

Paso Robles Groundwater Basin Water Banking Feasibility Study

Courtney Howard, P.E., Water Resources Engineer
Public Works Department of the San Luis Obispo County
Flood Control and Water Conservation District

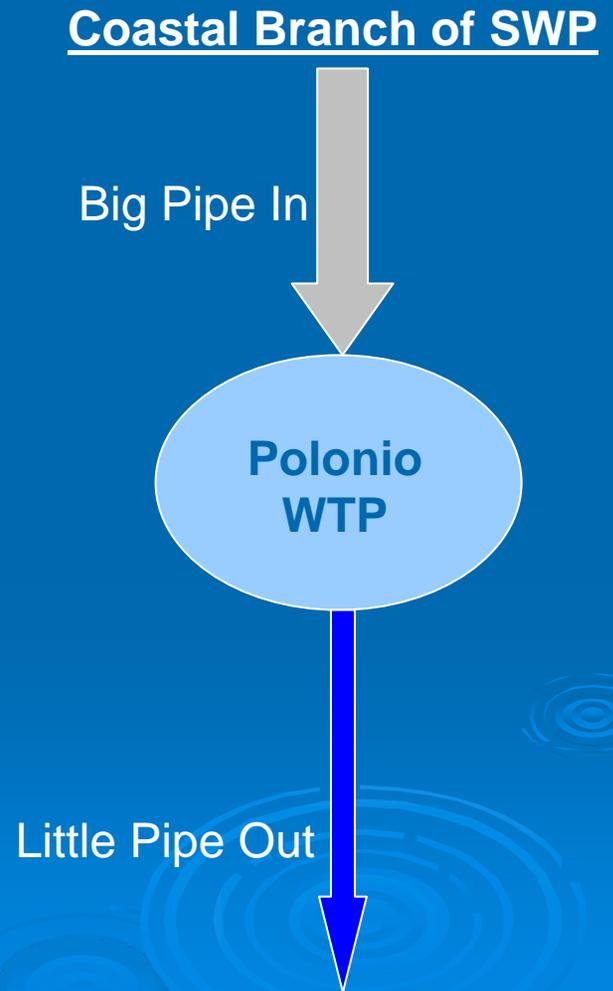


Presentation Overview

- Background on State Water and the Paso Robles Groundwater Basin
 - Concept of Water Banking in a Groundwater Basin
 - Feasibility Study
 - CAB Participation
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Excess State Water Allocation

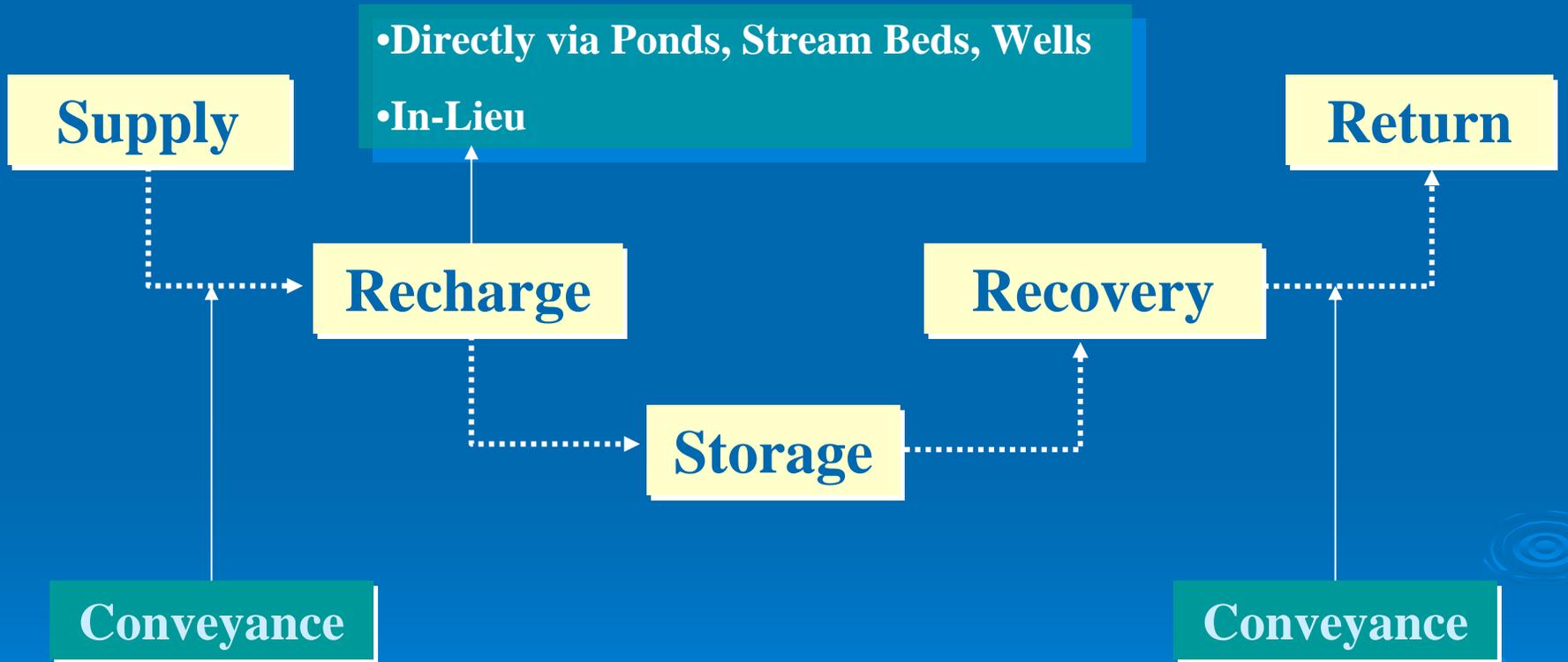
- Using 4,830 AFY of 25,000 AFY Allocation
- Contracts with State expire in year 2035
- District needs to show “beneficial use” of the supply in order to maintain ownership
- Groundwater Banking is an option
- Financial opportunity through IRWM Grant



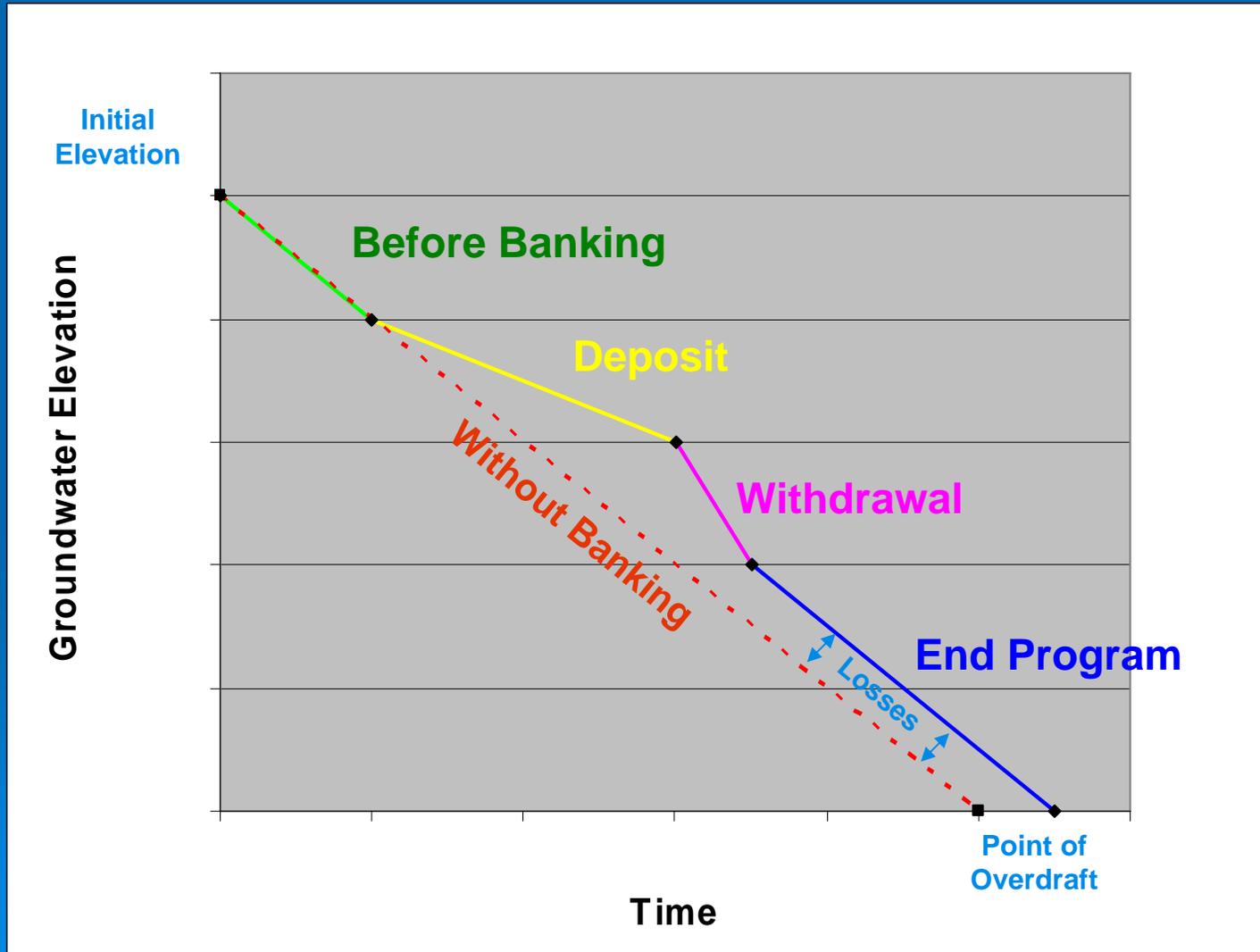
Paso Robles Groundwater Basin

- Basin Study
 - Basin Model
 - Basin Agreement
 - Resource Management System
 - Updates to Groundwater Level Change Maps
 - Water Banking Feasibility
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Water Banking

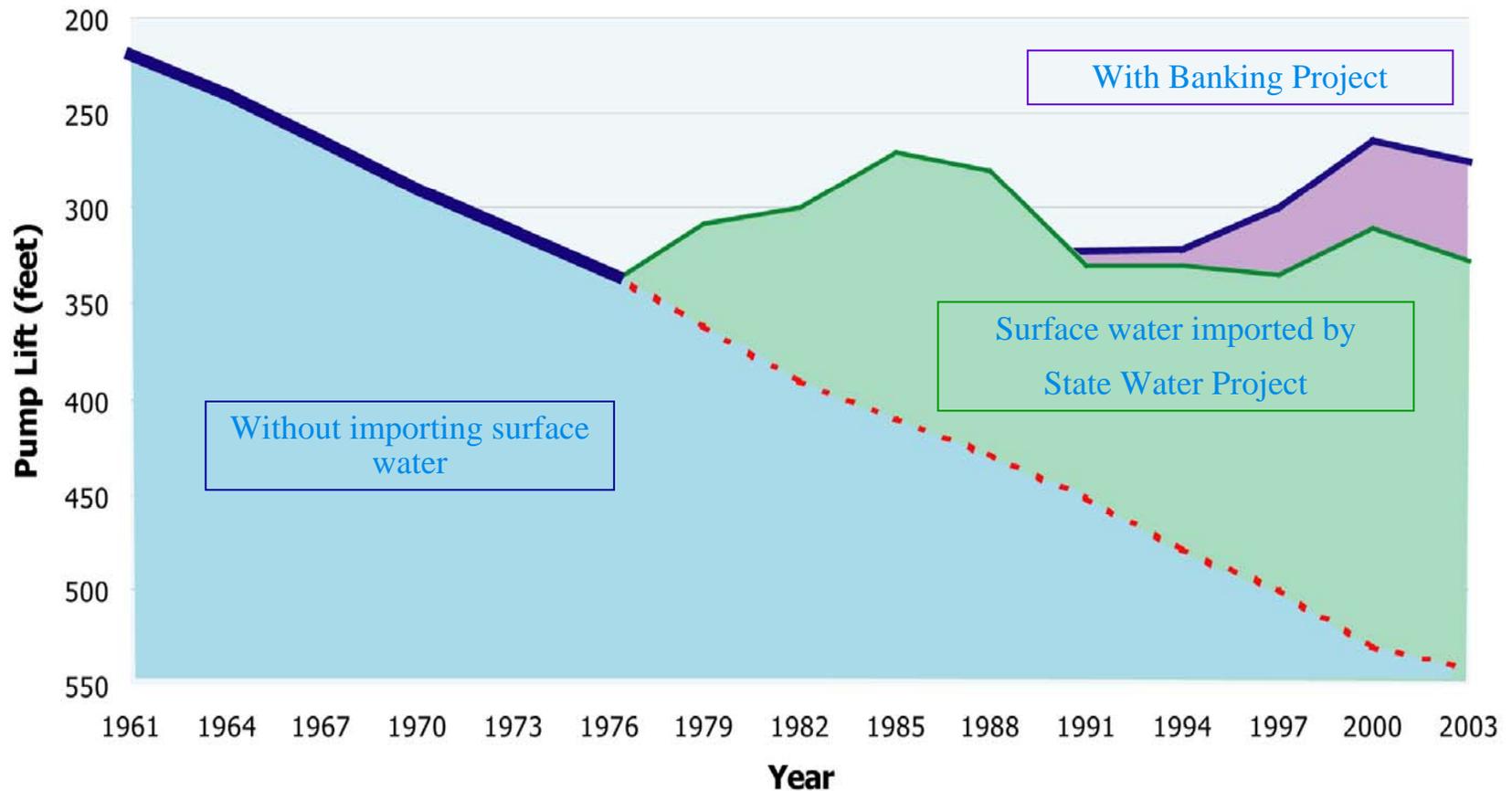


Effect of Banking on Declining Groundwater Levels



Semitropic Water Storage District

Pump Lift History



Feasibility Study Goal

The goal of this project is to determine the feasibility of groundwater banking alternatives in the Paso Robles Groundwater Basin. This will be determined based on:

- Ability to utilize unallocated SWP supply
- Ability to store and recover water
- Ability to deliver banked water to end user

Project Approach

- Step 1 - Evaluate Technical Feasibility
 - Hydrogeologic Feasibility
 - Engineering Feasibility
- Step 2 - Identify Other Considerations
 - Environmental Considerations
 - Institutional/Regulatory Considerations
 - Project Partners and Funding Opportunities

Preliminary Engineering Technical Memorandum (PETM)

- Project Goals and Approach
- Water Banking Components
 - Engineering Considerations
 - Hydrogeologic Considerations
 - Other Considerations
- Evaluation Criteria
 - Engineering Criteria
 - Hydrogeologic Criteria

Engineering Feasibility Evaluation

➤ Completed Activities

- Evaluate water banking supply availability
- Develop recharge and recovery operations patterns
- Estimate range of project pipeline costs

➤ Next Step

- Size and cost facilities and O&M for water banking alternatives

Hydrogeologic Feasibility

- Geologic/Hydrogeologic Setting
- Near Surface Conditions
- Available Groundwater Storage Capacity
- Ability to Recharge the Aquifer System
- Ability to Recover Banked Water
- Interaction with Surface Water
- Water Quality Considerations

Hydrogeologic Feasibility Evaluation

➤ Completed Activities

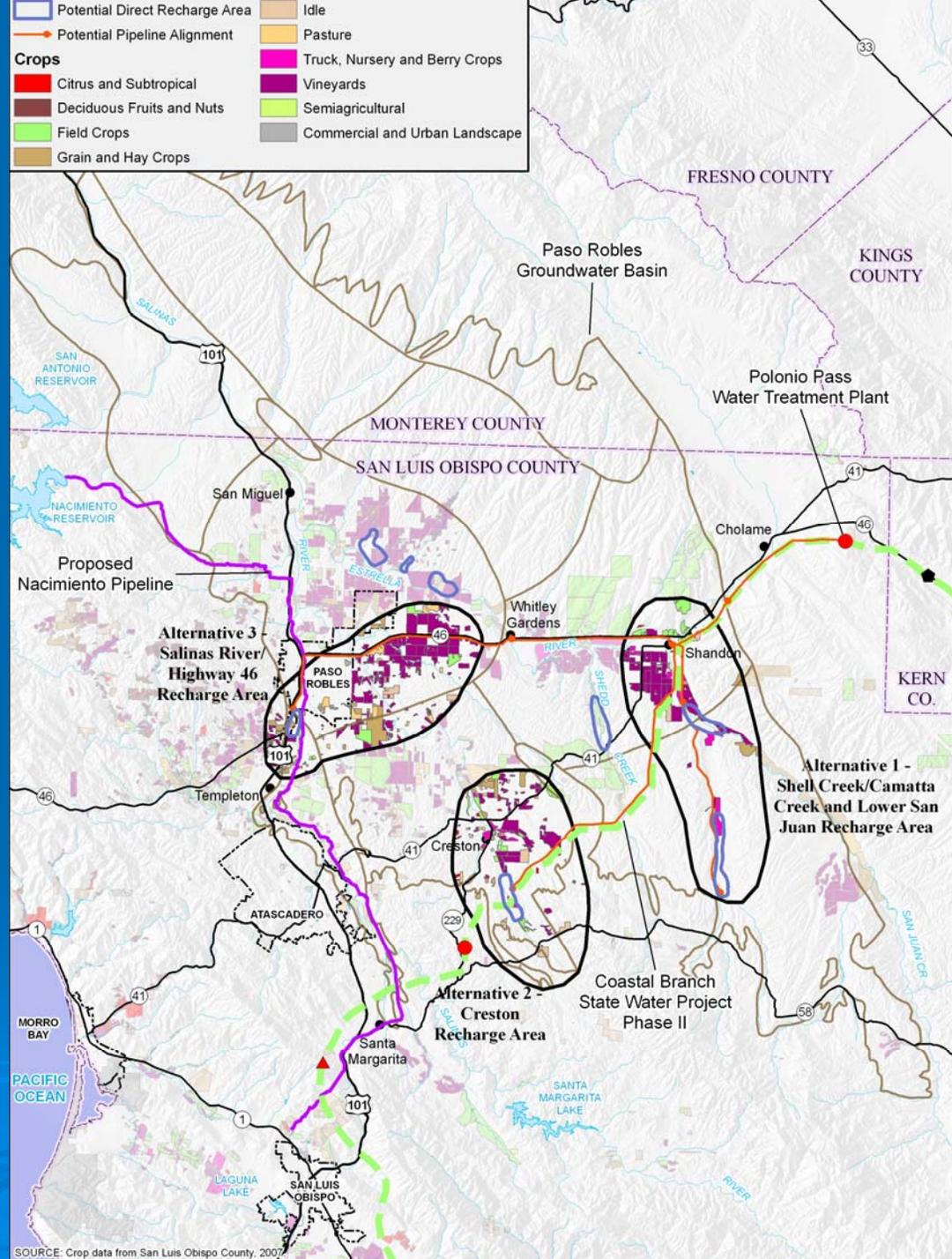
- Review available hydrogeologic information
- Identify potential recharge opportunities (by Subarea)
- Conduct field visit to identify potential direct recharge areas

➤ Next Step

- Evaluate water banking alternatives in existing groundwater model for the described recharge and recovery operations

Water Banking Alternatives

- Alt 1 – Shell/Camatta Creek and Lower San Juan Creek Recharge Area
- Alt 2 – Creston Recharge Area
- Alt 3 – Salinas River/Hwy 46 Recharge Area



Involvement

- Groundwater Banking Subcommittee
 - September 6, 2007 Templeton CSD Office
 - WRAC Meetings – 1st Wednesday in SLO
 - Draft Final Report Presentations
- www.slocountywater.org
- Next Steps
 - Modeling Results
 - Progress, Draft Final, and Final Reports
- Grant Agreement Deadline

Thank You!

www.SLOCountyWater.org

Integrated Regional Water Management

Contact: Courtney Howard, 781-1016

