



Consolidated Additional Observations

This questionnaire combines all standard Additional Observation Questions in one condensed questionnaire.

1. SOx Emissions Controls
2. Ballast Water Project
3. Combustion Source Project
4. Food Waste Project
5. Sea Intake Project

Findings can be reported in the spaces provided for each item; feel free to use additional space for notes and information. Sketches, diagrams, photos of handwritten notes, or copies of schematics are welcome.

Several questions are checks on previous Additional Observations, check these against the previous observations. If a ship is required to have an additional observation project on a section below, skip the section below. For example if a combustion source project is required leave the section in this project blank.

A: General Information

Report Start Date:	Jun 19, 2018
Ocean Ranger starting report:	tony.putnik
Ship Name:	Seabourn Sojourn
Ship Code:	ESO
Is this a revision of a previous report (Y/N)?	No

1: SOx Emissions Controls

1.1 Describe the SECA compliance plan.	Only Low sulphur of 0.0008% MGO fuel used.
1.1 Completed by:	Ante Tony Putnik (tony.putnik)
1.2 How does the vessel control SOX emissions in the ECA? Provide description. If the vessel used low sulfur fuels in AK describe the fuel switches and which combustion sources are operated on low fuel sulfur, and when.	Vessel uses exclusively low sulphur of 0.0008% MGO in Alaska.
1.2 Completed by:	Ante Tony Putnik (tony.putnik)
1.3 Is the vessel operating or installing an exhaust gas scrubber system in the 2018 Alaska Cruise Season? If yes, complete section 1A. Otherwise skip to section 2.	No

1.a: SOx Emissions Controls

2: Ballast Water

2.1 Check the previous Additional Observation Reports (section 1.1) list of tanks used for Ballast Water storage. Including volumes and locations. List any changes.	<p>Ballast Tanks</p> <p>No.1 WB After Peak Center - Secondary tk use- Treated Waste Water (BW, GW and G& B mixed). Cap.-147.4m3</p> <p>No.1 WB After Peak S-Side - Secondary tank use- Treated Waste Water (BW,GW and G& B mixed) Cap.-255.7m3</p> <p>No.1 WB After Peak P-Side - Secondary tank use- Treated Waste Water (BW,GW and G& B mixed) Cap.- 255.7m3</p> <p>No.3 Double Bottom Center - Secondary tank use- Treated Waste Water (BW,GW and G& B mixed) Cap.-158.9m3</p> <p>No.4 Double Bottom Ballast/GW S-Side - Secondary tk use- Treated Waste Water (BW,GW and G& B mixed) Cap. -40.5m3</p> <p>No.4 Double Bottom Ballast/GW P-Side - Secondary tank use- Treated Waste Water (BW,GW and G& B mixed) Cap. -40.5m3</p>
--	---

No.5 Double Bottom Ballast/GW S-Side -
Secondary tk use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -58.8m3

No.5 Double Bottom Ballast/GW P-Side -
Secondary tank use- Treated Waste
Water(BW,GW and G& B mixed) Cap. -58.8
m3

No.7 Double Bottom Ballast/GW S-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -77.6m3

No.7 Double Bottom Ballast/GW P-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -77.6m3

No.8 Double Bottom Ballast/GW P-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -85.1m3

No.8 Double Bottom Ballast/GW S-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -85.1m3

No.9 Double Bottom Ballast/GW P-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -90.6m3

No.9 Double Bottom Ballast/GW S-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -90.6m3

No.10 Double Bottom Ballast/GW P-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -49.0m3

No.10 Double Bottom Ballast/GW S-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -49.0m3

No.11 Double Bottom Ballast/GW P-Side -
Secondary tk use- Treated Waste Water
(BW, GW and G& B mixed) Cap. -26.8m3

No.11 Double Bottom Ballast/GW P-Side -
Secondary tk use- Treated Waste Water
(BW, GW and G& B mixed) Cap. -26.8m3

No.12 Double Bottom Ballast/GW S-Side -
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -46.2 m3

No.13 Forepeak Ballast Water Center-
Secondary tank use- Treated Waste Water
(BW,GW and G& B mixed) Cap. -264.3m3

Ante Tony Putnik (tony.putnik)

2.1 Completed by:

2.2 Are ballast water tanks used for wastewater storage?

Yes as per VSSP

2.2 Completed by:

Ante Tony Putnik (tony.putnik)

2.3 Ballast Water system: brief description of the combined piping system
if tanks used for both.

Ballast management not being used to
maintain vessel stability. Ballast tanks used
to store waste water.

2.3 Completed by:

Ante Tony Putnik (tony.putnik)

2.4 Ballast Water treatment installation? If yes, describe operation/system
specifics.

N/A

2.4 Completed by:

Ante Tony Putnik (tony.putnik)

2.5 Ballast Water operations in AK waters (overboard intake/discharge,
etc.)? Include the last date of ballast water discharges. Typically in the
ballast water logs.

No exchange of ballast water being
conducted

2.5 Completed by:

Ante Tony Putnik (tony.putnik)

3: Combustion Sources

3.1 Are there any changes from the previous Additional Observation
projects (Section 2.1) on the propulsion system question on brief
description of propulsion and power systems used on board (Diesel
direct/reduction gears/PTO's DE, FP, CPP Azipod, etc.)?

No changes to any propulsion found.

3.1 Completed by:

Ante Tony Putnik (tony.putnik)

3.2 Are there any changes from the previous Additional Observation projects (Section 1.1) on the list of the combustion equipment used for Power/Propulsion (make/model/output)?

No

3.2 Completed by:

Ante Tony Putnik (tony.putnik)

3.3 Are there any changes from the previous Additional Observation projects (section 3) on the incinerators make, model, fuel used, capacity?

No

3.3 Completed by:

Ante Tony Putnik (tony.putnik)

3.4 Average Hotel power (kW) in port and underway?

In port 1500 KW , underway 2500 KW

3.4 Completed by:

Ante Tony Putnik (tony.putnik)

3.5 Average fuel consumption in port and underway?

In port average consumption of MGO is 0.7 m3 and underway average consumption of MGO is 2,1m3

3.5 Completed by:

Ante Tony Putnik (tony.putnik)

4: Food Waste Garbage Handling

4.1 How is food waste handled and disposed of?

Majority of food waste processed via pulper system and discharge overboard outside VGP waters, rest is landed ashore.

4.1 Completed by:

Ante Tony Putnik (tony.putnik)

4.2 Average food waste production per day (kgs/day)?

Approx. 5300 kg per day, not dewatered

4.2 Completed by:

Ante Tony Putnik (tony.putnik)

4.3 Is the food waste de-watered? If yes, provide dewatering volumes and handling information.

No

4.3 Completed by:

Ante Tony Putnik (tony.putnik)

4.4 How are glass bottles, broken crockery, and ceramics handled?

Via glass crusher and landed ashore

4.4 Completed by:

Ante Tony Putnik (tony.putnik)

4.5 How is food waste monitored and/or recorded?

Garbage record book, NAPA

4.5 Completed by:

Ante Tony Putnik (tony.putnik)

5: Sea Water Intakes

5.1 List all of the seawater intakes (chests); include the locations, frame, side (PS/SB) or compartment.

Chiller room aft frame #95 one Sea Chest PS one on the SB .
Fwd ER frame #71 one Sea Chest on SB .
Afr ER frame #69 one Sea Chest PS .

5.1 Completed by:

Ante Tony Putnik (tony.putnik)

5.2 List filtration systems for each intake. Describe how filter systems are maintained. What is the frequency of cleaning? Is this performed in Alaska?

The filters are stainless steel grid/net/mesh filtration type, one for each sea chest; Filters are cleaned as per planned maintenance independently of the area of the vessel's operation (also in Alaska)

5.2 Completed by:

Ante Tony Putnik (tony.putnik)

5.3 How is debris and mud from filtration/strainers handled?

Debris and mud are collected within the Engine Compartment/Garbage Room and later on disposed (as organic waste/food) to shore reception facility as per local segregation categories and regulations.

5.3 Completed by:

Ante Tony Putnik (tony.putnik)

5.4 Marine Growth Protection Systems in the sea intakes. Description of the control systems and information on chemicals if used.

Ultrasonic Antifouling System (S.E.M. Molecular Energy System) is covering all sea chests; The system does Not use any chemicals.

5.4 Completed by:

Ante Tony Putnik (tony.putnik)

5.5 Hull cleaning in place in Alaska 2018?

No hull cleaning in AK.
Complete hull cleaning was in dry dock
December 2017. Main shaft propellers
cleaned on 6/16/18 in Vancouver .
Ante Tony Putnik (tony.putnik)

5.5 Completed by:

6: General

6.1 Is vessel crew cooperative on this project?

Yes , Chief Engineer and his crew helped with
technical information.
EO helped as much as possible from his side.
Ante Tony Putnik (tony.putnik)

6.1 Completed by:

6.2 Do you feel the vessel has a clear understanding of compliance
requirements?

Yes, using only low sulphur of 0.0008%
MGO, keeping machinery spaces free from oil
and leaks, properly storing various chemicals
and hazmat. Ensuring garbage area is in
compliance regarding garbage
segregation, properly collecting and storing
hazmat for offload in Vancouver.

6.2 Completed by:

6.3 Are there other remarks/ comments the OR wants to share?

EO is very professional, understood AK
regulations and requirements. Has been
sailing in AK since 2015.

6.2 Completed by:

tony.putnik

Z: Signature & Submit

Ocean Ranger Signature:

