp, and San Soucie voting in favor.

4. **BUSINESS AGENDA**

   A. Election of Officers

   Motion was made by Knapp, seconded by Doane, to retain the current Chair (John Godsey) and Vice Chair (Sean Garland) for the 2019 calendar year.

   The motion passed unanimously with Doane, Garland, Godsey, Goodhouse, Knapp, and San Soucie voting in favor.

5. **INFORMATION ITEMS**

   A. Semi-annual Update on the WIF-related Elements of the WWSP Raw Water Facilities Project

   Mr. Kraska presented a semi-annual update on the WIF-related elements of the Willamette Water Supply Program (WWSP) Raw Water Facilities project (RWF_1.0). The WIF-related elements are seismic mitigation for the caisson and pump building, new fish screens, and air burst system improvements. The update included construction cost estimate, preliminary bank stabilization design, and status of the overall project schedule. (See attached presentation.)

   In answer to Commissioner’s question, staff replied that the analysis of the recently acquired geotechnical data has helped reduce the size and scope of some of the seismic improvements, which will reduce costs and environmental impact.

   In answer to Commissioner’s questions, staff explained the process and parameters used in determining the final design concept for the tieback retaining wall. Staff offered insight into the broad team of experts who are vetting all design theories and information to ensure confidence in the results.
Commissioner Knapp stated that this type of discussion is helpful for this audience and expressed the importance that this Board understands the information outlined, as they are ultimately responsible for signing off on the systems they believe are adequate.

B. FY 2019 – 20 Annual Work Plan and Budget Preparation

Mr. Kraska provided an update regarding development of the Annual Work Plan (AWP), including the development schedule and modifications from the current AWP. (See attached presentation.)

In answer to Commissioner’s question, Ms. Iverson provided information regarding staff involvement with the League of Oregon Cities, the Oregon Water Utilities Council, and Special Districts Association in working on legislation and budget regarding cyanotoxin monitoring. Ms. Iverson indicated that several staff members plan to attend the February 22 meeting in Wilsonville with Oregon’s congressional representatives regarding the Willamette BiOp.

Commissioner Knapp suggested that one objective of the Annual Work Plan should be to monitor and stay current on legislative changes, both at the federal and state level, and to bring before the Board anything of significance that will affect the project.

In answer to Commissioners’ questions, staff clarified that much of this activity is being handled in a different channel. The WRWC has been supporting this effort, as have a number of other entities throughout the Willamette basin. Staff will provide to this Board a summary of this work and how it is being funded. Staff further clarified that there is more work to be done and vetted with the WIF Operations Committee before bringing a proposal to this Board regarding what, if any, monitoring needs to be done.

C. Permitting Update

Ms. Iverson, serving as Permitting and Outreach Manager for the WWSP, presented an update on the federal permit issued by the US Army Corps of Engineers and associated approvals and permits obtained from other entities. These approvals and permits will govern construction of the Willamette Water Supply System and its operation once complete. (See attached presentation.)

Commissioners thanked staff for the fine work and diligent effort put forth in obtaining these permits.

D. The next Board meeting is scheduled on April 29, 2019, at Tualatin Valley Water District – Board Room.

6. COMMUNICATIONS AND NON-AGENDA ITEMS

A. None scheduled.

ADJOURNMENT

There being no further questions or business, Chairman Godsey adjourned the meeting at 6:53 p.m.

_______________________________   ______________________________
John Godsey, Chair                  Sean Garland, Vice Chair

Willamette Intake Facilities Commission
Board Meeting Minutes – January 28, 2019 | Page 3 of 3
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Semi-annual Update on the WIF-related Elements of the Raw Water Facilities Project

Willamette Intake Facilities Meeting

January 28, 2019

Outline

• Construction Cost

• Bank Stabilization Design

• Overall Project Schedule Status
WIF-Related Elements of the WWSP’s RWF_1.0 Project

Construction Cost Estimate Update

<table>
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<tr>
<th>Project Component</th>
<th>Estimated Cost (Million $)</th>
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<tbody>
<tr>
<td></td>
<td>TOTAL</td>
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<tr>
<td>Intake Screen Replacement</td>
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<td>76” Intake Pipeline Modifications</td>
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<td>Civil Improvements</td>
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- Kiewit 50 Percent Estimate
  - $81M, includes $13M contingency
  - Class 3 estimate: +30% to -20%
- Kiewit estimate is being vetted by the team
  - January 23 meeting with Kiewit to arrive at consensus estimate
- Impact to WIF-related costs to be determined afterward
### Preliminary Bank Stabilization Design

**Plan View**
- Pipeline Jet Block
- Caisson Jet Grout Block
- WIF Elements
- WWSP Elements

**Section View**
- Tieback Retaining Wall
- Caisson Jet Grout Block
- Jet Grout Block
- Debris Fence

### Debris Fence Concept

**Plan View**
- Debris Fence
- New Intake Screens

**Section View**
- New Intake Screens
- Debris Fence

Top of Protection Pile EI 43.0 (Approx 7'-0" high)
Top of 78" Screens EI 43.25

Delivering the Best Water  Service  Value
RWF_1.0 Project Schedule

- Design Phase:
  - In progress
  - Land Use application
    - April 2019
    - Ends Q4 2019
- Construction Phase 1
  - Starts Q2 2020
  - Ends Q1 2022
- Construction Phase 2
  - Starts Q3 2022
  - Ends Q4 2024

QUESTIONS?
Willamette Intake Facilities
Annual Work Plan and Budget Preparation

January 28, 2019

Outline

• Schedule
• Modifications from the current AWP
  – General Administration
  – Finance Administration
Annual Work Plan and Budget Preparation

December 2018
TVWD Staff
• Prepare Draft Annual Work Plan and Budget

Finance & Ops Committees
• Review and Consolidate Comments

Management Committee
• Review and Comment

April 2019
Managing Agency (TVWD)
• Deliver to Board for Consideration and Approval

Annual Work Plan and Budget Preparation

WIF IGA Exhibit 8 Budget Calendar

<table>
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<tr>
<th>Budget Deliverable</th>
<th>Annual Submission Date</th>
<th>Party Receiving Budget</th>
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<tr>
<td>Preliminary capital improvement project list</td>
<td>December 15</td>
<td>Operations Committee</td>
</tr>
<tr>
<td>Preliminary budget</td>
<td>January 5</td>
<td>Operations and Finance Committees</td>
</tr>
<tr>
<td>Draft budget</td>
<td>February 15</td>
<td>Management Committee</td>
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<tr>
<td>Proposed budget</td>
<td>March 31</td>
<td>Board</td>
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FY 2019 – 20 Annual Work Plan

• Task List:
  – General Administration
  – Capital Projects Management
  – Annual Work Plan and Budget Development
  – Finance Administration
    – Operations Committee Administration
    – Management Committee Administration
    – Administer WIF Board of Commissioners Meetings

FY 2019 – 20 WIF General Administration
Changes from the current year AWP

• Administration of Infrastructure Operations and Maintenance
  – Develop initial outlines and drafts of the three plans
    • Draft Operations Plan
    • Draft Curtailment Plan
    • Outline Emergency Operations Plan

• Willamette River Basin Activities Monitoring
  – Cyanotoxins Monitoring?
    • to be discussed and considered by the WIF committees
FY 2019 – 20 Finance Administration
Changes from the current year AWP

- Develop Financial Procedures
  - This task will be continued into the next fiscal year
Schedule for Completing the FY 20 AWP and Budget

- January 4, 2019 – first draft emailed to Operations and Finance Committees
- January 30, 2019 – Operations and Finance committees meeting to review and edit the draft
- February 15, 2019 – MA deliver revised FY 20 AWP and budget to Management Committee for consideration
- March 31, 2019 – MA delivers final recommended FY 20 AWP and Budget to WIF Board
Status of Federal Permitting Process

• On December 6, 2018, US Army Corps of Engineers issued a permit pursuant to Rivers and Harbors Act, Section 10; Clean Water Act Section 404.

• Associated approvals and permits from other entities include National Marine Fisheries Service, OR Dept of Env. Quality, OR SHPO

• Each approval/permit includes conditions that will govern WWSS construction and operation once complete.
Permitting Strategy

- Developed a permitting strategy in 2015
- Communicate early and often with the regulatory agencies
- No surprises approach

- Overall Goal and Objective – avoid water withdrawal conditions
- Propose mitigation or similar project benefits to avoid withdrawal conditions

Lessons Learned From Other Water Supply Projects

- Lake Oswego-Tigard Water Supply Project BiOp
  - Restrictions in addition to OWRD proportional reductions when flows below ODFW fish minimums
  - Withdrawals between August 21 and September 30 based on a proportional reduction calculated using the lowest maximum daily mean flow of 10% percentile flows of the 10 year hydrograph as measured at the Oregon City gage.

- Medford Water Commission Intake Construction BiOp
  - Withdrawals restricted when the daily mean temperature exceeds 70°F (measured as a 3-day moving average using the prior 3 days)
  - Only withdraw a volume of water less than or equal to an amount released above the point of diversion from a winter water storage facility (bucket for bucket)
Federal Permit Condition Highlights

- Most conditions minimize impacts, restore conditions after construction, or provide reports back to the agencies.
- USACE permit conditions require WWSP to purchase wetland mitigation credits.
- OR DEQ Water Quality Certification requires developing and implementing a plan to offset temperature impacts.

Water Temperature Modeling

- In early 2018, DEQ requested modeling effects of water withdrawals on river temperature.
- The maximum modeled temp. increase was 0.078°C, and occurred on September 12, 2001, approx. 0.6 miles above Willamette Falls.
Molalla State Park – Shading Project

Next Steps

• Submitted Draft Thermal Trading Plan to DEQ for review
• Incorporate DEQ comments and revisions
• Finalize scope of Molalla Shading Project based on approved DEQ plan
• Finalize agreement with Molalla Water Watch (watershed council) and Molalla State Parks to implement project
• Complete tree planting prior to 2026 to ensure shade benefit before maximum withdrawal is reached
QUESTIONS?