

Chignik Subregion Watershed Plan: At-A-Glance Project Summary

Planning for a thriving, healthy Chignik regional watershed. DRAFT, updated April 9, 2024.

1 Project Purpose: The Chignik Bay Tribal Council is preparing a subregional watershed plan for the Chignik subregion.

The plan will summarize what we know today about the watershed and how the watershed is valued. **The plan will** bring together residents, scientists, and other stakeholders to identify and prioritize projects that will promote water quality while supporting subsistence and economic development (commercial fishing, ecotourism).

The plan will not include field work or primary data.

3 Potential Threats: Understanding potential water quality threats and pollution sources are crucial for effective watershed management. Here are some that may be impacting the Chignik region.

A. Big rain events cause erosion, changes to stream function, and increased runoff.

B. Runoff is water from rain that drains from roofs, roads, sidewalks and other surfaces that doesn't soak into the ground.

C. Increased runoff creates more chance for pollutants to enter the water, especially from abandoned dump sites that aren't monitored, derelict buildings, or through a community's stormwater system.

D. Higher temperatures from climate change heat our streams and ocean, increasing algal blooms and threatening salmon survival.

E. Coastal erosion from wind events, sea level rise, and increasing snow and rain.

F. Risk of chemical contaminates from storage of tanks near water or transport of fuel between communities or on the ocean.

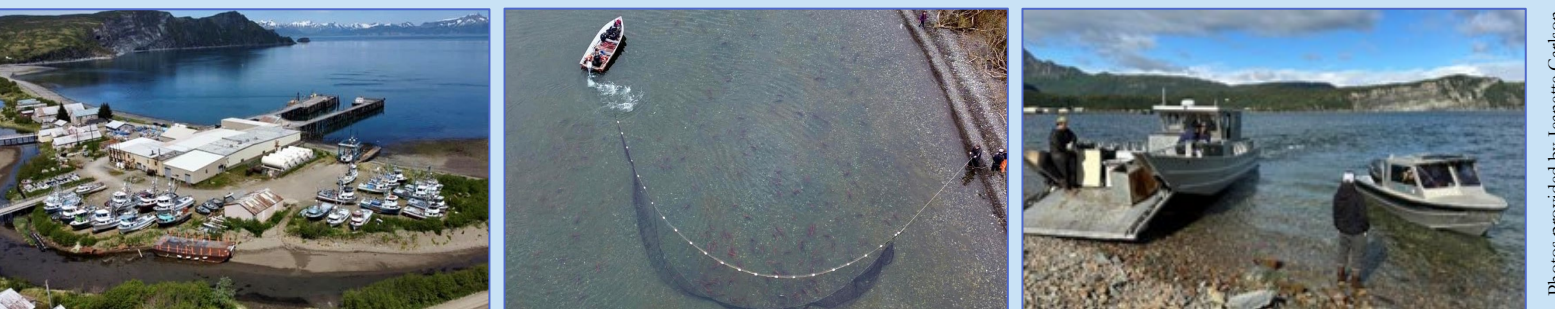
2 Project Timeline:

Save the Date!
Chignik Regional Symposium
June 6-8, 2024



4 Potential Outcomes:

The following are potential ways the watershed plan could guide positive change in Chignik communities:



Photos provided by Jeanette Carlson.

5 Quick Facts about the Chignik Watershed*:







*Watershed boundaries include the communities of Chignik Lake, Chignik Lagoon, and Chignik Bay; Ivanof Bay and Perryville not included.

Chignik Subregion Watershed Plan: What We Know So Far & Questions that Guide Us




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Guiding Questions

Areas We Cherish

-  Community Water System
-  Drinking Water Protection Area
-  Known Salmon Stream
-  Subsistence Harvest Area

Areas of Concern

-  Active Dump or Landfill
-  Closed Dump or Landfill
-  Contaminated Site

Project Website

Visit the project website for more information and to sign up for updates:
ChignikWatershed.com



Project Contacts

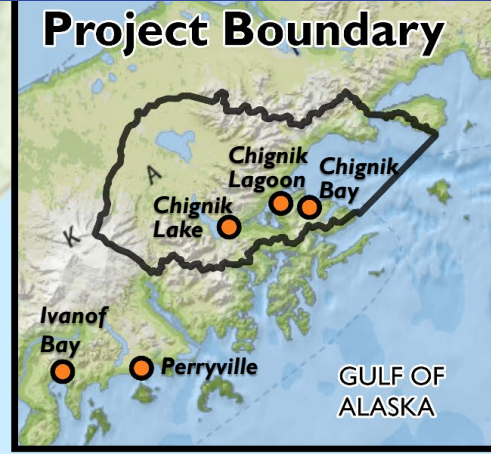
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I. What areas of the watershed are most important and should be protected?

Examples: Streams and riparian areas, traditional berry picking spots, traditional hunting grounds, salmon nursery and spawning areas, halibut grounds, bidarki and razor clam habitat, drinking water sources, etc.



2. What are your top concerns for the watershed?

Examples: Data gaps, salmon declines, increased stream and ocean temperatures, invasive plants, paralytic shellfish poisoning, fuel spill risk, erosion, contamination from dumpsites or old canneries, etc.

3. What are some strategies that address concerns, and how can we work together to address them?

Examples: Incorporate existing research and protection programs, provide funding strategies, improve Commercial Fishing Waste Disposal program, add missing anadromous streams, remove invasive plants (like alders), establish baseline data for water temperature and quality of priority streams, develop youth leadership programs around watershed protection and monitoring, establish shellfish testing program, etc.

Sources: The Subsistence Harvest Areas are derived from interviews with residents as part of the Chignik Conservation Planning project from the Bristol Bay Heritage Land Trust and Artesian Knowledge, LLC, 2023. The Community Water System, Drinking Water Protection Area, Landfill, and Contaminate Site areas are from the Alaska Department of Environmental Conservation, 2023. Known Anadromous Stream sites are from the Alaska Fish & Game Alaska Waters Catalog, 2023.