

Safer, Smarter & More Sustainable
Atlin's Hydro Opportunity

Project Background

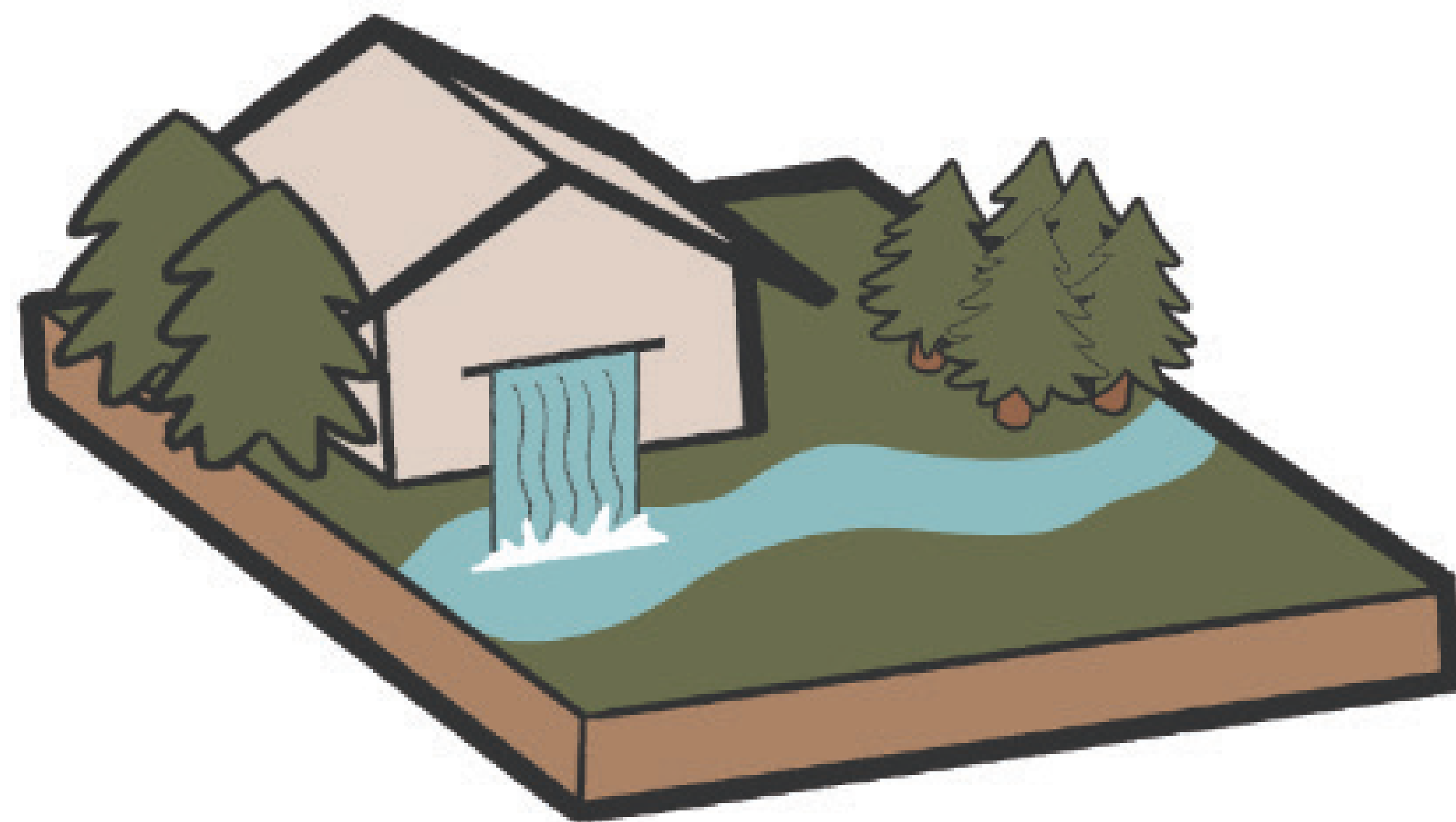
WELCOME

We are so glad you are here to continue our conversation about The Atlin Hydro Opportunity project (The Project). As you move around the room, please read the background information and use sticky notes to share your feedback.

ABOUT THE PROJECT

Atlin's Hydro Opportunity is a proposed hydroelectric generation project located on Pine Creek and Surprise Lake near the community of Atlin, BC. It will generate 9.3 MW of reliable and clean energy for the Yukon enabling the reduction of greenhouse gas emissions, as well as delivering important economic development opportunities for local communities.

The Project is fully Indigenous owned, and will be operated by Tlingit Homeland Energy Limited Partnership (THELP), a company of the TRTFN.



TAKU RIVER TLINGIT
First Nation



THELP

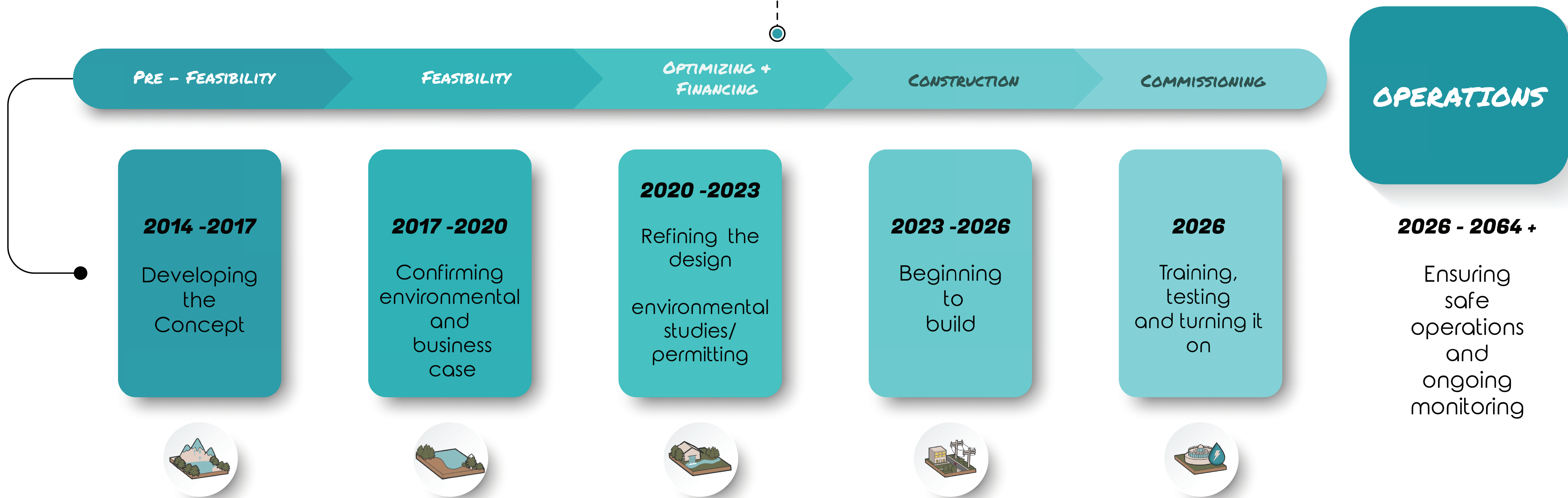
Project Process

Since our last public engagement in August 2022, the Project team has been working to optimize and update the Project design. Today, the design incorporates public, stakeholder and technical feedback.

The new design has been submitted for a Clean Energy Development Plan (CEDP) review. Below is a summary of the project process.

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WE
ARE
HERE



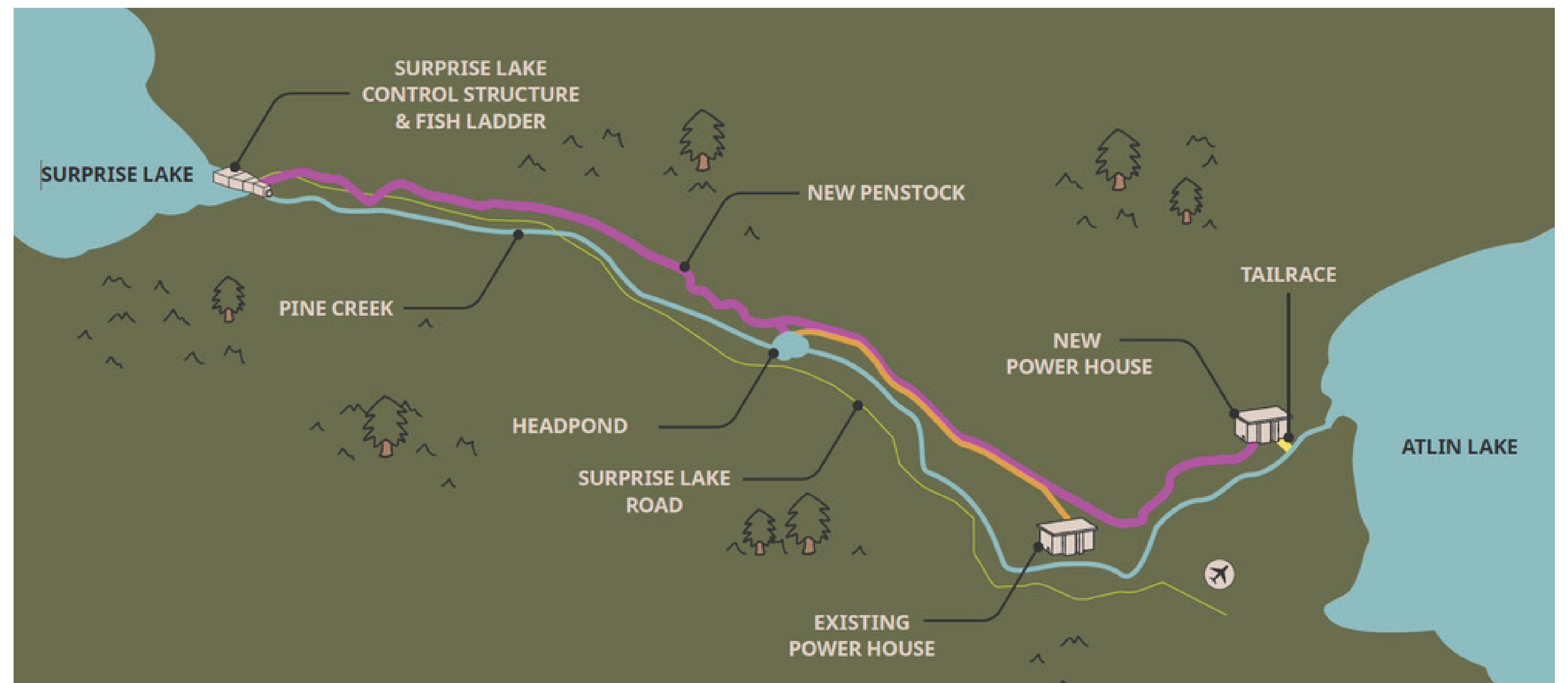


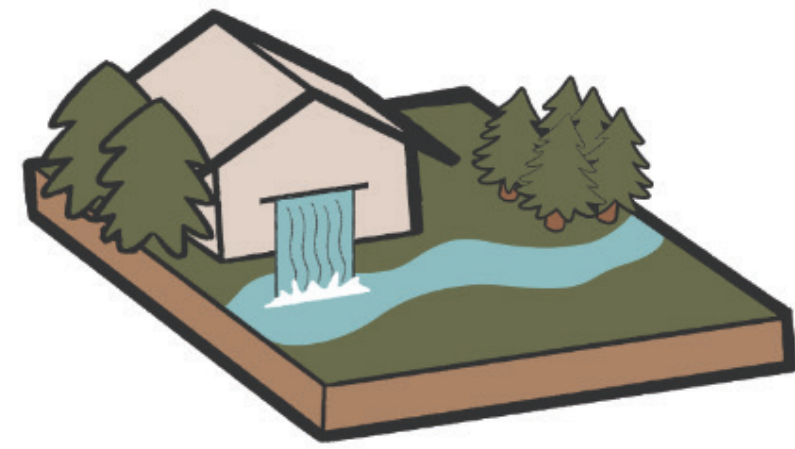
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Project Design

The map shows an overview of the proposed project. Generating hydroelectricity for the community will follow these steps:

1. Water will be stored in Surprise Lake.
2. Water either travels down Pine Creek or down the penstock (pipe) to the new power plant near Warm Bay Road.
3. Turbines in the powerhouse will generate electricity. Water will go back to Pine Creek from the powerhouse via a constructed channel called a tailrace.
4. The power generated will travel via a transmission line to Jake's Corner where it will connect to the existing electrical grid in the Yukon.
5. Water will still flow down Pine Creek to support ecosystems, users, and Atlin power production.





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Project Benefits

The Project will provide a number of socioeconomic and environmental benefits to the community in the near and long-term.

Here are a few examples:



JOB SKILL CREATION

Over 170 full- and part-time jobs. Skills Training and Employment Program open to Tlingit and non-Tlingit community members.



REVENUE GENERATION

An estimated \$1,000 000 per year through sales to the Yukon.



GROWING TAX BASE

Contributing over \$150,000 annually to Atlin property taxes.



CLIMATE CHANGE MITIGATION

Offsetting an estimated 184 B-trains of fuel a year.



ECO SYSTEM HEALTH

Long-term environmental monitoring and stewardship programs.

What have we heard?

Engagement Overview

We've come a long way. Over the last seven years, we've gathered valuable feedback through public and stakeholder engagement events, letters, emails, Facebook comments and phone calls. We look forward to continuing the conversation and continuing to engage with you as the project progresses.

Key Themes

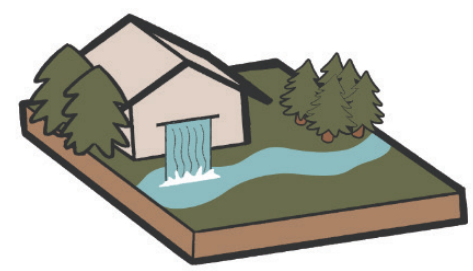
The key themes we have heard in our engagement to date include concerns and support about:

- Employment and skill building opportunities
- Long-term, sustainable revenue generation
- A transparent planning process
- Noise and visual impact
- Loss of biodiversity and habitat
- Changes to the water table
- Recreational impacts

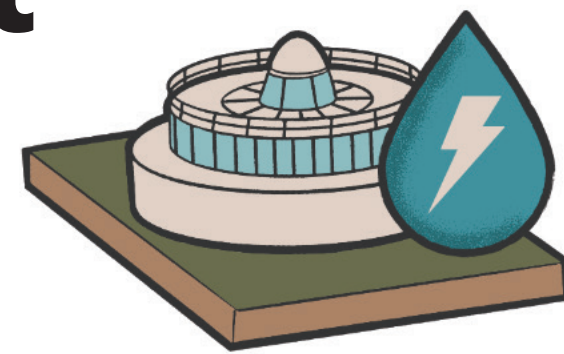


The following boards explain how the project maximizes community benefits while addressing these key concerns.

How have we responded?



The optimized project design responds to what we have heard through engagement and technical review.



More specifically, the design makes these key changes:

Changing the water intake/diversion from Upper Pine Creek to Surprise Lake, and removing the Spruce Creek diversion.

By changing intake/diversion we have eliminated the need for any new in water structures in Pine Creek.

Changes in flows to Pine Creek.

Using a penstock (pipe) to transport water instead of an open canal.

Utilizing one powerhouse (instead of two) and a shortened tailrace.

Burying the transmission line near Warm Bay Road.

Changing the powerhouse location and tailrace to eliminate impacts at Pine Creek Beach.

OVERALL, THE UPDATED DESIGN:

- Limits new disturbances
- Reduces impacts to beach areas
- Conducts less in-water works



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Protecting What Matters Most

UNGULATES

Specifically, Northern Mountain Caribou, Moose, Mountain Goat, and Stone's Sheep.

Wildlife

SHOREBIRDS & WATERFOWL

Arctic Terns, Semipalmated Plover, Sandpipers, Bonaparte's Gulls and Herring Gulls, among others.

HOW THE PROJECT RESPONDS

We will protect these species by limiting disturbance to habitat, predator-hunter patterns, and travel routes.

Approaches include:

- Reducing lake storage from 2.5 to 2 m
- Using existing footprints and infrastructure conducting pre-clearing surveys
- Placing transmission lines at low elevation and spacing to allow for travel
- Developing and following Construction Environmental Management Plan
- Monitoring for changes during nesting season

What we heard

UNGULATES are of high importance to TRTFN, whether that be for food, ceremonial, or cultural value.

SHOREBIRD nesting habitat is important to the region. There is concern about the potential impacts caused by increased lake levels.

What do you like about this approach?

YOUR
THOUGHTS
HERE!

What concerns or questions do you have about this approach?

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Protecting What Matters Most Fish and Water

Primarily Artic Grayling,
among others.

Water Quality

HOW THE PROJECT RESPONDS

We will protect water quality and Artic Grayling (among other fish species) by limiting disturbance to habitat and bottom sediments, preventing construction contamination, balancing water temperatures and maintaining environmental flow. Approaches include:

- Ensuring minimal impacts throughout operations
- Restoration programs including new culvert at Snake Creek and creation of Grayling habitat at Otter Creek
- Adaptive Monitoring Programs that respond to issues of concern

What we heard

ACCESS TO FISH is important for food, recreation and culture.

WATER QUALITY is critical for fish, wildlife, habitat and human health.

What do you like about this approach?

YOUR
THOUGHTS
HERE!

What concerns or questions do you have about this approach?

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Protecting What Matters Most Recreation & Economy

PUBLIC OUTDOOR RECREATION

Such as hiking, camping, and motorized vehicle use, among others.

LOCAL & REGIONAL ECONOMY

Including TRTFN, Atlin, BC and Yukon.

What do you like about this approach?

What we heard

The area's recreation opportunities and amazing views are important to community members.

There is support for the project generating tourism, employment, and revenue. At the same time, there are concerns about the potential impacts of an influx of workers in Atlin.

HOW THE PROJECT RESPONDS

We will protect recreational opportunities by minimizing changes to key views, providing beach and trail access, providing public notice of works. We will support the regional economy and reduce impacts on tourism as well as the Atlin community. Approaches include:

- Reduce Surprise Lake storage from 2.5m to 2m
- Using natural colours for infrastructure and burying infrastructure to reduce visibility
- Sourcing food and first aid services for temporary construction camps
- Camp policies and mandatory orientation

YOUR
THOUGHTS
HERE!

What concerns or questions do you have about this approach?

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Protecting What Matters Most Traditional Use

CULTURAL SITES

Particularly, Pine Cup Creek, Granite Creek, Como Lake and Pine and Spruce Creek confluence.

HOW THE PROJECT RESPONDS

We will reduce impacts to these TRTFN cultural sites by maintaining shoreline access and limiting disturbance to water quality, fish and wildlife.

Approaches include:

- Reducing water levels from 2.5m to 2.0 m to protect cultural sites along shoreline
- Conducting archaeological collection alongside TRTFN members
- Ongoing and long-term monitoring programs

What we heard

It is important to protect cultural sites and to continue to have access for traditional uses such as hunting, trapping, fishing and harvesting.

What do you like about this approach?

YOUR
THOUGHTS
HERE!

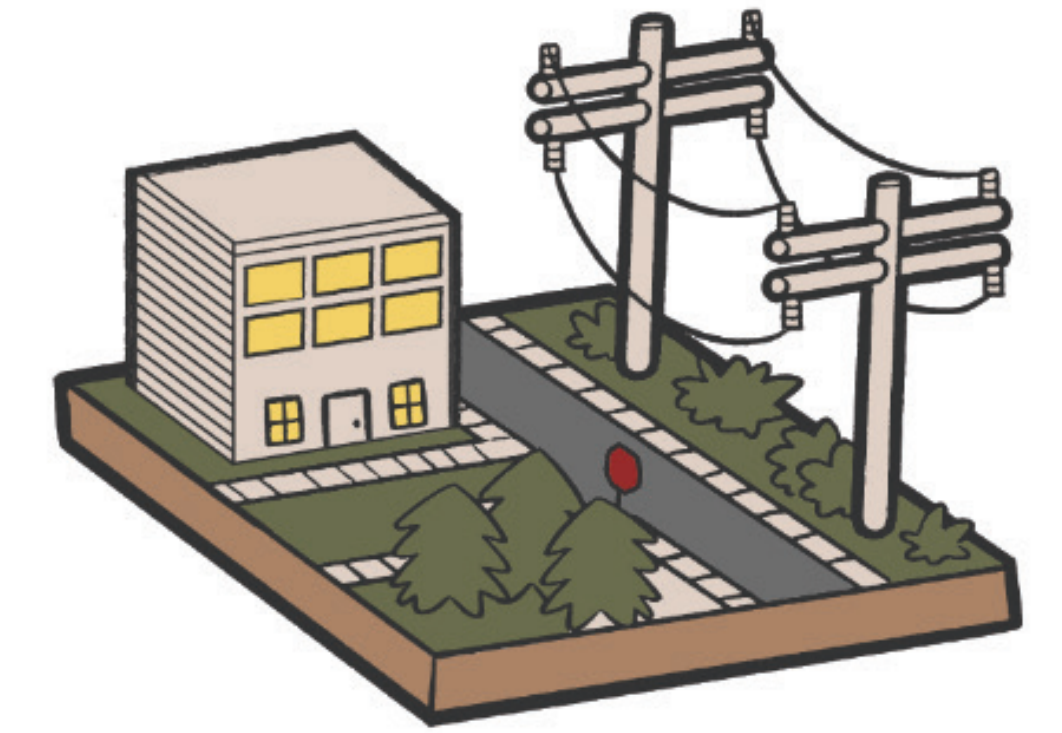
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What's Next?



Currently, we are working to finalize the project design, conduct additional technical studies and gather public and stakeholder input. During the spring and summer, you may notice some of this technical work on site as we continue our geotechnical studies to look at the soils and subsurface conditions.

We will soon be hosting a job fair. Please stay in touch for more information.

STAY IN TOUCH



THANK YOU FOR JOINING US TODAY!

Your feedback will be used to refine construction and long-term monitoring programs.



If you would like to receive project updates, including job fair opportunities, please check out our website at <https://www.atlinhydro.ca/stay-engaged>