

Kanaka Bar Indian Band

Climate Change Vulnerability Assessment

ABOUT THE VULNERABILITY ASSESSMENT

In recent years, Kanaka Bar has become increasingly concerned about observed changes throughout the Traditional Territory. While change has always been constant in the Territory, Kanaka Bar is seeing the recent air, land and water changes as abnormal. Given the community's interdependency with the Territory this is troubling.

Kanaka Bar has accepted that human caused climate change is real. Further, Kanaka Bar understands that many of the changes observed throughout the Territory are a direct consequence of climate change. Kanaka Bar has also acknowledged that the scientific community's assessment of global climate change represents significant environmental, social and economic risks. We are now living in the "age of consequence"

PURPOSE OF VULNERABILITY ASSESSMENT

Kanaka Bar is continually working to understand its vulnerabilities and prepare for a community transition for the environment and economies of tomorrow.

ANTICIPATED CHANGES AT KANAKA BAR

By completing the Climate Change Vulnerability Assessment, Kanaka Bar has a much better understanding of the potential changes we can expect throughout the Territory. These changes include:

- Warmer year-round temperatures
- More precipitation in the spring, fall and winter and less in the summer
- Less snow and more rain
- More frequent and intense storm events
- Changes in surface water resources
- Continued stressed on salmon populations
- Changes in traditional foods
- Increase risk of forest fire

COMMUNITY VULNERABILITY

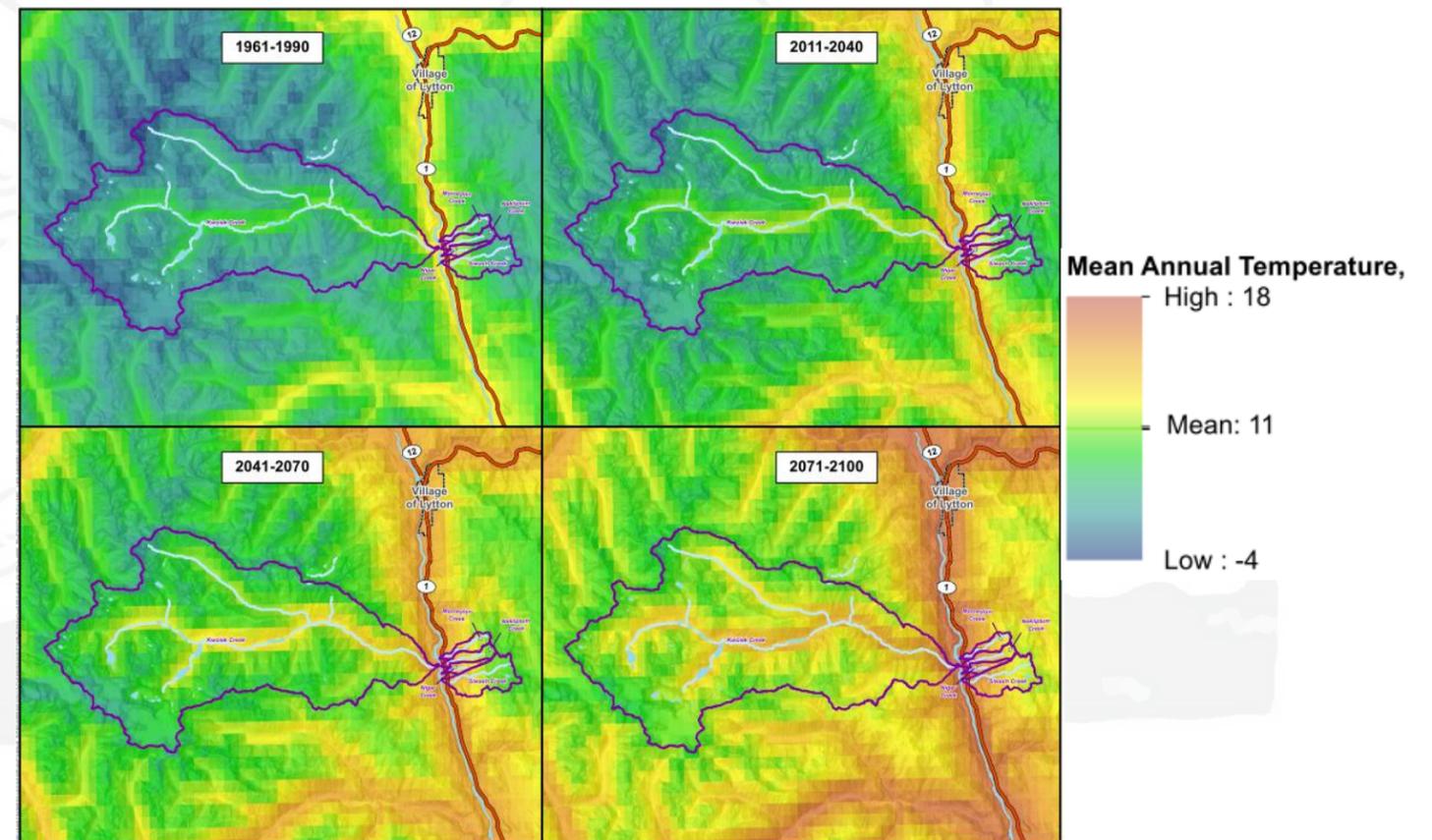
Kanaka Bar has identified key community values and areas of concern associated with respect to climate change. The vulnerability of these values and areas of concern were evaluated and potential impacts were identified based on future climate change projections.

In addition, the community assessed the severity of potential impacts and identified priority areas of concern. The results indicate that the greatest vulnerabilities and highest community priorities with respect to climate change relate to the following areas:

- Water resources
- Forest fires
- Traditional foods
- Access roads

ADAPTATION STRATEGY

Kanaka Bar seeks to reduce the community's vulnerability through meaningful and proactive actions. Kanaka Bar has strategically identified key adaptation strategies to minimize risks and maximize community resilience. These strategies are summarized on the other side of this project brief.



Adaptation Theme		High Priority	Secondary Priority
1	Water Resources	<ul style="list-style-type: none"> Continue to manage gauging stations and collect flow data at Morneylun, Nekliptum and Siwash Creek. Issue a moratorium on unsustainable resource extraction activities in the community watersheds. Assess current and future water demand and develop a water management strategy. Implement additional monitoring for the drinking water treatment plant. Install weather monitoring stations in the community. 	<ul style="list-style-type: none"> Assess and monitor the hydrology of the upper watershed lakes. Develop a conceptual design for siting and sizing of a raw water reservoir. Share this report with Innergex and remind them of Kanaka Bar's concerns related to climate change.
2	Forest Fires	<ul style="list-style-type: none"> Continue and expand forest fire interface and fuel management practices. Implement FireSmart strategies for buildings and homes. Host public education sessions on FireSmart and fire prevention. Review and update the community Emergency Response Plan. 	<ul style="list-style-type: none"> Install air quality monitoring instruments. Install air conditioning systems for buildings and homes or purchase portable air filters.
3	Traditional Foods	<ul style="list-style-type: none"> Continue and expand food production initiatives in the community. Implement knowledge sharing and documentation of traditional food sources. 	<ul style="list-style-type: none"> Develop and implement an agriculture plan for Lot 4. Support and contribute to all salmon protection initiatives.
4	Access Roads	<ul style="list-style-type: none"> Continue and expand culvert inspection and cleaning program. Complete a culvert assessment and compare sizing with updated IDF curves. Develop a conceptual design for a secondary access route. 	<ul style="list-style-type: none"> Initiate discussions with the Ministry of Transportation and Infrastructure (MOTI) regarding culvert management of Highway 1.
5	Supporting Self-Sufficiency	<ul style="list-style-type: none"> Complete an asset management plan, integrating knowledge of climate change. 	<ul style="list-style-type: none"> Continue and expand strategies to achieve energy self-sufficiency.
6	Youth and Community Engagement and Education	<ul style="list-style-type: none"> Host an annual workshop on climate change and adaptation at Kanaka Bar. 	<ul style="list-style-type: none"> Engage youth to assist with implementation of adaptation strategies and monitoring programs.