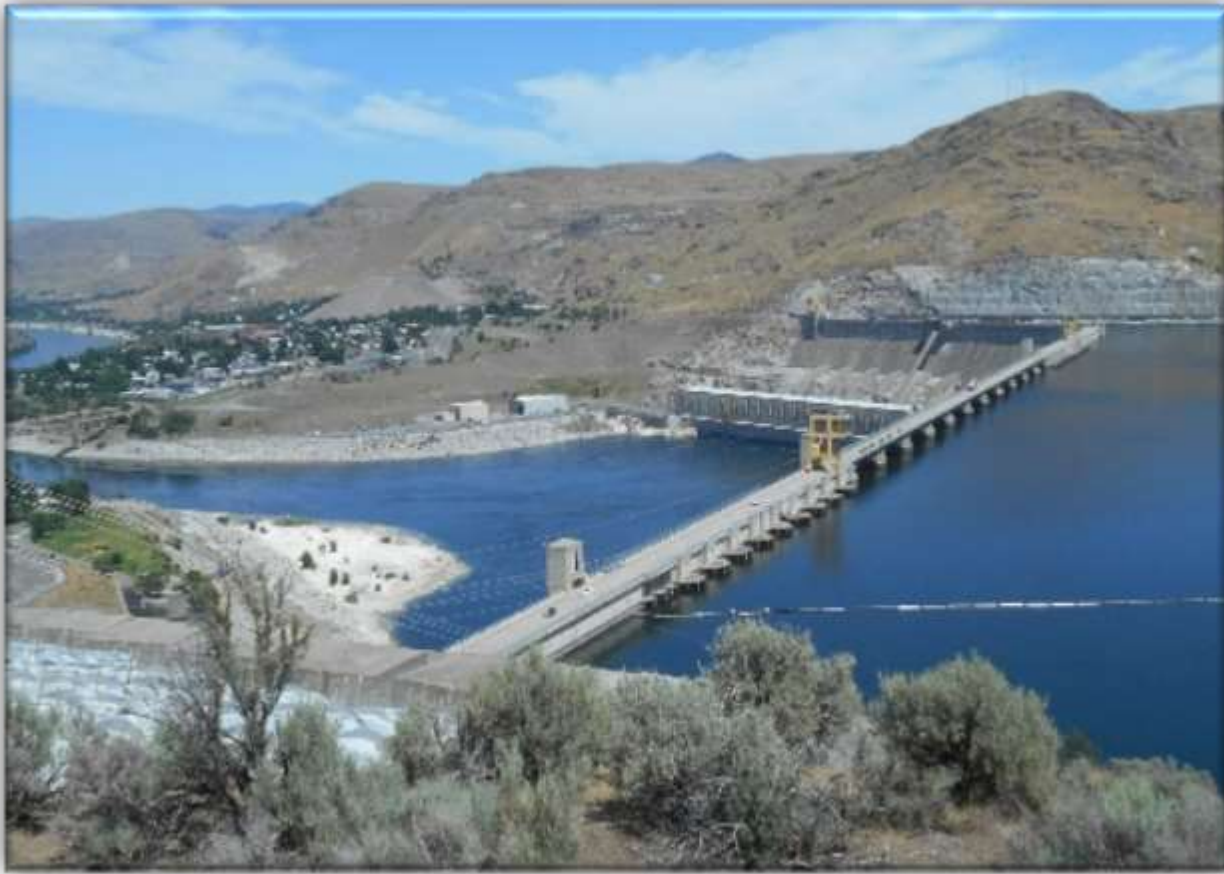

Odessa Groundwater Replacement Program

CONSTRUCTION AND FUNDING

Jed Crowther, Development Coordinator
East Columbia Basin Irrigation District





CONNECTING VALUE

Odessa Groundwater Replacement Program
OGWRP Construction and Funding



WATER WISDOM



“You never know
the value of water
until the well is dry.”

Thomas Fuller, 1732.



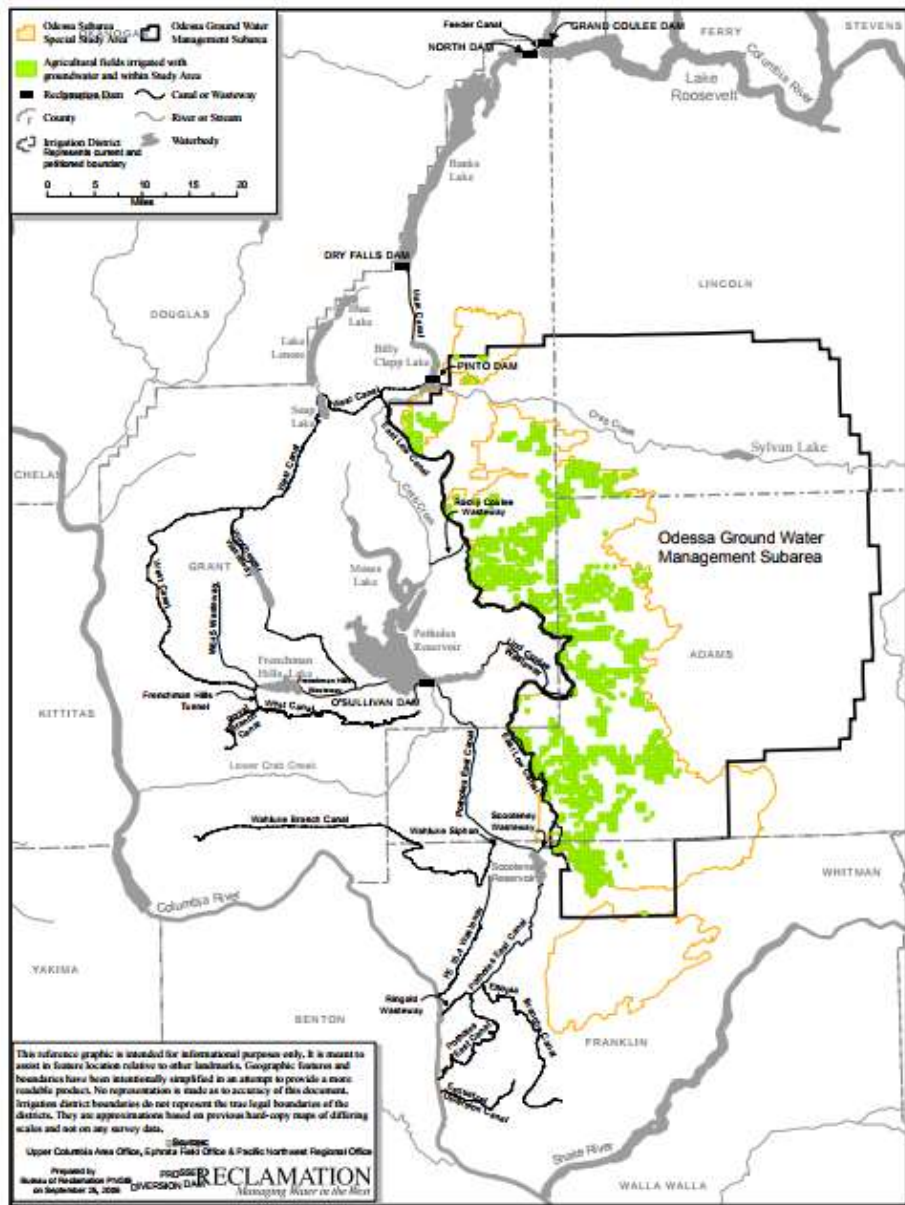


WATER → **FARMS** → **FOOD**

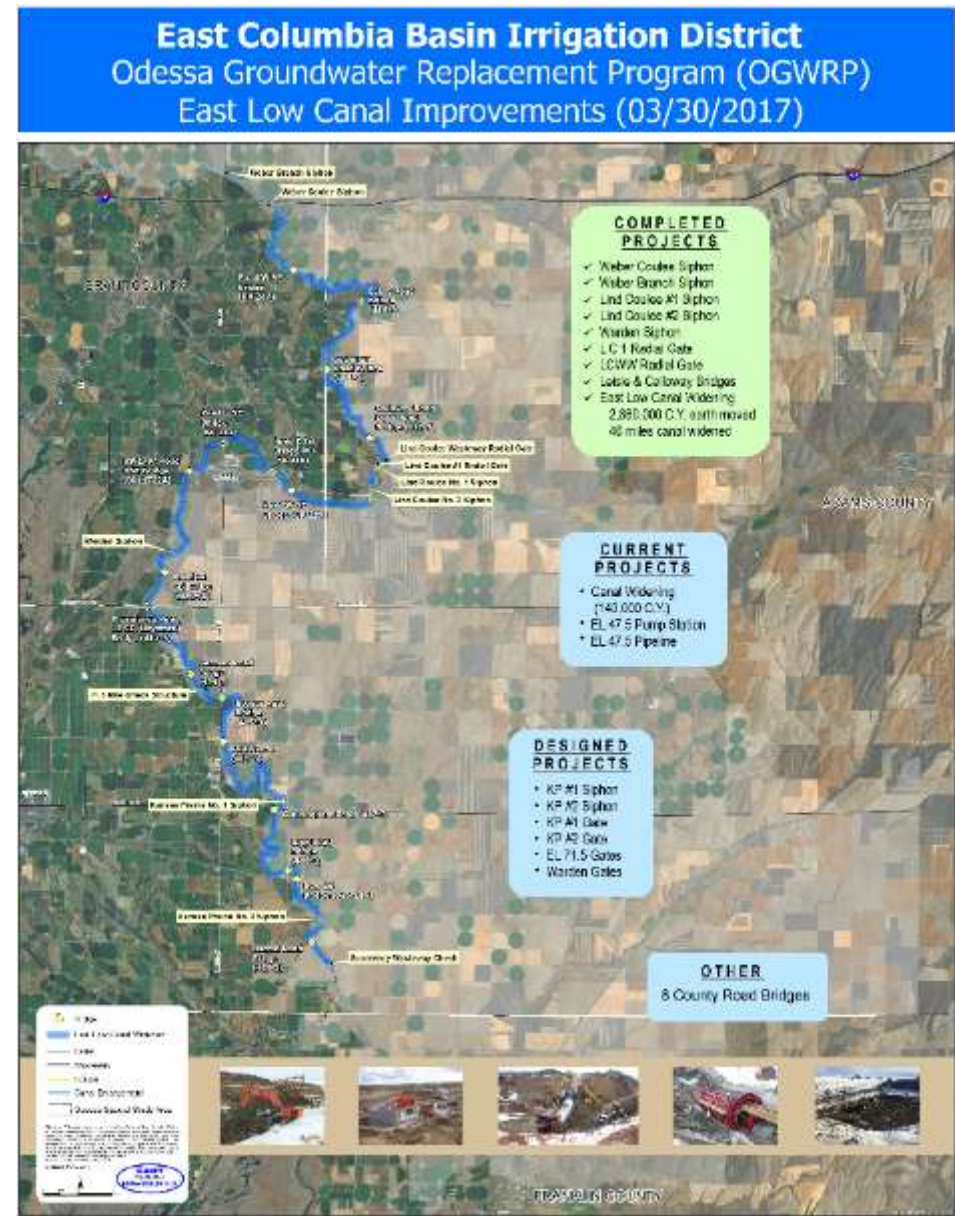


RESULTS





PLAN AND ACTION



Odessa Groundwater Replacement Program

OGWRP BACKGROUND

- 1. PURPOSE**
- 2. INTENT**
- 3. IMPLEMENTATION**





WEBER COULEE & WEBER BRANCH SIPHONS

Odessa Groundwater Replacement Program





EAST LOW CANAL WIDENING

Odessa Groundwater Replacement Program





EAST LOW CANAL WIDENING

Rock Sections

Odessa Groundwater Replacement Program





LIND COULEE 1 & 2 SIPHONS

Odessa Groundwater Replacement Program





LEISLE & CALLOWAY BRIDGES

Odessa Groundwater Replacement Program



Odessa Groundwater Replacement Program

OGWRP PROGRESS 2016-17

- 1. CANAL WIDENING**
- 2. WARDEN SIPHON**
- 3. EL 47.5 PUMP STATION**

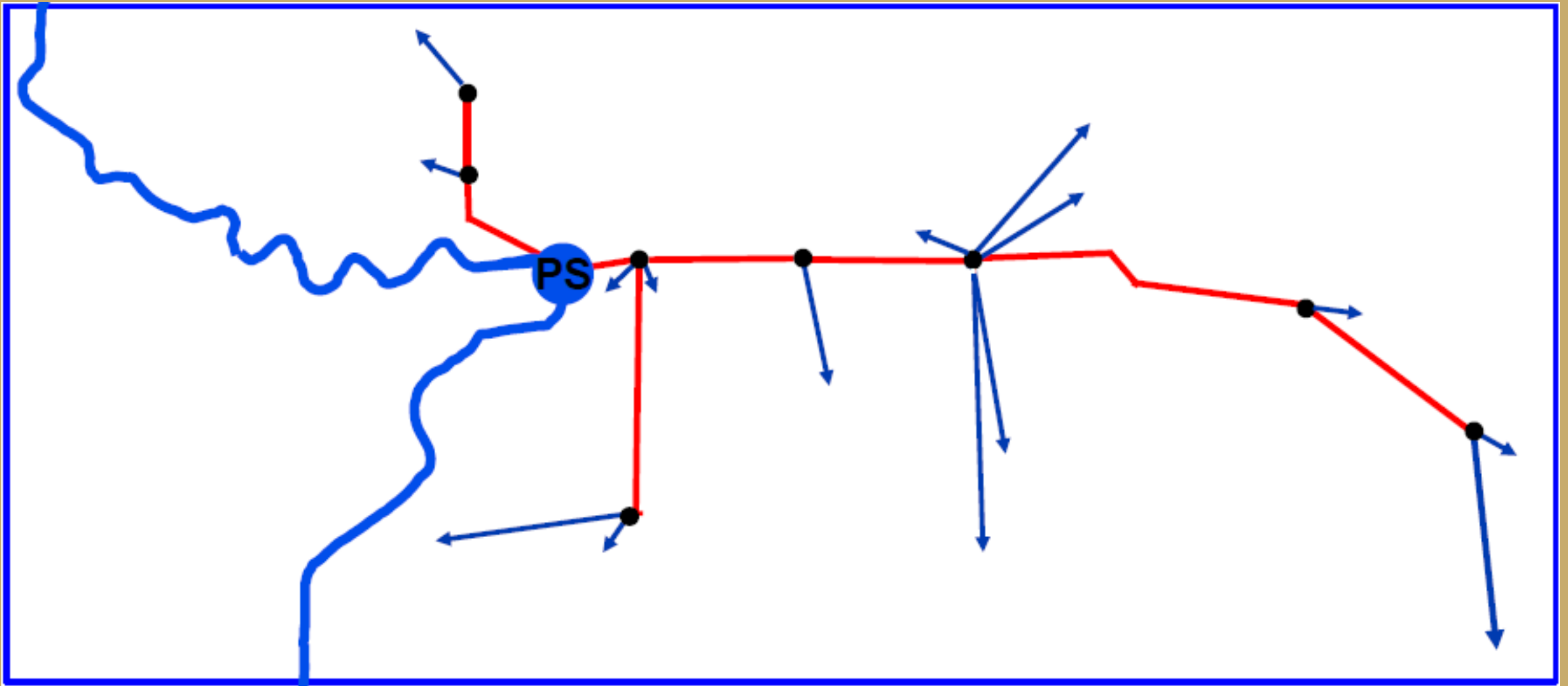




WARDEN SIPHON

Odessa Groundwater Replacement Program





CANAL CONVEYANCE + LATERAL DELIVERY SYSTEMS

Odessa Groundwater Replacement Program





Odessa Groundwater Replacement Program

CONSTRUCTION FUNDING PATTERN

PROGRESS

MOMENTUM

CHALLENGE

ADVOCACY

SUPPORT

Office of Columbia River
Department of Ecology

\$28,178,881 Grant

- Canal Widening / O & M Road
- Lind Coulee 1 & 2 Siphons
- LC & LCWW Gates
- Leisle / Calloway Bridges
- Warden Siphon
- EL47.5 Pump Station Design
- Other Upgrades

COMMITMENT

East District

Capital Investment

\$16,860,000 Bonds

- for EL47.5 Pump Station/Pipeline
- & East Low Canal Improvements

WA State Legislature

\$15,000,000

2017 Budget Proposal

CAPITAL FINANCE NEEDS

**Designed Projects
Awaiting Funding**

- KP 1 & 2 Siphons
- KP 1 & 2 Gates
- EL71.5 Gate
- Warden Gate

\$16.5 Million

**Delivery Systems
Current & Developing**

- EL 47.5, EL 11.8
- Future Construction
- EL 22.1, EL 40.2, EL 54.0
- EL 73.3, EL 79.2, EL 86.4
- ELC Improvements and
- Other Water Systems

**Total
Estimated
Project Costs**

\$198M

**For ELC &
Delivery Systems**
By ECBID, 2016





FUTURE CONSTRUCTION

KANSAS PRAIRIE 1 & 2 SIPHONS

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Excavation

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Foundation

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Intake Walls

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Site Work

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Canal Dike



EL 47.5 Intake Structure

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Backfill and Compaction

Odessa Groundwater Replacement Program





EL 47.5 PUMP STATION Floor Forming & Hydraulic Model

Odessa Groundwater Replacement Program





EL 47.5 Floor Prep

Odessa Groundwater Replacement Program





Odessa Groundwater Replacement Program



Conclusion

Any questions?

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