



THE STATE  
of **ALASKA**  
GOVERNOR MIKE DUNLEAVY

Department of Environmental  
Conservation

DIVISION OF WATER

Wastewater Discharge Authorization Program

555 Cordova Street  
Anchorage, Alaska 99501-2617  
Main: 907.269.6285  
Fax: 907.334.2415

[www.dec.alaska.gov/water/wwdp](http://www.dec.alaska.gov/water/wwdp)

April 8, 2022

Konstantin Konstantinov  
Holland America Group  
601 W 5<sup>th</sup> Ave, #501  
Anchorage, AK 99501

Re: Authorization to Discharge 2013DB0004-0041: Discovery Princess

Dear Mr. Konstantinov:

The Alaska Department of Environmental Conservation (DEC) has completed its review and acknowledges that you have submitted a complete Notice of Intent (NOI) form for the 2013DB0004 Large Commercial Passenger Vessel Wastewater Discharge General Permit (Permit).

The Discover Princess is hereby authorized to discharge treated wastewater into Alaska marine waters and is issued wastewater discharge authorization number 2013DB0004-0041. Discharge from this vessel is authorized in accordance with the terms and conditions of the general permit and any vessel-specific conditions included in this document.

An electronic copy of the Permit and this authorization is available at the Department website <http://dec.alaska.gov/water/cruise-ships/cruise-general-permit/>.

**The following are vessel specific conditions that apply to this authorization:**

- 1) Treated wastewater discharge is authorized when the vessel is operating at speeds of 6 knots or greater.
  - a. Mixing Zone: Mixing zone size for the permittee is authorized for discharges at speeds of 6 knots or greater and is limited to 63 meters in length, 5 meters in width, and a depth from the water surface to the depth the discharge port is below the water surface plus one meter. The shape of the mixing zone is an elongated rectangle that extends from the discharge port towards the stern of the ship. See Permit Section 5.2.3.
  - b. Effluent Limits and sampling requirements are identified in Tables 3 and 5 of the Permit
- 2) Treated wastewater discharge is authorized when the vessel is operating at speeds of less than 6 knots.
  - a. Mixing Zone: Mixing zone size for permittees authorized for discharges at speeds under 6 knots, excepted as specified in Section 5.2.5, is limited to a radius of 83 meters and a depth from the water surface to the depth the discharge port is below the water surface plus one meter. The mixing zone will extend away from the hull of the vessel in a semicircle centered on the discharge port. See Permit Section 5.2.4.
  - b. In-port discharge is only authorized from a single port that is located on the outboard side of the vessel from the dock.
  - c. Effluent Limits and sampling requirements are identified in Tables 4 and 6 of the Permit.
  - d. During the first year of vessel operation in Alaska waters, Whole Effluent Toxicity (WET) Testing is required monthly in accordance with Permit Section 6.9.4.

- 3) Receiving Water Monitoring is required twice per year in accordance with Permit Section [6.9.3](#).
- 4) Discharge from multiple ports simultaneously is prohibited.

The permittee is reminded of the following permit requirements, and is responsible for all submissions and activities in the Permit even if they are not summarized below:

- All Commercial Passenger Vessels must register annually see Permit Part [2.1.3](#).  
<http://dec.alaska.gov/water/cruise-ships/cruise-registration/>.
- As per Permit Part [4.2.3](#), the permittee shall notify the Department, in writing, of wastewater treatment system modifications that change information provided to the Department in the approved NOI form at least 48 hours prior to the discharge of any treated wastewater into marine waters of the state. The NOI Application form can be accessed at the Departments website <http://dec.alaska.gov/water/cruise-ships/cruise-general-permit/>.
- Quality Assurance Project Plan (QAPP) see Permit Part [6.1](#): The owner/operator of a vessel that intends to discharge wastewater into Alaskan waters must submit a wastewater sampling QAPP to ADEC for approval.
- Vessels Specific Sampling Plan (VSSP) see Permit Part [6.2](#): All vessels are required to have an approved Vessel Specific Sampling Plan (VSSP) 21 days before sampling.
- Sampling requirements for discharges underway at speeds greater than 6 knots and associated effluent limits can be found in Tables [2](#), [3](#) and [5](#) of the permit.
- Sampling requirements for discharges at speeds less than 6 knots and associated effluent limits are located in Tables [4](#) and [6](#) of the permit.
- Discharge Monitoring Reports (DMRs): see Permit Part [7.2](#): DMRs are required for each calendar month that the vessel operated in the marine waters of the state and must be submitted within the first 21 days of the following calendar month.
- Submit all CPVEC registration correspondence, support documents, and reports to:  
[DEC.WQ.Cruise@alaska.gov](mailto:DEC.WQ.Cruise@alaska.gov) or mail to: ADEC-CPVEC, ATTN: Cruise Ship Program P.O. Box 111800 Juneau, AK 99811-1800.
- A copy of the General Permit 2013DB0004 and this authorization letter must be kept onboard the vessel. This letter does not relieve the permittee from other local, state, or federal government permitting requirements.

Please reference your permit authorization number 2013DB0004-0041 and vessel name in all future correspondence. If you have any questions regarding the above, please contact Sam Kito at 907-269-7542, or via email at [Sam.Kito@alaska.gov](mailto:Sam.Kito@alaska.gov).

Sincerely,



James Rypkema

Program Manager, Cruise Ship Permitting

Enclosure: NOI

cc: [DEC.WQ.Cruise@alaska.gov](mailto:DEC.WQ.Cruise@alaska.gov)



## NOTICE OF INTENT FORM

**Notice of Intent to be covered under the Wastewater General Permit 2013DB0004 for Large Commercial Passenger Vessels Operating in Alaska (See Sections 2 and 3 of the permit.)**

Submission of this document constitutes a request that certain discharges into marine waters of the state resulting from the operation of the large commercial passenger vessels identified herein be authorized under General Permit 2013-DB0004.

**Vessel Owner Information**

Who is the main point of contact for the vessel? (e.g. owner, operator, or Alaska Agent):

[Operator](#)

Vessel Owner's Business Name: [Princess Cruise Line, Ltd.](#)

Mailing Address: [24305 Town Center Drive](#)  
[Santa Clarita, CA 91355](#)

Phone: [661 753 2724](#)

Representative: [Konstantin Konstantinov](#)

Email:  
[kkonstantinov@hagroup.com](mailto:kkonstantinov@hagroup.com)

**Vessel Owner's or Operator's Alaska Agent Information**

Company Name: [Holland America Group](#)

Mailing Address: [601 W 5<sup>th</sup> Avenue #501, Anchorage, AK 99501](#)

Phone: [907-264-2128](#)

Representative: [Ralph Samuels](#)

Email:  
[rsamuels@hollandamericagroup.com](mailto:rsamuels@hollandamericagroup.com)

**Vessel Operator's Business Name if Different From the Owner's Business Name**

Vessel Operator's Business Name: [Same as "Owner"](#)

Mailing Address:

Phone:

Representative:

Email:

<b>Vessel Information (Y/N)</b>	
Are you seeking authorization to discharge with a mixing zone?	<b>Y</b>
Are you seeking authorization to discharge while moving at 6 knots or greater?	<b>Y</b>
Are you seeking authorization to discharge while moving at under 6 knots?	<b>Y</b>
Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?	<b>N</b>
<b>If the permittee is seeking authorization which includes a mixing zone, attach (may be emailed separately) a drawing to scale that indicates the length of the vessel and the locations of all wastewater effluent penetration points (ports) on the hull.</b>	
Vessel Name:	Discovery Princess
Vessel IMO Number:	9837468
Vessel Gross Tonnage:	145281
Port of Registry:	Hamilton, Bermuda
Maximum Passenger Capacity per Voyage:	4450
Maximum Crew Capacity per Voyage:	1250
Vessel Draft <sup>1</sup> :	8.5 meters
Vessel Length in Meters at Waterline <sup>2</sup> :	330 m
<b>Vessel Tracking</b>	
Method of submitting hourly vessel tracking information while in Alaskan waters (Marine Exchange of Alaska AIS or other Department approved method):	
Name, physical address, and mailing addresses of the service:	Marine Exchange of Alaska 1050 Harbor Way Juneau, AK 99801
Contact's name, email address, and phone number:	Marine Exchange of Alaska 907-463-2607 <a href="mailto:INFO@MXAK.ORG">INFO@MXAK.ORG</a>

<sup>1</sup> Vessel draft under a) loaded condition for Alaska operations (bunkers / waste water storage etc.) and b) under light ship conditions for Alaska operations (bunkers empty / no waste water storage etc.)

<sup>2</sup> Length of Waterline (LWL) under normal load in standard Alaska conditions.

<b>Discharge Port Characteristics</b>			
<b>Note: If there is more than one discharge port attach a sheet with the characteristics below for each AWTs Port. If more than one discharge pump attach sheet with capacity for each.</b>			
Discharge Port Name <sup>3</sup> :	Discharge Port B	Location (Starboard/Port):	Starboard
Discharge Port Internal Diameter:	20 cm	Discharge Port Centerline Vertical Distance from Keel:	6.2 meters
Discharge Port Distance from Bow at Waterline (normal load):	273 meters	Discharge Port Centerline Vertical Distance from Waterline (normal load) <sup>4</sup> :	2.1 meters below waterline
Discharge Port shape (round, oval, square):	Round	Discharge Port Pump Capacity (m <sup>3</sup> /hr) for each Pump <sup>5</sup> :	100 m <sup>3</sup> /h max capacity; 42 m <sup>3</sup> /h anticipated normal operating capacity
Discharge Port Vertical Angle Relative to Waterline <sup>6</sup> :	90 Deg	Discharge Port Horizontal Angle Relative to Centerline <sup>7</sup> :	90 Deg

<b>Wastewater Discharge Information</b>		
Estimates of the average and maximum volume of the wastewater to be discharged per 24 hour period (in cubic meters), and the beginning and ending dates between which discharges may occur the first year of the permit;	Average:	850 m <sup>3</sup>
	Maximum:	950 m <sup>3</sup>
	Startup Date:	05/05/2022
	Ending date:	09/23/2022

<sup>3</sup> Name or identification as used in VSSP and Waste Water Discharge Logbook.

<sup>4</sup> Vertical distance from the vertical centerline of the discharge port relative to the standard (loaded) conditions waterline.

<sup>5</sup> Treated wastewater discharge pump for the named discharge port. For vessels with variable speed / capacity pumps identify the effective discharge capacities. For vessels with more than one pump simultaneously operated identify the total effective pump capacities.

<sup>6</sup> Parallel with the Vertical Longitudinal Center Plane orientation of the hull orientation angle defined as the angle in degrees between the horizontally perpendicular projected line originating from the vertical longitudinal center plane of the hull self to the center of the discharge port, and the projected perpendicular line originating from the port center self (face) vertically directed to the center plane of the hull (Y-Y axis).

<sup>7</sup> Parallel with the Vertical Longitudinal Center Plane orientation of the hull orientation angle defined as the angle in degrees between the horizontally perpendicular projected line originating from the vertical longitudinal center plane of the hull self to the center of the discharge port, and the projected perpendicular line originating from the port center self (face) horizontally directed to the vertical center plane of the hull (X-X axis).

The type, number, and combined maximum design capacity in cubic meters per 24 hour period of all advanced wastewater treatment systems (AWTS) onboard;	Type (s) (including manufacturer, model name, model number, and year built):	Hamworthy Membrane Bioreactor Type III MBR 24 x 2  Built 2022
	Number of AWTS:	2
	Combined design capacity:	830 m3 /24hr for each MBR
Type(s) of sewage treatment and system capacity in cubic meters per 24 hour period;	Type (s) (including manufacturer, model name, model number, and year built):  Hamworthy Membrane Bioreactor  Combined design capacity: 830 m3/24hr for BW MBR	
Type(s) of graywater treatment and system capacity in cubic meters per 24 hour period;	Type (s) (including manufacturer, model name, model number, and year built):  Hamworthy Membrane Bioreactor  Accommodation – 500 m3/24hr  Combined design capacity: 830 m3/24hr	
Average volume of sewage generation per day in cubic meters;	80 m3 / 24hr	
Maximum volume of sewage generation per day in cubic meters;	100 m3 / 24hr	
Average graywater generation per day in cubic meters for the following sources;	Accommodations: 500 m3/24hr  Galley: 230 m3/24hr  Laundry: 100 m3/24hr  Other (list types and volumes): N/A	
Maximum graywater generation per day in cubic meters for the following sources;	Accommodations: 600 m3/24hr  Galley: 300 m3/24hr  Laundry: 200 m3/24hr  Other (list types and volumes): N/A	

The method of handling and disposal of sludge and biosolids produced from the treatment of sewage and graywater.

The desludging of MBR systems will take place > 12 NM outside of Alaska permit waters.

**Signature and Certification for NOI**

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature of Responsible Corporate Officer

**Konstantin  
Konstantinov**

Digitally signed by Konstantin Konstantinov  
DN: cn=Konstantin Konstantinov, o=Holland  
America Group, ou=Deputy Director,  
Environmental Operations and Policy,  
email=kkonstantinov@hagroup.com, c=US  
Date: 2022.03.02 09:03:35 -08'00'

Printed Name

Konstantin Konstantinov

Title/Company

Deputy Director, Environmental Operations and Policy,  
Holland America Group

Date

3/2/2022

**Submit this Notice of Intent to:**

**Commercial Passenger Vessel Environmental Compliance Program  
Division of Water  
Alaska Dept. of Environmental Conservation  
410 Willoughby Avenue, Suite 303  
PO Box 111800  
Juneau, AK 99811-1800**