

Eklutna Lake Pumped Storage Study

Anchorage Assembly IEUOC Meeting

June 18, 2026

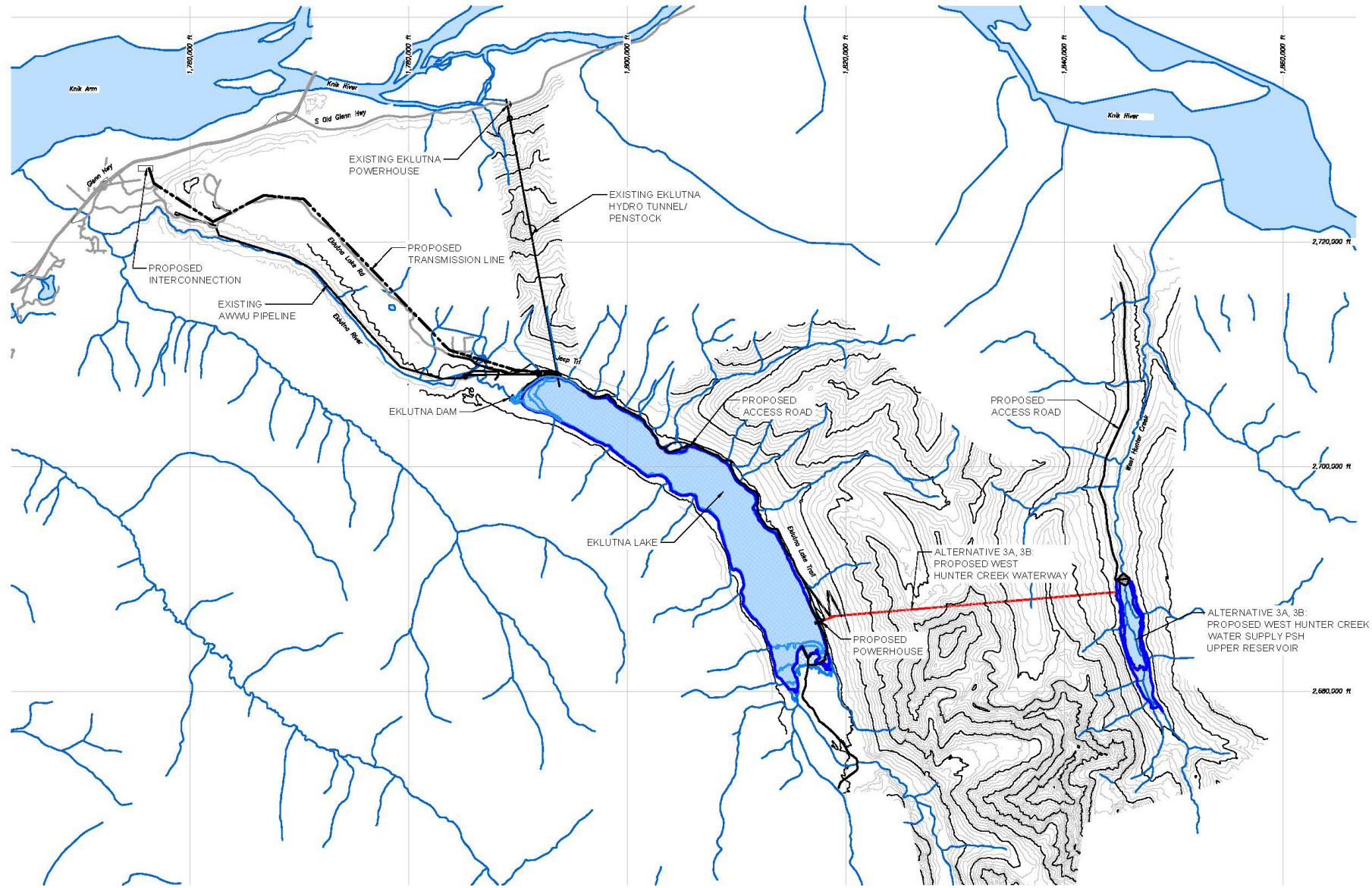


Agenda

1. Project Overview
2. Process to Date
3. Progress Update
4. Work Remaining
5. Project Schedule
6. Discussion

EKLUTNA LAKE PSH – ALTERNATIVE 3A, 3B WEST HUNTER CREEK DIVERSION





NOTES:

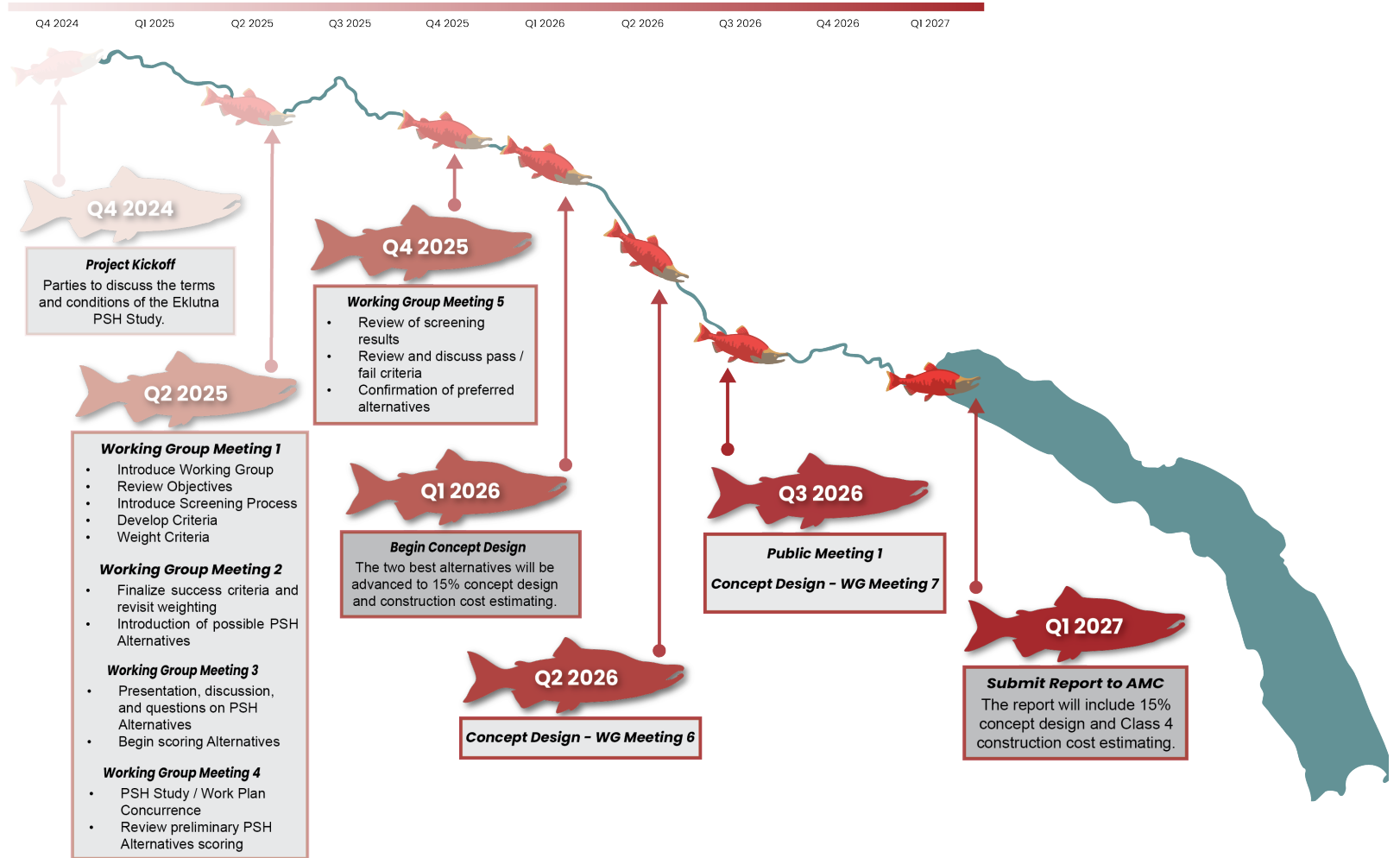
1. SPATIAL REFERENCE:
 PROJECTION: STATE PLANE COORDINATE SYSTEM
 ALASKA ZONE 4 (FIPS 5004), US FEET
 DATUM: NAD83.
2. CONTOURS BASED ON LIDAR USGS 3DEP ELEVATION DATA.

CONCEPTUAL PROPOSAL
 DISCUSSION DOCUMENT, NOT INTENDED FOR WIDE DISTRIBUTION



Process Recap to Date

TIMELINE – EKLUTNA LAKE PSH SCREENING STUDY



Progress Update

- Geologic / Geotechnical Desktop Study
- Pump-Turbine Selection
 - Two 18 MW P-T units
 - 615 cfs
 - 790 feet net head
 - 900 RPM
 - 71% Roundtrip Efficiency
 - 2 MW Pelton
 - For flows <40 cfs
- Additional Generation
 - West Hunter: 55,000 MWh
 - Eklutna: 20,000 MWh
 - Total: 75,000 MWh
- Surge Analysis
- Conceptual Drawings

Work in Progress

- Fish Passage Arrangements
 - Floating Fish Collector, Intake Tower, and Piped Fishway
 - Pumped or Variable Exit Fish Ladder
- Eklutna Lake Fish Habitat
- Hydrologic Model
 - Daily timestep
 - Eklutna Lake spill
 - Optimize fish attraction during downstream migration
- Flood Hydrology
 - Spillway Requirements
- Transmission Route
- Access Roads and Trail / Airfield Relocation
- Staging, Waste, and Borrow Areas
- FERC Licensing Process
- Environment Analysis
- Land Status
- Class 4 Cost Estimate
- Economic Analysis

Investment Tax Credit (ITC) Program

Inflation Reduction Act - Clean Electricity Investment Credit

Clean Electricity Investment Credit (48E)	Total Potential Credit for West Hunter Pumped Storage Project	Notes
Base amount	6% of qualified investment	
5x adder for Prevailing Wage and Registered Apprenticeship requirements	30%	15% qualified apprentice labor hours.
10% adder for location in Energy Community	40%	Project is located in an Energy Community
10% adder for Domestic Content requirements	50%	Domestic Content required for Elective / Direct Pay. 100% domestic iron and steel construction materials, 55% of manufactured products and components to be domestic.
10% adder for Low Income Communities Bonus Credit Program	60%	Maximum net output of less than 5 MW, so the West Hunter PSP may not qualify.
Program sunset		Phase-out starts for the later of 2032 or when U.S. greenhouse gas emissions from electricity are 25% of 2022 emissions or lower.
Elective Pay		Credits may be available to certain applicable entities to include tax-exempt organizations and government entities. The entity can receive the full value of the credit because the IRS treats the elective payment amount as a tax payment. The IRS then count it as overpayment on the return and refund it to the entity.

Upcoming Project Schedule

JUNE

- Working Group progress update meeting

JULY

- Planning for Open House

AUGUST

- Open House materials submitted to Working Group for approval

SEPTEMBER

- Draft PSH Design Study
- Working Group Progress Meeting
- Open House Meeting

NOVEMBER / DECEMBER

- Second draft PSH Design Study
- Working Group Progress Meeting

TO BE DETERMINED

- Final PSH Design Study Complete
- PSH Study presented to Adaptive Management Committee

Upcoming Project Schedule

Subsequent to the AMC presentation [as stipulated in the October 2024 Governor's order on the Fish and Wildlife Program]:

- AMC evaluates PSH Study against the 8 Factors of the 1991 agreement.
- AMC presents PSH Study and 8 Factor analysis to the Owners.
- If the Owners agree with the analysis, the Owners and the AMC will coordinate a recommendation to the Governor.
- Governor evaluates and issues final order.