

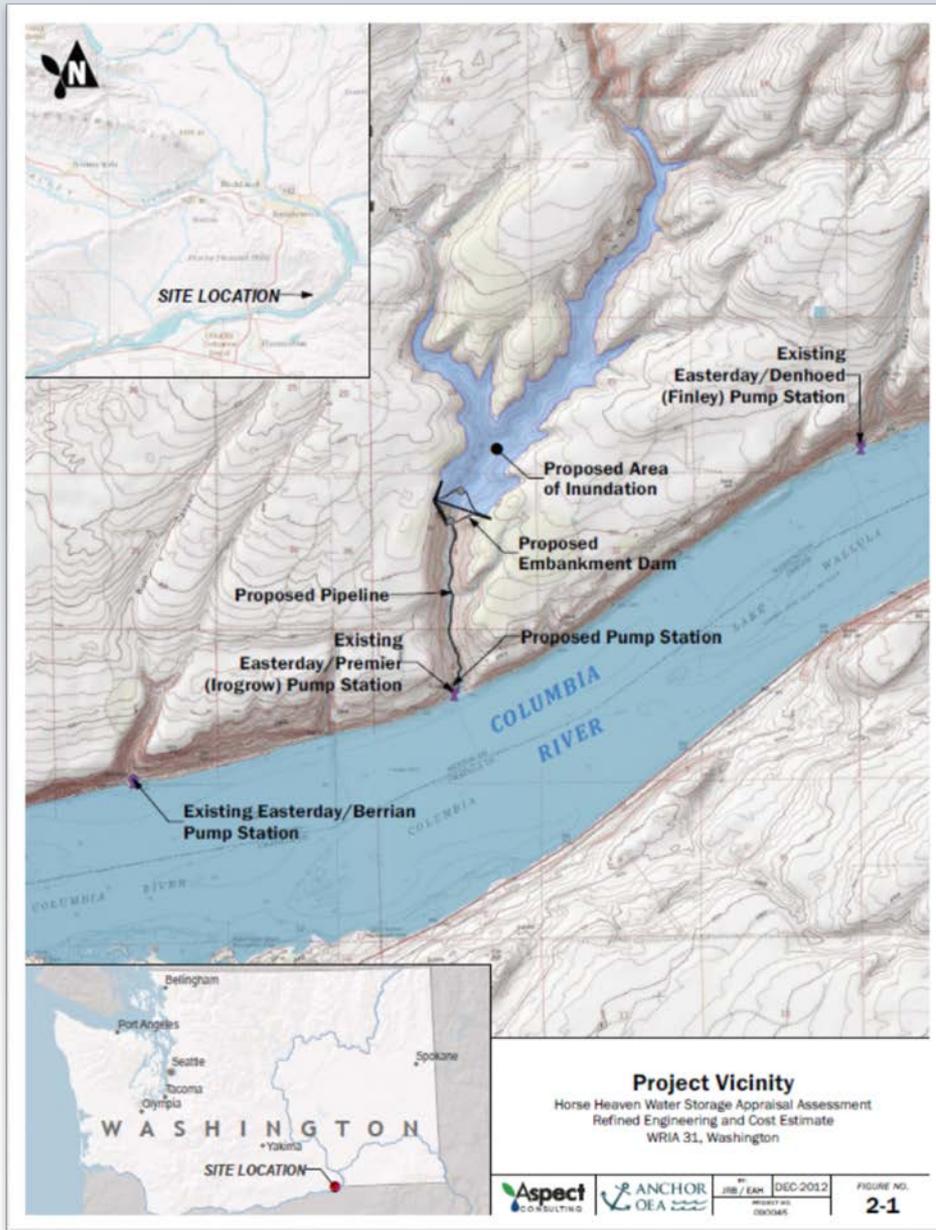
Switzler Reservoir Water Storage Project

September 6, 2018

Presented by

David McClure, Director

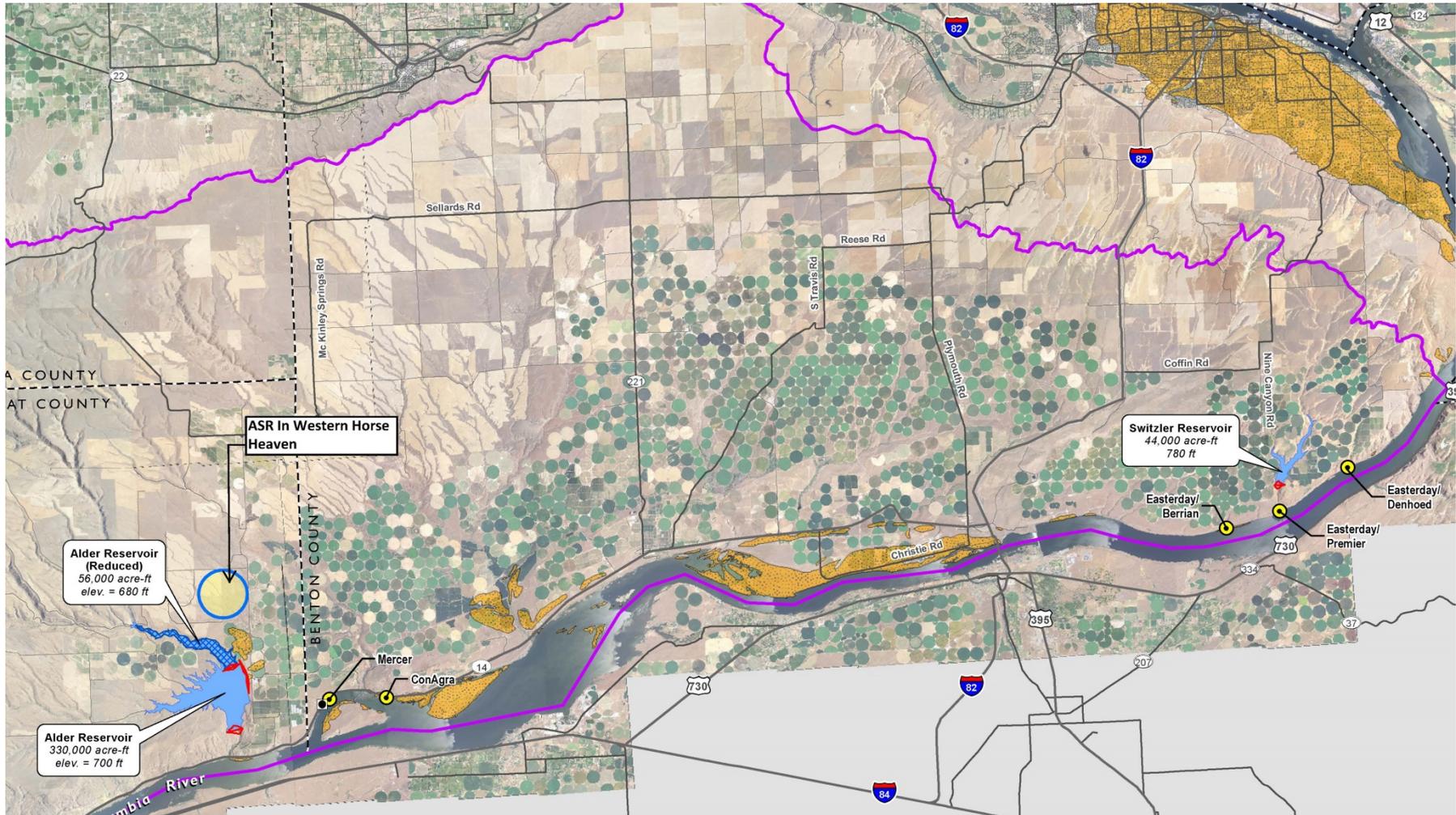
Klickitat County Natural Resources &
Economic Development Department

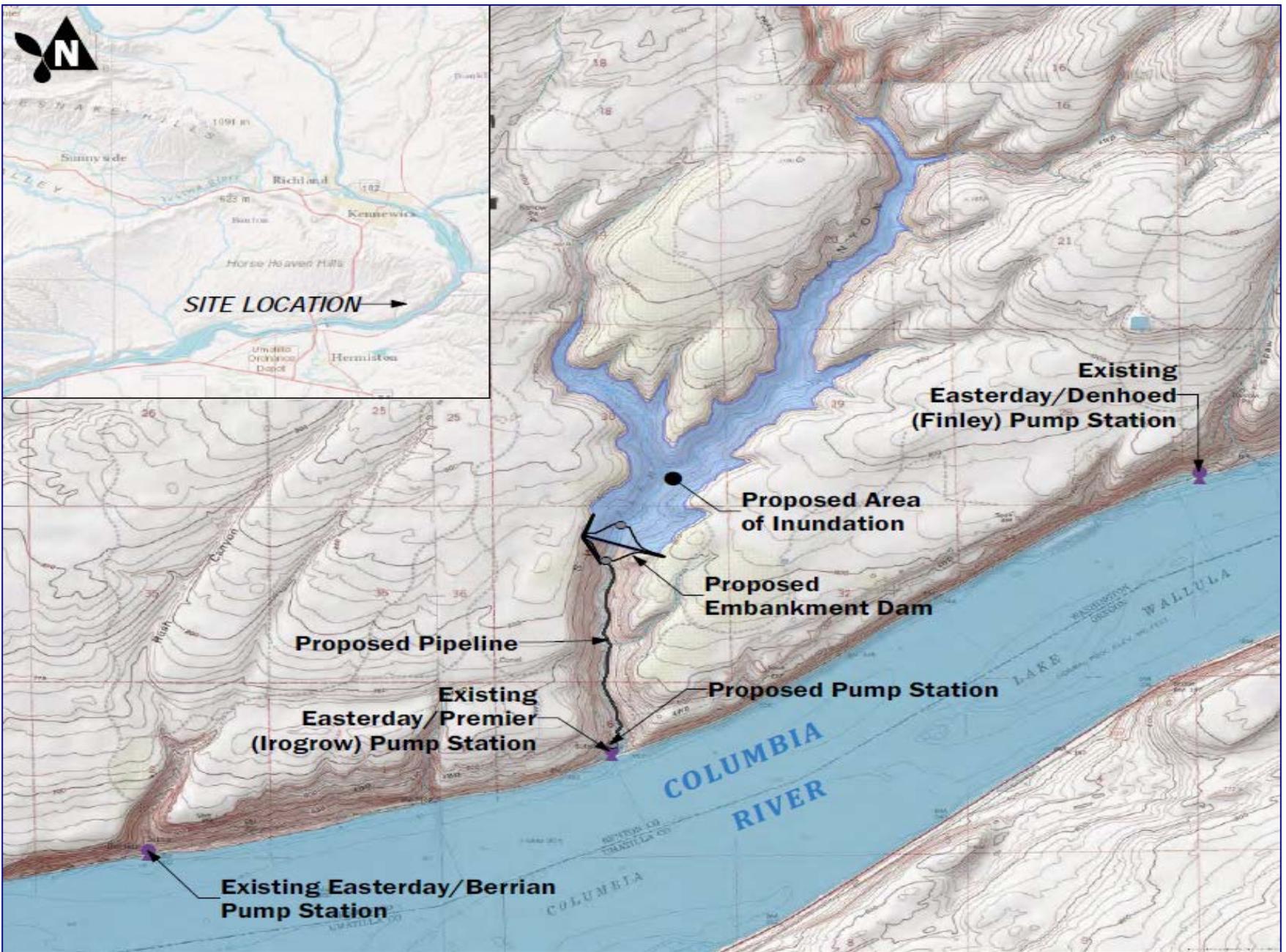


Introduction

- **Project Background & Objectives**
- **Operational Concept**
- **Stakeholder & End Users Outreach**
- **Environmental Review (SEPA) Process**
- **SEPA Scoping & Schedule**

Preferred Storage Alternative from pre-Feasibility study









Switzler Reservoir Water Storage Project

Water Storage Concept:

- **Provide mitigation for new water rights**
- **Pump from Columbia River when water is available (Winter/Spring)**
- **Pump into surface reservoir (low elevation)**
- **Under new water rights, divert Columbia River water (or gw in continuity) from McNary pool or downstream**
- **Discharge water from reservoir back to Columbia River to mitigate for diversion quantity**

Switzler Reservoir

Project Elements	
Peak Storage Volume (acre-feet)	44,000
Maximum Instantaneous Filling Capacity (cfs)	200
Diversion Period	When Columbia River Water is Available
Maximum Instantaneous Draining Capacity (cfs)	280
Release/Supply Period	April 1 – October 30
Surface Water Source	Columbia River

Switzler Reservoir

Operational Evaluation

■ Assumptions:

- Reservoir capacity of 44,000 acre-feet
- Pumping (reservoir filling) capacity of 200-cfs

■ Results:

- 41,080 acre-feet supplied by project, 9 out of 10 years.
- 30,800 acre-feet supplied by project, 10 out of 10 years.
 - I.E. 1 in 10 years, new water supply made available by this project would be curtailed by 25%.

Capital Cost

PHASE 2	Item	Cost
	General	\$18.6M
	Site work	\$20.5M
REFINED OPINION OF PROBABLE COST	Embankment Dam	\$113.5M
	Operational and Appurtenances	\$11.5M
	Surface Water Pump Station	\$14.3M
	Environmental Mitigation	\$2.5M
		Construction Cost Subtotal
CAPITAL COST	Contract Cost Total (Incl. Contingency and WSST)	\$243.5M
O&M COST	Non-Contract Total	\$37.0M
ANNUAL COST	Project Cost Total	\$280.5M(2012) \$306M (2018)

Public Funding Mix (Switzler)

Public Funding vs. End User Share

	Project Cost (per acre-foot per year)	Funding: State / Federal Match	Funding: End User Share
0% Public Match	\$427	\$0	\$427
33% Public Match	\$427	\$141	\$286
50% Public Match	\$427	\$213	\$214

Switzler Reservoir Allocation/Funding Concepts

Storage Appraisal Assessment

- **Project water cost exceeds current market value if solely borne by end user**
- **Anticipate increase future market value relative to cost**
- **Public benefits/funding can offset cost to end user**
- **High-value ag & municipal uses maximize economic benefit**
- **More detailed Economic Evaluation underway**

Next Step for Switzler Reservoir

SEPA Scoping and EIS

- **Scoping period (60-day) August – October 2018**
- **Public Meetings on September 19th and 20th**
- **Consultation Meetings**
- **Subsequent Technical Studies to Address identified Data Gaps**

Website:

<http://www.klickitatcounty.org/1045/Switzler-Reservoir-Water-Storage-Project>

Comments to:

Klickitat County Department of Natural Resources and
Economic Development,
Attention: Dave McClure, Director, 127 West Court Street,
Goldendale, WA 98620, or via email at
kcnaturalresources@klickitatcounty.org