

# Super-Secret Test 0.3

Location: Coeur d'Alene Lake

## Travel Report:

Handling Gear and Submarine was stable during the boat ride. No danger of them dislodging into the water during travel.

## Test Report:

The testing was definitely a different process than launching off a dock. Some changes will need to be made Testing process report is as follows:

- The handling gear needs to be positioned slightly off center inside the boat. When it is extended, it rests on the side of the boat and the position for launching the sub is as optimal as it can get.
- The submarine needs to be positioned sitting on the edge of the boat under the handling gear.
- Upon trying to launch the sub, it did need to be launched at an angle, as with the mast up it was taller than the fully extended handling gear.
- It also needs to be launched by hand instead of being lowered in.
- The submarine itself is far too heavy. It is not neutral nor positive. It also is front-heavy and leans forward for almost all movements, often diving face first into the sand. We need to contact Gizmo about making it lighter.
- We need orange flags to place in the water while the submarine is launched. This lets other boats know not to come over, thus preventing boats from running over the tether, possible severing it.
- In order to bring the sub up, it is currently more reliable to gently pull the tether up (because of the weight).
- Once the sub has surfaced, the winch is used to attach to the base of the mast. This makes it easier to use the handling gear to lift the submarine out of the water and onto the boat. It is still very hard to lift from the water to the boat, as it is VERY heavy.

**Extra Notes:** At LEAST three people are needed for a boat launch. Two are fine for a dock, but that is not enough for a boat. Also, orange flags are needed!