**7 October 2023**

**Lady Hopetoun sewerage pump out**

Set up Currawong as per SHF Fleet Tugboat Deckhand Handbook – Part 21 Black water operation.

The Lady Hopetoun can be pumped out by connecting to the 'Sewerage Discharge Connection' on the main deck, starboard shoulder.

There are no valves to open to begin the pump out.

The air vent for the sewerage tank is through one of the white posts holding up the canopy - note the white post with a slot in its base. (bit of trivia)

You can only monitor the sewerage tank level from below deck, enter by the forward hatch, descend the ladder and you will see the head and adjacent sewerage tanks.

If the forward hatch is locked, a spare key is in the metal, key cupboard above the sign in book in the main shed.

The head flushes its waste into a plastic tank adjacent to the head. Above this plastic tank is another plastic tank into which the lower tank's content is pumped and it is only from the top holding tank that the Currawong pumps out the sewerage.

There is no sight-glass on either tank and the only way to determine the level of liquid is to shine a torch through the end of the plastic tank and observe where the air / liquid interface appears.

The Currawong's pump is self-priming but occasionally it needs to be primed, so if the level of liquid is not falling in the top drum the pump has to be primed, get a bucket of water and turn on tug's pump and pump water through the hose, this may take some time to start pumping.

Finally flush the blackwater out of the hose by pumping sea water through the hose into the Currawong's bladders.

Replace the cap on the deck sewerage connection, lock up the forward hatch, replace covers, return the keys to the key cupboard.

Leave the vessel as you found it.

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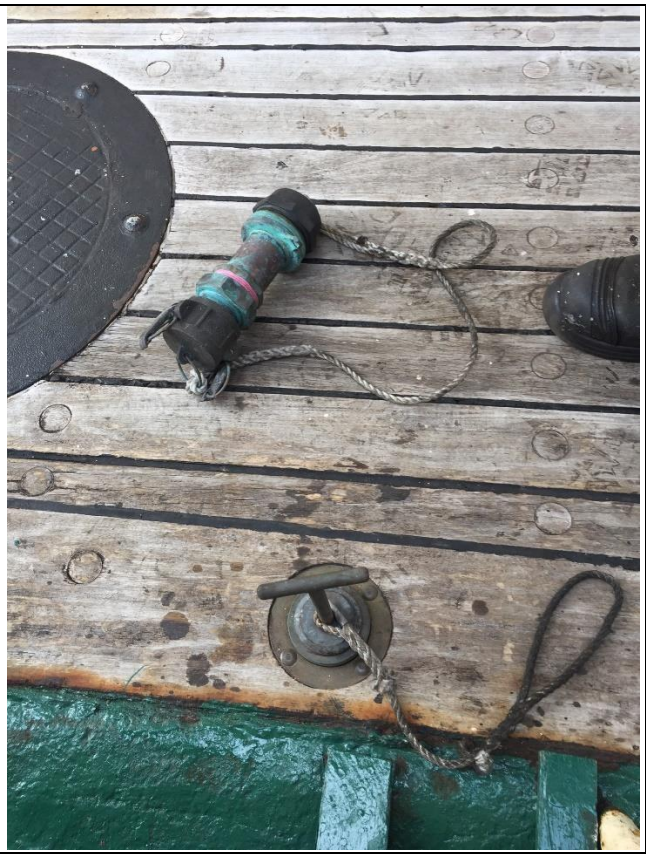
**Waratah sewerage pump out**

Set up Currawong as per SHF Fleet Tugboat Deckhand Handbook – Part 21 Black water operation.

The sewerage connection is located on the main deck, about amidships, on the port side.



It has a small circular cover with 2 hole in it and it is flush with the main deck.

The screw on cap must be removed with a purpose made tool which is in the forward superstructure (below the wheelhouse) hanging off the Emergency Steering Wheel.

In the image, the tool is in the screw on cap ready for its removal.

When the cap is removed a special hose adapter must be screwed in place before the Currawong hose can be connected. The special adapter is located under the Emergency Steering Wheel, lying on the deck, in the corner.

In the image, the special adapter is lying on the deck.

The sewerage holding tank is below deck, amidships on the port side. To access the holding tank, you need to climb down from the main deck into the boiler room and from there enter the void space on the port side via an opening in the bulkhead.

There is a ball valve on the forward end of the sewage tank at the bottom of the tank.

The tank has a sight-glass made of plastic tubing. To activate the sight-glass, the lever valve at the top and bottom of the sight glass must be turned on. To see the level of liquid in the sight glass, shine a light through the sight glass, tap the sight-glass gently and look for the liquid level. The liquid level in the sight-glass does not show when the tank is overfull or very low level. If either of these conditions occur, one needs to look into the tank. On the top of the tank there is a screw cap, take it off, **hold your breath** and look inside.

Finally flush the blackwater out of the hose by pumping sea water through the hose into the Currawong's bladders.

Remove the special hose adapter and replace the screw in cap, return the 2 items to where you found them.

Leave the vessel as you found it.

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