

	LARGE COMMERCIAL PASSENGER VESSEL PERMITTED / WASTEWATER DISCHARGE UNDERWAY INSPECTION REPORT Alaska Department of Environmental Conservation Division of Water		Form: AK-LCPV-D
			Last Updated 4/21/2025
1: General Information			
Inspection Date: 8/22/25-8/23/25		Vessel Name: Zaandam	
GP Auth # 2013DB0004-0052	Registration # 2025-CS-0015 v 1.0	IMO #.: 9156527	
Inspection: <input checked="" type="checkbox"/> Announced <input type="checkbox"/> Unannounced Type: <input checked="" type="checkbox"/> Routine <input type="checkbox"/> Other: Describe		Location: (Port City/Dock): Juneau, AK/CT Dock	
Arrival Time (at vessel): 8/22/25 16:25	Inspection Start Date and Time: 8/22/25 16:45	Inspection End Date and Time: 8/23/25 6:00	
Comments Regarding Access (if any): None.			
Opening Meeting: The opening meeting was attended the Environmental Officer and Chief Engineer. The inspector presented their credentials and informed them that the Department was performing a routine inspection assessing permit compliance and discussed the scope and objectives of the inspection. The inspector informed them that they would need access to machinery spaces, the engine control room, and possibly other secure areas that may be necessary to complete inspection and determine compliance. The inspector informed them that photos would be taken, and records may be requested during and/or after the inspection if necessary to confirm compliance. They granted consent to the inspector to perform inspection.			
<input checked="" type="checkbox"/> Compliance Follow-Up (list if applicable): Sampling Exceedance on sampling event AE 37978 performed on 6/21/2025. Vessel had a TRC reading of 94 mg/L (0.0075mg/L is limit) which is a 1,253,233% exceedance of permit limit. A NOV was issued on 7/7/25 (Enforcement Tracking Number: 25-R0276-40-0001)			
DEC Compliance Inspector			
Name: Annie Goodenough Credential #: 353741			
Vessel Representatives		Primary Shoreside Contact	
Environmental Officer: Vitalii Vasyliouski Email: ZADM-Environmental.Officer@hollandamerica.com		Name: Konstantin Konstantinov Title: Director, Fleet Environmental Company: Holland America Line, NV Phone: (661) 210-6296 Email: kkonstantinov@hagroup.com	

2: Wastewater Discharge Documentation and Record Keeping
Checked during previous inspection.
Wastewater Discharge Logs
<input checked="" type="checkbox"/> WW Discharge Logs for previous 3 years available onboard? Type of Record Book: <input checked="" type="checkbox"/> Electronic, <input checked="" type="checkbox"/> Individual Pages, <input type="checkbox"/> Bound Book Electronic logs approved by flag state/class <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> N/A If individual pages are used, are measures taken to ensure the records are tamper-proof? <input type="checkbox"/> YES <input type="checkbox"/> NO <input checked="" type="checkbox"/> N/A Describe: NAPA electronic logs are used. The electronic entries are printed, signed in ink, and scanned. <input checked="" type="checkbox"/> The vessel's name and official number are listed on the front cover and at the top of each page? <input checked="" type="checkbox"/> Each entry of a discharge is recorded without delay, signed and dated, with each completed page, and signed by the Master of the ship? List any emergency discharges, unauthorized discharges or otherwise exceptional discharges and any non-compliance with Sewage and Graywater Discharge record keeping requirements: None reported at the time of inspection.

3: Wastewater System
AWTS (maker information): Zenon ZeeWeed ZenoGem Immersed Membrane Bioreactor
Number of permitted units onboard: 1 Are there any non-permitted units? (units not intended for use in Alaska) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO Rated Design Capacity per unit (m ³ /day): 660 m ³ /day <input checked="" type="checkbox"/> All monitoring operable/in-use <input checked="" type="checkbox"/> AWTS Maintenance planning and spare parts covered by approved vessel maintenance plan <input checked="" type="checkbox"/> Checked for operational alarms indicated on the unit's local control panel General Notes regarding AWTS. Describe overall condition, any maintenance or operational changes, if any that affect system performance including deferred maintenance:

The AWTS system components were observed to be operational. Piping and system components were observed to be free of visible corrosion and in good repair. No leaks or foul odors were observed. One low priority alarm was active on the local alarm panel which indicated low air flow in one of the membranes.

Wastewater Discharge Planning and Procedures

Describe the vessel’s environmental operations voyage planning:

The navigation officers create a planned track using ECDIS and a bridge officer verifies the route. The environmental officer uses One Ocean to verify the route is planned such that necessary environmental operations can occur throughout the voyage in permitted zones. There are arrival and departure meetings on a daily basis. Passage planning meetings occur regularly, but not every week since the itinerary stays the same from week to week.

What guidance (documents or otherwise) does the crew use when discharging?

The Environmental Voyage Plan. Additionally, a proprietary system called One Ocean is used as a reference. The system provides guidance on the locations and types of operations that are allowed by law and company policy. The operational directive also has a comments feature to inform crew members of specific needs of the voyage and company policies.

MARPOL publications available for reference.

Vessel Environmental Voyage Plan available? YES NO

If YES, which operations are included in the plan:

SOx limit, open loop scrubbers, EGCS washwater, incinerator, visible smoke, Nox, bilge water, food waste, recreational water facilities, biosludge, ballast water, dock washing, biofouling, brine, super chlorination, ash disposal, VGP waters.

Prevention of Spills, Unintended or Unauthorized Discharge

Lock or tamper-proof tag used to secure wastewater discharge valves

Remotely operated valves have controlled access

Controlled access to keys

Overflow alarm system in place, which is regularly tested (log entry)

Tank Level Indicators (TLIs) used to determine tank volumes? YES NO

Are ballast water tanks used to hold wastewater? YES NO

Bio-Residue (sludge) Handling

Discharged to sea outside of 12NM from baseline (Sewage and Graywater Discharge Log)

Capacity of holding tank(s): 180 m³

Number of days between required discharges: On this itinerary, biosludge is discharged outside 12 nm from Canada near the beginning and end of each weekly voyage. The maximum time between discharges is 5 days.

Sufficient holding capacity for current itinerary? YES NO

Untreated Wastewater Streams

Check the following waste streams that are discharged to the sea without treatment:

Galley Graywater - treated

Holding capacity: not checked

Food pulper (biodigesters)

Holding Capacity: not checked

Laundry Graywater - treated

Holding capacity: not checked

Recreational (Pool, Spa). Discharged inside of 3 NM? YES NO.

If YES, describe treatment and testing to meet effluent standard:

Holding Capacity: not checked

Regulatory Effluent Sampling

WW sample taken during this inspection? YES NO

Was sample event viewed by inspector? YES NO N/A

General Observations:

AE 38681 approximately 4:00 am

Vessel Process (Effluent) Sampling:

Does the vessel conduct process sampling? YES NO

If YES, check parameters that apply

pH FC TSS BOD COD

Ammonia and Total chlorine are also measured

Frequency of testing:

Every 3-4 days

4: Invasive Species Prevention and VGP Compliance

Ballast Water

EPA/USCG-approved Ballast Water Treatment System

IMO approved only,

Does the vessel conduct ballast water discharges in Alaska waters? YES NO

Approved Ballast Water Management Plan

Hull Husbandry

Approved Bio Fouling Management Plan on board

Date of last inspection of the hull or niche areas (rudder, propellers): July 14, 2025

Photographic report from most recent underwater hull inspection/survey available
(See photo 03)

Cathodic protection/Impressed Current system YES NO

Is underwater hull cleaning to be conducted, planned to occur in AK waters? YES NO

Location (port) where cleanings are planned: Ketchikan

Waste Handling

Garbage Record Book reviewed (Photo 04)

Waste offload receipts correlate to record book entries (Photo 05)

Marine Growth in Sea-Strainers/piping landed as solid waste to shoreside facility

Is the vessel fitted with Garbage Incinerators? YES NO

Does the vessel regularly utilize incineration to manage waste? YES NO

If YES, are units functional and operating properly? YES NO

Ash disposal recorded in Garbage Record Book

Describe what types of wastes are incinerated and where/when incinerator operations are used:

This ship incinerates medical waste only. The last time the incinerator was used, according to logs, was 7/31/25.

Describe food waste processes:

The ship uses biodigestors to process soft food waste. Liquid from the biodigestion process is discharged outside 12 nm. Hard food waste is processed with a biogrinder and dehydrator, stored and then offloaded to become fertilizer in Vancouver.

Photoshop onboard? YES NO

If yes, verified silver recovery process?

Notes on additional waste:

None.

Exhaust Gas Scrubber Systems

Exhaust Gas Scrubber System used? YES NO

If YES, verify the following:

System type: Open loop Closed loop Hybrid

Annual EPA report (previous calendar year) reviewed?

How many days did the vessel report exceedances on the 2024 EPA Annual Report?

4 days had turbidity exceedances.

<p>How many days per voyage does the vessel operate scrubbers in Alaska waters? Every day except when within Glacier Bay National Park boundary.</p> <p><input type="checkbox"/> Viewed/collected a portion of Neptune (or other) EGCS monitoring data for further inspection The Environmental Officer declined to provide monitoring data for the scrubbers.</p> <p>Was a visible residue, sheen, film or carried over particulate observed in wash water discharge? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO</p>
<p>EGCS units installed and corresponding combustion sources. There are 3 scrubbers</p>
<p>Dedicated combustion sources to MGO? 2 DGs run on MGO exclusively.</p>

Dock-Side Observations	
Potable Water bunkering: <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	
WW Discharge observed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	
<input type="checkbox"/> Pump Truck <input type="checkbox"/> City Sewer <input type="checkbox"/> Overboard	
Sheens/Discolorations observed? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	Agency Notified: <input type="checkbox"/> USCG <input type="checkbox"/> DEC-SPAR
If yes, Weather conditions (Wind/Tides): n/a	
Any exterior activity (painting/deck wash etc.)? n/a	
<u>NON-VESSEL Observations:</u> (Dock-side Underway items not relating to vessel) n/a	

SECTION 5: OVERVIEW	
Inspection Observations/Summary	
<p>Upon arrival to Zaandam, the inspector met with the Environmental Officer and Chief Engineer to discuss the scope of the inspection. During the meeting, the inspector requested to have the opportunity to sample EGCS wash water once the vessel was underway. A plan was made to sample EGCS wash water after the planned sampling by Admiralty Environmental of the AWTS wash water. Following the pre-inspection meeting, the inspected visited the EO's office to go through</p>	

paperwork and details regarding the ship’s ballast water system, biofouling reports, garbage records and fuel receipts.

On 8/13/25, the ship bunkered approximately 200 MT of HFO with a sulfur content of 1.6200% and approximately 250 MT of MGO with a sulfur content of 0.0007%.

At 18:20, the inspector visited the machinery space to look at the AWTS system and local control panel. Following the inspection of the machinery space, the EO and inspector parted ways.

The inspector toured the outer decks between 19:30-20:30. No sheens were visible in the water at this time. At approximately 20:30, the inspector received a call from the EO that the **ship declined to sample the EGCS wash water**. The vessel departed Juneau late in the evening after dark.

The inspector, sampler from Admiralty Environmental, and EO met at 3:30 the following morning to conduct the AWTS sampling. The inspector verified the location of the sampling point and witnessed the sample at about 4:00.

While docking, the inspector visited the outer decks to look for sheens (there were none). The inspector departed the ship at 6:15.

Additional Comments:

None.

SECTION 6: FOLLOW-UP

Compliance Assistance Items

None.

Signature	
<p>Inspector – Annie Goodenough Credential Number: 353741 Phone: (907) 465-5276 E-mail: annie.goodenough@alaska.gov</p> <p>Reviewed By – Ben Eisenstein Credential Number: R-598 Phone: (907) 465-5161 E-mail: ben.eisenstein@alaska.gov</p>	<p> Date: 9/4/2025</p> <p> Date: 9/4/2025</p>

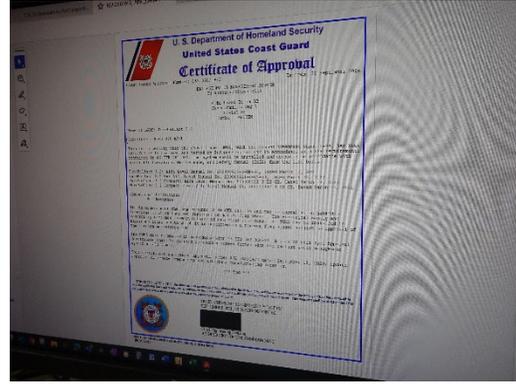
Photo Addendum

Photo 01



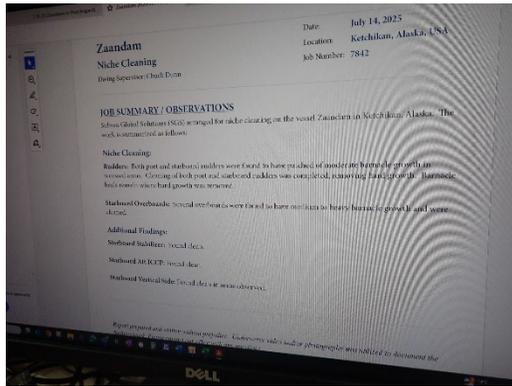
Zaandam CT dock, Juneau starboard side

Photo 02



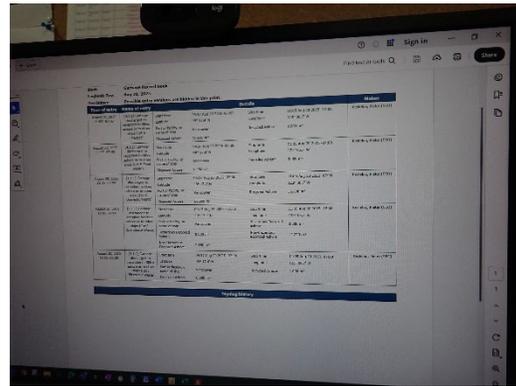
USCG Ballast water approval

Photo 03



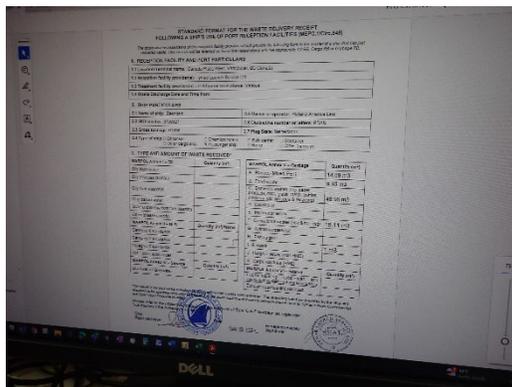
Niche cleaning July 14, 2025

Photo 04



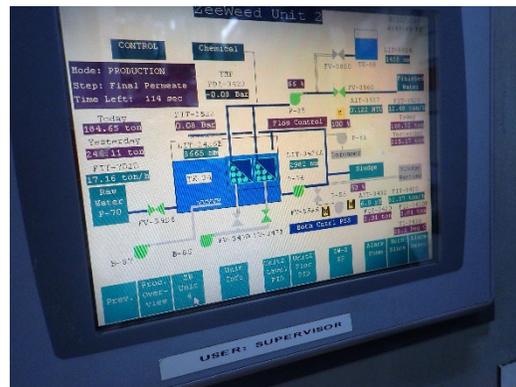
NAPA Garbage Record Book

Photo 05

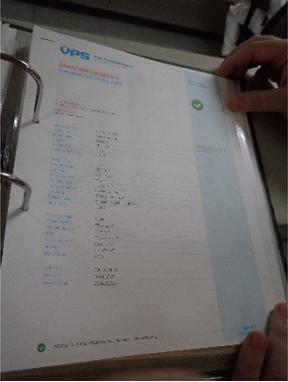
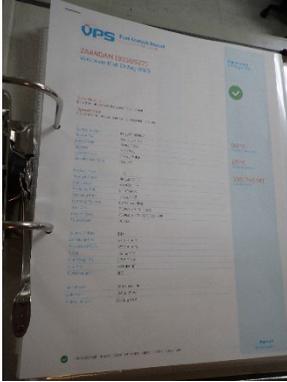


Tarmac receipt 8/20/25

Photo 06



AWT's local control panel

Photo Addendum	
Photo 07	Photo 08
	
AWTS Alarm panel	Quantum of the Seas underway from Marine Park
Photo 09	Photo 10
	
AE Sampler	Environmental permissions screen
Photo 11	Photo 12
	
Vancouver 8/13/25 250MT 0.0007% sulfur	Vancouver 8/13/25 200MT 1.6200% sulfur