

# Ocean Networks Canada

## Ferry Maintenance Report – Queen of Oak Bay



Vessel: Queen of Oak Bay

Date: November 2<sup>nd</sup>, 2016

Arrival: 0755

Reporter: William Glatt

Staff: William Glatt, Dirk Brussow

Ship's crew:

### Reason for Visit

- Benchmark and clean instruments
- make observations and measurements of equipment vibrations mounted above the bridge.

### Observations (**important highlighted in red**)

System operating in a normal state. All dry inside instrument box

Optode – removed for benchmark and cleaning. Readings indicate normal functioning

**BBFL2 – Similar to previous reports, housing showing signs of stress and potentially low CDOM counts**

- Pre cleaning: CHL showed ~ 380 counts, CDOM showed ~ 250 counts
- Post cleaning: CHL showed ~520 counts, CDOM showed ~275 counts

TSG – Sensor was fairly clean, simple rinse with fresh water sufficed for cleaning

SAS - vibration of pedestal is well mitigated by the ratchet straps currently in place, however vibration of the topmost portion of the instrument (rotating assembly) may be unavoidable.

- Vibration result of mechanical resonance from engines. Likely to be worse on trip from Horseshoe Bay to Departure bay.
- SAS AUX BOX vibration also quite bad, will swap vibration dampening mounts with more robust solution as well as investigate strengthening the railing.

Plan to replace straps with bolt on flat bars from the railing to the base of the pedestal.

### Actions Taken

1. Arrived at Departure Bay at 0755 parked in Employee parking lot. Signed in with Customer Service counter.
2. Boarded ship, checked in with Chief Steward and signed into engine room
3. Opened computer box and instrument chest. Observed system in normal operating mode
4. Shut down Sea Keeper computer
5. Began disassembly

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6. Performed benchmarking
7. Cleaned TSG
8. Reinstalled instruments
9. Powered up system, checked for leaks and data acquisition.
10. Installed new desiccant
11. Obtained permission through Chief Steward to go above Bridge #2 to make observations and measurements of SAS pedestal vibration and SAS AUX BOX mounting
12. Measured vibrations on SAS at three different positions for comparison.
13. Asked bridge permission to go above Bridge #1 to make another measurement to compare vibrations from each end of the vessel.

### **Future Actions**

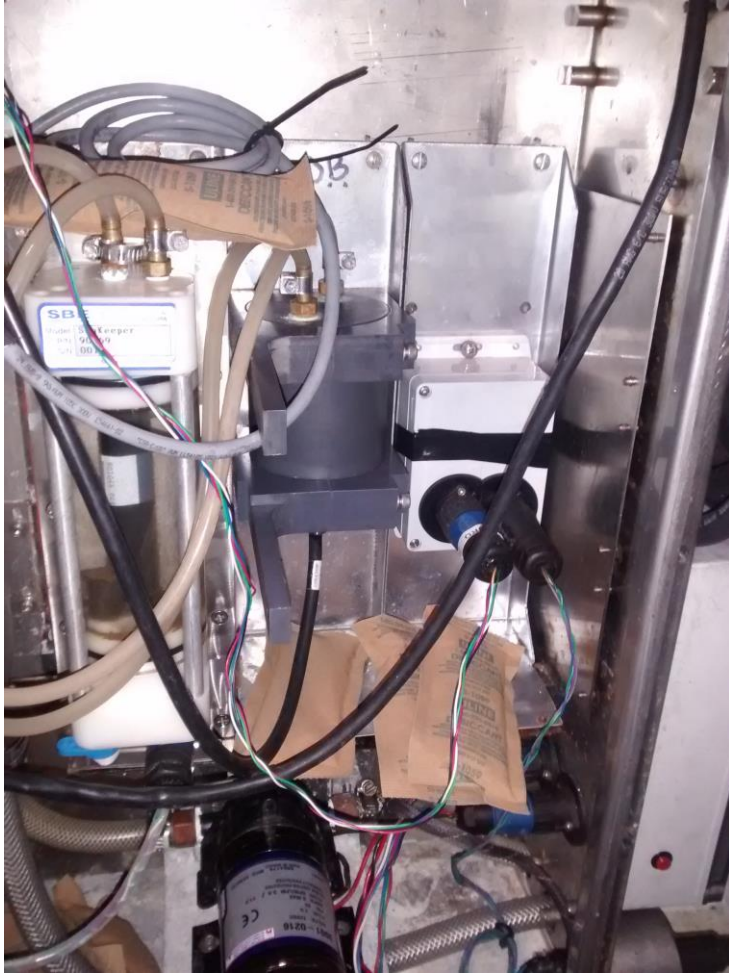
Check with Akash regarding BBFL2 benchmarks

Design braces for SAS pedestal and railing reinforcement prior to refit period in January 2017

Purchase more robust vibration dampening mounts

### **Pictures**

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