Ocean Networks Canada

Ferry Maintenance Report – Queen of Alberni

Vessel: Spirit of Vancouver Island Date: April 26th, 2016

Arrival: 1030am @ Swartz Bay terminal, Sidney

Reporter: Rowan Fox Staff: Ian Giraudy, Rowan Fox

Reason for Visit

Routine cleaning and benchmarking of instrument. Since March 17, SOVI has done full-time service. SOVI Seakeeper computer has not needed regular reboots, whatever was the problem has been solved. In the future, ONC staff will be focusing on cruises, so unlikely that energy will be available for ferries.

Observations

1. No signs of damage in instrument box or leaking in tray.
2. Visible plumbing (tubing, Seastrainer, TSG) is browned with rust particulate and coal dust, however no plugs.
3. Benchmark data revealed that the optode is reading 110% saturation in fully saturated water and 0% in depleted water. While not perfect, it is acceptable as it can be corrected with instrument benchmark data.
4. BBFL2 pre-cleaning showed the instrument was quite fouled (~200 counts for Chl & CDOM). However post clean showed it is still properly responding to Diet Coke and Sprite Zero (500 counts for both Chl & CDOM).
5. GPS log file has been properly closing as of late, no indication or reason why the problem was solved. See Jira ticket EN-690.
6. BBFL2 housing is starting to crack around the threaded holes. Will likely start leaking in the future, and needs to be replaced on the next trip.

Actions Taken

1. Arrived at Swartz Bay terminal at 10:30, boarded ship and signed in at the Engine room.
2. Opened up computer box, shut down power.
3. Opened up plumbing box.
4. Removed instruments for cleaning: BBFL2 SN785, TSG SN18, Optode SN1416.
5. Did benchmarks on instruments, uploaded to Alfresco. Data are uploaded to Alfresco, see BBFL2 and optode.
6. Cleaned tubing to instruments.
7. Reinstalled instruments.
8. Installed new dessicant.
9. Rinsed and cleaned sea strainer.
10. Powered on system, confirmed that data acquisition was working and system was ready.

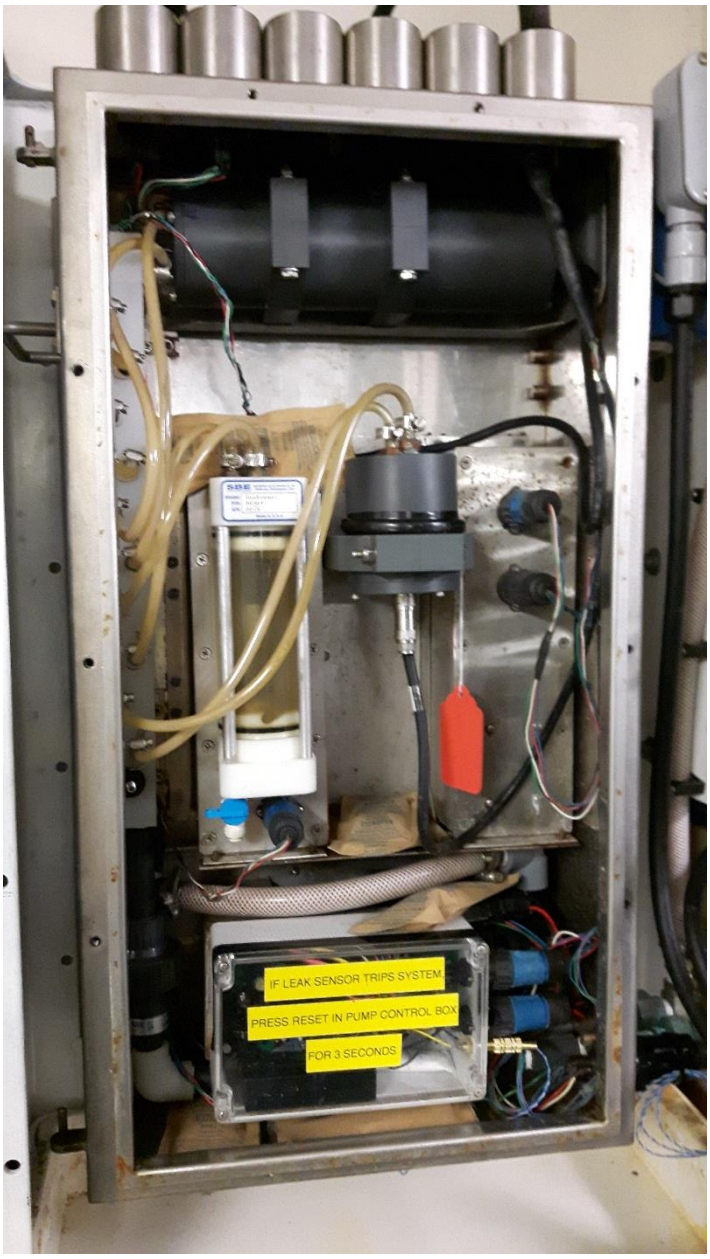
11. Turned on Seakeeper pump and observed the system for several minutes to confirm correct operation. All instruments were sealed inside the instrument housing, and flowing.
12. Closed up the instrument housing and the computer housing afterward.

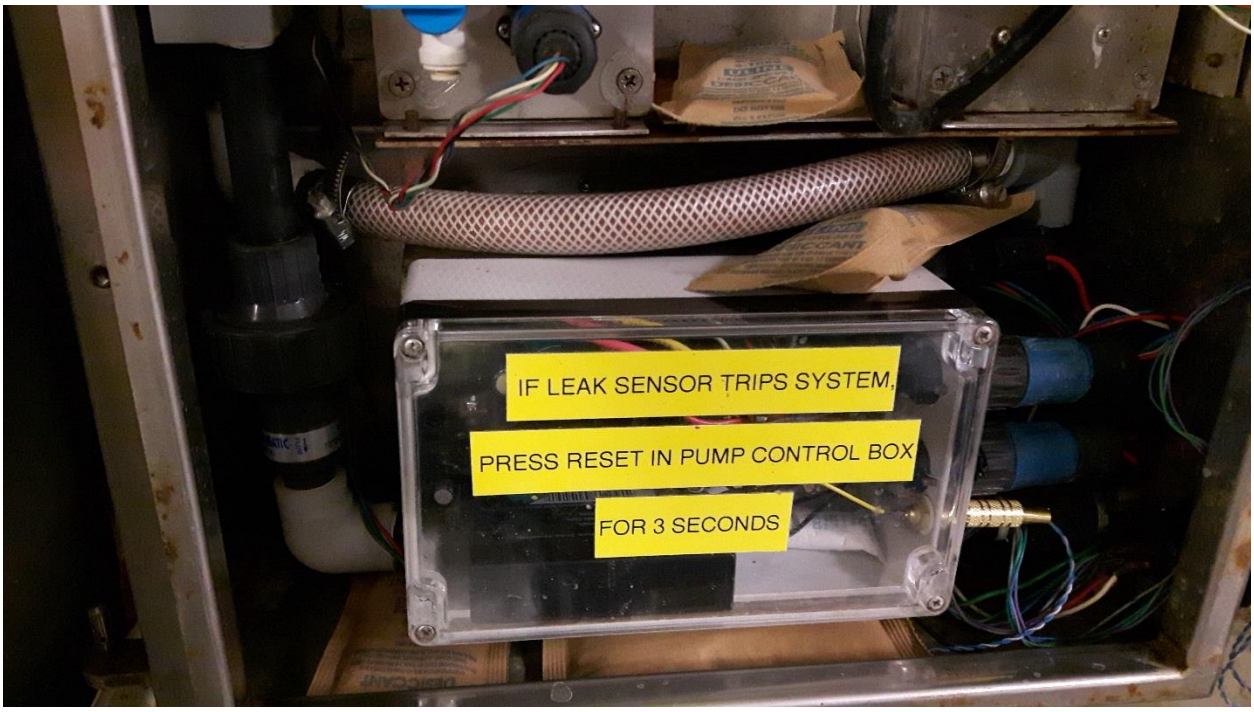
13. Restarted Seakeeper computer, ready for aquisistion.
14. Closed up computer box.
15. Signed out of Engineering room
16. Departed ferry at ~1500.

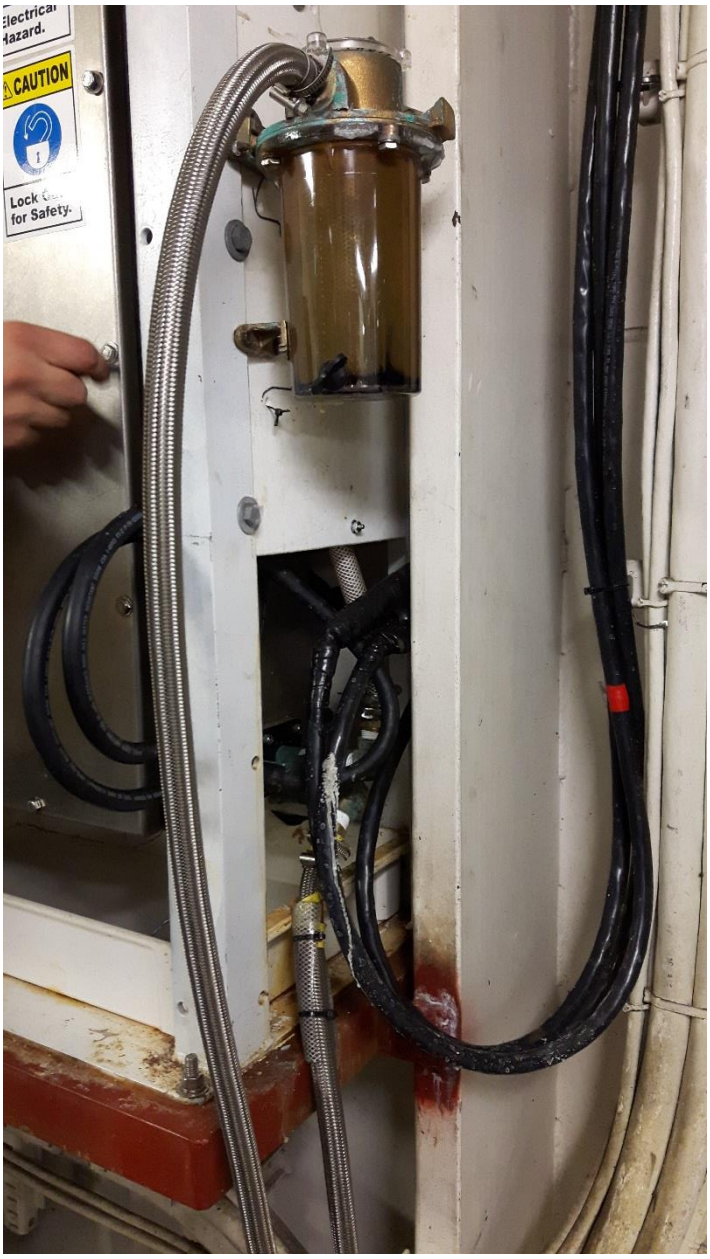
Future Actions (High Priority in Red)

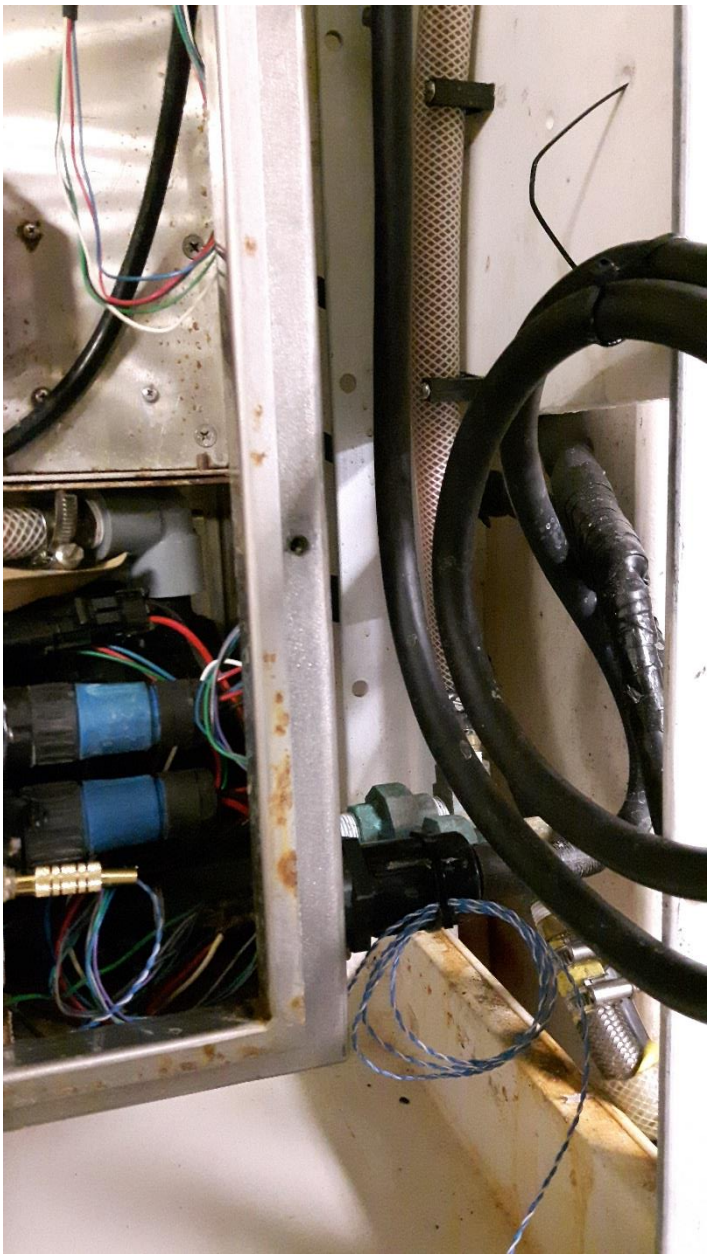
1. SOVI will be tied up at Swartz Bay from May 9 – 14, 2016.
2. Replace BBFL2 housing.

Pictures

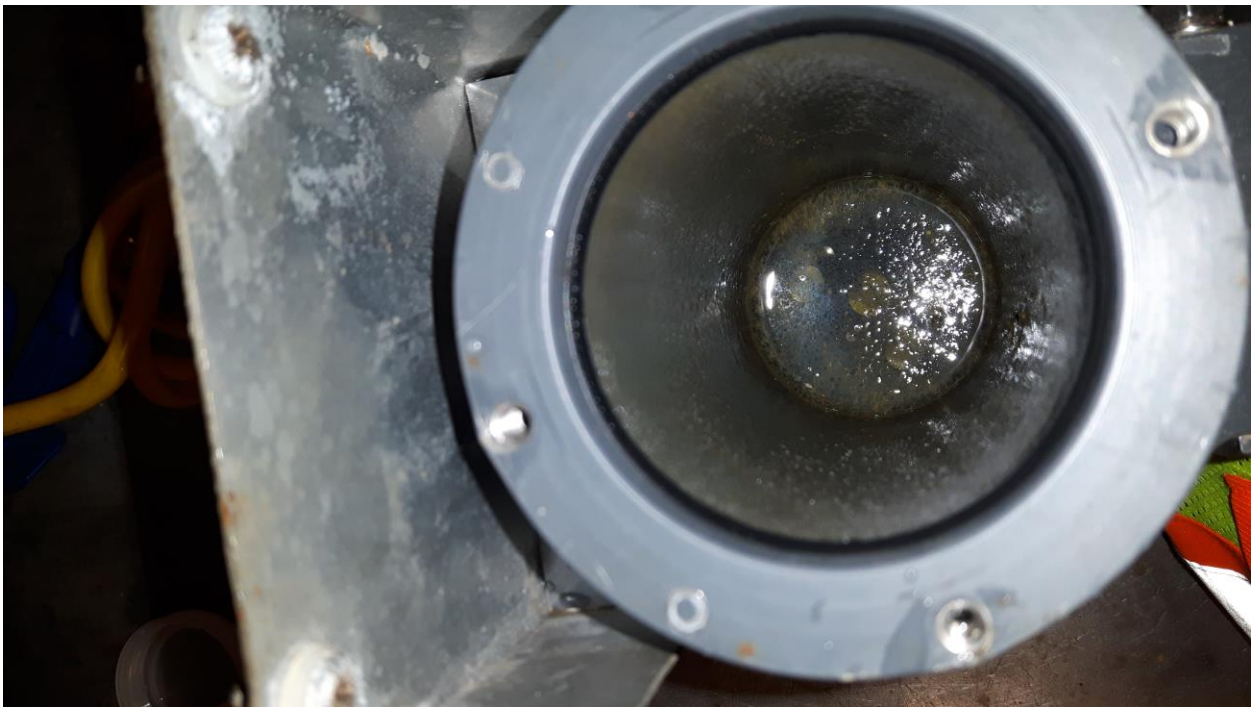

IF LEAK SENSOR TRIPS SYSTEM
PRESS RESET IN PUMP CONTROL BOX
FOR 3 SECONDS

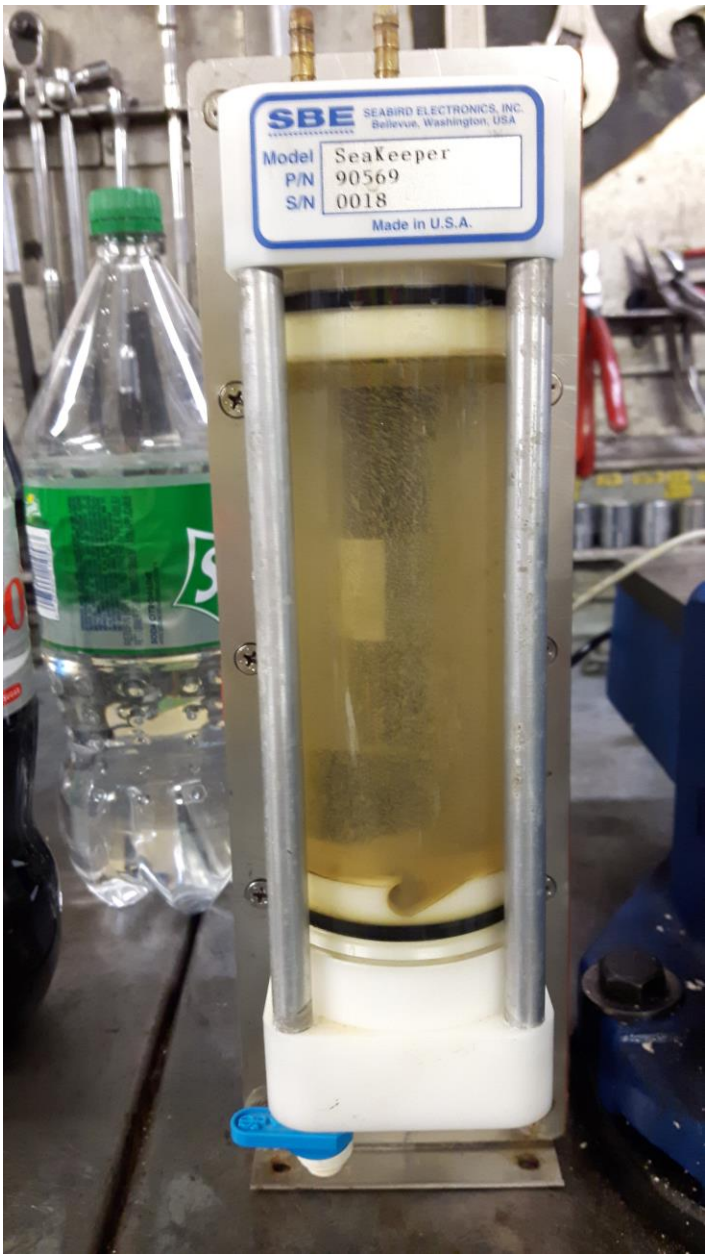

IF LEAK SENSOR TRIPS SYSTEM,
PRESS RESET IN PUMP CONTROL BOX
FOR 3 SECONDS


CAUTION
for Safety.

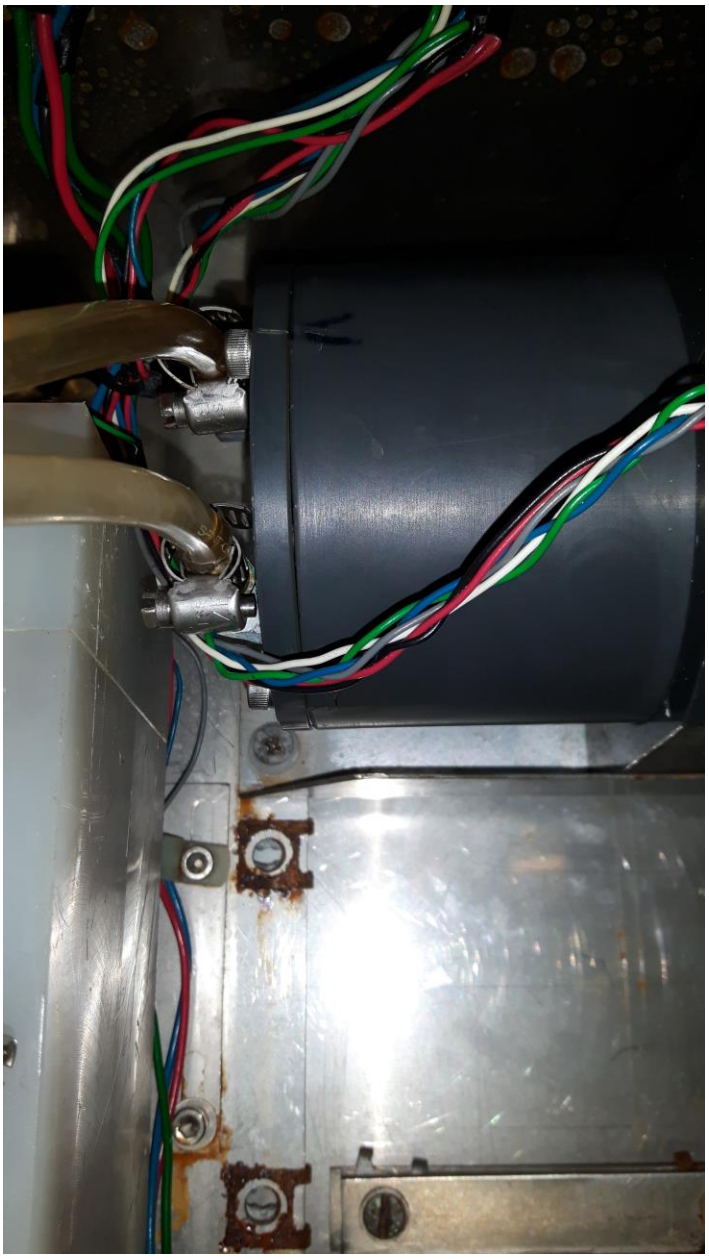


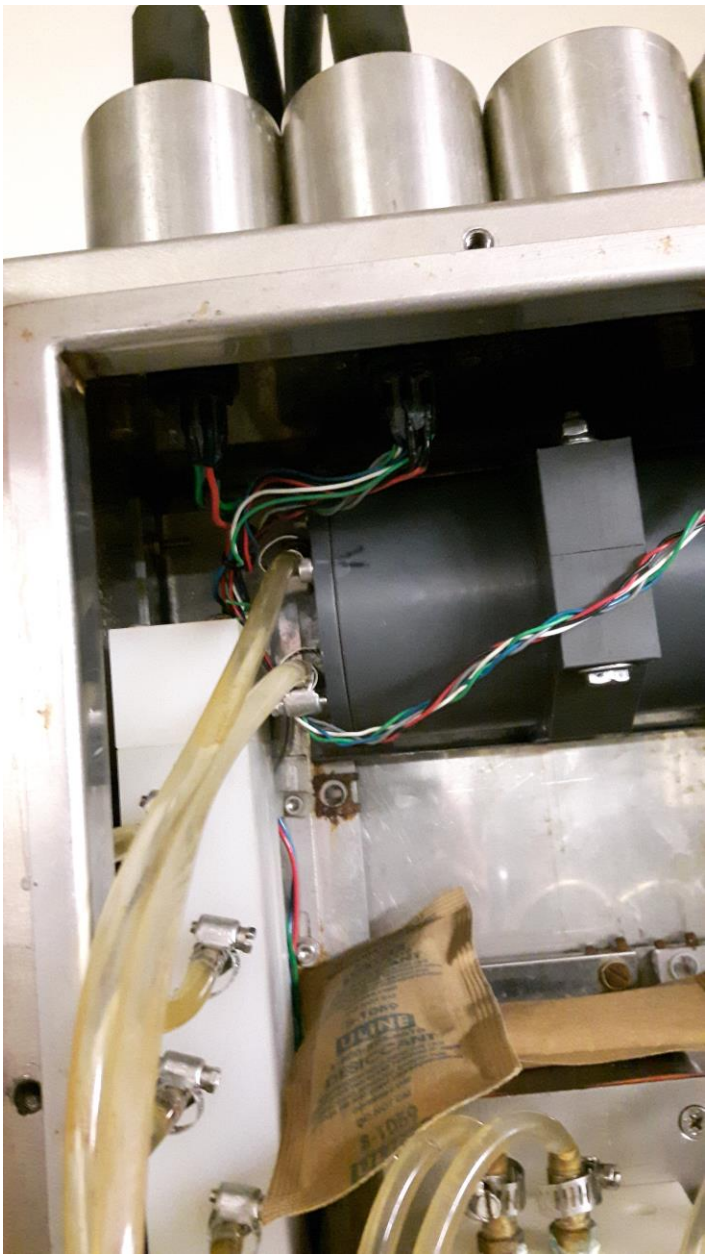

FOR 3 SECONDS

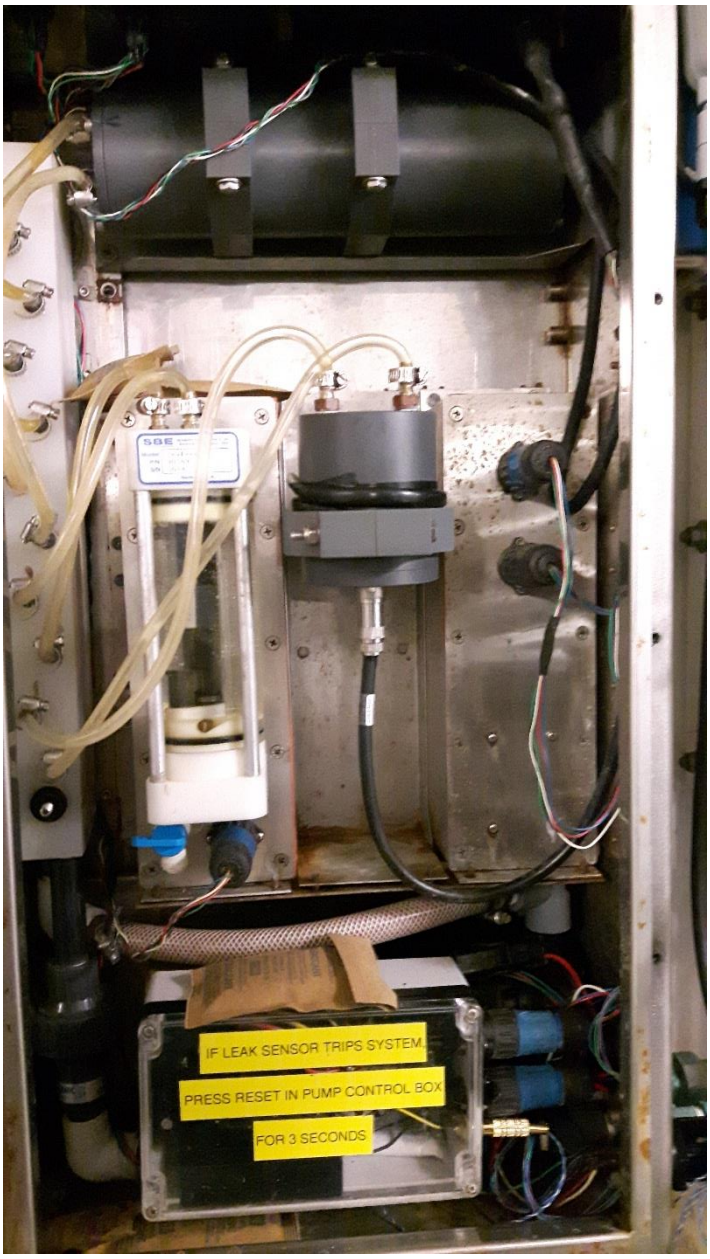



SBE
SEABIRD ELECTRONICS, INC.
Bellevue, Washington, USA
Model SeaKeeper
P/N 90569
S/N 0018
Made in U.S.A.

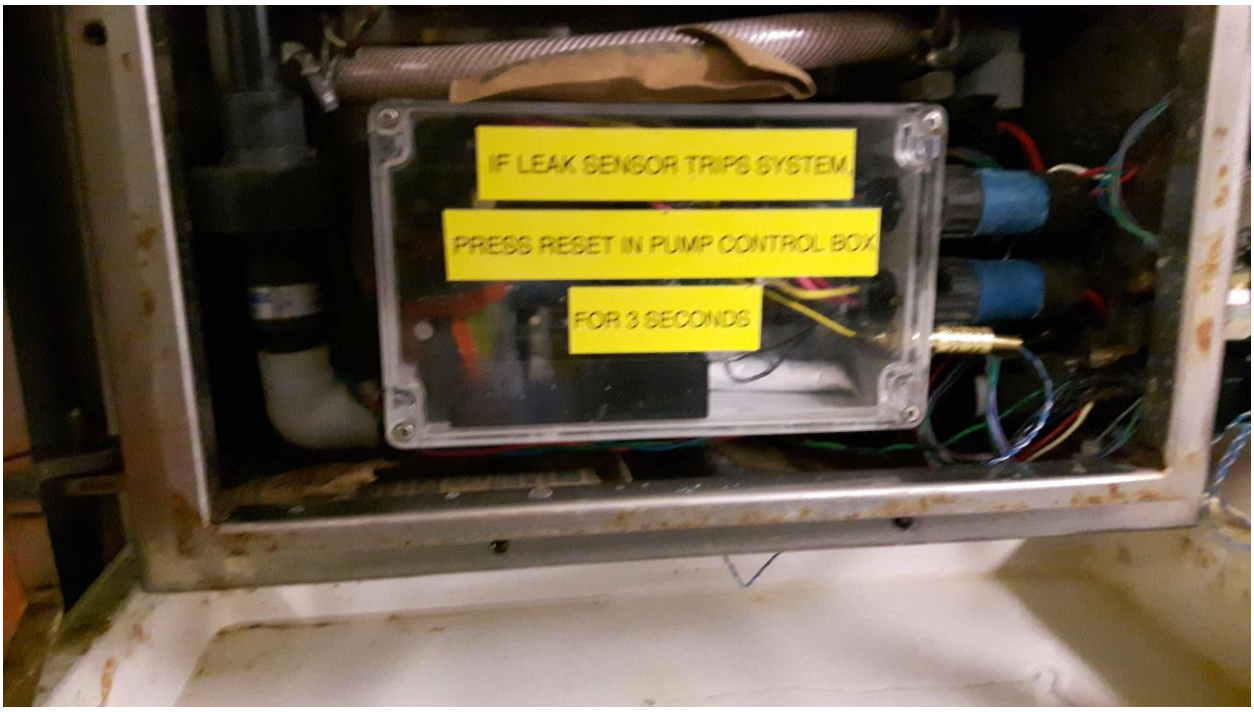

YGEN OPTODE
No.1416 Signal
AANDER






IF LEAK SENSOR TRIPS SYSTEM
PRESS RESET IN PUMP CONTROL BOX
FOR 3 SECONDS


SBE
Model SeaKee
P/N 90569
S/N 0018


IF LEAK SENSOR TRIPS SYSTEM,
PRESS RESET IN PUMP CONTROL BOX
FOR 3 SECONDS


NEWCO


Electrical Hazard.
CAUTION
Lock Out for Safety.
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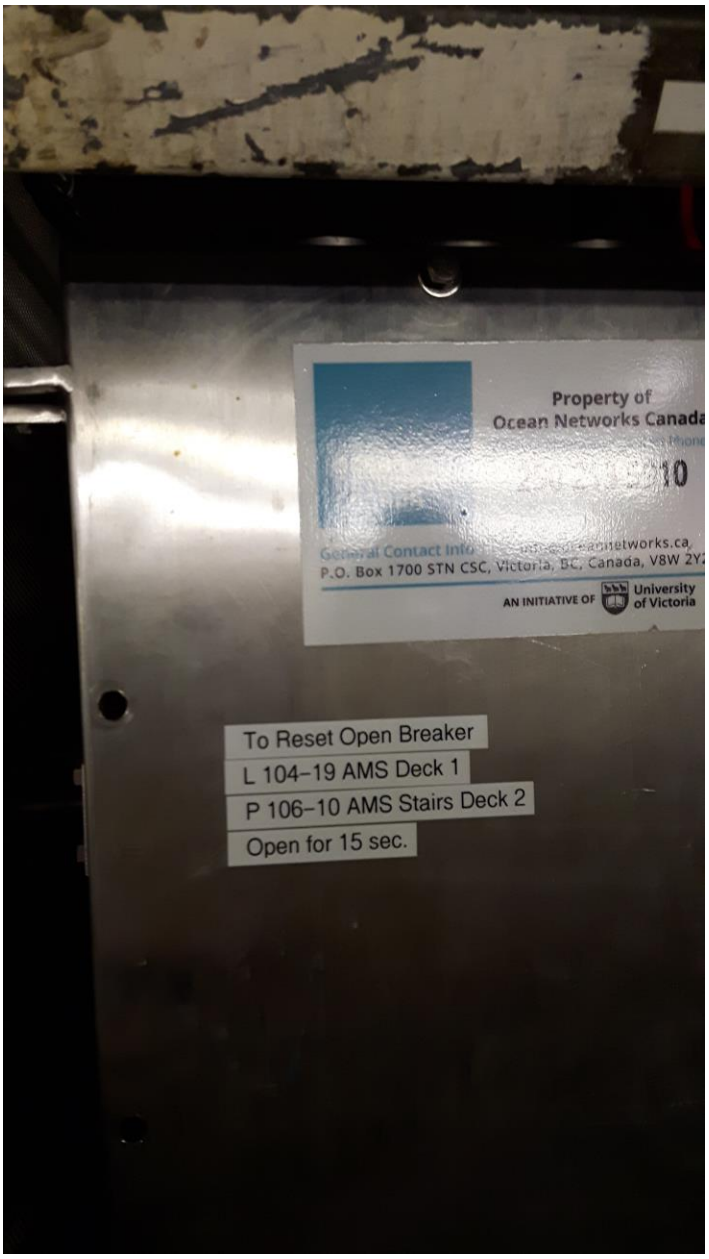
RUNNING
M.E.S.W. CIRC. PUMP.
P-607-1
M.E. S.W.
CIRC. P/P No.1
WEKSLER
OVERHAULED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To Reset Open Breaker
L 104-19 AMS Deck 1
P 106-10 AMS Stairs Deck 2
Open for 15 sec.

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