

# Super-Secret Test 0.2

Location: Coeur d'Alene Beach Dock

## Travel Report:

No issues again loading up the submarine and handling gear again. Still used the same testing location (Brooks Seaplane Service). Was easy to set up this time (maybe the nice breeze worked).

## Test Report:

Testing started out and ended well, obviously there are a few kinks to still work out, but a very successful dive, report is as follows:

- General assembly and extension of the handling gear progressed well. There were no issues with the step-by-step process up to attaching the tether to the submarine.
- Deploying into the lake went off without a hitch, it's entirely possible to deploy the submarine with 2 people.
- Windows worked for 16 minutes, after that the connection somehow cut out (yet on the actual program there was no indication of a disconnection (the software should have caught that, so there is a bug somewhere).
  - Had to restart the thruster service after the 16 minutes to get the thrusters to listen properly again
- Lights, thrusters, and camera all behaved accordingly (Windows). Control scheme fully understood.
- Ubuntu/Linux issues arose very quickly, first off, the mapping was off, connection cut off almost immediately (again with no indication from software), PWM motors went "haywire" almost immediately (but at around 20% power, so not dangerous, had to pull plug once though).
  - Restarted the thruster service a few times and always ran into the same issue.
- Asked Marty to bring it to Gizmo next Tuesday and use their water tank for a more stable environment test, as to work out some software issues easier.

**Extra Notes:** Ubuntu provides issues the question is if that is "fine" and the focus should shift now instead of spending more time trying to fix the controller software that Kevin produced for Ubuntu/Linux (but then the "Sub" laptop won't be able to manually operate the submarine either).