	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: 8/6/2025-8/7/2025		Vessel Name: Nieuw Amsterdam
GP Auth # 2013DB0004-0023	Registration # 2025-CS-0017	IMO #.: 9378450
Inspection: ☒ Announced ☐ Unannounced Type: ☒Routine ☐Other: Describe		Location: (Port City/Dock): Skagway, Broadway Dock to Juneau Franklin Dock
Arrival Time (at vessel): 1500hrs	Inspection Start Date and Time: 8/6/25, 1600hrs	Inspection End Date and Time: 8/7/25, 1000hrs
Comments Regarding Access (if any): None		
Opening Meeting: The opening meeting was attended by: the Staff Captain and, Environmental Officer (EO) and Chief Engineer (CE). The inspector presented their credentials and informed the staff captain 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 the inspector 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 the staff captain and others attending that photos would be taken and records may be requested during and/or after the inspection if necessary to confirm compliance. The inspector requested to conduct sampling of the Exhaust Gas Cleaning System (EGCS) washwater. The EO informed the inspector that the vessel had been given instructions from their parent company to not allow washwater sampling and access to data pertaining to EGCS compliance. The staff captain granted consent to conduct the inspection without the sampling of EGCS washwater.		
☐ Compliance Follow-Up (list if applicable): NA		

DEC Compliance Inspector
Name: Markl Chryss Credential #: R-605

Vessel Representatives	Primary Shoreside Contact
Vessel Staff Captain: J L van den Nouland Email: NADM-staff_captain@hollandamerica.com Environmental Officer: Marcel van Zwol Email: NADM-envorinmental_officer@hollandamerica.com	Name: Konstantin Konstantinov Title: Director, Fleet Environmental Company: Holland America Email: kokonstantinov@hollandamerica.com

2: Wastewater Discharge Documentation and Record Keeping
Passengers onboard (during this voyage): 2,182 guests and 853 crew members
☒ Quality Assurance Project Plan (QAPP): Approved copy onboard?
☒ Vessel Specific Sampling Plan (VSSP): Approved copy onboard?
☒ DEC WW GP 2013DB-0004: Copy onboard? Authorized to discharge: ☒ Underway, ☐ Stationary, ☐ Skagway Additional Terms and Conditions, if any (Authorization Section 5, GP 4.3.2), (e.g., only GW in port, etc.): Above 6 kts
☒ USCG Discharge Authorization Copy onboard? Date and location of most recent USCG inspection: 6/26/2025 Juneau
Other Documents Reviewed: Oil record book, waste discharge records, garbage records and offload receipts, EGCS maintenance documents (washwater quality and instrument calibration records), Voyage planning.
Wastewater Discharge Logs
☒ WW Discharge Logs for previous 3 years available onboard? Type of Record Book: ☒ Electronic, ☐ Individual Pages, ☐ Bound Book Electronic logs approved by flag state/class ☒YES ☐NO ☐N/A If individual pages are used, are measures taken to ensure the records are tamper-proof? ☐YES ☐NO Describe: NA ☒ The vessel's name and official number are listed on the front cover and at the top of each page? ☒ 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: Wastewater discharge records were reviewed and found to be in order. No exceptional or emergency discharges were noted in the review or reported by the Environmental Officer.

3: Wastewater System

AWTS (maker information): Hamworthy MBR Bio Membrane

Number of permitted units onboard: 2

Are there any non-permitted units? (units not intended for use in Alaska) ☐ YES ☒ NO

Rated Design Capacity per unit (m^3/day): 360 M^3/day

☒ All monitoring operable/in-use

☒ AWTS Maintenance planning and spare parts covered by approved vessel maintenance plan

☒ 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 with no indications of system faults or alarms on the local control panel. Piping and system components were observed to be free of visible corrosion and in good repair. No leaks or foul odors were observed.

Wastewater Discharge Planning and Procedures

Describe the vessel's environmental operations voyage planning:

A meeting is held with attendees from the navigation officers, engineers and environmental operations departments prior to sailing. Department stakeholders determine the locations and times to perform various environmental operations and develop a schedule to conduct the planned operations which becomes the environmental voyage plan.

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.

☒ MARPOL publications available for reference.

Vessel Environmental Voyage Plan available? ☒YES ☐NO

If YES, which operations are included in the plan: Wastewater dischargers (permeate), fuel changeover, EGCS operations, deck washing, visible smoke, brine discharges, soot blowing

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 manual soundings required for any WW holding tanks? ☐YES ☒NO

Are ballast water tanks used to hold wastewater? ☒YES ☐NO

If YES, where are internal transfers of wastewater logged?

14 water ballast tanks are listed in the VSSP with a capacity of 5,541 M^3. Only wastewater discharges are logged with the graywater discharge log. There were no examples of transfers of treated or untreated water internally in the records.

Describe communication of authorization to begin and stop WW discharges. Include steps taken to open and secure discharge valves:

When the vessel is at the correct speed and position to perform wastewater discharge operations, the bridge will contact the engine control room (ECR) and make an announcement indicating that operations can begin (or must be stopped). The instructions are read back and confirmed by the watch engineer. Remotely operated valves are opened and closed and interlocked. Discharges that do not have remotely operated valves are secured with locks when the vessel is not permitted to discharge or discharge is prohibited by law.

Bio-Residue (sludge) Handling

☒ Discharged to sea outside of 3NM from baseline (Sewage and Graywater Discharge Log)

Capacity of holding tank(s): 52.3 M^3

Number of days between required discharges: 4 days

Sufficient holding capacity for current itinerary? ☒YES ☐NO

Is any bio residue discharged to shore facilities or incinerated (Garbage Record Book)? ☐YES ☒NO

Untreated Wastewater Streams

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

☒ Galley Graywater

Holding capacity: 165 M^3

☒ Food pulper/Digestor

Holding Capacity: 125 M^3 (food waste tanks)

☒ Laundry Graywater

Holding capacity: 115 M^3

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

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

Holding Capacity: Spas are included in galley and Laundry. Pools can discharge to the sea outside State waters.

Where are rec water discharges recorded? In NAPA under WW discharges.

Regulatory Effluent Sampling

WW sample taken during this inspection? ☒YES ☐NO

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

General Observations: Unannounced sampling, Conventional and Priority parameters were sampled. Results of the sampling event are shown in the table below:

Nieuw Amsterdam
USCG/ADEC Conventional and Priority Pollutants / Unannounced, > 6 knots
August 7, 2025
Underway

Analytical Report
Admiralty Environmental EPA ID AK 00976
AE 38513

Sample Location	OB Discharge - Port E
Date & Time Sampled	08/07/2025; 04:52
pH	7.32
Temperature (°C)	28.1
Free Chlorine (mg/L)	<0.1
Total Chlorine (mg/L)	<0.1
Fecal Coliform (FC/100ml)	<2.0
BOD (mg/L)	7.7
TSS (mg/L)	<4.0
Specific Conductance (umhos/cm)	804
Ammonia (mg/L)	32
Total Kjeldahl Nitrogen, TKN (mg/L)	52
Settleable Solids (ml/L)	<0.1
COD (mg/L)	63
Nitrite/Nitrate as N (mg/L)	29
E. coli (MPN/100ml)	<1.0

Vessel Process (Effluent) Sampling:

Does the vessel conduct process sampling? ☒YES ☐NO

If YES, check parameters that apply

☒ pH ☒ FC ☒ TSS ☒ BOD ☒ COD ☒Chlorine

Frequency of testing: 3 days, (BOD 5)

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): Feb 23, 2025

Date of last drydocking: 18 Dec 2023 ☒ Photographic report from most recent underwater hull inspection/survey available

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: NA

Waste Handling

☒ Garbage Record Book reviewed

☒ Waste offload receipts correlate to record book entries

☒ 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:

Cardboard, paper, and dry solids are incinerated. Used outside of port areas in accordance with company policy.

Describe food waste processes: Food is sorted. Soft foods are manually loaded into bio-digesters. Bio-digested food waste is stored in silos and discharged to the sea. Hard foods are reduced in size and cold stored for offload to shoreside facilities outside of Alaska.

Photoshop onboard? ☒YES ☐NO

☒ If yes, verified silver recovery process?

Notes on additional waste:

Solid waste is collected, sorted and reduced in size by grinding or compaction and palletized for offload to shoreside facilities outside of Alaska. Hazardous waste is segregated and landed to a service provider outside of Alaska.

Exhaust Gas Scrubber Systems

Exhaust Gas Scrubber System used? ☒YES ☐NO

If YES, verify the following:

System type: ☒ Open loop ☐ Closed loop ☐ Hybrid

☒ Current endorsed Class annual EGCS survey available for all units

☒ Annual wash water effluent discharge test report available

☒ All continuous monitoring probes calibrated (required at least annually)

☒ Technical Manual available for EGCS (certified documentation provided by the EGCS manufacturer.)

*EGCS malfunction that lasts more than one hour or repetitive malfunctions should be reported to the flag and port State's Administration along with an explanation of the steps the ship operator is taking to address the failure MEPC.1Circ. 883

☒ Annual EPA report (previous calendar year) available? Yes

How many days did the vessel report exceedances on the 2024: The annual report indicates that 40 occurrences (ambiguously reported for pH in 2 months) of exceedances, most of which are reported in the Alaska summer season.

How many days per voyage does the vessel operate scrubbers in Alaska waters? Daily (each day they are in Alaska, scrubbers are used).

☒ Viewed/collected a portion of Neptune (or other) EGCS monitoring data for further inspection:

Monitoring data was reviewed and photographed. The data shows exceedances of turbidity on 8/5/25 for a period of 18 minutes when an engine operating on HFO was shut down.

EGCS units installed and corresponding combustion sources.

6 Engines. 2 Engines run on MGO. All engines are capable of operating on HFO and MGO.

Dedicated combustion sources to MGO?

DG's 3 and 4 is reported to solely operate on MGO but are capable of burning HFO with EGCS.

Was a visible residue, sheen, film or carried over particulate observed in wash water discharge?

☐YES ☒NO

Dock-Side Observations
Potable Water bunkering: ☐YES ☒NO
WW Discharge observed? ☒YES ☐NO ☐ Pump Truck ☐ City Sewer ☒ Overboard
Sheens/Discolorations observed? ☐YES ☒NO Agency Notified: ☐USCG ☐DEC-SPAR If yes, Weather conditions (Wind/Tides): NA

Any exterior activity (painting/deck wash etc.)?

None

NON-VESSEL Observations: (Dock-side Underway items not relating to vessel)

None

SECTION 5: OVERVIEW

Inspection Observations/Summary

The inspector joined the vessel at 1600 and met with the vessel Staff Captain and Environmental Officer for a brief meeting to discuss the scope and objectives of the inspection. After the opening meeting, the inspector conducted a thorough review of required documents, log books and records followed by a walk around the decks of the vessel and a discussion of VGP compliance and discussed the time and location to perform a discharge for sampling until 1930 hrs. At 0345 hrs on 8/7/25, the inspector was escorted to the machinery Engine Control Room (ECR) to meet a sampling technician from Admiralty Environmental and the EO to conduct an unannounced sampling of the wastewater treatment system which is a routine requirement for permitted wastewater discharge vessels. At 0730 the inspector met with the vessel's engineering staff and reviewed EGCS, maintenance records, certificates of instrument calibration, washwater test results reports and reviewed collected compliance computer data. At 0915 the inspector toured the vessel's solid waste and food waste handling facilities with the E O and completed the inspection. At 1000 hrs the inspector disembarked the vessel.

Additional Comments:

The vessel's staff were courteous and professional, all required documents and records were accessible and available for review and found to be in order. The wastewater treatment plant was observed to be operational with no visible signs of corrosion and no faults or alarms indicated on the local operations panels. Food waste and solid waste handling facilities were observed to be clean and orderly.

Observation:

The vessel's annual EPA compliance report for 2024 shows that approximately 40 circumstances were reported where EGCS washwater parameters were exceeded with most occurring during the summer months when the vessel routinely calls Alaskan ports. A review of the compliance data prior to arrival showed extremely high turbidity on 8/5/2025 which was above the allowable time limit. The exceedance occurred when the engine was shutdown (chart shows 0% power). A check of the 2025 EPA compliance report will be made to ensure that the exceedance and any others that occur after engine shutdown are reported as VGP violations in the required annual report to the EPA and not omitted because the engine is off-line. This information has been shared with EPA Region 10. Any discrepancies in reporting any observed exceedances in the photographed compliance data will be forwarded to the EPA for follow up.

SECTION 6: FOLLOW-UP
Compliance Assistance Items
No compliance assistance was necessary. There were no noncompliance items or violations observed within the scope of the inspection.

Signature	
Inspector – Mark Chryss Credential Number: R-605 Phone: (907) 269-4720 E-mail: mark.chryss@alaska.gov	Mark Chryss Date: 9/15/2025
Reviewed By – Ben Eisenstien Credential Number: R-598 Phone: (907) 465-5161 E-mail: ben.eisenstein@alaska.gov	 Date: 10/7/2025

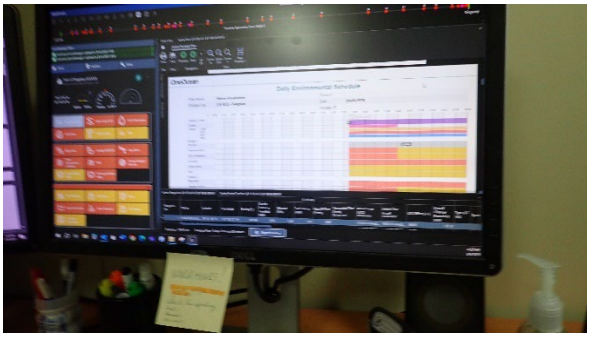
Photo Addendum	
Photo 01	**Photo 02**
	
Vessel at pier in Skagway, Alaska	Environmental voyage plan

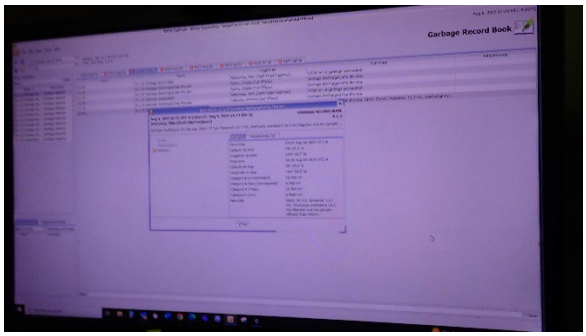
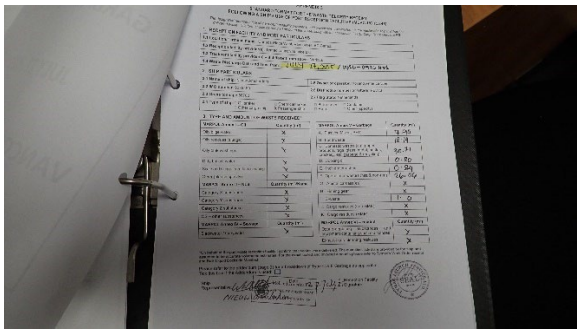
Photo 03	**Photo 04**
	
Garbage record log	Garbage offload receipts

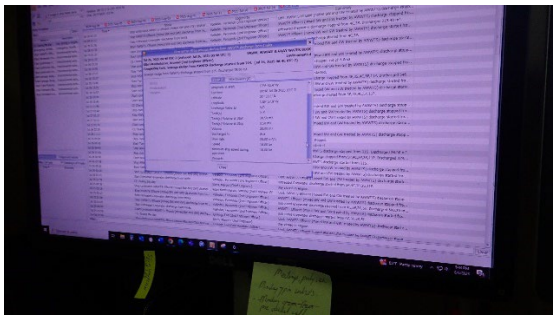
Photo 05	**Photo 06**
	
Wastewater discharge records	Wastewater sample valve

Photo Addendum	
Photo 07	**Photo 08**
	
Field parameters recorded from sample	Sample ID photo

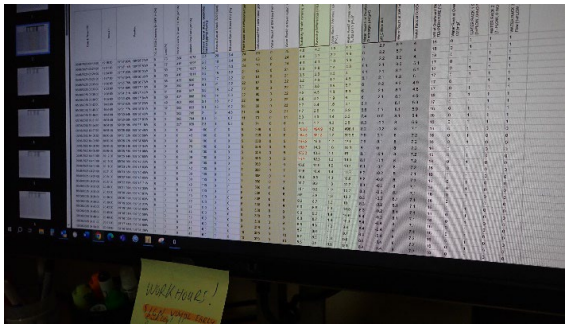
Photo 09	**Photo 10**
	
Washwater exceedance 8/5/2025, near Juneau	Food waste processor

Photo 11	**Photo 12**
	
Food dehydrator	Garbage sorting room