

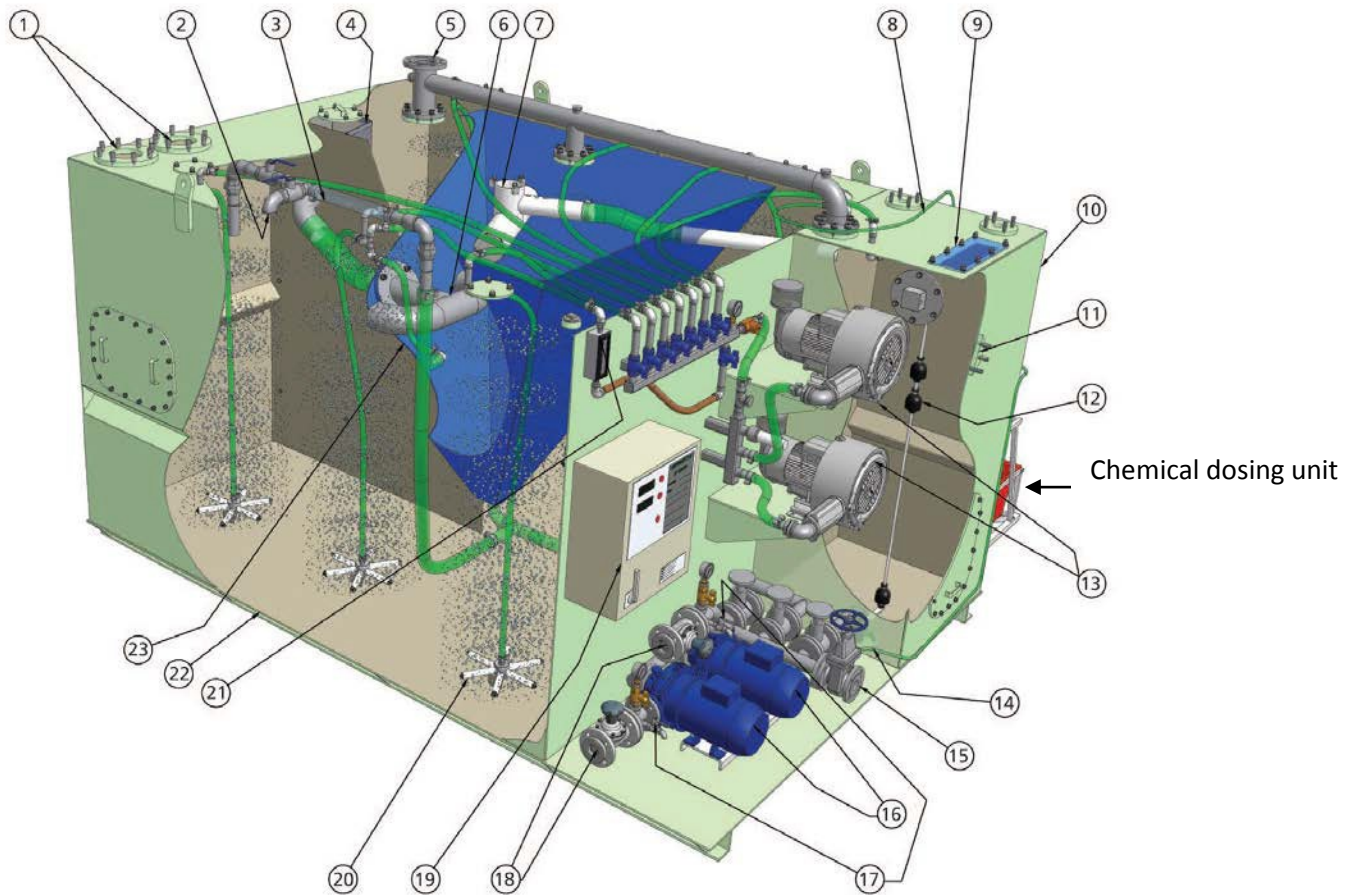
**MARPOL Annex IV – Prevention of Pollution by Sewage from Ships - Questionnaire**

<b>Vessel name:</b>	
Capacity of sewage tank:	
Make / Type sewage treatment plant (STP):	

NO	Description	YES	NO	NA
1	Is Sewage Treatment system operational and in use?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Are the air blowers (no. 13) working properly? (Is air supply to aeration nozzles sufficient? No fixed ship's compressed air used?) (If a pressure gauge is available it should be reading 0.2 – 0.4 bar. Still the aeration nozzles could be blocked. In case of doubt or unclear, the (TOP) inspection hatch is to be opened. The air compressor/ pump can be checked by carefully touching the discharge side this should be warm/ hot.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Are (both) discharge pump(s) (no. 16) working properly? (Verify by manual start / operation. Pump(s) and e-motor not noisy, vibrating.)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Is the chemical dosing unit (no 8) working properly? Are the correct chemical used? (The discharge side can be loosened to verify drips/ flow of chemical)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Are all lights / switches / indications in good working order? Is the electrical cabinet in good condition? (look inside the electrical cabinet e.g. no electrical wiring tampered with to indicate "ON", while off)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Is the visual indication pipe for returned activated sludge (no. 3) clear? ( use a flashlight to determine if pipe is suitable for visual indication)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Is the sewage treatment tank without any holes, deteriorations or temporary (hidden) repairs? ( Pipes/ bends / branches and topside of sewage treatment tank)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Is high level alarm working accordingly? (To actually test the high level alarm (float switch) engineers can either fill up the compartment with water to achieve the alarm, or may open up the "contact compartment hatch" to physically lift up the float)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	Are checks being performed as per PMS (BASSNET)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	Are checks in PMS in accordance with manufactures manual (or even more strict)? <b>If there are additional maintenance instructions from Manufacturer which are not included in BASSNET, Please inform ship manager.</b>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional common questions:

1	Is the sewage overboard valve operable?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Are company forms 3.2.7 h / i / j as applicable completed and filed in Colligo?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Is the standard discharge connection on board in accordance with MARPOL Annex IV reg 10?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Are all officers familiar with the MARPOL Annex IV / Reg 11 requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Are applicable valves sealed and recorded in form 3.2.7 as per company requirements?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Does the vessel have certified additional holding capacity? If so, how many m3?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Vessel has type approval certificate for sewage system and permanent <b>Name Plate</b> indicating approval fixed on the sewage treatment plant	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



Example of a common Sewage Treatment Plant (ST-C Series), [source Hamworthy](#)

## Features

1. Raw sewage inlets
2. Returned activated sludge (R.A.S.) calibration point
3. Visual indication pipe for returned activated sludge
4. Filter screen
5. Vent
6. Settlement compartment inlet
7. Settlement compartment outlet device
8. Pipe for sodium hypochlorite
9. Contact compartment inspection hatch
10. Contact compartment
11. Emergency overflow
12. Float switches
13. Air blowers
14. Pipe for sodium bisulphite
15. Filling connection
16. Discharge pumps
17. Sample points
18. Pump discharge
19. Control panel
20. Air diffuser assemblies
21. R.A.S. air flow meter
22. Aeration compartment
23. Settlement compartment

## EXAMPLES OF DEFICIENCIES:

- Sewage plant found by-passed while in port, inlet valve seized.
- Sewage plant dosing system replaced by alternative means.
- Sewage treatment plant not in use.
- Sewage treatment plant, components missing.
- Sewage treatment plant, electrical wiring tampered with to indicate "ON", while off.
- Disinfecting system, no chemicals on board.
- Sewage discharge pipe found leaking.
- Sight glasses, inspection windows and tubes deteriorated, not clear and/or painted.
- Sewage treatment plant extensively corroded and holed.
- Sewage treatment plant found malfunctioning due to clogged return line.
- Sewage treatment plant found not functional, inability to demonstrate and/or test.

**Name of CEO:**

**Date checked:**