

# Bridge River Capital Projects: La Joie Access and Accommodation Study

Upper Bridge River Valley, Virtual Open House – January 2024



# **Winter 2024 Virtual Open House**

La Joie Access & Accommodation Study

BC Hydro Bridge River Capital Projects

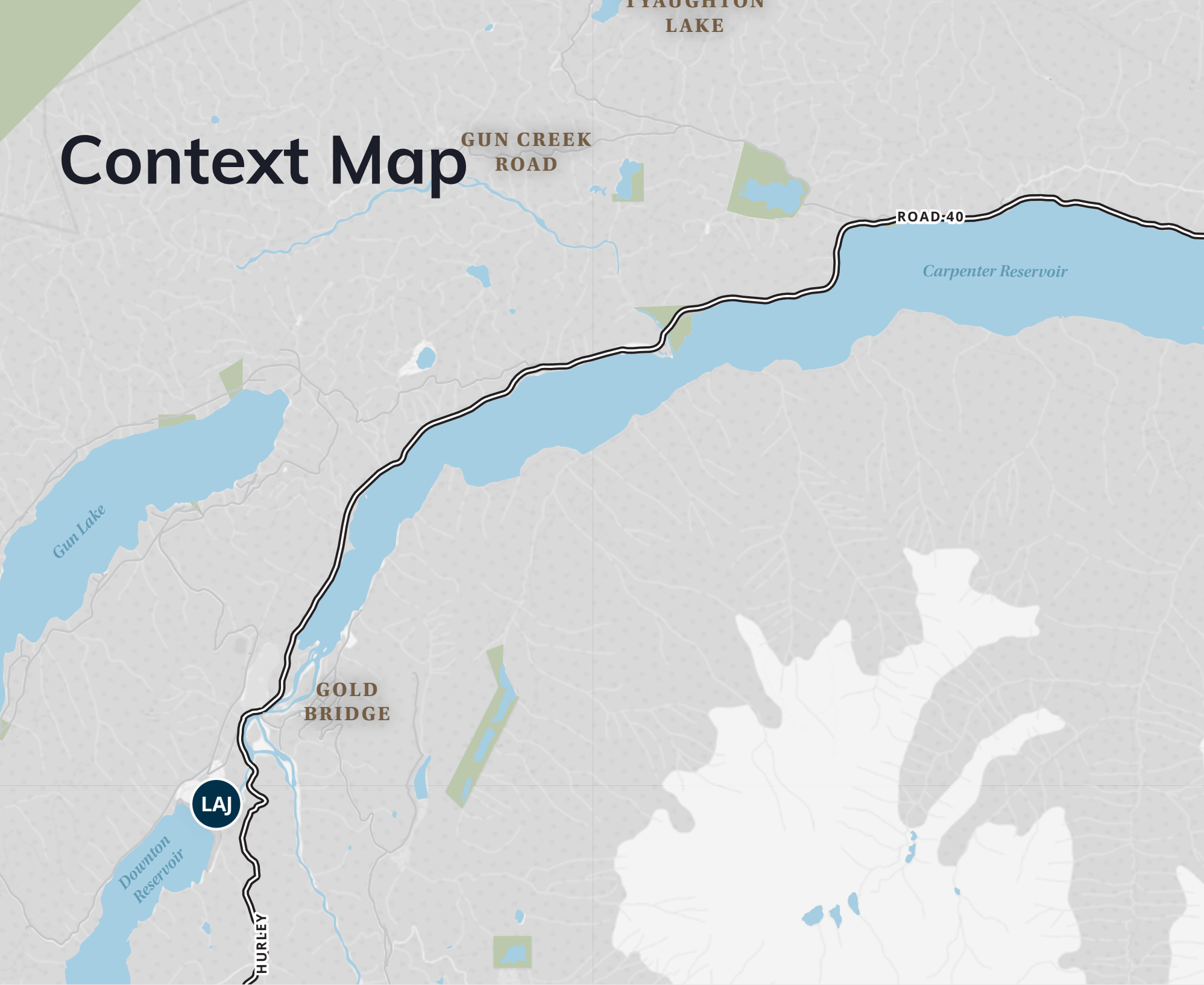
January 2024

# Agenda

- 1 Study Overview
- 2 Regional Importance
- 3 Engagement Summary
- 4 Structured Decision Making
- 5 Additional Recommendations
- 6 Community Benefits
- 7 Questions





# 1 Study Overview

# Context Map



## Legend

### Lands & Transportation

-  Provincial Parks
-  Waterbodies
-  Provincial Highway
-  Regional Roadway

### BC Hydro Facilities

-  Lajoie Dam



# How Far Along is the Study?

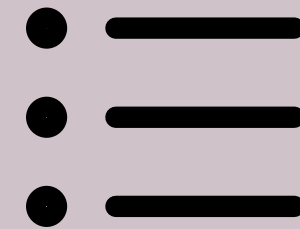
- We are in the **evaluation stage**



Reviewing what we heard during Phase 1 Engagement

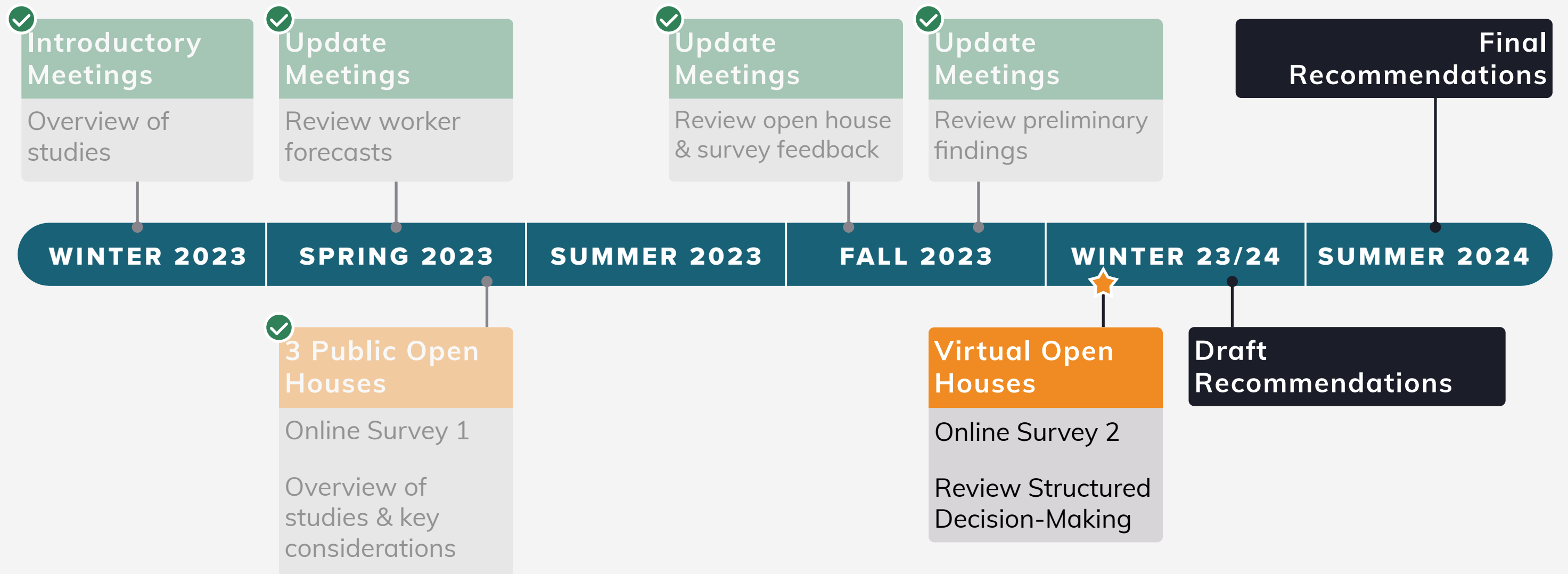


Creating evaluation criteria (objectives and measures)



Shortlisting potential options for site access and accommodations

# Project Timeline



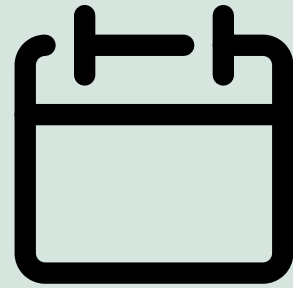
# 2 Regional Importance



# Need for the Study



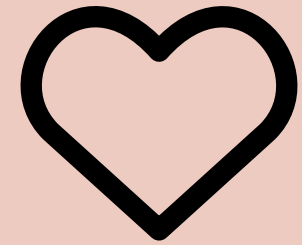
High workforce  
needs in remote  
area



Risks related to  
schedules (e.g.,  
flow conditions,  
harsh weather)

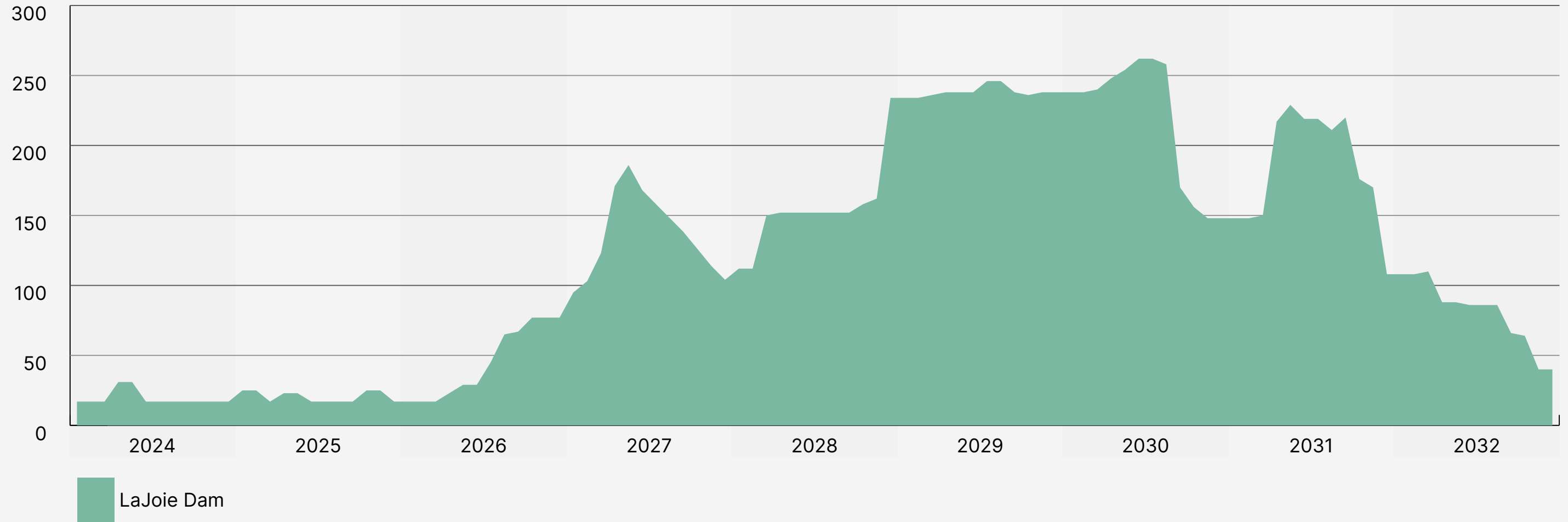


Challenging area  
for travel



Potential socio-  
economic impacts

# Cumulative Regional Worker Forecast, 2024-2032



Worker forecast numbers include regular maintenance and operations personnel, as well as workers for capital projects in the region. All data is provided on an "as is" basis. BC Hydro makes no representation or warranty as to the accuracy, completeness, timeliness, merchantability or fitness for a particular purpose of any data provided by BC Hydro. The data may be outdated or inaccurate and should be used for presentational purposes only.

# 3 Engagement Summary

# Phase 1 Engagement

May - July 2023



# Phase 1 Engagement Activities

**St'át'imc  
Nation**

Consultation +  
Engagement



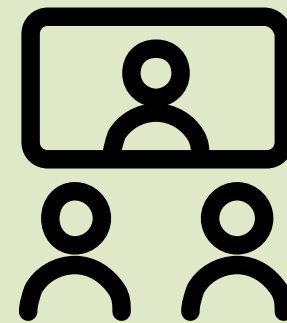
**31**

Stakeholder  
Meetings & Calls

**71**  
Survey Responses

**40**

People @ Gold  
Bridge Open House



**29**

People @ Virtual  
Open House

# What We Heard - Key Themes



Transportation



Accommodations



Social Impacts



Economic  
Development



Infrastructure  
Impacts

# Phase 2 Engagement

September - February 2024

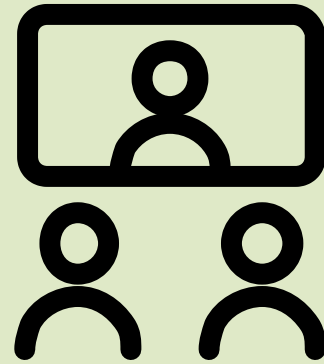




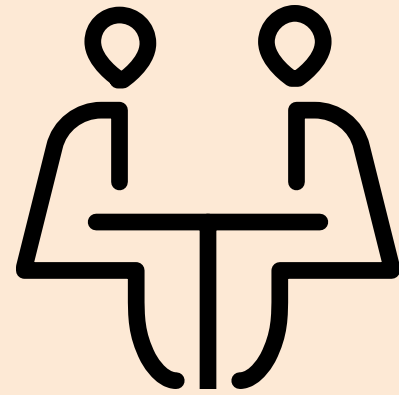
# Phase 2 Engagement Activities



**Stakeholder  
Meetings**



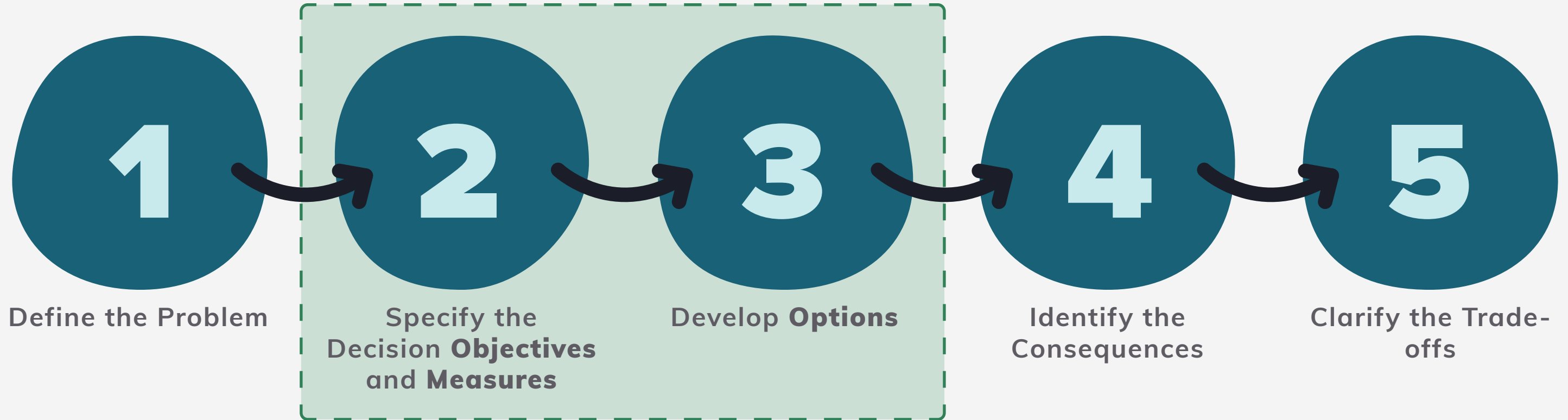
**Virtual Open  
House**



**St'át'imc  
Meetings**

# 4 Structured Decision Making

# Structured Decision Making (SDM) Framework



# Structured Decision Making (SDM) Definitions

## *options*

- Potential solutions to the defined problem

## *objectives*

- Guiding principles and values
- Used to evaluate each option and compare their viability and merits
- Key decision drivers
- Represent end project goals rather than solutions

## *measures*

- Specific indicators used to measure the objectives
- Describe trade-offs between options

# 1 Define the Problem

# Defining the Problems

1. Where will workers stay for the Lajoie Dam Improvement Project?
2. How will workers, equipment, and material deliveries access accommodation locations and work sites?

# Defining the Problems

1. Where will workers stay for the Lajoie Dam Improvement Project?
2. How will workers, equipment, and material deliveries access accommodation locations and work sites?

SDM 1  
**WHERE TO STAY**

**+ ADDITIONAL  
RECOMMENDATIONS**



## 2 Specify the Decision Objectives and Measures

# Informed By Technical Data

- Historical road closure and accident data
- Terrain hazard assessment
- Site visit observations
- Travel time estimates
- Potential spread of invasive species
- Potential impact to wildlife corridors
- Project costs
- Vehicle operating and maintenance costs
- Peak workforce estimates
- Capacity of bus, rail, and boat transportation
- Union agreements
- Background reports and news articles

# Informed By Engagement

- Conversations and meetings with BC Hydro, SLRD, St'át'imc Government Services, RCMP, Interior Health, and Bridge River Valley Community Association
- Public interest in how businesses can benefit from increased population
- Public concern about businesses' ability to adapt to changes in demand as projects ramp up and down
- Input from Lillooet Regional Invasive Species Society
- Public support for quality worker conditions

**DRAFT OBJECTIVE**

# Minimize Impacts to Local Housing & Tourism Industry

Measures	Option W	Option X	Option Y	Option Z
Expected use of existing commercial accommodations				
Expected use of existing non-commercial accommodations				

**DRAFT OBJECTIVE**

# Support Municipal Services & Infrastructure

Measures	Option W	Option X	Option Y	Option Z
Estimated water use by month				
Impact on existing infrastructure as a result of the accommodation method				

**DRAFT OBJECTIVE**

# Minimize Community Disturbance

Measures	Option W	Option X	Option Y	Option Z
Estimated number of vehicles traveling through community per day				
Number of workers staying within communities				
Whether workers are staying in the community or not				

**DRAFT OBJECTIVE**

# Maximize Stakeholder Support

Measures	Option W	Option X	Option Y	Option Z
Distance to nearby community businesses				



**DRAFT OBJECTIVE**

# Maximize St'át'imc Support

Measures	Option W	Option X	Option Y	Option Z
Potential partnership with St'át'imc Nation				

**DRAFT OBJECTIVE**  
**Minimize Costs**

<b>Measures</b>	<b>Option W</b>	<b>Option X</b>	<b>Option Y</b>	<b>Option Z</b>
Estimated cost to implement accommodations				
Estimated cost to operate accommodations				

# Minimize Schedule Risks

Measures	Option W	Option X	Option Y	Option Z
Estimated timeline to implement accommodations (listed in weeks)				
Estimated average annual travel time for workers				

**DRAFT OBJECTIVE**

# Minimize Environmental Impacts

Measures	Option W	Option X	Option Y	Option Z
Hectares cleared for accommodation site				

# Maximize Worker Retention & Worker Conditions

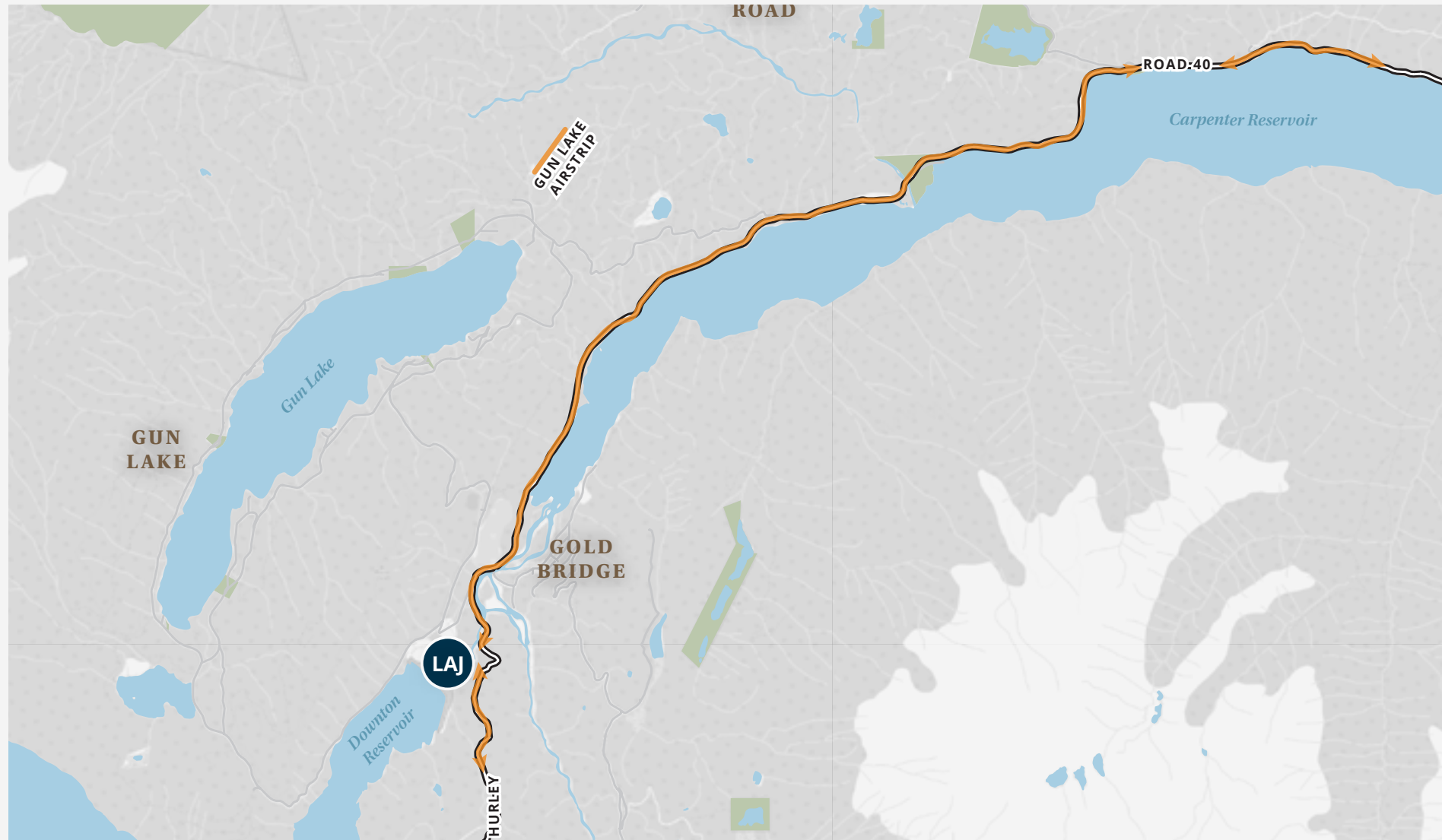
Measures	Option W	Option X	Option Y	Option Z
Distance to nearby amenities including trails and recreation options				
1-5 rating based on proximity to construction traffic and site operations				

# Maximize Travel Safety

Measures	Option W	Option X	Option Y	Option Z
Average annual travel time (worker-hours / year) through moderate to very high risk geohazards				
Estimated increase in daily traffic as a result of the project relative to the existing traffic volumes, by route				

# 3 Develop Options

# Potential Movement Options



## ROADWAYS

- Road 40 (Lillooet to Gold Bridge)
- Hurley FSR

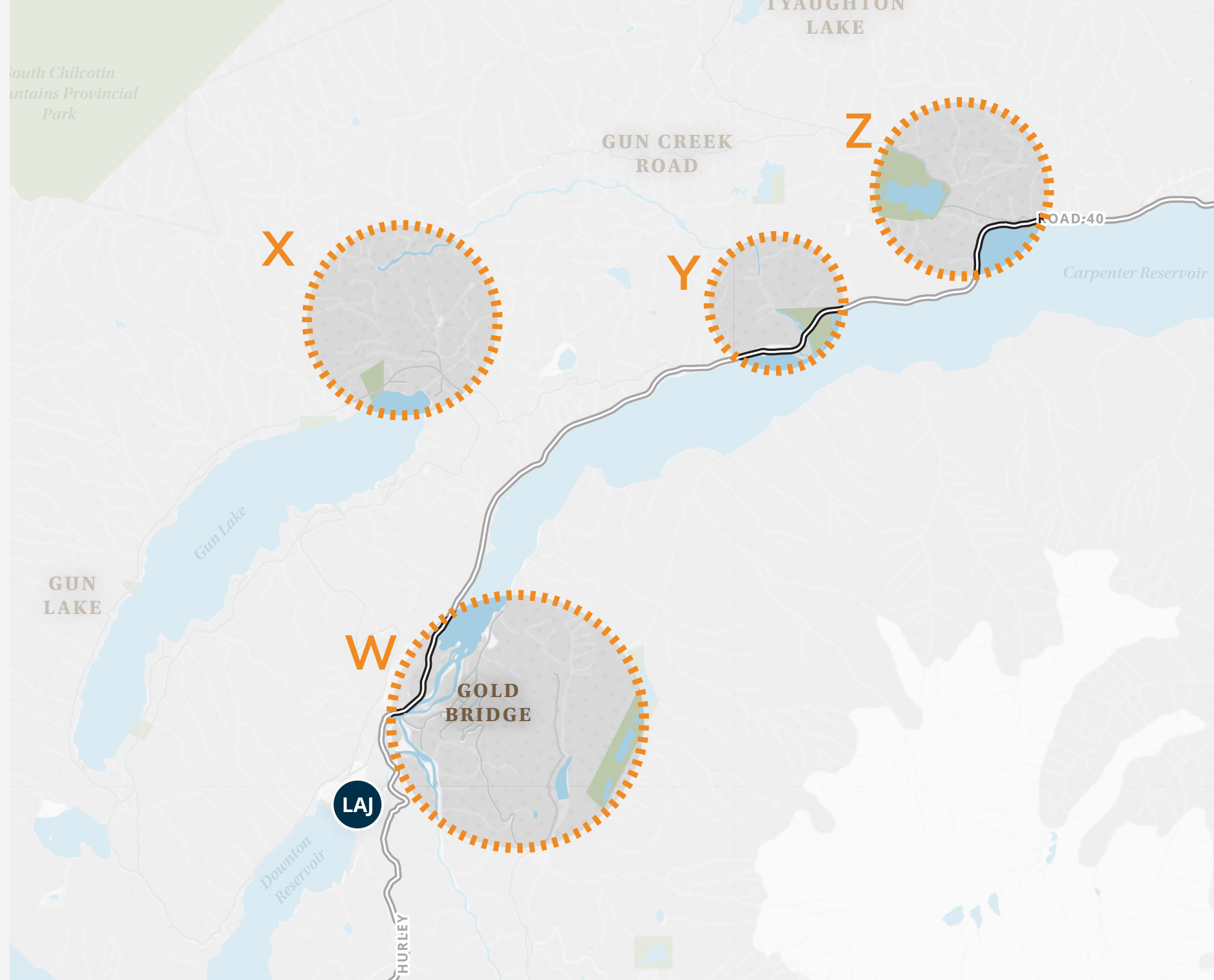
## AIR

- Gun Lake airstrip



# Options

 Accommodation Locations



# 4 Identify the Consequences

# DRAFT SUMMARY TABLE

## SDM Where to Stay

Objectives	Measures	W	X	Y	Z
Minimize Impacts to Local Housing & Tourism Industry	Expected use of existing commercial accommodations				
	Expected use of existing non-commercial accommodations				
Support Municipal Services & Infrastructure	Estimated water use by month				
	Impact on existing infrastructure as a result of the accommodation method				
Minimize Community Disturbance	Estimated number of vehicles traveling through community per day				
	Number of workers staying within communities				
	Whether workers are staying in the community or not				
Maximize Stakeholder Support	Distance to nearby community businesses				
Maximize St'át'imc Support	Potential partnership with St'át'imc Nation				
Minimize Costs	Estimated cost to implement accommodations				
	Estimated cost to operate accommodations				
Minimize Schedule Risks	Estimated timeline to implement accommodations (listed in weeks)				
	Estimated average annual travel time for workers				
Minimize Environmental Impacts	Hectares cleared for accommodation site				
Maximize Worker Retention & Worker Conditions	Distance to nearby amenities including trails and recreation options				
	1-5 rating based on proximity to construction traffic and site operations				
Maximize Travel Safety	Average annual travel time (worker-hours / year) through moderate to very high risk geohazards				
	Estimated increase in daily traffic as a result of the project relative to the existing traffic volumes, by route				

# 5 Additional Recommendations

# Additional Recommendations

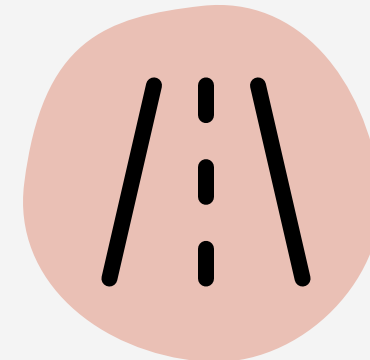
- The Structured Decision Making process uses objectives and measures to differentiate between potential options.
- However, as part of the Study there will be recommendations put forward that **apply no matter which option is chosen.**



Healthcare



Policing &  
Security



Driving & Road  
Use



Emergency  
Management



Noise &  
Disturbance



Social Behaviour



Communication  
with Businesses



Invasive Species  
Management

# 6 Community Benefits

# Community Benefit Framework

- During the study, we heard requests for community benefits and ‘legacy projects’ which were beyond the scope of this study.
- As BC Hydro moves through project planning and implementation phases, this **input has been recorded and will be used for consideration should further mitigation be required.**

# Community Benefit Framework

- During the study, we heard requests for community benefits and ‘legacy projects’ which were beyond the scope of this study.
- As BC Hydro moves through project planning and implementation phases, this **input has been recorded and will be used for consideration should further mitigation be required.**
- Many of BC Hydro’s Bridge River Capital Projects are **subject to review by the BC Utilities Commission.**
- Any mitigation and compensation measures related to these capital projects **must link directly to a project impact.**
- Any measures put forward in BC Hydro’s application will be scrutinized by the BC Utilities Commission (BCUC) and intervenors.



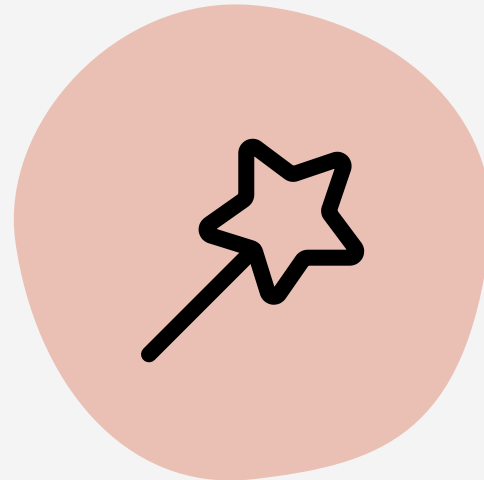
# Community Benefit Ideas - What We Heard



Parks & Open Space  
Improvements



Water Treatment  
Upgrades



Beautification  
Projects



Permanent Housing



Recreation Upgrades

Take our survey!

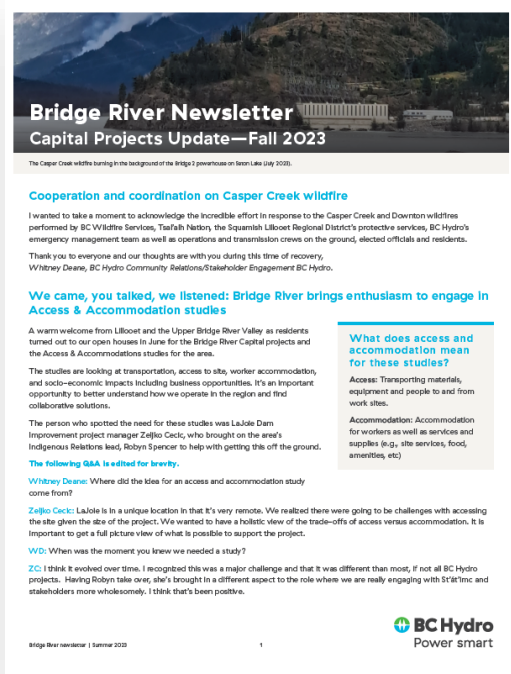


## 4 Ways to Find the Survey:

1. Scan the QR code with your phone and follow the link
2. Go to [www.bchydro.com/bridgeriver](http://www.bchydro.com/bridgeriver)
3. Click the link in the chat
4. Bridge River Capital Project update subscribers will receive an emailed link



# Communications and Contact Info.



## How we inform you about our work:

- Local ads
- Open Houses
- Bi-annual newsletter
- Delegations to local governments
- [www.bchydro.com/bridgeriver](http://www.bchydro.com/bridgeriver)
- Email [projects@bchydro.com](mailto:projects@bchydro.com)
- Phone: 1-866-647-3334

# Questions?



**BC Hydro**

Power smart