Cowichan Lake Water Levels
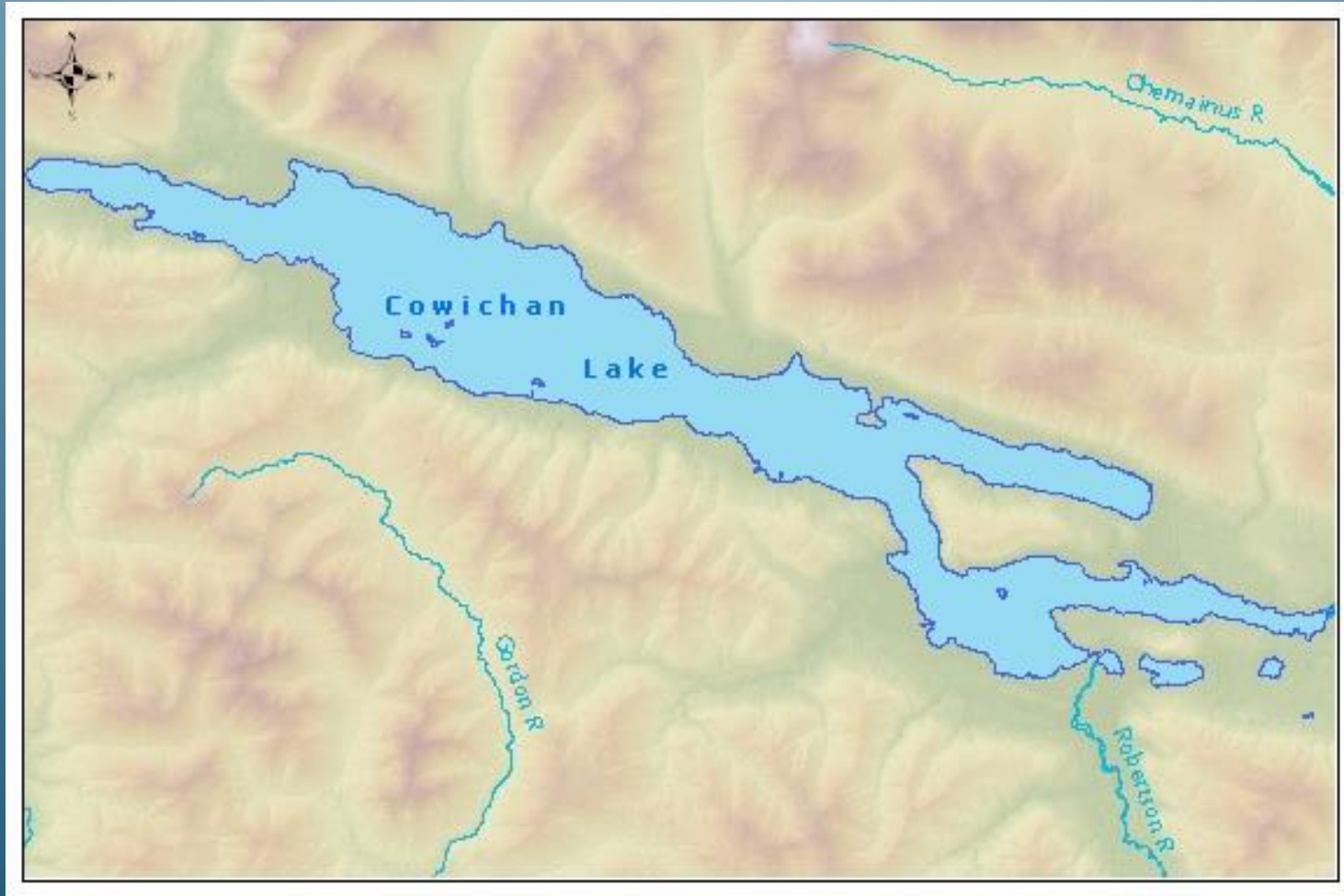

Prepared for the Cowichan Watershed Board
LiDAR Project Phase 1

- **Water Levels and Project Objective**
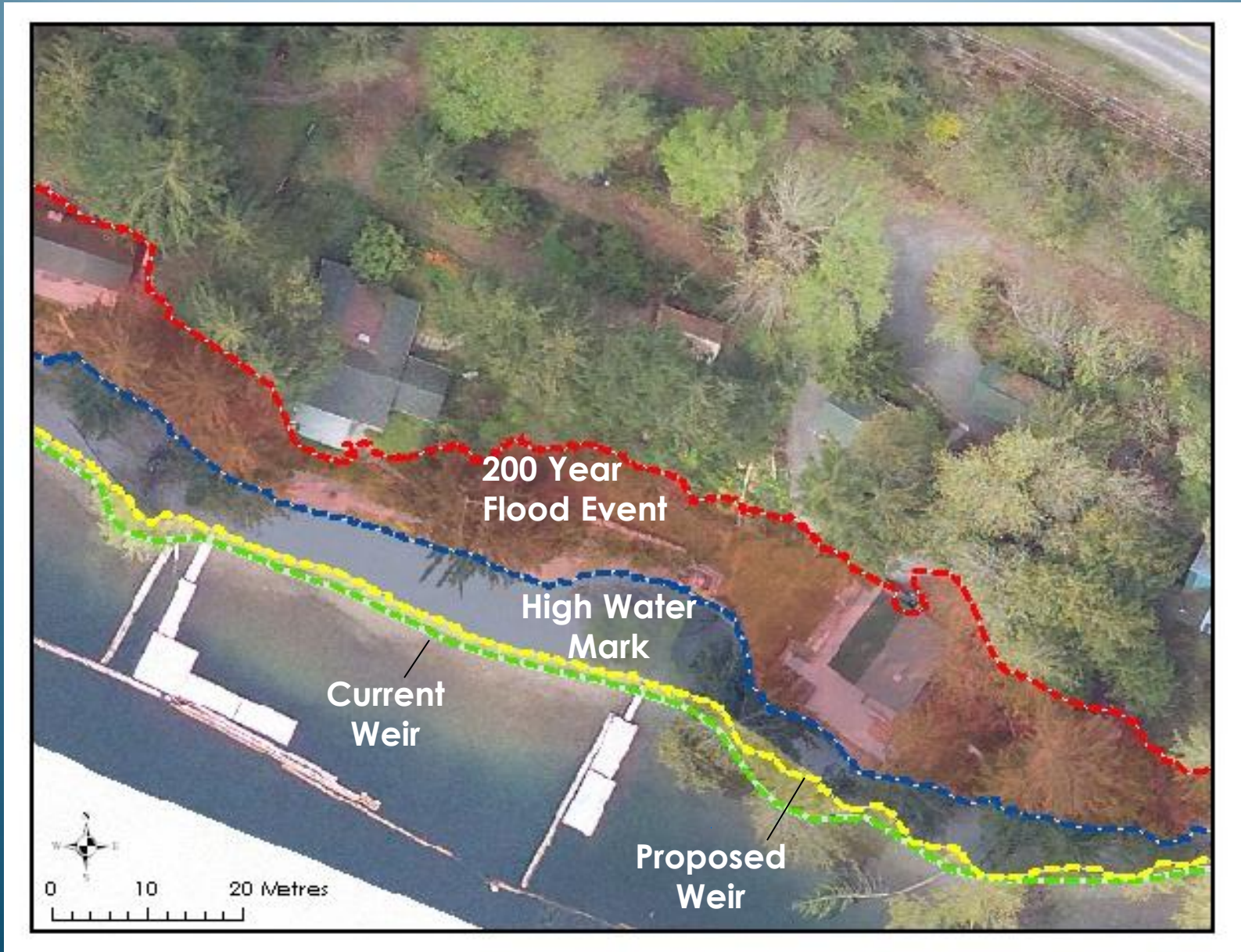
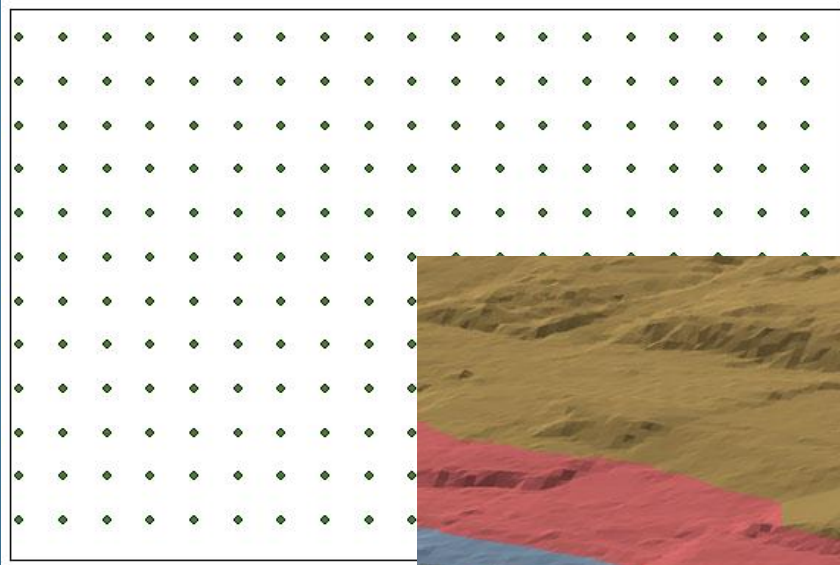- **Data**

- **Analysis**
  - **Horizontal distance**
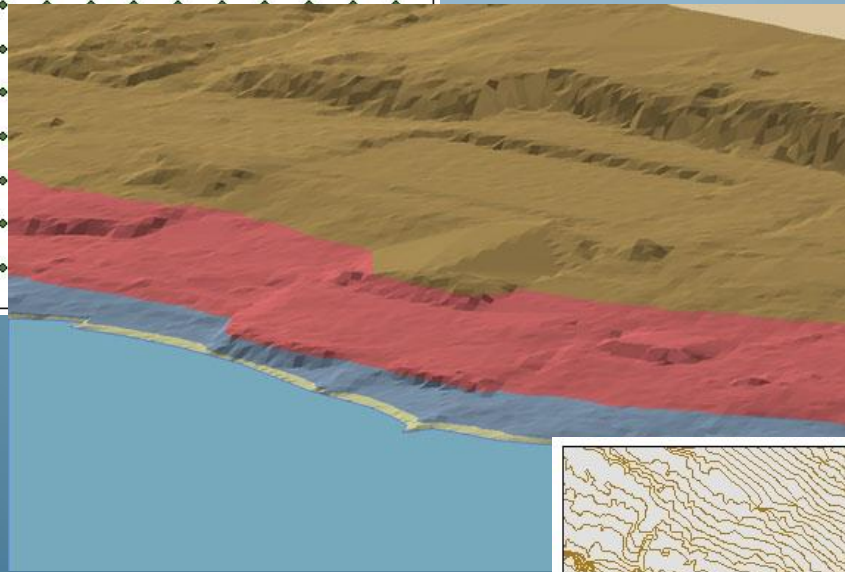 - **Property boundaries**

- **Observations**

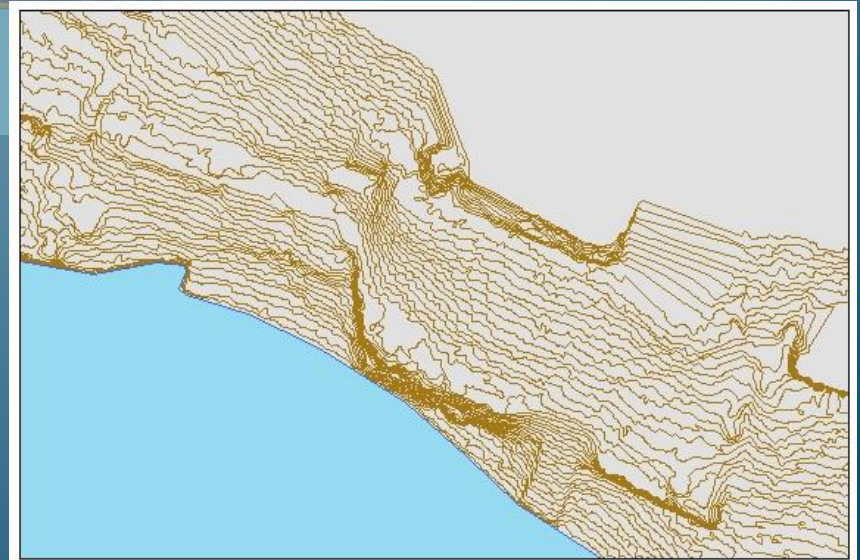# Significant Water Levels and Project Objective

LiDAR Data

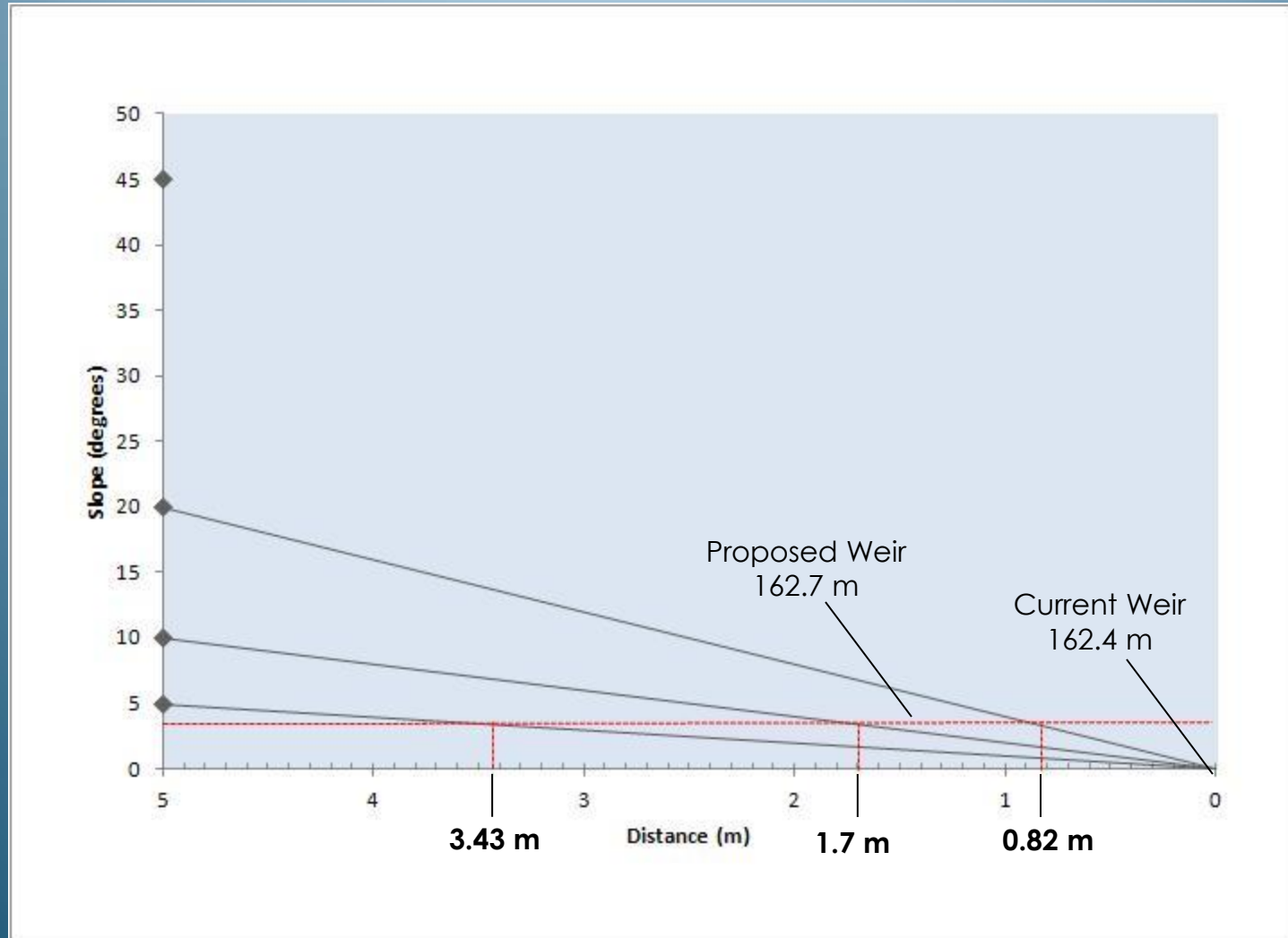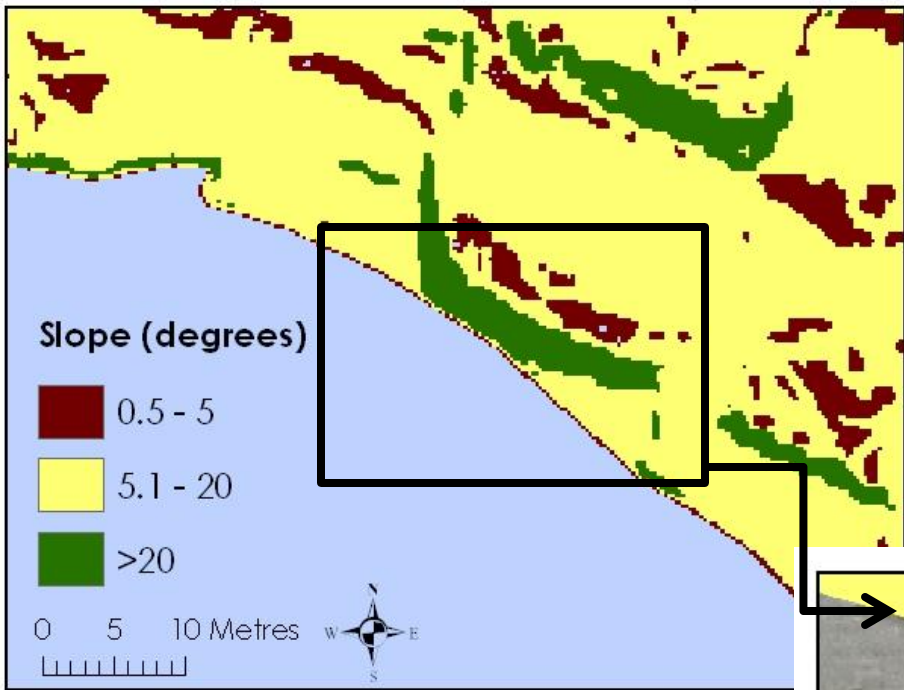Points with ground elevation values

3-D surface model

10 cm contours

Analysis

- **Horizontal distance**

- **Property boundaries**
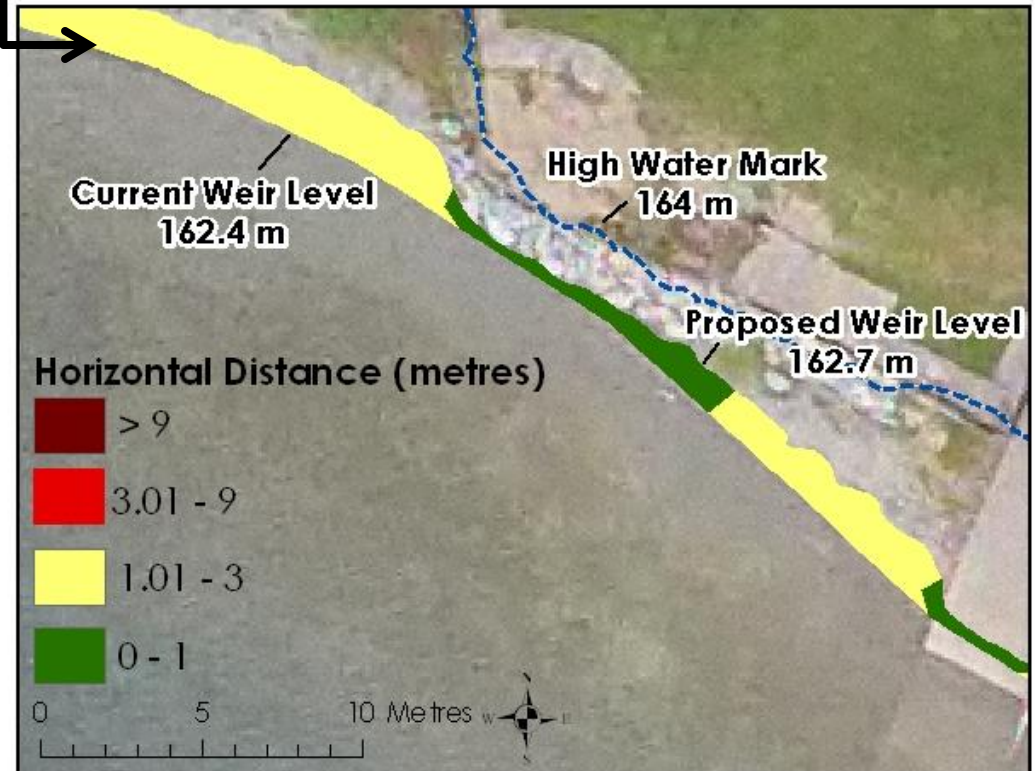
Calculating the horizontal distance

HD = rise / Tan Slope
3.43 m = .3 cm / Tan 5°

Correlation between slope and horizontal distance

Overlaying property boundaries on the imagery
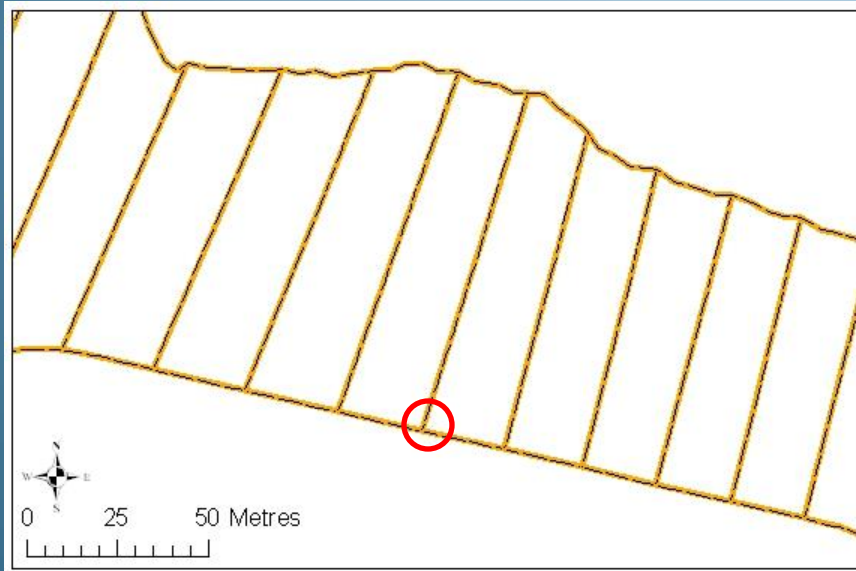
Draw property lines from the survey plan
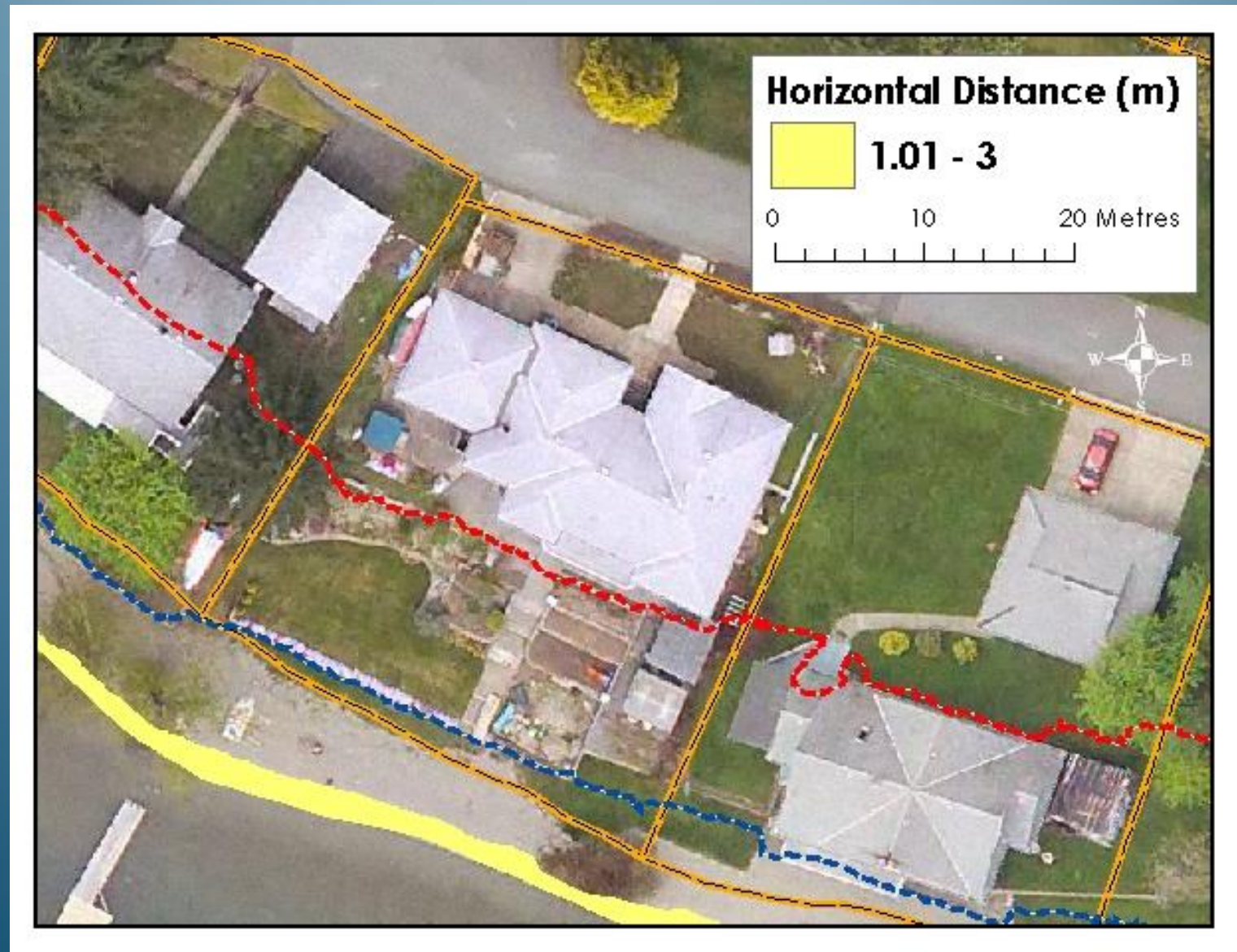

Survey Pin

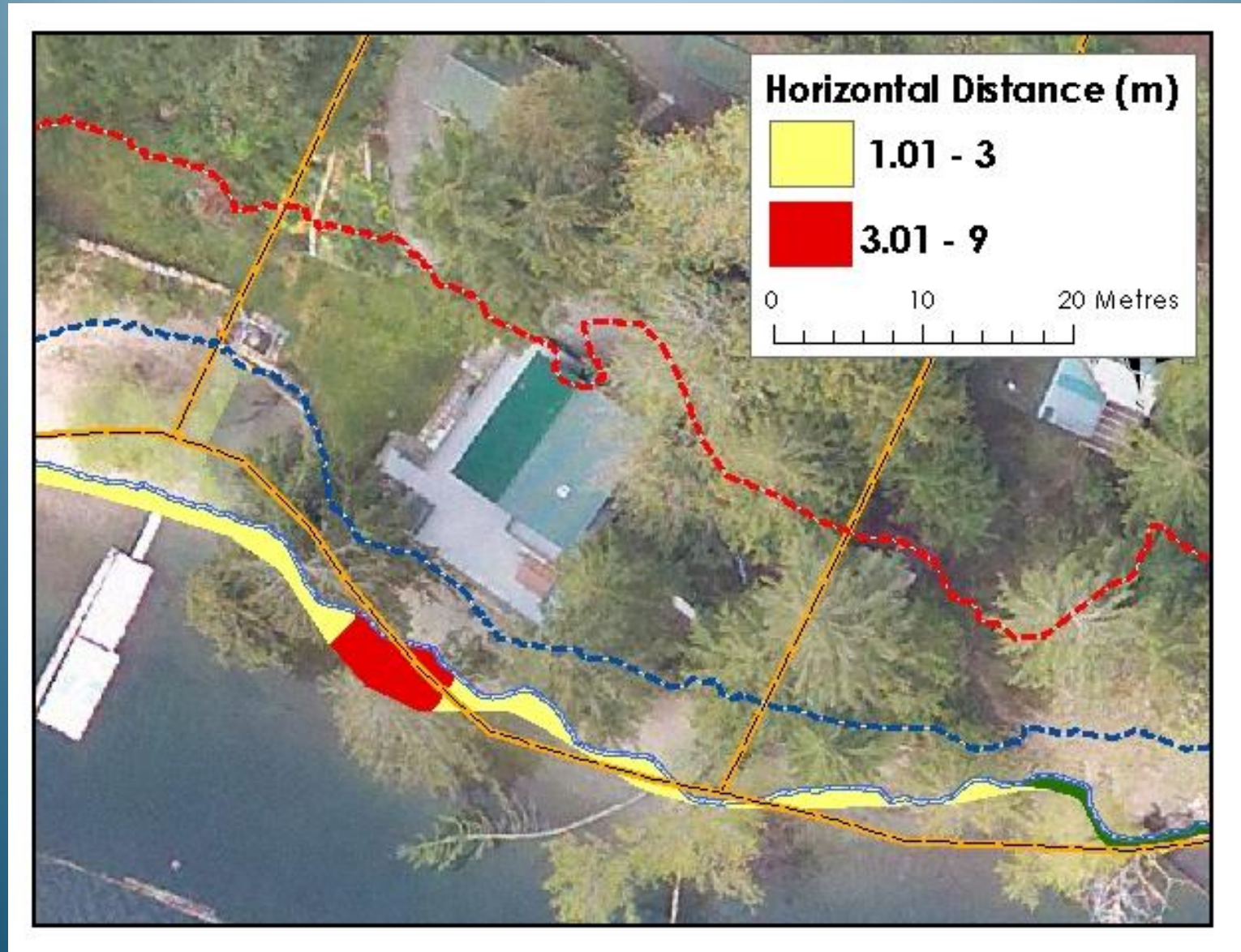Tie in points

Locate survey pins on the ground
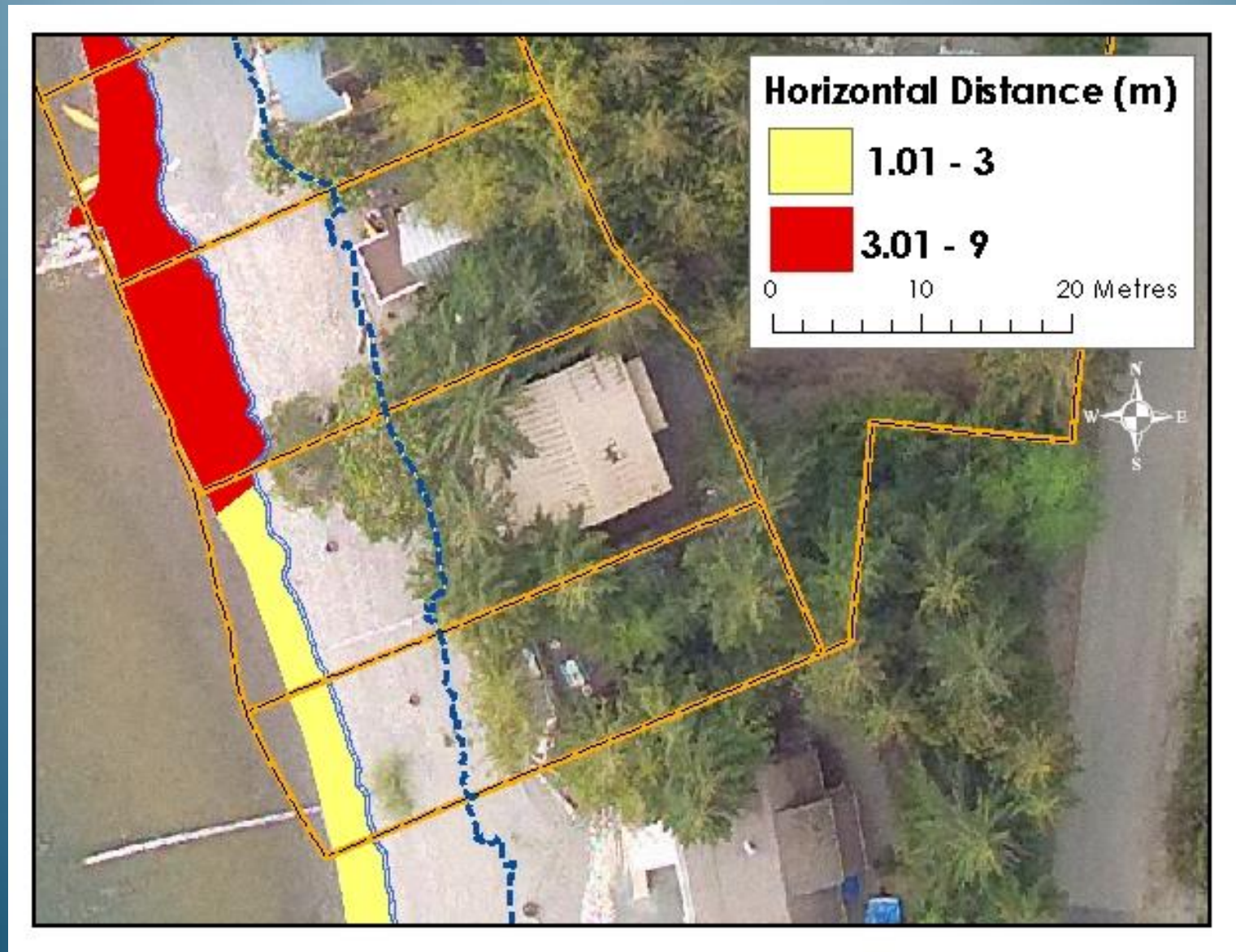

Align property lines with location of the survey pin

Observations

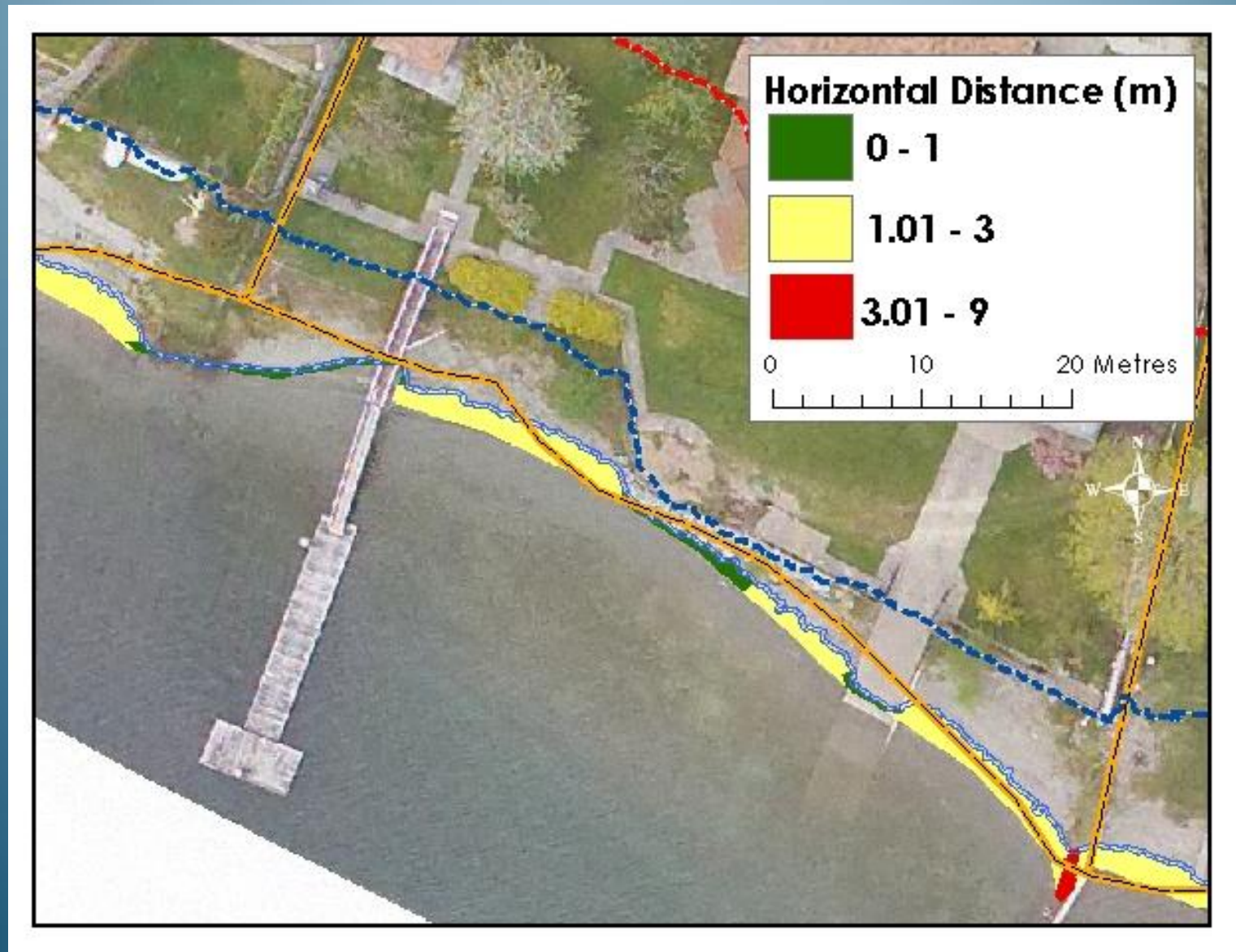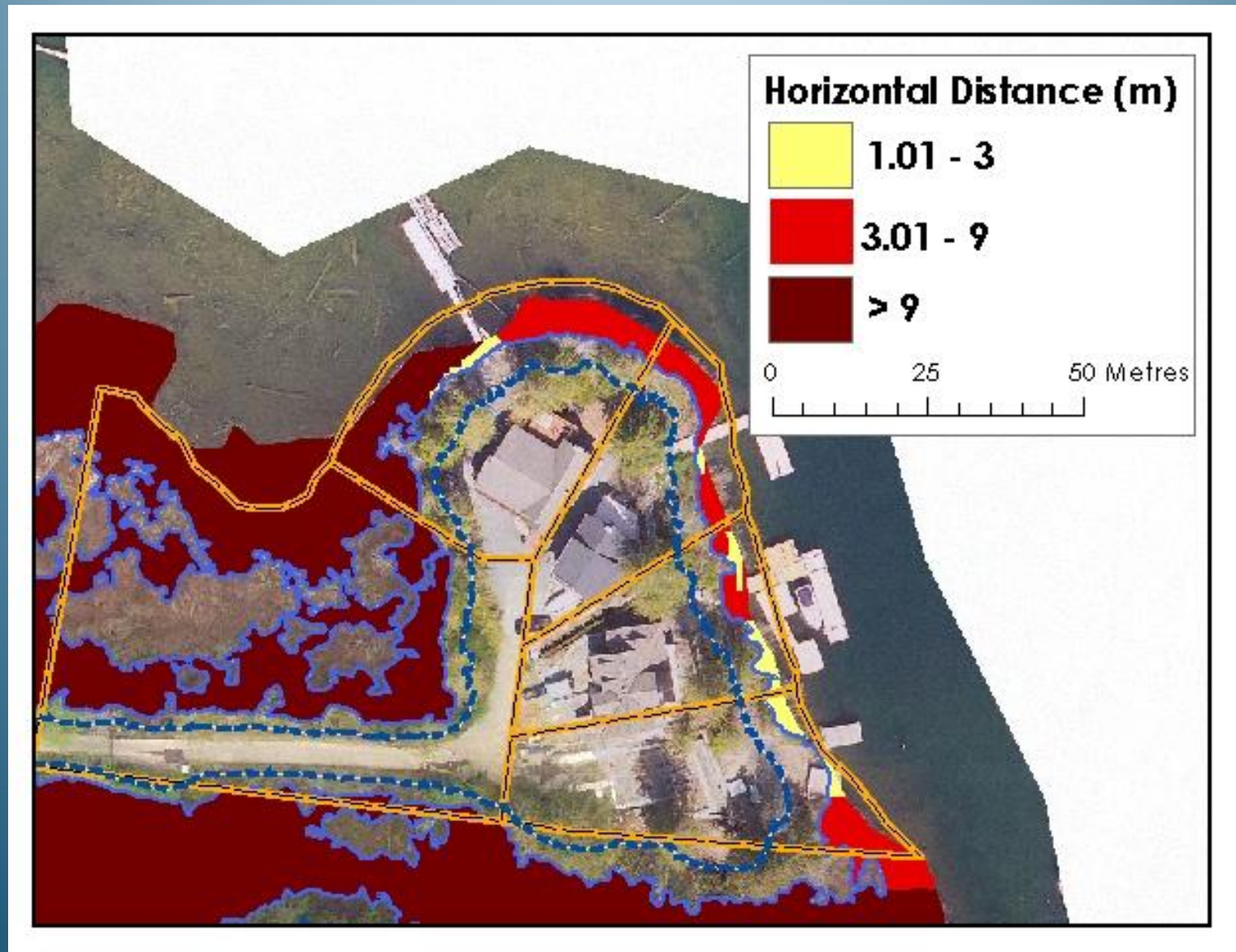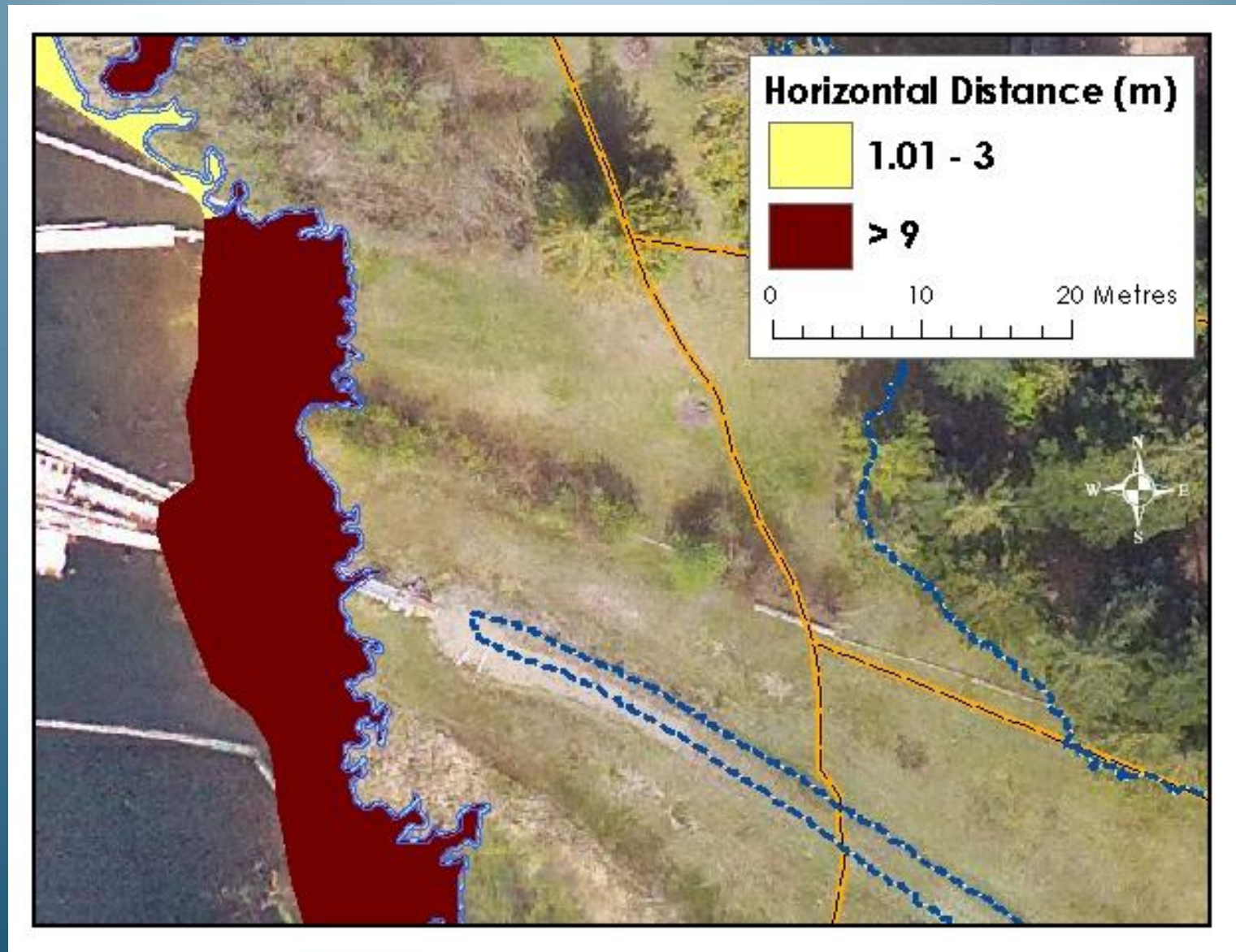No overlap

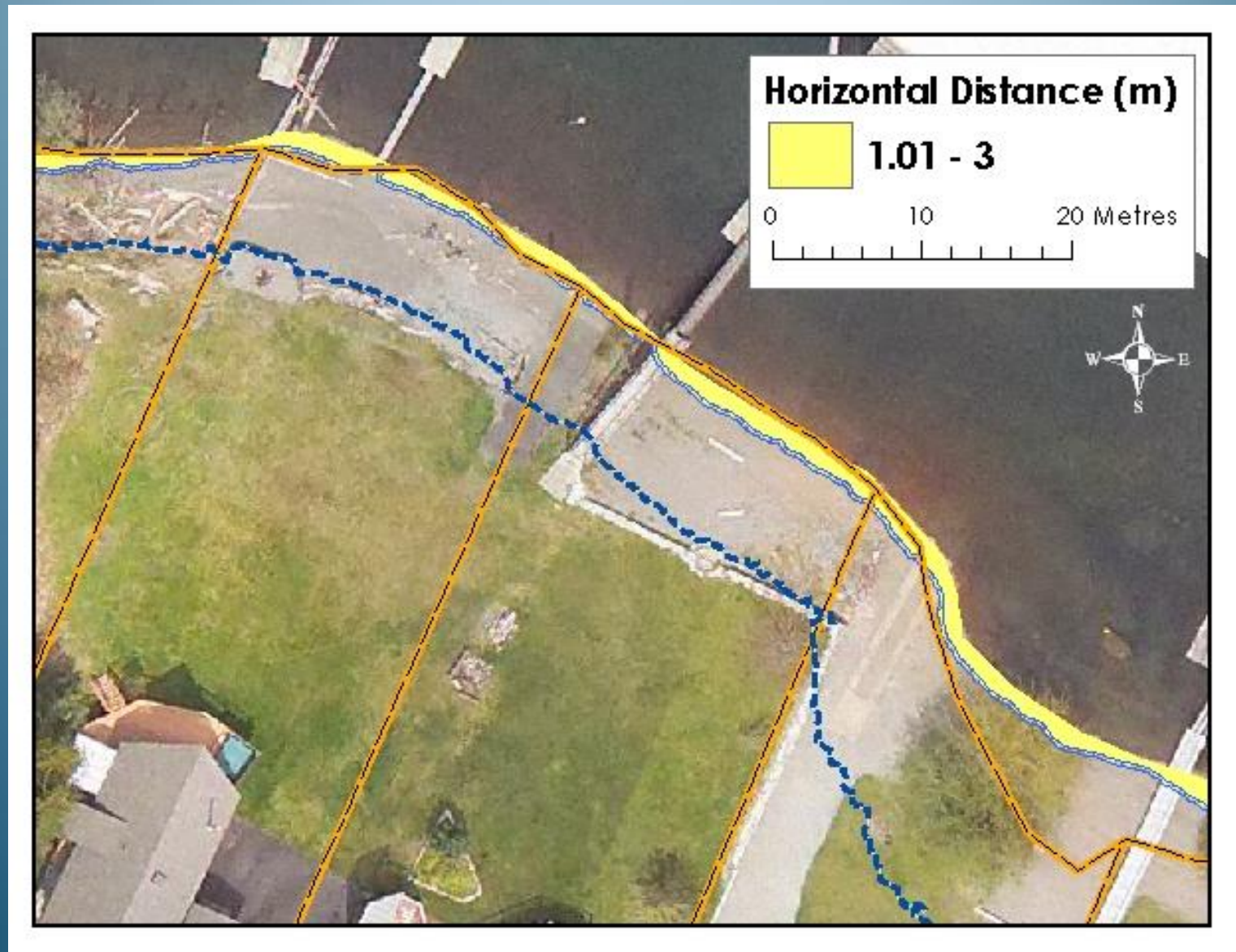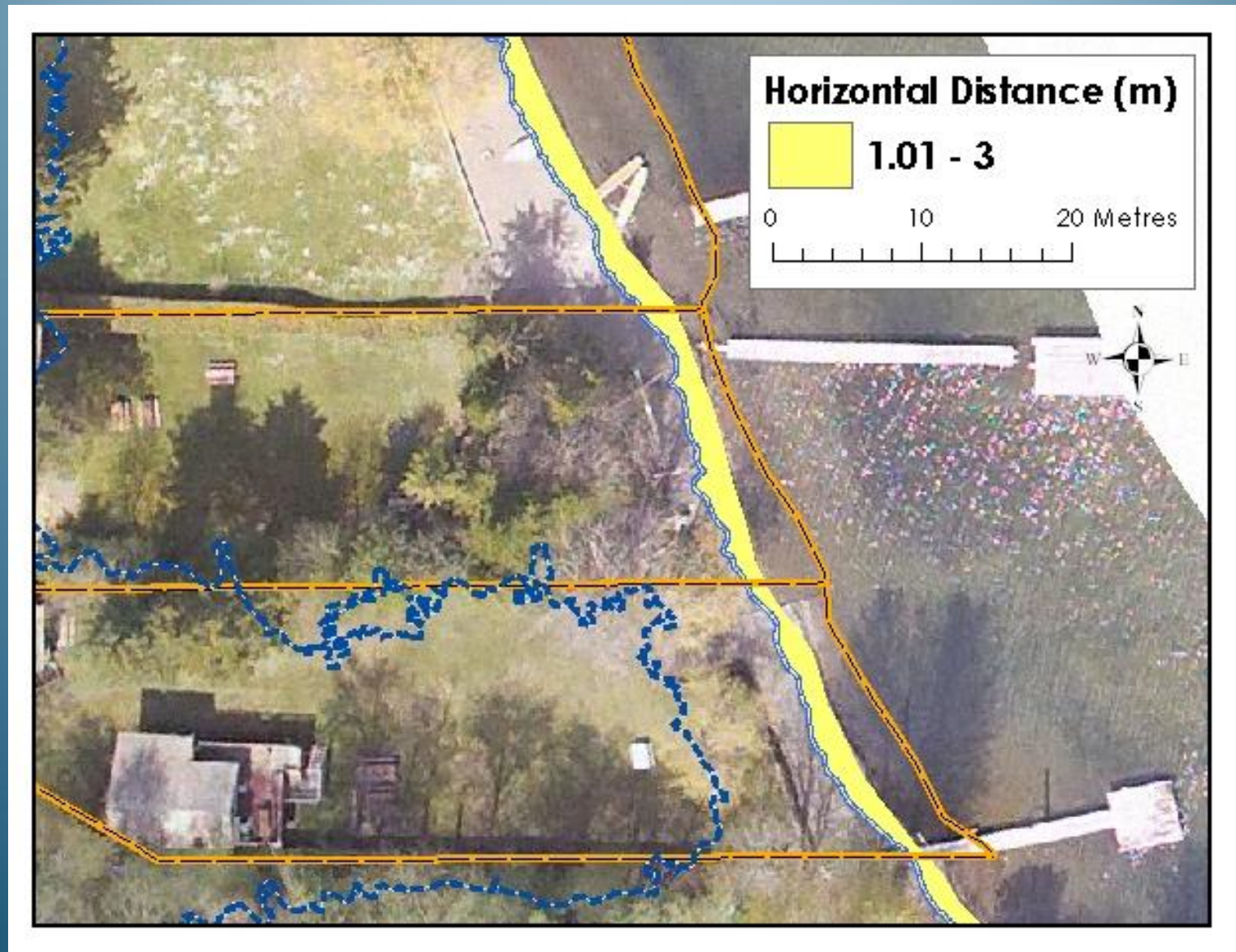Partial overlap

Complete overlap

Youbou

Town of Lake Cowichan

Bear Lake

Honeymoon Bay

Gordon Bay

Recommended Next Steps

- Classify the entire shoreline based on the horizontal distance

- Determine the number of properties within each class

Questions?