



Welcome to the Open House

Feasibility Study Objectives



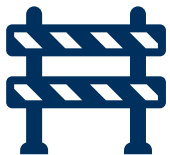
Evaluate prior studies and perform additional fieldwork to determine cost and environmental feasibility for more reliable and resilient transportation along Lynn Canal



Goal is to inform future transportation planning and funding decisions along Lynn Canal



Draft Study is scheduled for December 2025



No funding for environmental, design, or construction phases yet

Avalanche Risk & Mitigation

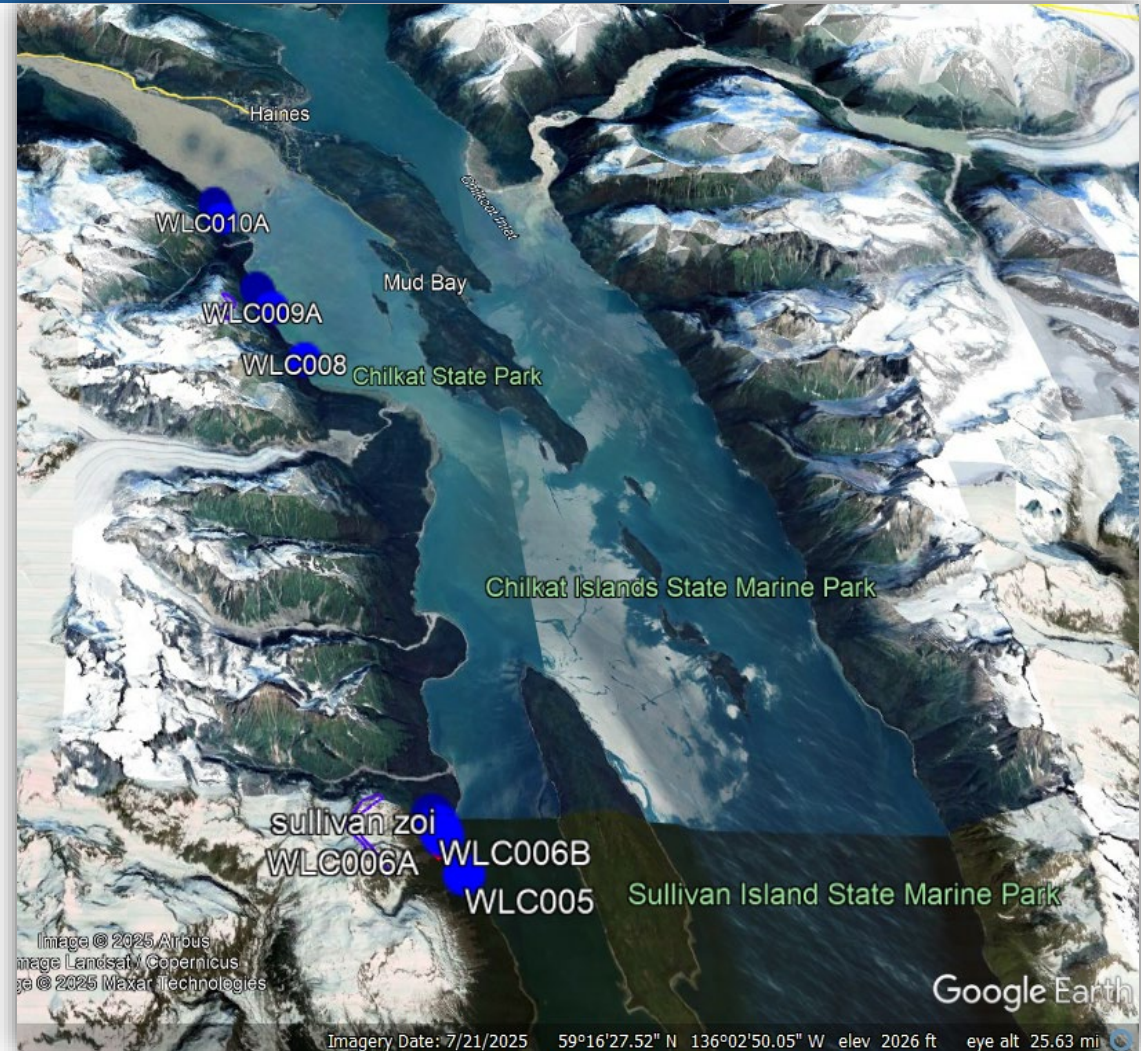


► Two Main Zones of Interest

- Sullivan Area (South – 005, 006A-C)
- Rainbow Area (North – 008, 009A, B and 010A-D)

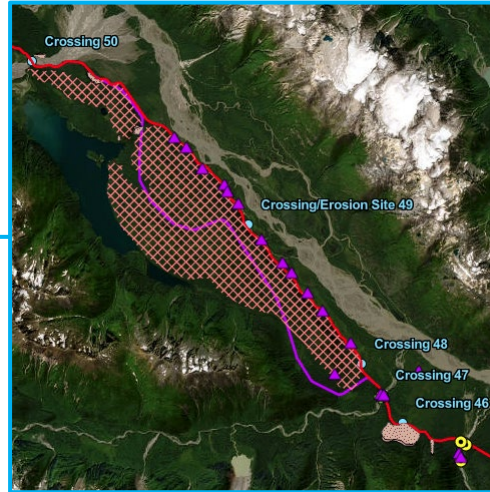
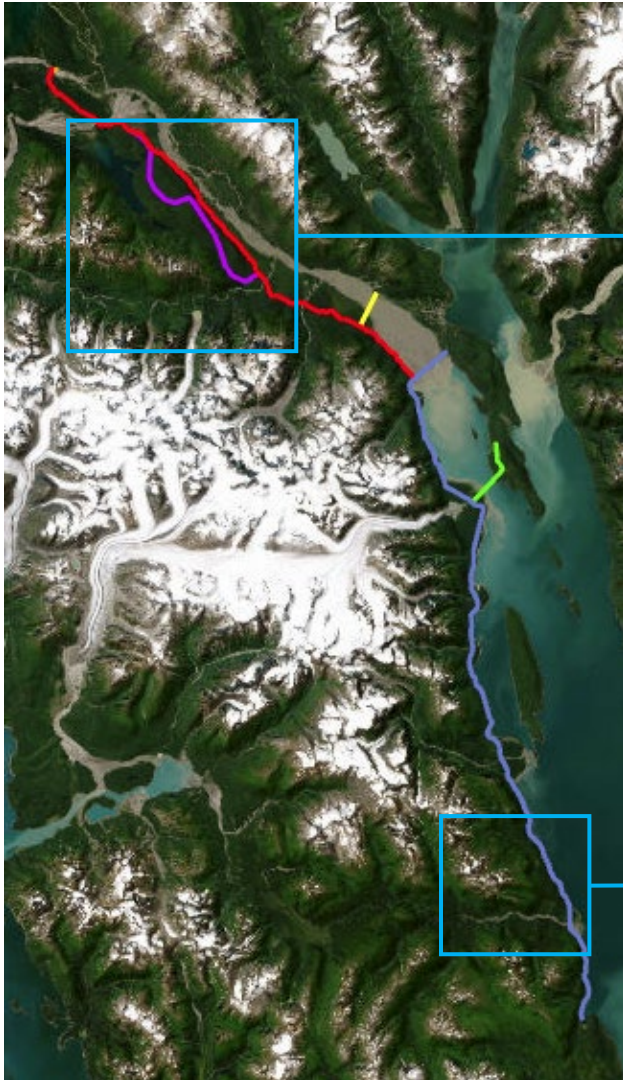
► Mitigation Strategies

- Forecasting Program with new weather stations & avalanche detection
- Artillery is no longer an acceptable option. Use Remote Avalanche Control Systems (RACS) instead
- Road closest to inlet reduces hazard
- Thoughtful bridge structure/configuration to withstand impacts
- MSE Mounds & Deflection Dams to reduce road impacts
- Snowsheds to be evaluated at critical locations



Satellite Imagery of Avalanche-Prone Areas

Road Challenges



Cliffs, rockfall, and wetlands from approximately crossing 48 to 50



Sinkhole and rockfall hazards between crossings 6 and 10

► Cliffs : Crossing 48 to Crossing 50

- Alternative 1: Combination of high rock cut and potential viaduct
- Alternative 2: “Inland” alignment near Chilkat Lake climbing to an elevation of approximately 1,300ft.



► Karst Area: Crossing 6 to Crossing 10

- Potential sink hole risk between Crossings 6 to 10.
- Rockfall hazard present between Crossing 6 to 9.

Hydrologic, Hydraulic & Coastal



View of West Lynn Canal Watersheds

What has been done?

- Analysis of terrain data to identify watersheds and crossing locations along the alignment
- Reviewed existing hydrologic and coastal studies of the area
- Visited the site to collect qualitative data to characterize channels based on size and geomorphic features

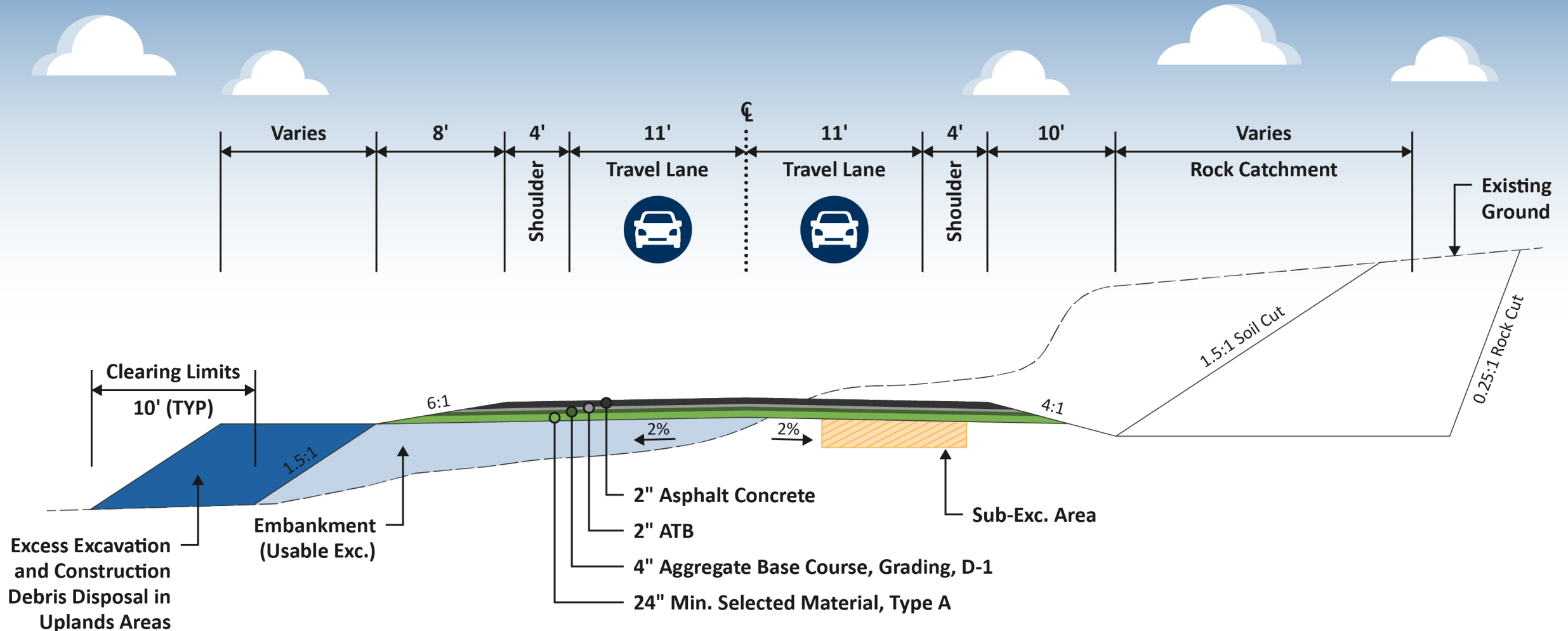
What have we found?

- The alignment crosses 50 watersheds
- Three watersheds are glaciated in which Glacial Lake Outburst Floods likely occur, posing a risk to potential infrastructure
- Six crossings are on alluvial fans, which adds some complexity in identifying crossing locations
- Crossings range from minor anadromous streams to large complex rivers

How does this inform the study?

- **Coastal:** identifies risks to the alignment associated with extreme water levels, tsunamis, erosion, and wave climate
- **Hydrologic and Hydraulic:** identifies risks to the stream/river crossing locations associated with the stability of the channels and the amount of water that needs to be passed under the alignment

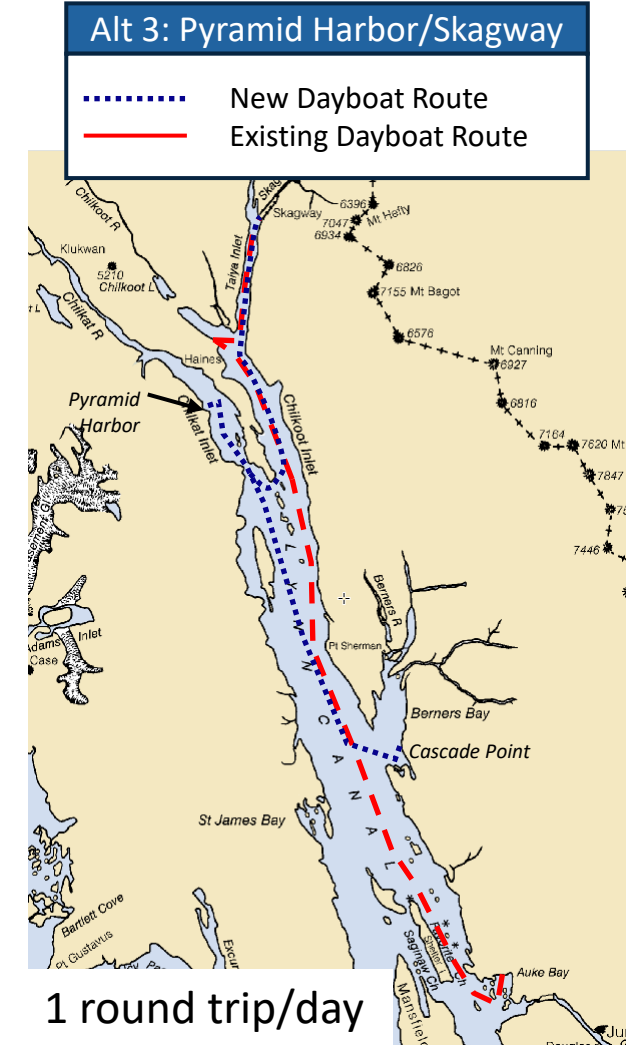
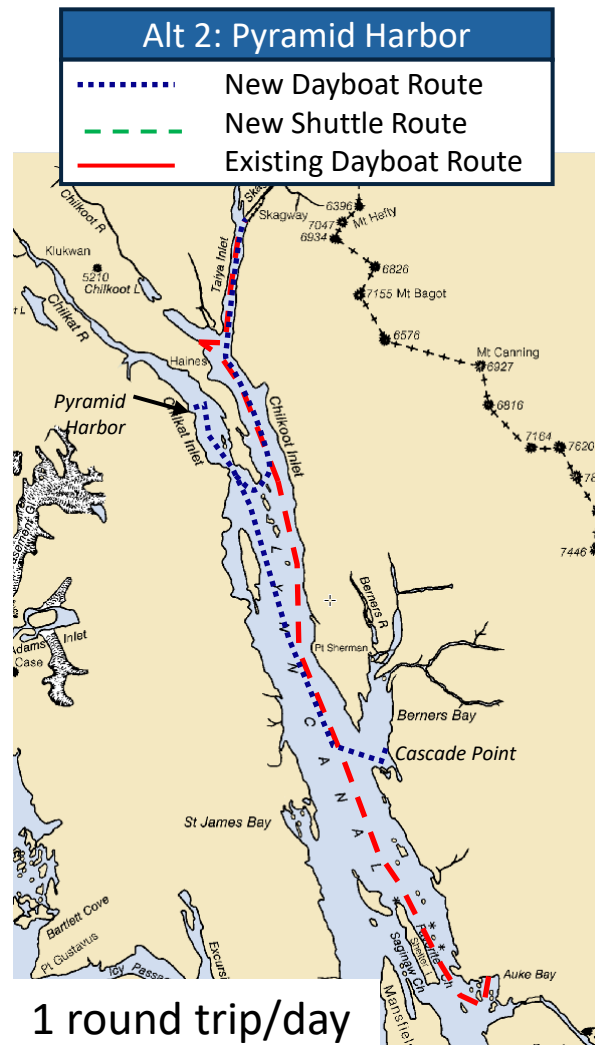
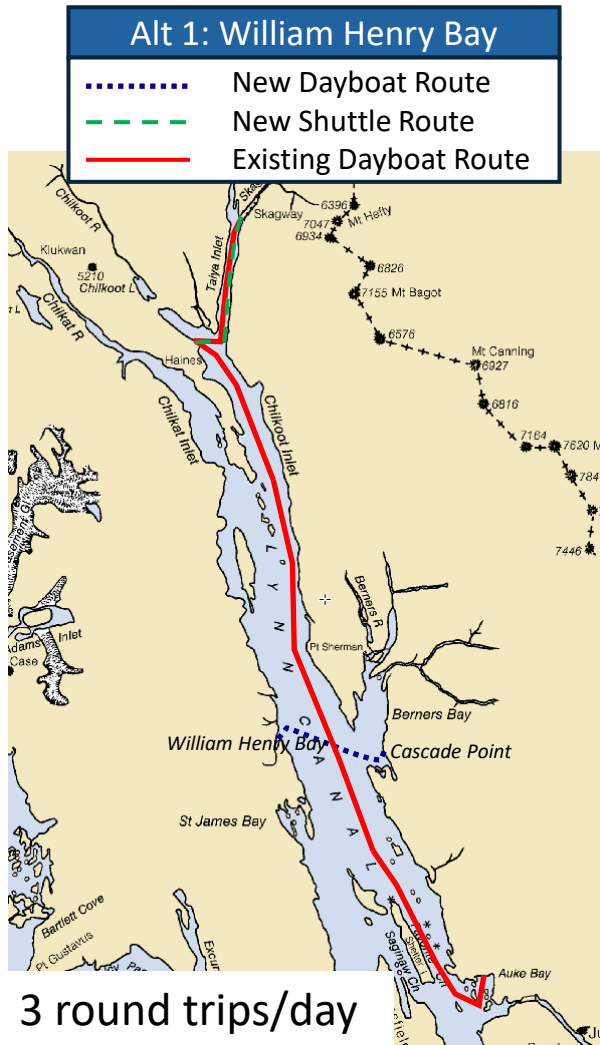
Road – Typical Sections



Alaska Marine Highway System



NOTE: Existing dayboat service between Auke Bay, Haines, and Skagway would be replaced.



Route Comparison



FERRY CROSSING TIMES:

	Projected Cascade Point to William Henry Bay (One Way)	Projected Cascade Point to Pyramid Harbor (One Way)	Projected Cascade Point to Haines (One Way)	Existing Auke Bay to Haines (One Way)
Approximate One-Way Crossing (in hours)*	1.25	3.25	3.75	4.75**
Potential Trips/Day	3	1	1	1
Daily Vehicle Capacity/Boat	318	106	106	106

*These estimated crossing times include loading/unloading, but no waiting time at a ferry terminal. ** AMHS published crossing time.

ROAD DISTANCES:

1. Estimated distance from William Henry Bay to Pyramid Harbor via road is 37 miles.
2. Estimated distance from Pyramid Harbor to Haines (Downtown) via road is 53 miles. However, if one bridge is incorporated across Chilkat Inlet, this mileage can be reduced to approximately:
4 miles via Pyramid Island **OR** 10 miles via Regional Airport **OR** 20 miles via Mud Bay

Note: Existing distance from Haines Ferry Terminal to Haines Downtown is 4 miles.

East Side vs West Side of Lynn Canal



Analysis conducted in 2018 Juneau Access Final SEIS – Example Impacts

	Avalanche Paths	Karst	Wetlands Impacts	Intertidal & Subtidal Marine Habitat	Old-Growth Forest Impacts	Bald Eagle Nests
East Lynn Canal	41	No	61 acres	32 acres	412 acres	137 within 0.5 miles
West Lynn Canal	19	Yes	26 acres	12 acres	308 acres	79 within 0.5 miles

Thank you!



DOT&PF

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