

# Lincoln County Passive Rehydration Project: Prefeasibility Assessment

Presented to Columbia River PAG

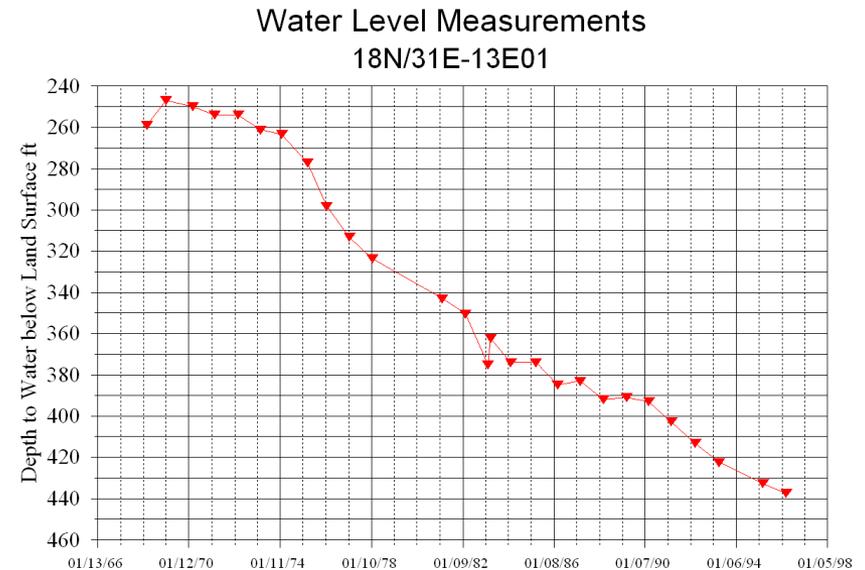
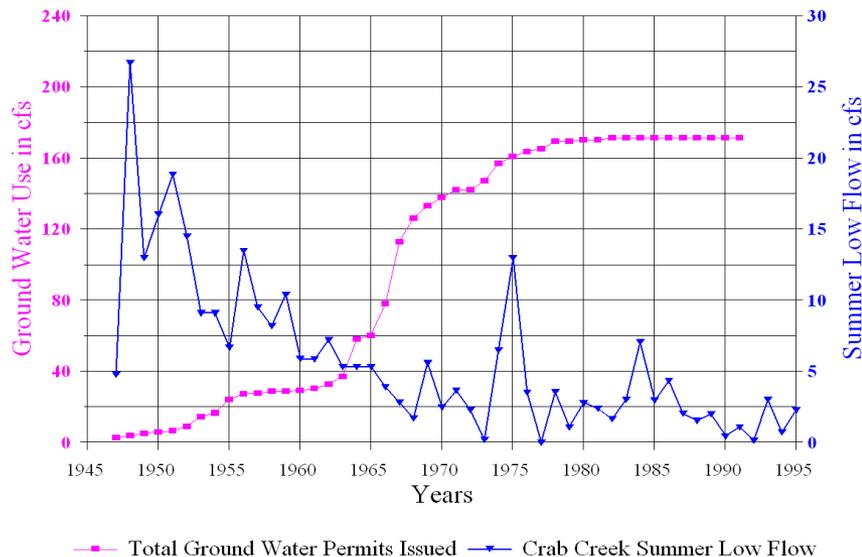
May 25, 2011

# HISTORY

- Ecology Grant #G1000097 to fund a passive rehydration prefeasibility and feasibility assessment
- Grant Amount: \$925,000
- Funds Authorized for Prefeasibility: \$350,000
- Grant Effective: 8/1/2009-6/30/2011
- Prefeasibility completed

# THE PROBLEM: ODESSA SUBAREA

- Reduced Stream Flow
- Lakes Drying Up
- Aquifer Declines



# Lincoln County Passive Rehydration Project

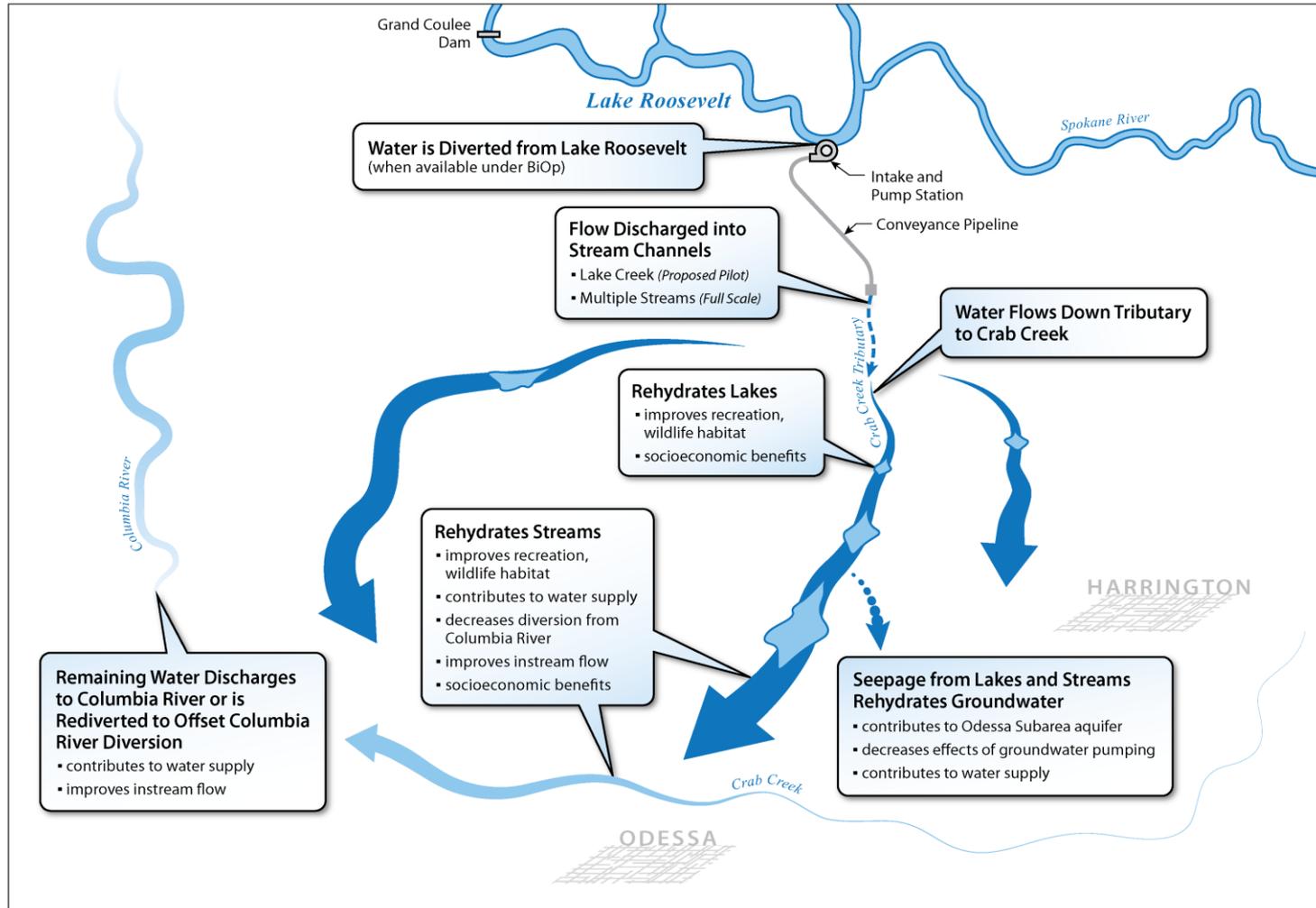
- Delivering water from Lake Roosevelt:
  - Mitigate declining groundwater in eastern Odessa Region
  - Replenish diminished surface water in upper Crab Creek drainage
- A key part of the solutions to Odessa Subarea water supply



# Prefeasibility Assessment Objectives

- Can RCW 90.90 be met?
- Are there viable water rights options?
- Are there possible routes?
- Propose feasibility phase

# Results of Prefeasibility Study



Lincoln County Passive Rehydration Project  
Conceptual Schematic Diagram

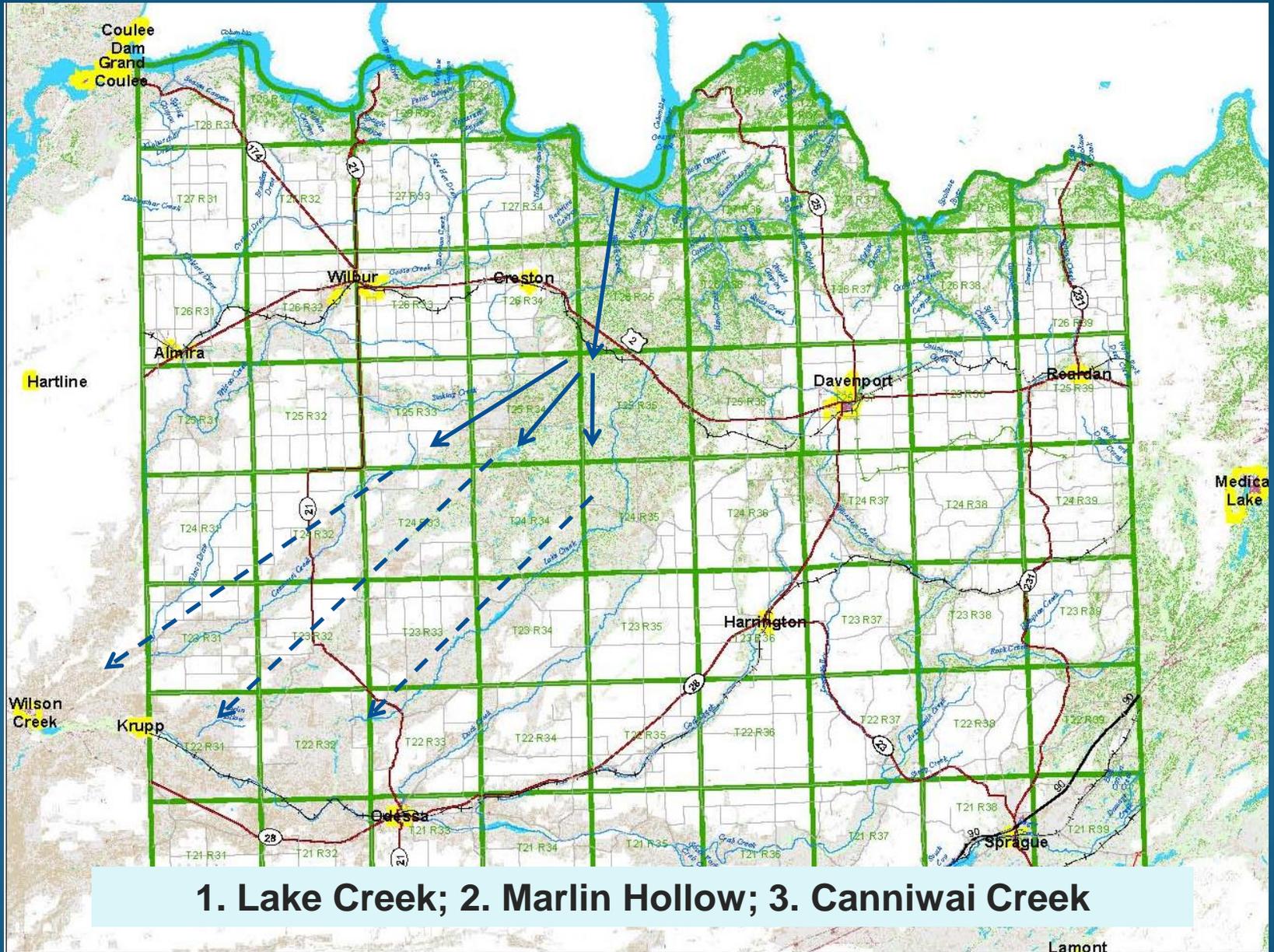
# Findings: Goals of RCW 90.90

- Enhance stream flow
- Deliver Water to Odessa Groundwater Management Subarea

# Findings: Water Availability

- Lake Roosevelt water potentially available - autumn/winter/spring
- Two phases of water rights will be required:
  - Those associated with the Pilot Project – Temporary Permit under a Water Right Application
  - Those associated with a long range project – Permanent Water Right, Transfers, Purchases

# Findings: Several Routes



1. Lake Creek; 2. Marlin Hollow; 3. Canniwai Creek

# Benefits

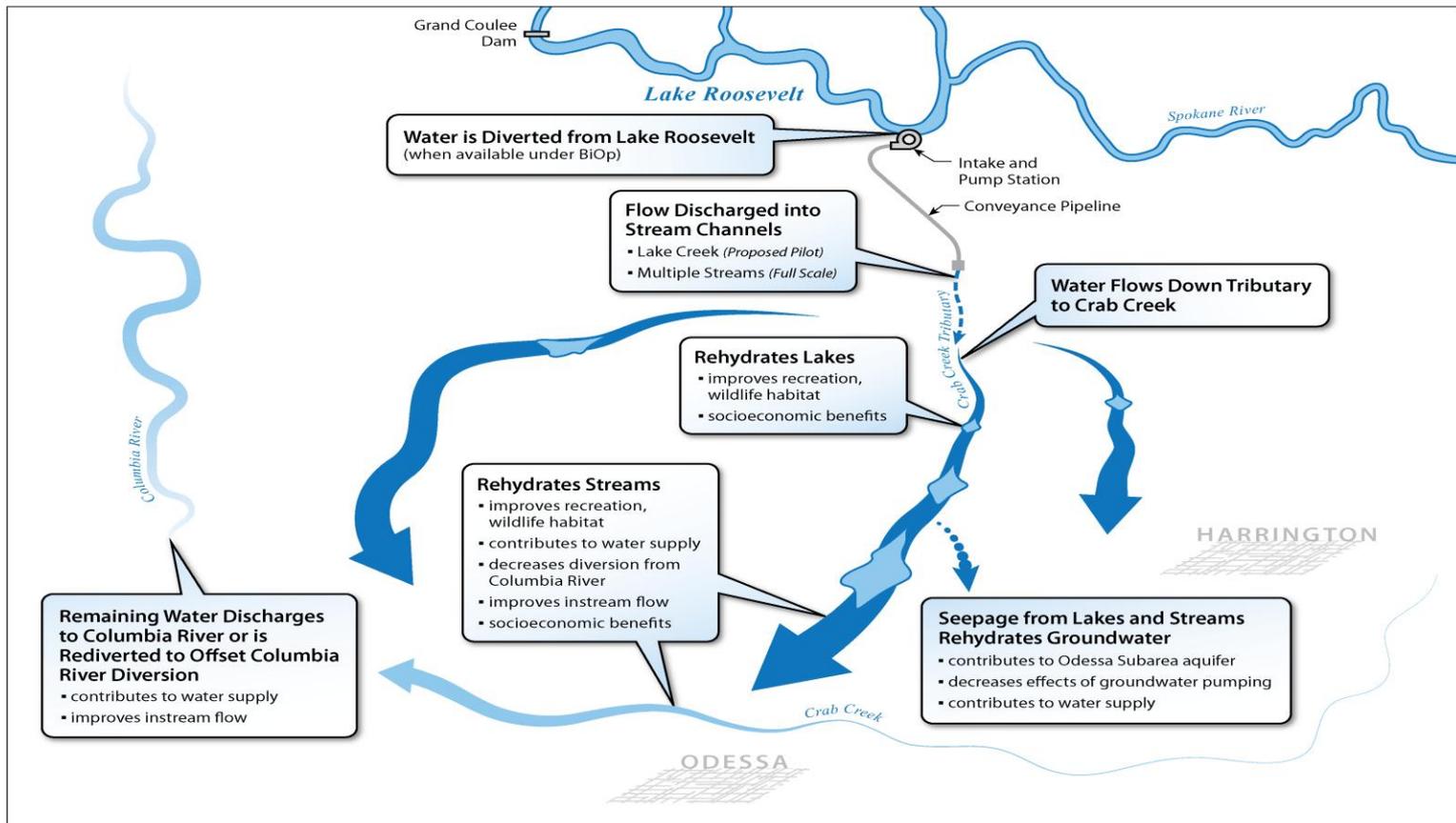
- Irrigators in the Odessa Area
- Municipalities
- Domestic Groundwater Users
- Instream Flows
- Habitat
- Recreational Users
- Economy of Eastern Washington



# Next Step: Feasibility Phase

- Design 10-20 cfs pilot, test concept
- Prepare monitoring/ops plans
- Determine governance/ownership
- Start water rights application, permitting (SEPA, NEPA), and securing route

# QUESTIONS?



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