



Alaska Department of Transportation & Public Facilities

Barrow Airport Master Plan Update Wiley Post/Will Rogers Memorial Airport

August 19, 2013



Welcome!

- Introductions
- Timeline & process
- Where are we now
 - Forecast results
 - Facility requirements
 - Alternatives
- Next steps



Project team

- **ADOT&PF**
 - Jeff Roach
 - John Olsen
 - Technical advisors
- **FAA**
 - Pat Oien
 - Patti Sullivan
- **PDC Engineers**
 - Royce Conlon, PE
 - Patrick Cotter
- **Brooks & Associates**
 - Anne Brooks, PE
 - Camden Yehle
- **ABR Environmental Research**
- **Northern Economics**
- **Northern Land Use Research**



Public Participation Throughout

- We seek public input from airport users, businesses, air carriers, and you
 - Talk to Project Team
 - Watch web site:
<http://dot.alaska.gov/nreg/barrowmp/>
 - Attend public meetings, provide written or oral comments



Master Planning Steps

- Identify issues
- Inventory facilities
- Forecast aviation activity
- Determine facility requirements
- Develop and evaluate alternatives
- Prepare Implementation Plan





Where are we now?

- ✓ Identify issues
- ✓ Inventory facilities
- ✓ Forecast aviation activity
- ✓ Determine facility requirements
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Forecast



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Forecast

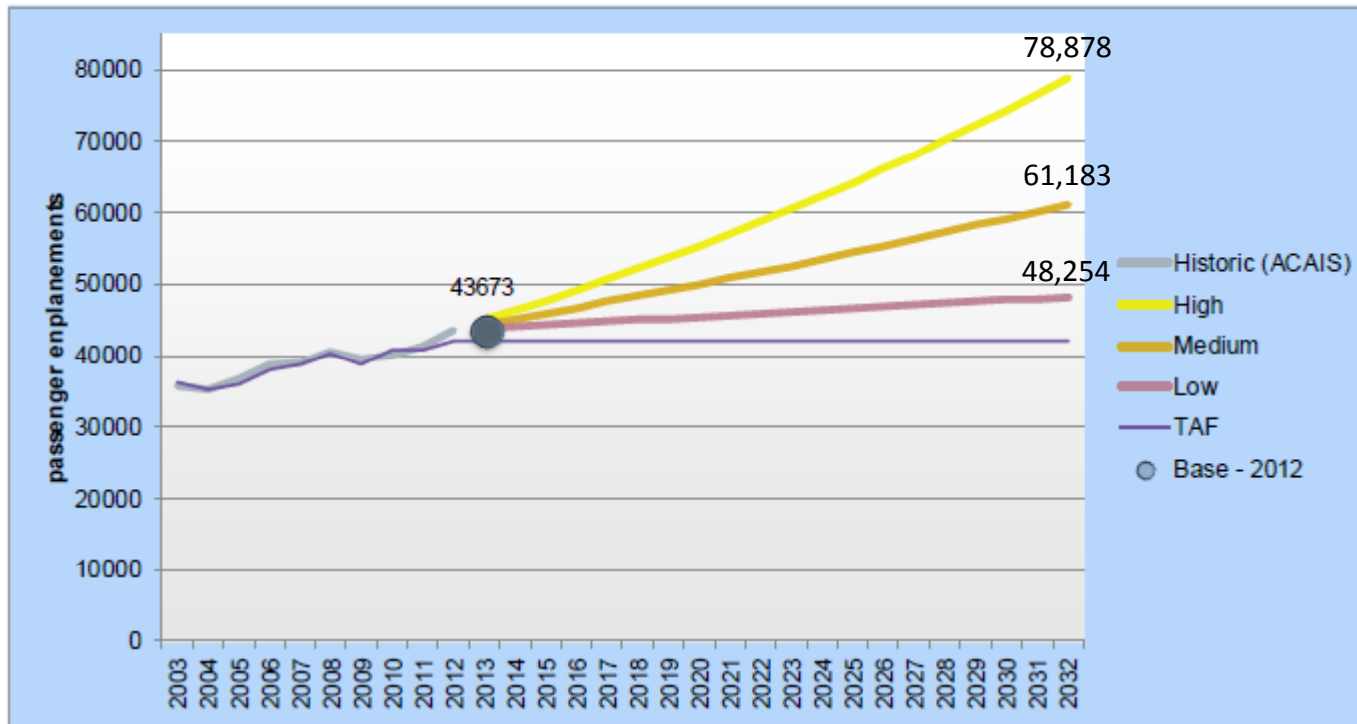
- Three Scenarios

1. **Low growth** (0.5%) – minimal oil exploration; population grows at historic rates; world economies flat
2. **Medium growth** (1.7%) – continued oil exploration; USCG presence; population growth at recent rates
3. **High growth** (3.0%) – increasing offshore exploration; new onshore exploration; USCG facility development; increasing population





Forecast



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Facility Requirements

- Design aircraft – 737-700 & 737-800
- Airport shortcomings
 - Runway length
 - Lease lot size & availability
 - Storage space for runway de-icing chemicals & sand
 - Vehicle parking and circulation
 - Security fencing
- No capacity-related issues





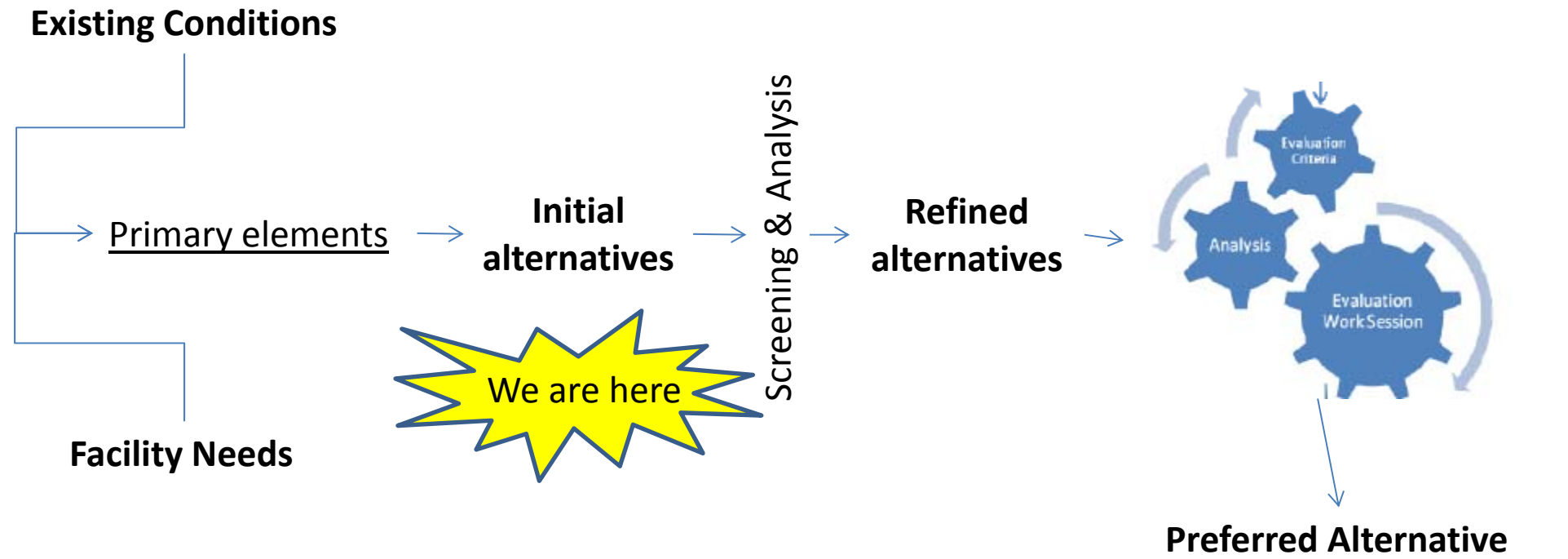
Alternatives

- Formulate alternative development scenarios
- Evaluate impacts of each alternative
 - Environmental
 - Financial
 - Socioeconomic
 - Feasibility
- Select preferred alternative





Alternatives Development Process





Alternatives – Primary Elements

- Airside
 - Parallel taxiway(s)
 - Apron expansion
 - General Aviation relocation
- Landside
 - Existing lease lot expansion
 - New lease lots
 - M&O land reserve
 - Special land use reserve
 - Ahkovak Street realignment





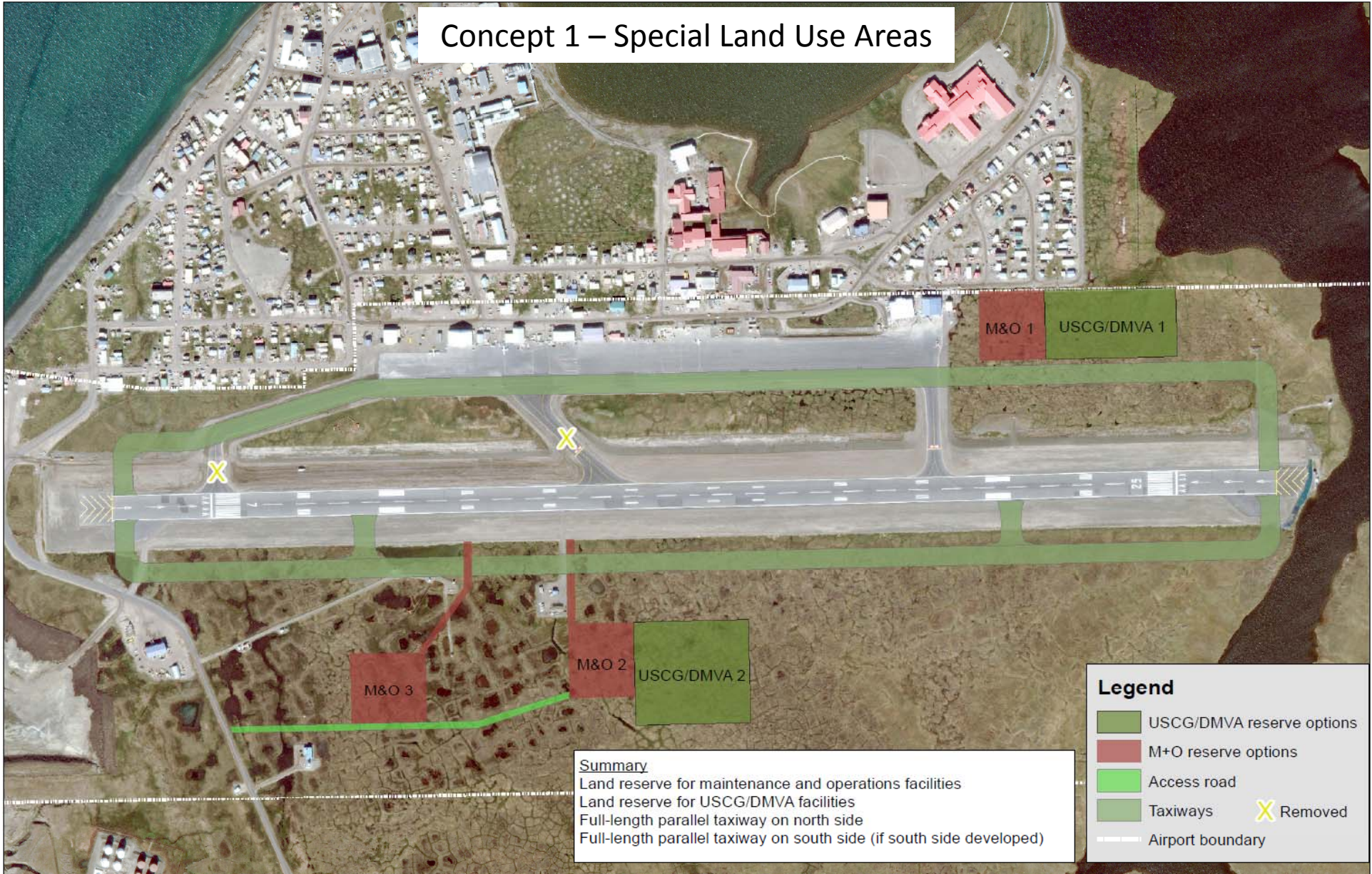
Alternatives

- Alternatives dropped from further consideration
 - Airport relocation
 - Extending runway into lagoon or ocean
 - Crosswind runway



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Concept 1 – Special Land Use Areas



Summary
Land reserve for maintenance and operations facilities
Land reserve for USCG/DMVA facilities
Full-length parallel taxiway on north side
Full-length parallel taxiway on south side (if south side developed)

Legend

- USCG/DMVA reserve options
- M+O reserve options
- Access road
- Taxiways
- Removed
- Airport boundary

Concept 2 – New Commercial Lease Lot Areas

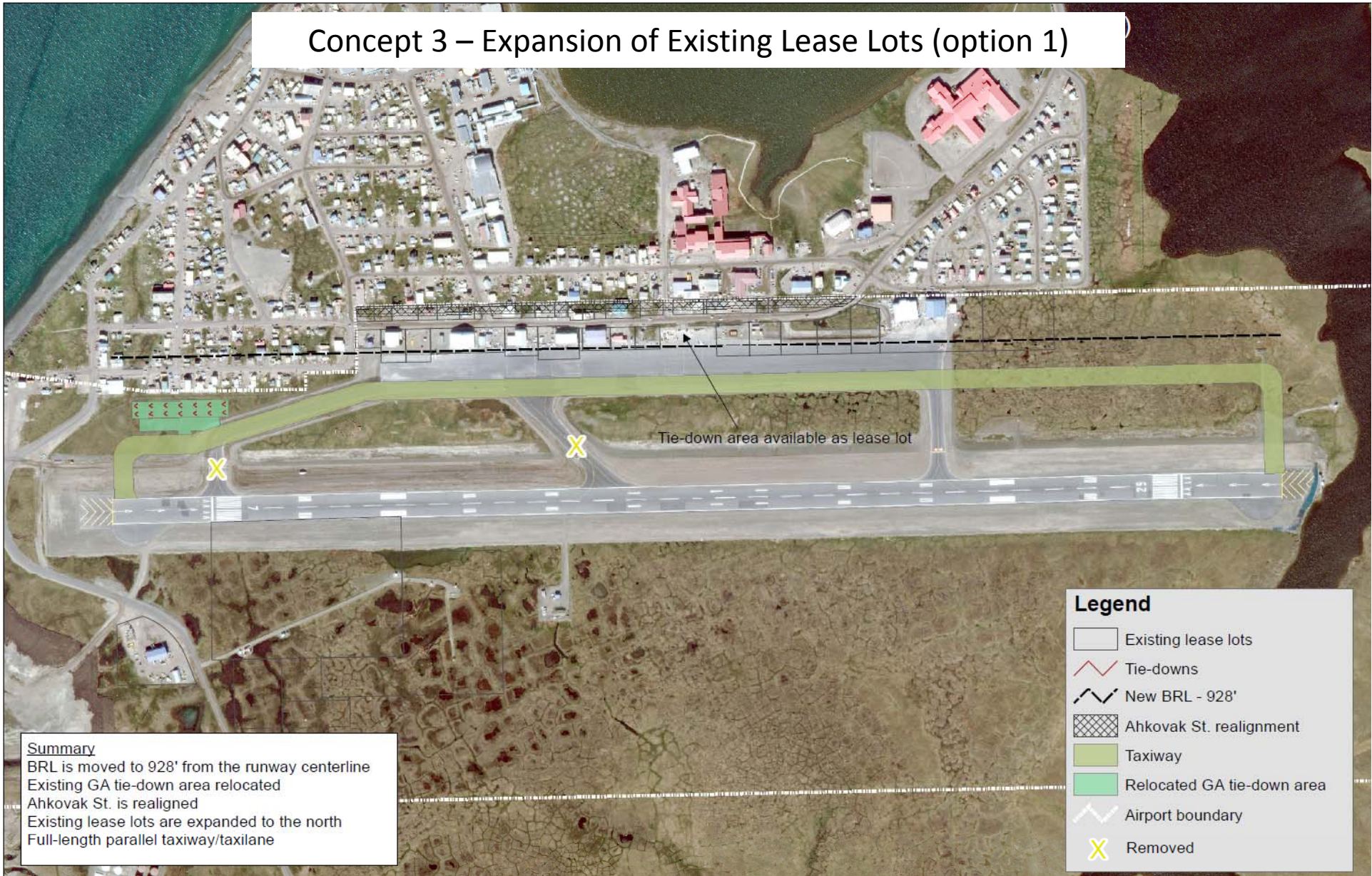


Summary

- New commercial lease areas
- New access roads to new commercial lease areas
- Full-length parallel taxiway on north side
- Full-length parallel taxiway on south side

*Commercial lease areas could shift based upon placement of special land uses

Concept 3 – Expansion of Existing Lease Lots (option 1)



Summary
BRL is moved to 928' from the runway centerline
Existing GA tie-down area relocated
Ahkovak St. is realigned
Existing lease lots are expanded to the north
Full-length parallel taxiway/taxilane

Legend

- Existing lease lots
- Tie-downs
- New BRL - 928'
- Ahkovak St. realignment
- Taxiway
- Relocated GA tie-down area
- Airport boundary
- Removed

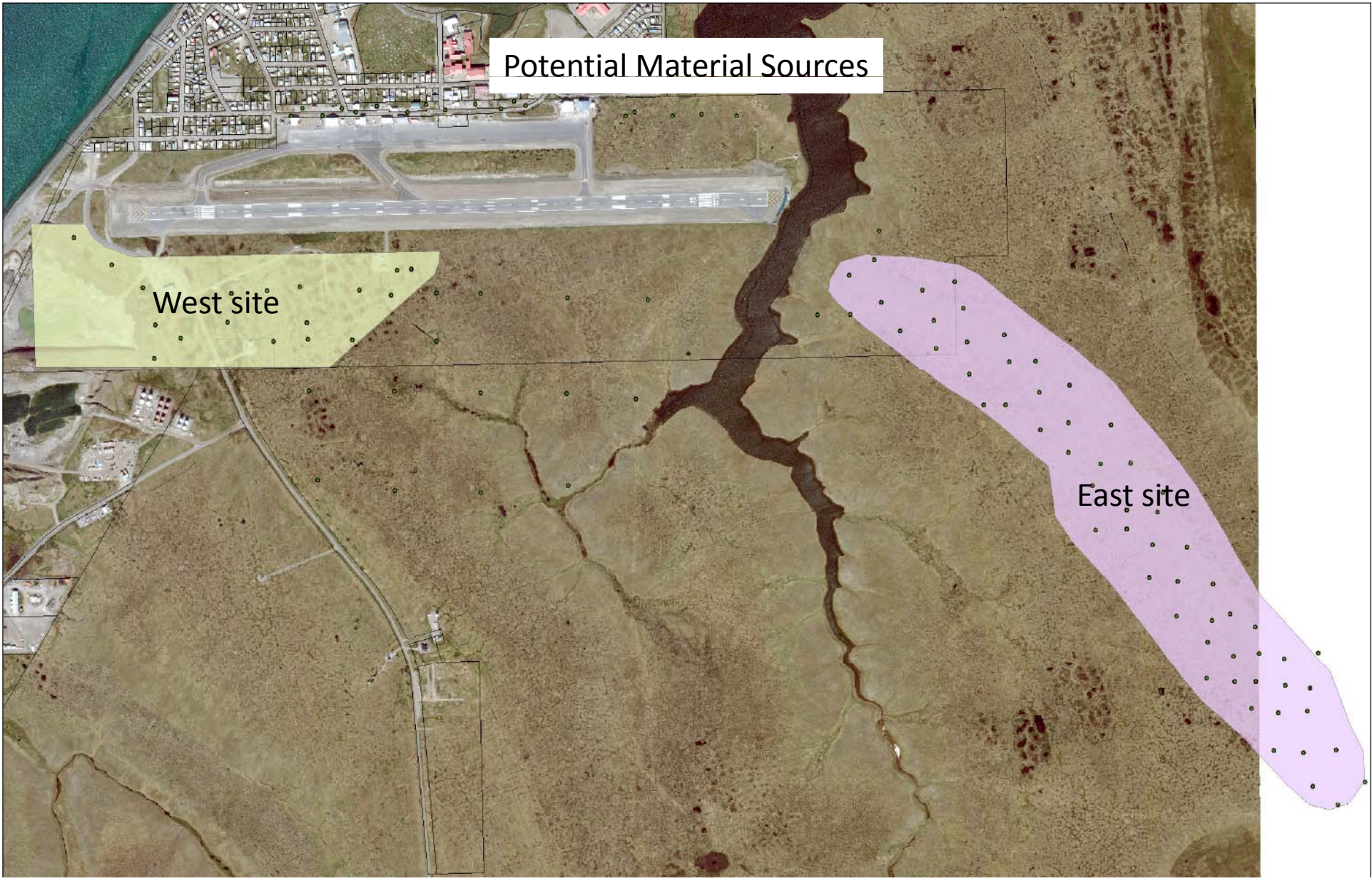
Concept 4 – Expansion of Existing Lease Lots (option 2)



Potential Material Sources

West site

East site





Alternatives - Evaluation

- Where do we go from here?
 - Environmental Analysis
 - Wetlands, wildlife, fisheries, water quality, cultural resources
 - Engineering Analysis
 - Construction costs, safety, “good” engineering
 - Financial Analysis
 - Funding availability, M&O costs, benefits
 - Socioeconomic Analysis
 - Subsistence impacts, business impacts



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Implementation Plan

- Short-, mid-, and long-term projects
- Project cost estimates
- Funding options & eligibility



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Master Plan Document

- Draft master plan
 - Public meeting #3
 - 30-day public comment
- Final master plan
- Airport Layout Plan (ALP)





Thanks for your participation

- Public input is key to the success of this project – you know your community and its needs
- Please provide comments:
 - <http://dot.alaska.gov/nreg/barrowmp/>



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Questions?



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