

## **Ferry Maintenance Report**

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**Vessel:** Queen of Alberni (@ FMU in Richmond, BC)

**Date:** November 7, 2013

**Reporter:** Paul Macoun

**Other Personnel:** Denis Hedji

### **Reason for Visit**

1. Clean out inlet pipe and filter
2. Swap out instruments (CT, BBFL2, Optode)
3. Replace fittings to reduce leak issues

### **Observations**

1. Small amount of water had ended up in basin below the instrument box, indicating the continuing presence of small leak(s)
2. Blockage @ inlet valve had cleared itself
3. Once reassembled for the first time the pump did not manage to clear the system of air

### **Actions Taken**

1. Removed and cleaned sea-chest assembly and plumbing
2. Removed SBE CT SN 0017; replaced with SBE CT SN 0019,
3. Removed Wetlabs BBFL2 SN 787; replaced with Wetlabs BBFL2 SN 786
4. Removed AADI Optode 3835 SN 1416; replaced with AADI Optode 3835 SN 1415
5. Replaced all plastic plumbing fittings with brass ones (@ reservoir and on instruments)
6. Replaced rigid plastic plumbing with flexible Teflon tubing (+ hose clamps)
7. Removed inlet piping at several locations to determine why pump not able to flush the system; determined the vessel was riding higher than usual (less ballast @ FMU) and hence the system cannot self-prime.
8. Primed the system manually and managed to get the pump to work properly.
9. Updated the acquisition software with the new instrument configuration.
10. Downloaded orphaned GPS files to memory stick and wiped old files from C:/DataLog.

### **Future Actions**

1. Return to Tsawwassen Nov. 15 to supervise the removal of the external pod by divers.
2. Inspection of upper deck equipment.
3. Test the system to ensure readiness for return to service Nov. 16.
4. Check with UBC science regarding calibration requirements for BBFL2 SN 787