

# BEACH FRINGE RESTORATION

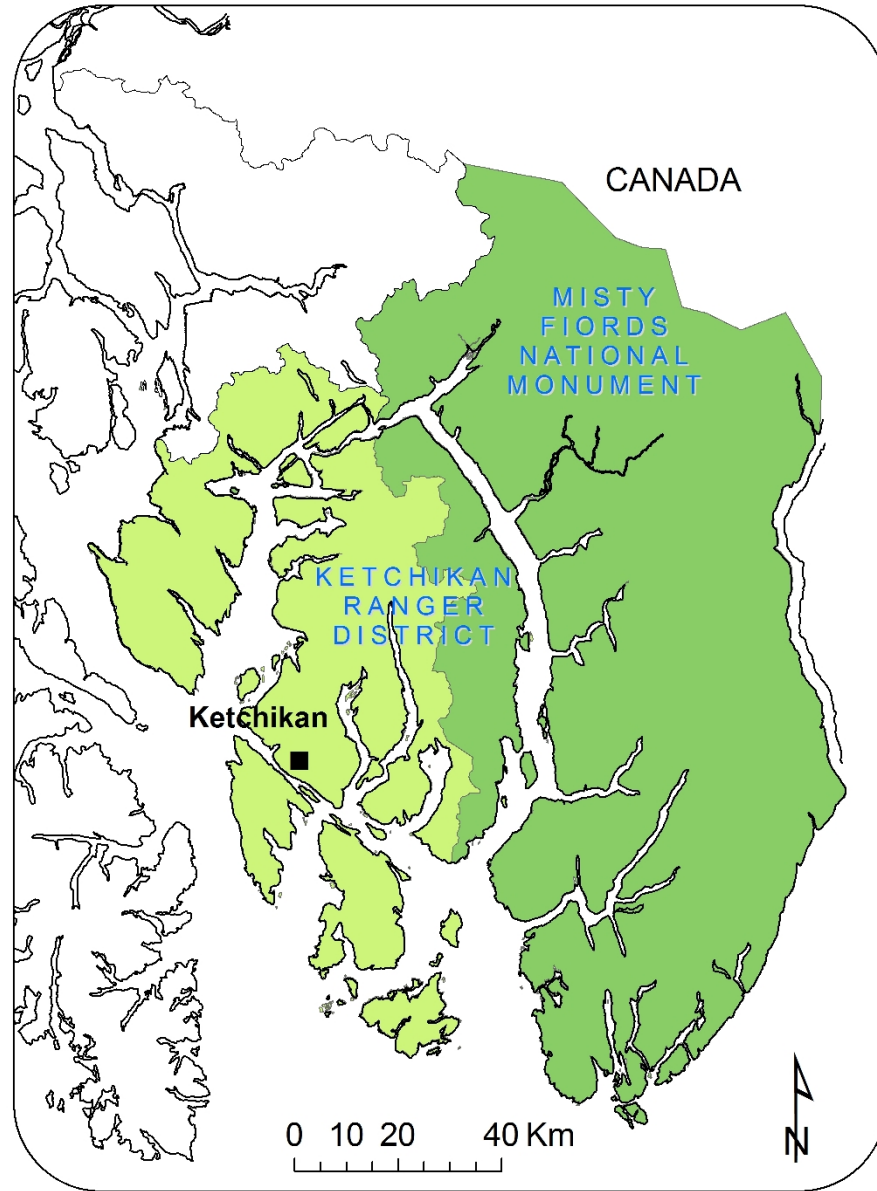
- This is a restoration project.
- All stands are within Non Development Land Use Designation (LUDs).
- Wood material will be removed from the treated stands as a slash treatment.
- Commercial utilization of removed material will help offset treatment costs.
- These are one time treatments.

# The Setting



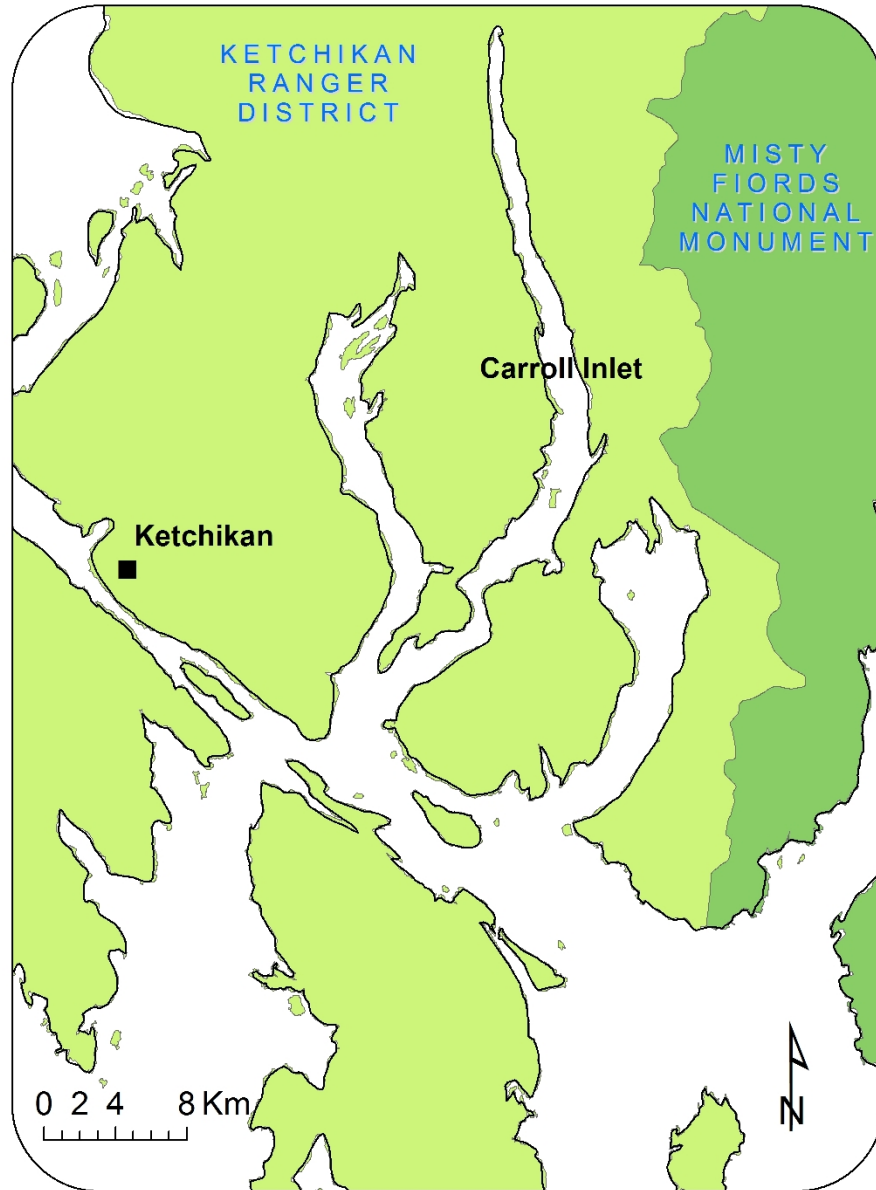
# Tongass National Forest





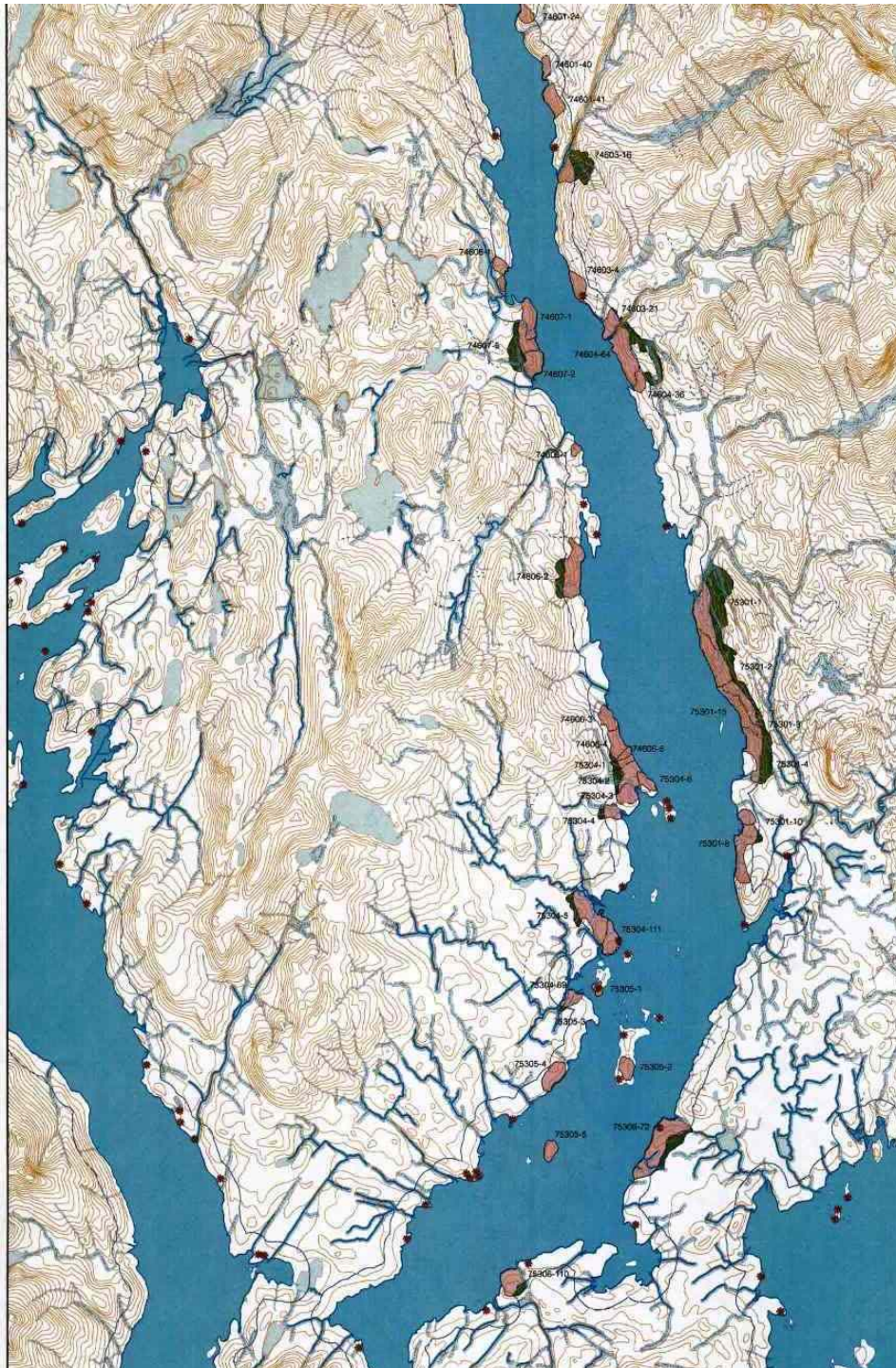
# Ketchikan Misty Fiords RD





# Carroll Inlet





A photograph of a coastal landscape. In the foreground, there is a body of water with small, dark ripples. The middle ground shows a dark, pebbly beach. Behind the beach is a dense forest of tall, dark green coniferous trees. The sky is a pale, overcast white. The text 'Beach Fringe' is centered in the upper half of the image, and 'Non Development LUD' is centered below it.

# Beach Fringe

Non Development LUD

# Objectives



# Reintroduce Biodiversity Into Stem Exclusion Stands



# Accelerate the Transition to Old Growth Characteristics



# Improve Wildlife Habitat



# Goals



# Open Portions of Stands to:

- Facilitate understory development
- Promote a multi structured stand



# Protect Patches Within Stands for:

- Snow intercept
- Thermal cover
- Security



# Connect Openings and Patches with Large Crowned Trees



# Protect and Create:

- Snags
- Large, down woody debris
- Older, large residual trees
- Western Red Cedar



# Challenges



# Logistics



# Gap Size



# Wind



# Slash



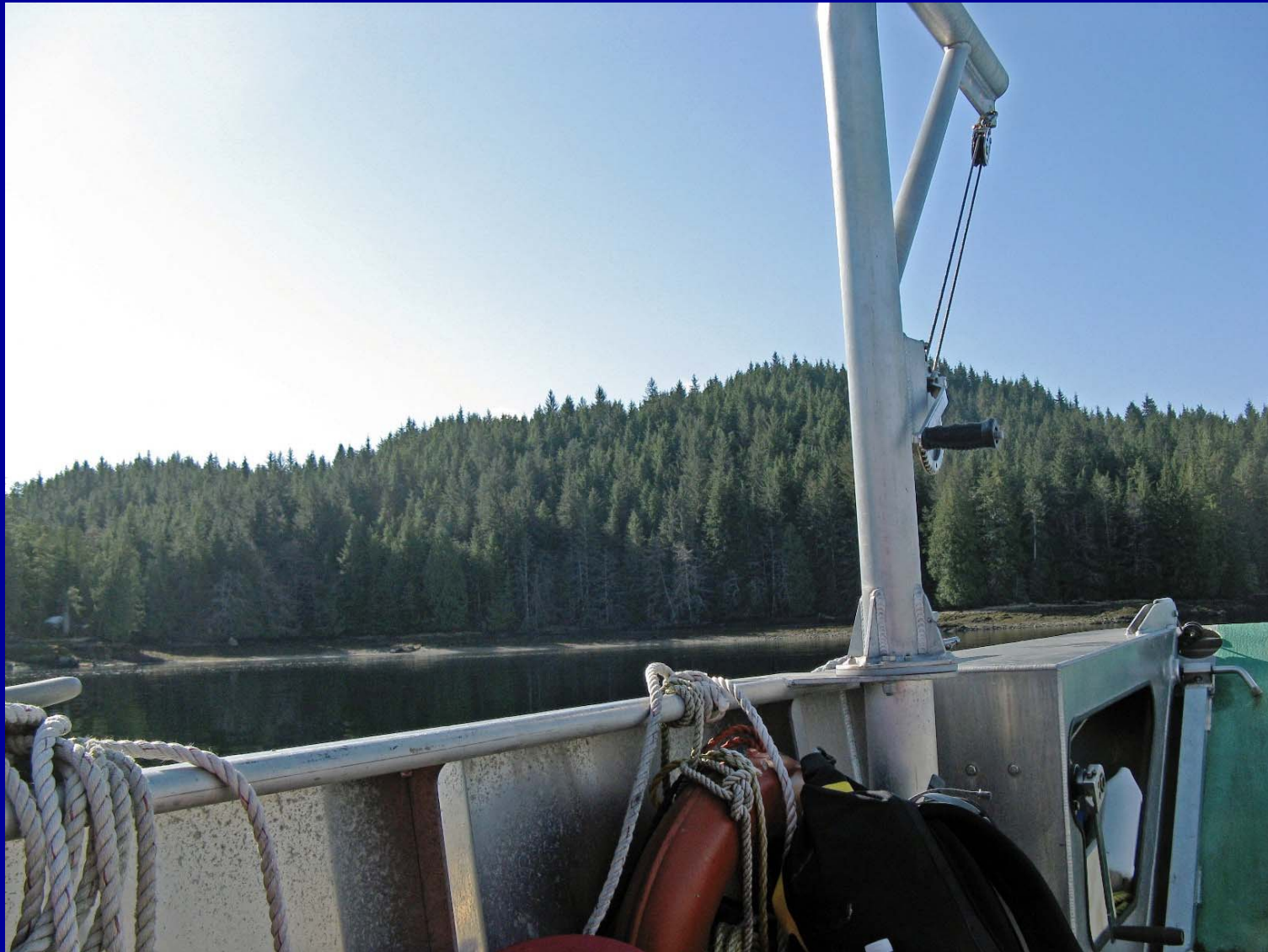
# Treatment Cost



# Non Development LUD



# Opportunities



- A progressive Logger
- A willing ranger district
- Committed conservation groups



# Older Young Growth



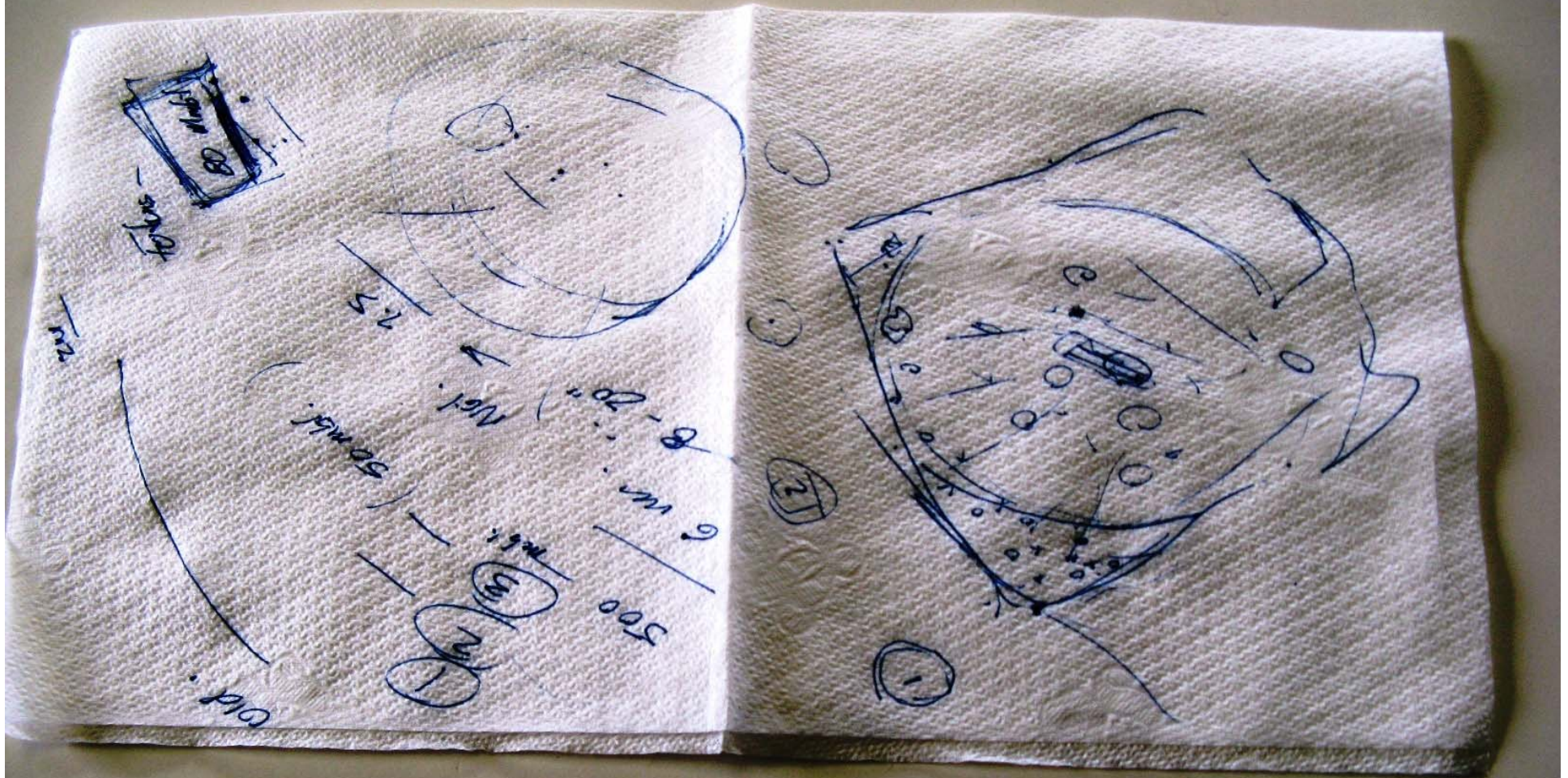
# An Existing Infrastructure



# A Market for Wood Removed from Treatment Area



# Our Plan!



- Variable Density Thinning

# Skips



# Gaps



# Thin From Below to Connect Skips and Gaps



Retention

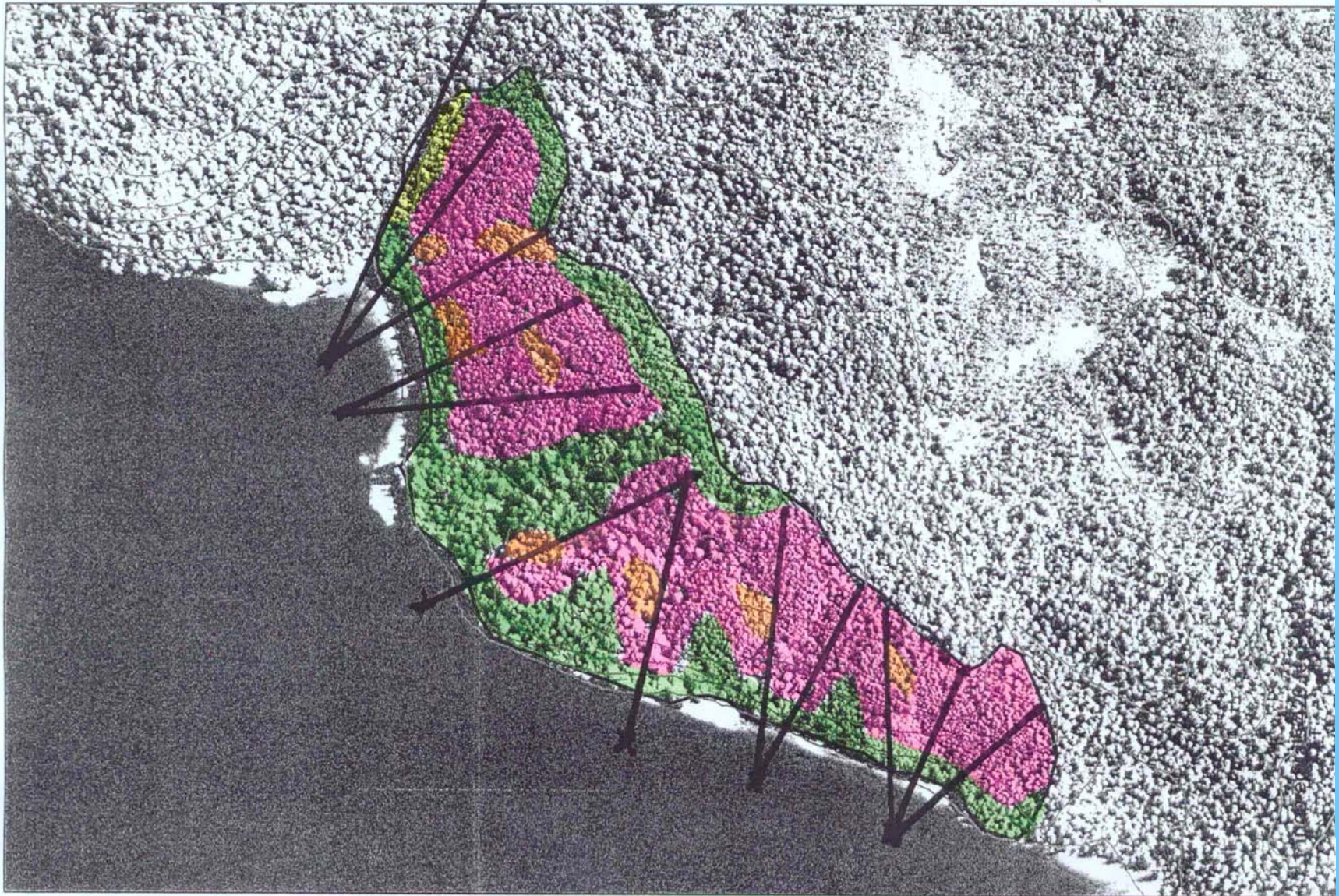
Low Retention

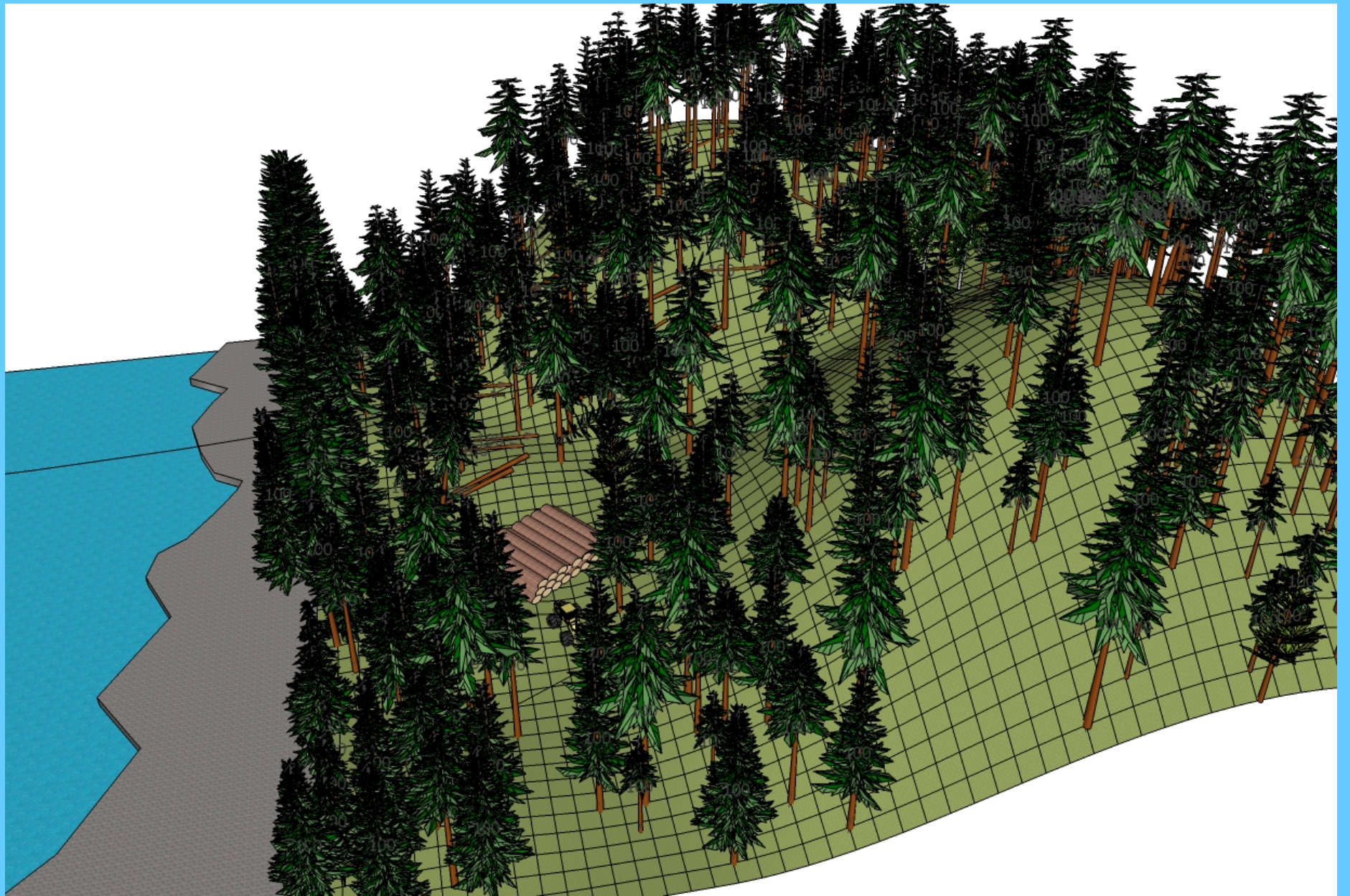
Profiles

High Retention

Medium Retention

4/29/09 RR



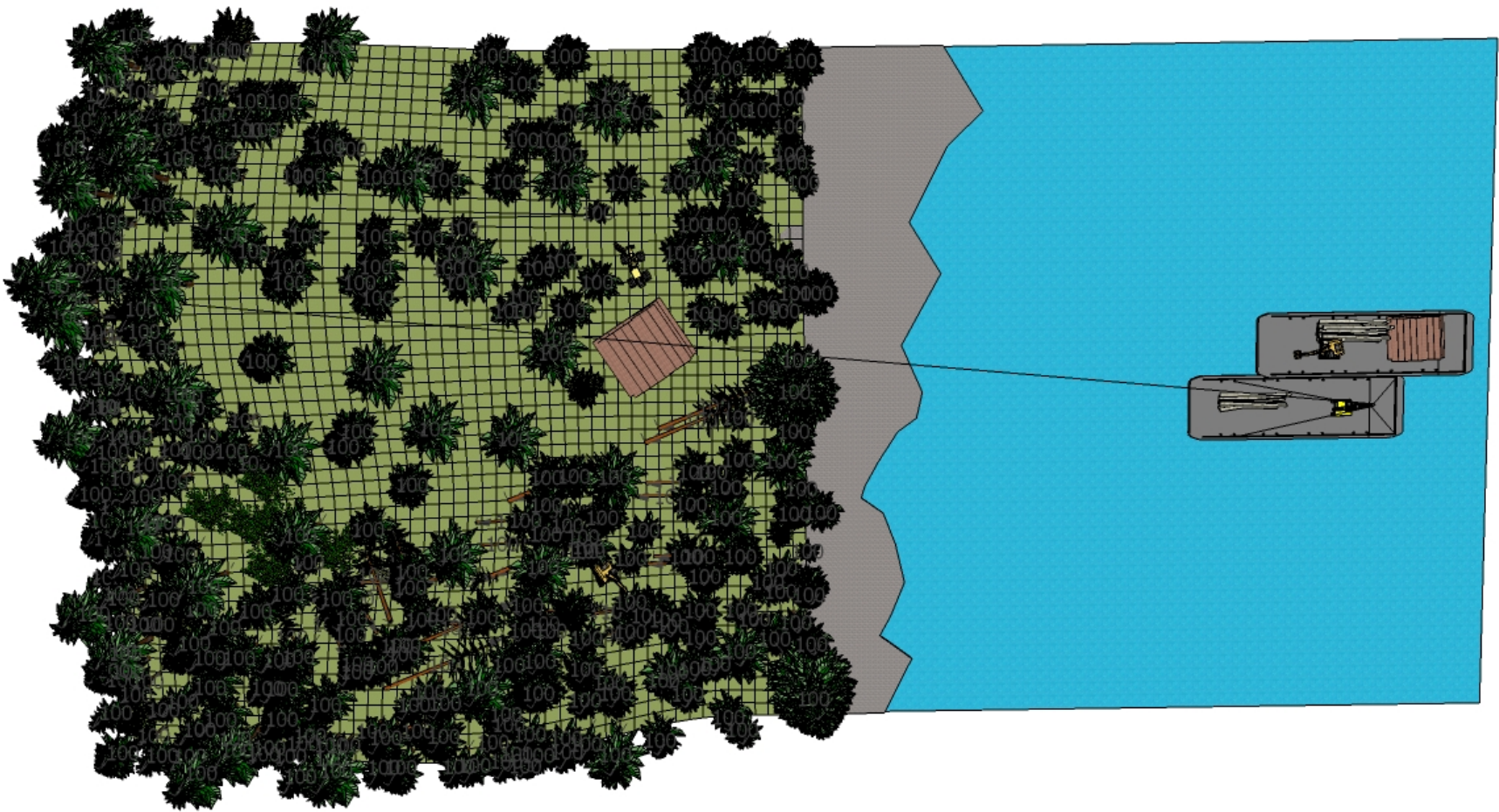


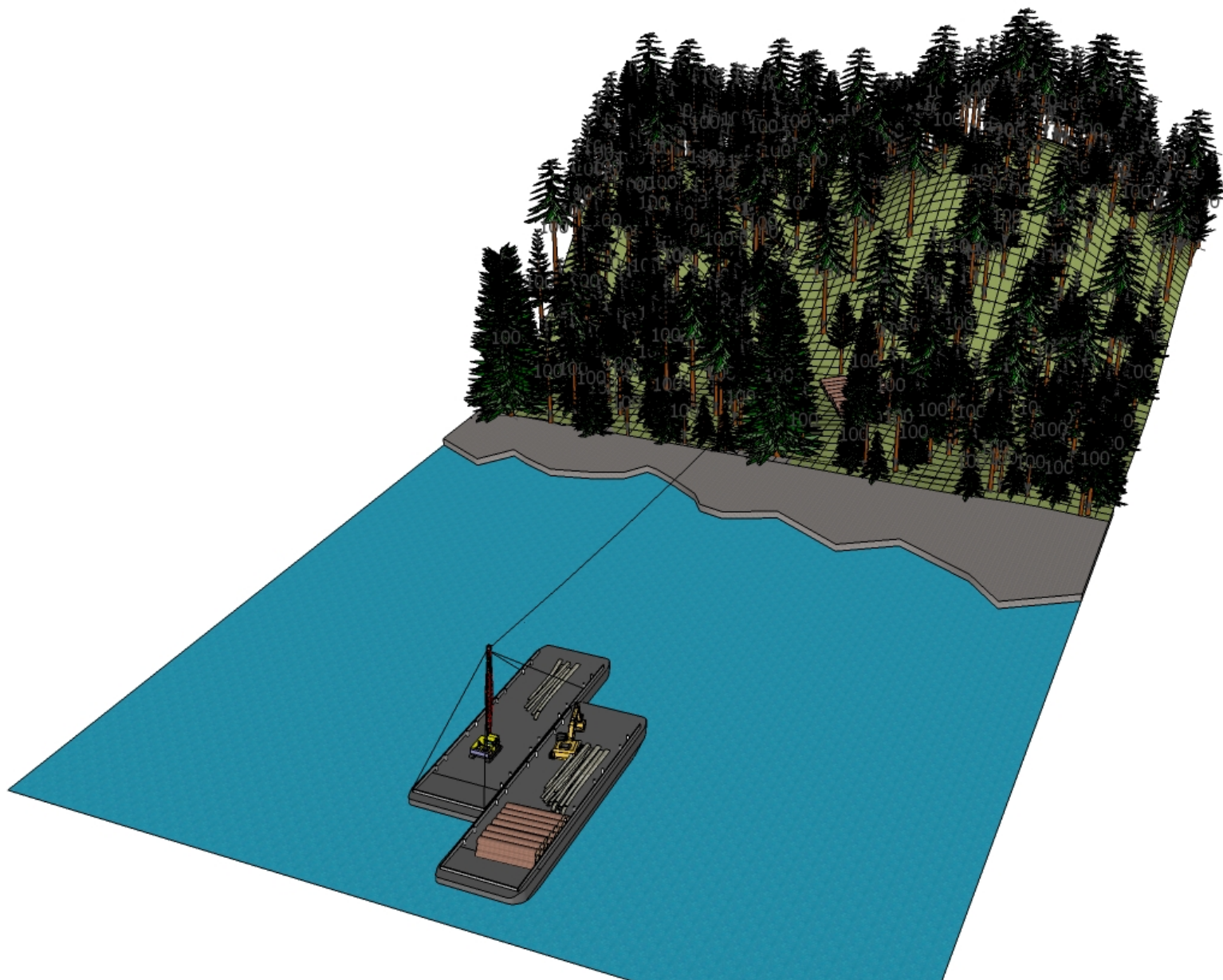
# Operation

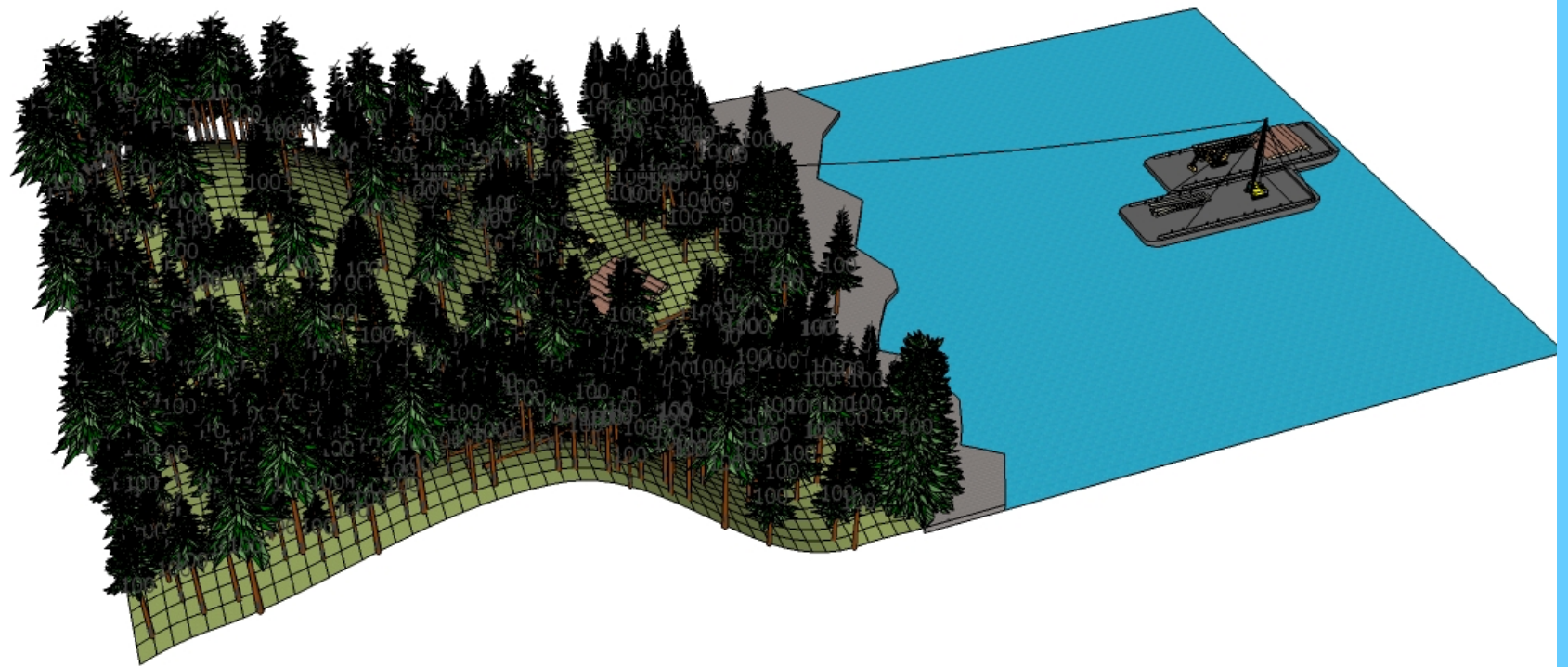
- Marine based-no roads
- Barge with skyline
- Barge supported ground equipment
- Processing and sorting on barge
- Non commercial wood chipped and returned to stand











# Ground Equipment



© Plustech Oy

# High Priority Stands



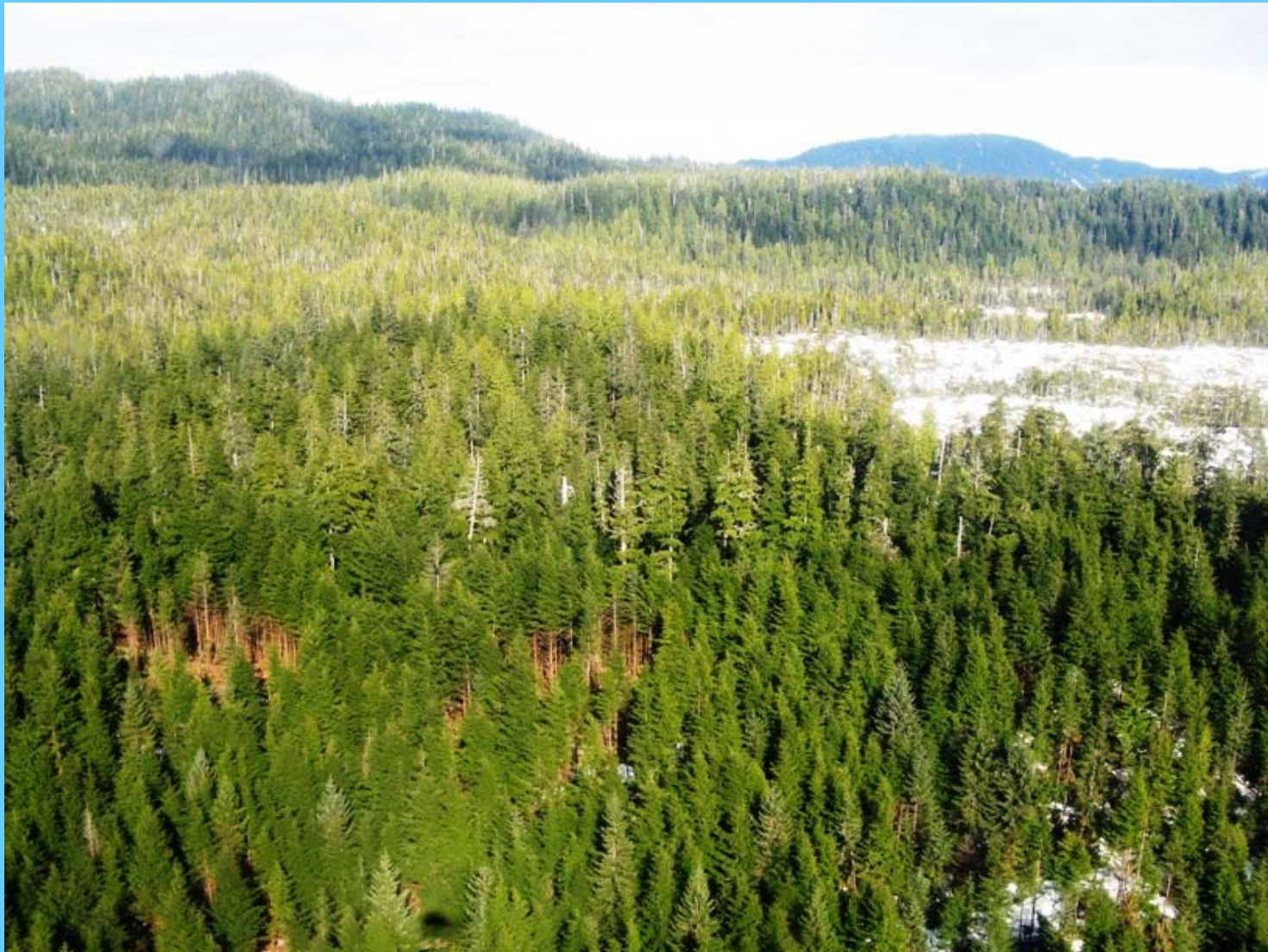
# Stands With Stem Exclusion



# Stands With Low Variability



# Wind Protected Stands



# Stands With Operational Feasibility



# Stands important for Deer Winter Range



# Low Priority Stands



# Stands With Existing Variability



# Stands With Severe Slope



# Wind Prone Stands



# Stands With Undesirable Understory



