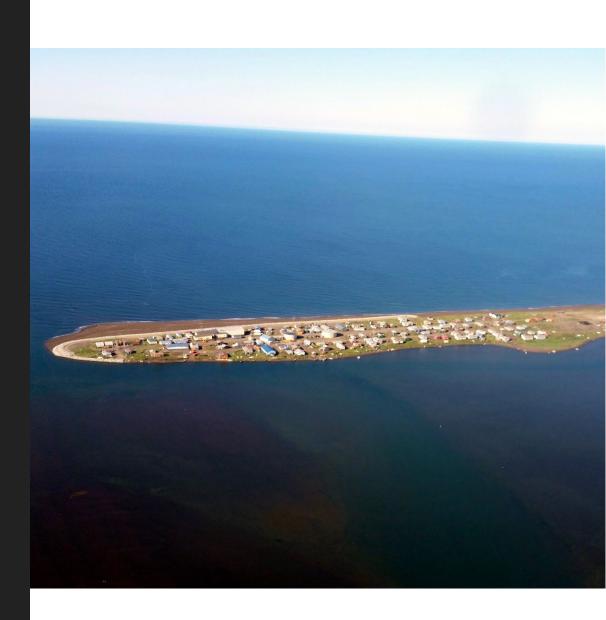
Alaska Department of Transportation & Public Facilities

July 25, 2023

Kivalina Airport Relocation Feasibility Study





Introductions

DOT&PF

- Scott Maybrier, Designer
- Jonathan Hutchinson, DOT&PF Engineer

Stantec

- Andrew Niemiec, Airport Engineer
- Ryan Cooper, Airport Planner



Agenda

- Feasibility Study 101
 Study Elements
- 3. Schedule
- 4. Alternatives
- 5. Open House/Q&A

Feasibility Study 101

What is a Feasibility Study ?

- Comprehensive study of an airport
- Does the airport serve community needs?
- Are there better alternatives to serve community?
- Environmental, socioeconomic, cost impacts
- Justify Funding Requests

Kivalina Airport Feasibility Study

- Threats to Kivalina's Airport
 - Erosion and Storm Surges
- Should Airport
 - Stay and be strengthened, or
 - Move inland?
- Select the best alternative
- Steps Following Feasibility Study
 - Design
 - Construction

Recent Airport Improvements

- 2001 Rehabilitate Runway
- 2010 Aeronautical Survey
- 2013 Acquire Snow Removal Equipment
- 2018 Airport Rehabilitation
 - Erosion Protection Project
 - Obligated to continue to operate runway till 2038



Feasibility Study Elements

Public Involvement

- 2 Public Meetings
 - **Existing Conditions: What are the problems?** Alternative Assessment: How to solve them?
- Website
- Mailing List
- Public Announcements: Radio, Newspaper





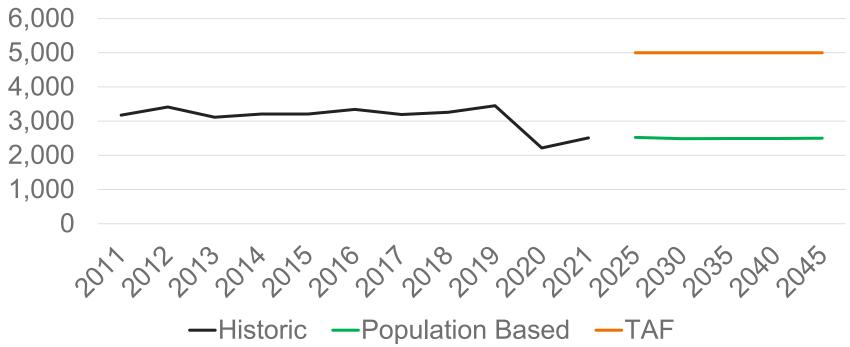
Inventory

- Nearing Completion
- What is on the Airport?
 - Lights, surface condition, weather reporting, support facilities
- What are persistent issues?
 - Erosion, Storm Surges, Crosswinds, Incursions, Birds





Forecast: Airport Operations



- Historically level
- Covid Dip
- Recent Rebound
- Critical Aircraft: Cessna C208B Grand Caravan

Wind Study

- Received Permission to Erect Temporary Wind Tower
- Measure winds near K-Hill
- Help evaluate suitability for an inland runway
- Connecting wind data with teachers, to allow school science projects



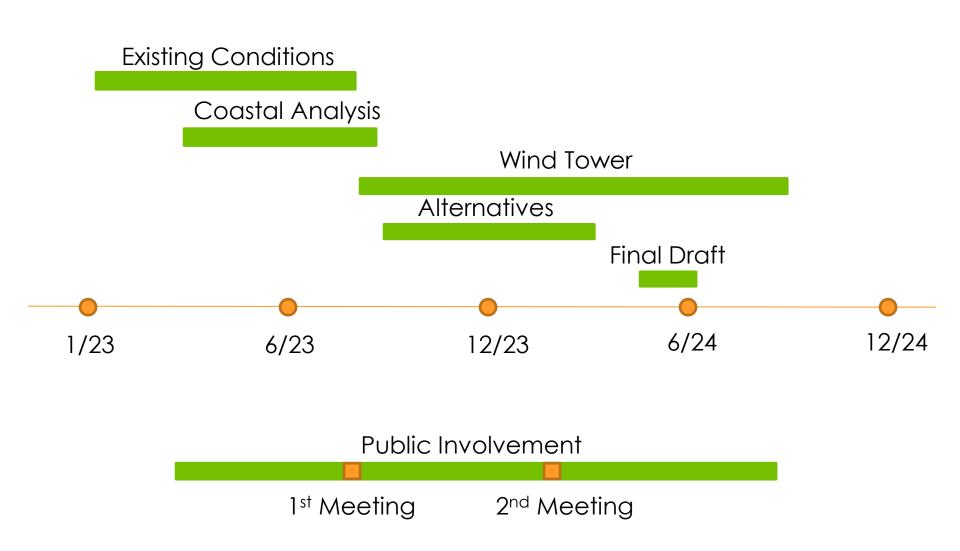
Environmental, Geotech, Hydrology

- Alternative Analysis will incorporate multiple rounds of screening
- Evaluate each alternative over multiple factors





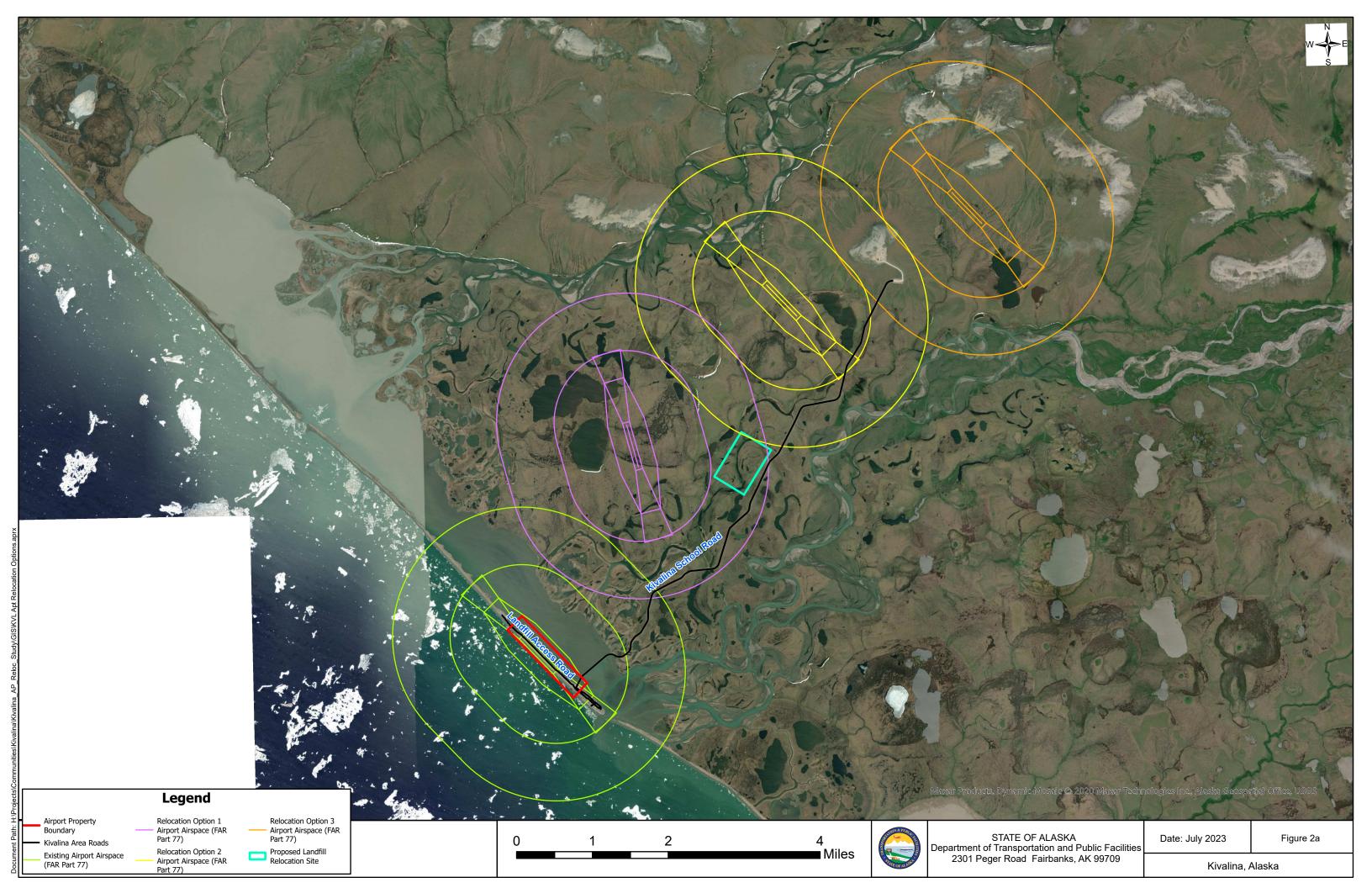
Schedule



Alternatives

Alternatives

- No Action
- Reinforce Current Location
- Inland Locations



Questions & Answers

Questions and Answers

Poster Boards

• Write comments on posters around the room

Comment Sheets

• Complete today, or mail/email them in

Verbal Comments

• Discuss with a team member today!

Website

https://dot.alaska.gov/nreg/kivalinaairport/