



THE STATE  
of ALASKA

GOVERNOR MICHAEL J. DUNLEAVY

Department of Environmental  
Conservation

DIVISION OF WATER  
Commercial Passenger Vessel  
Environmental Compliance Program

410 Willoughby Ave, Ste 303  
PO Box 111800  
Juneau, Alaska 99811-1800  
Main: 907-465-5300  
Fax: 907-465-5274  
[www.dec.alaska.gov](http://www.dec.alaska.gov)

March 11, 2019

Sarah Ferguson-Brown  
Norwegian Cruise Line Holdings, Ltd.  
7665 Corporate Center Drive  
Miami, FL 33126

ADEC File Number 920.45.057

Re: **Authorization to Discharge 2013DB0004-0028, Norwegian Bliss**

Dear Ms. Ferguson-Brown:

The Alaska Department of Environmental Conservation (DEC) authorizes continued operation of the *Norwegian Bliss* under the Large Commercial Passenger Vessel Wastewater Discharge General Permit No 2013DB0004 (hereinafter 2014 GP), and has issued the enclosed Authorization 2013DB0004-0028. This authorization is updated for 2019 and removes the ammonia limits specified in 2018 based on sample data taken in the 2018 Alaska cruise season.

ADEC completed its original review of your Notice of Intent (NOI) and other related documentation submitted on April 20, 2018 for the *Norwegian Bliss*. Based upon its review and the submitted VSSP documentation, DEC authorizes the *Norwegian Bliss* for discharge of treated wastewater into Alaska marine waters as provided in the authorization letter; please, note the specific restrictions on mixing zones (Skagway Ore and Broadway docks) of the authorization.

For those authorized discharges, the 2014 General Permit requires compliance demonstration through sampling of wastewater. Underway sampling requirements and effluent limits can be found in Tables 3 and 5 of the 2014 GP for mixed wastewater or blackwater. Stationary sampling requirements and effluent limits can be found in Tables 4 and 6 of the 2014 GP for mixed, black, or graywater.

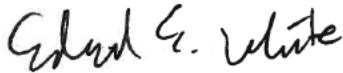
Compliance with all other terms and conditions is expected at all times. Any changes made to the wastewater treatment installation or sampling port must be reported in an updated Vessel Specific Sampling Plan (VSSP) prior to sampling.

Any person who disagrees with this decision may request an adjudicatory hearing in accordance with 18 AAC 15.195 - 18 AAC 15.340 or an informal review by the Division Director in accordance with 18 AAC 15.185. Informal review requests must be delivered to the Director of Water, 410

Willoughby Ave., Suite 303, P.O. Box 111800, Juneau, Alaska 99811-1800, within 15 days of receipt of the permit decision. Adjudicatory hearing requests must be delivered to the Commissioner of the Department of Environmental Conservation, 410 Willoughby Ave., Suite 303, P.O. Box 111800, Juneau, Alaska 99811-1800, within 30 days from the date of the permit decision. If a hearing is not requested within 30 days, the right to appeal is waived.

If you have any technical questions concerning this authorization, please contact me at [edward.white@alaska.gov](mailto:edward.white@alaska.gov) or (907) 465-5138.

Sincerely,

A handwritten signature in black ink that reads "Edward G. White". The signature is written in a cursive style with a large, stylized "E" and "W".

Edward White  
CPVEC (Cruise Ship) Program Manager

Enclosure: Authorization 2013DB0004-0028



## AUTHORIZATION TO DISCHARGE

Alaska Department of  
Environmental  
Conservation  
Division of Water  
CPVEC Program

AUTHORIZATION TO DISCHARGE UNDER THE LARGE COMMERCIAL PASSENGER  
VESSEL WASTEWATER DISCHARGE GENERAL PERMIT NO. 2013DB0004

**FACILITY ASSIGNED AUTHORIZATION NUMBER: 2013DB0004-0028**

**GENERAL PERMIT NUMBER: 2013DB0004**

See this General Permit for all permit requirements.

The following facility is authorized to discharge in accordance with the terms of the State of Alaska General Permit 2013DB0004 and any specific requirements listed in this authorization.

The authorization effective date is **March 11, 2019**.

The authorization to discharge shall expire at midnight, **on the expiration date of the General Permit** unless notified by the Department.

The permittee must reapply for an authorization when the Department issues a General Permit that replaces 2013DB0004 if the permittee intends to continue operations and discharges from the facility.

### SECTION 1 - RESPONSIBLE PARTY INFORMATION

|            |                  |
|------------|------------------|
| Issued to: | Seahawk One, LTD |
|------------|------------------|

### SECTION 2 - FACILITY INFORMATION

|   |  |
|---|--|
| ADEC File Number:                               | 920.45.057   |
| Authorization Number                            | 2013DB0004-0028  |
| Facility Name:                                  | Norwegian Bliss  |
| Type of Facility                                | Large Commercial Passenger Vessel  |
| Type of Wastewater<br>Authorized for Discharge: | Treated wastewater   |
| Type of Wastewater<br>Treatment System:         | Scanship AWP 60, Build 2018 Type II AWTS   |
| Type of Authorization:                          | Authorized for discharge of wastewater treated through a Scanship Type II AWTS configuration as approved by the Department in the current Vessel Specific Sampling Plan while underway at speeds greater than 6 knots. |

|  |  |
|--|--|
|  | Authorization for discharge of wastewater treated through a Scanship Type II AWTS while stationary or at speeds less than 6 knots. |
|--|--|

### SECTION 3 - REGULATED DISCHARGE INFORMATION - EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

|  |   |
|--|---|
| <b>Effluent Compliance Point:</b>        | Wastewater effluent sampling port(s) identified in the Department approved Vessel Specific Sampling Plan and Notice of Intent.  |
| <b>Effluent Limitations</b>              | Table 3 of the General Permit for discharges underway at speeds greater than 6 knots. Table 4 of the General Permit for discharges while stationary or at speeds less than 6 knots. |
| <b>Special Conditions:</b>               | None  |
| <b>Monitoring Requirements</b>           | Table 5 and 6 of the General Permit including Receiving Water Monitoring, and WET testing in 2018, and any other applicable monitoring requirements in the General Permit           |
| <b>Discharge Monitoring Report (DMR)</b> | The Norwegian Bliss must submit a monthly DMR with effluent limits that is available on the Department's website or on a similar form approved by the Department.                   |

### SECTION 4 - RECEIVING AREA INFORMATION-RECEIVING WATER

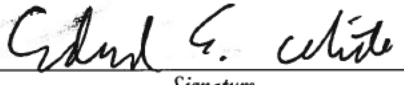
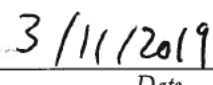
|   |  |
|---|--|
| <b>Receiving Area Name:</b>                       | Marine waters of the state of Alaska as defined in the General Permit  |
| <b>Underway Mixing Zone Description:</b>          | 63 meters in length, 5 meters in width, and a depth from the water surface to the depth the discharge 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. |
| <b>Stationary Mixing Zone Description:</b>        | 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.                                   |
| <b>Skagway Discharge at Ore or Broadway Docks</b> | Not authorized for discharge at the Ore or Broadway Dock in Skagway, AK.   |

### SECTION 5 - ADDITIONAL TERMS AND CONDITIONS (GP 4.3.2)

|      |  |
|------|--|
| None |  |
|------|--|

If you have any technical questions regarding this authorization or the requirements of the general permit, please contact the Cruise Program Manager at (907) 465-5138.

### SECTION 6 - CERTIFICATION/SIGNATURE

|   |   |
|---|---|
|  |  |
| <i>Signature</i>  | <i>Date</i>   |
| Edward E White  | EPM I, ADEC CPVEC   |
| <i>Printed Name</i>   | <i>Title</i>  |



**NOTICE OF INTENT FORM**

|  |                      |
|--|----------------------|
| <b>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.)</b>  |                      |
| 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. |                      |
| <b>Vessel Owner Information</b>  |                      |
| Who is the main point of contact for the vessel? (e.g. owner, operator, or Alaska Agent):<br>Rick Erickson, ALASKA AGENT   |                      |
| Vessel Owner's Business Name: VIKING OCEAN CRUISES II LTD  |                      |
| Mailing Address:<br>CLARENDON HOUSE, 2 CHURCH STREET,<br>HAMILTON HM11<br>BERMUDA  | Phone:<br>[REDACTED] |
| Representative:<br>NICOALI SKOGLAND  | Email:<br>[REDACTED] |
| <b>Vessel Owner's or Operator's Alaska Agent Information</b>   |                      |
| Company Name:<br>Cruise Line Agencies of Alaska  |                      |
| Mailing Address:<br>55 Schoenbar Court #101<br>Ketchikan, AK 99901, ALASKA   | Phone:<br>[REDACTED] |
| Representative:<br>Rick Erickson   | Email:<br>[REDACTED] |
| <b>Vessel Operator's Business Name if Different From the Owner's Business Name</b>   |                      |
| Vessel Operator's Business Name: WILHELMSEN SHIP MANAGEMENT (NORWAY) AS  |                      |
| Mailing Address:<br>STRANDVEIEN 20, 1366 LYSAKER, NORWAY   | Phone:<br>[REDACTED] |
| Representative: STEINAR JOHANNESSEN  | Email:<br>[REDACTED] |

|   |  |
|---|--|
| <b>Vessel Information (Y/N)</b>   |  |
| Are you seeking authorization to discharge with a mixing zone?  | N                                      |
| Are you seeking authorization to discharge while moving at 6 knots or greater?  | Y                                      |
| Are you seeking authorization to discharge while moving at under 6 knots?   | Y                                      |
| Are you seeking authorization to discharge while in Skagway at Broadway or Ore Docks?   | Y                                      |
| <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:  | VIKING ORION                           |
| Vessel IMO Number:  | 9796250                                |
| Vessel Gross Tonnage:   | 47861                                  |
| Port of Registry:   | BERGEN, NORWAY                         |
| Maximum Passenger Capacity per Voyage:  | 954                                    |
| Maximum Crew Capacity per Voyage:   | 499                                    |
| Vessel Draft <sup>1</sup> :   | 6.65 m                                 |
| Vessel Length in Meters at Waterline <sup>2</sup> :   | 195.5 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              |
| Contact's name, email address, and phone number:  | BRETT FARRELL [REDACTED]<br>[REDACTED] |

<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.

**Discharge Port Characteristics**

**Note: If there is more than one discharge port attach a sheet with the characteristics below for each AWWTS Port. If more than one discharge pump attach sheet with capacity for each.**

|  |         |   |         |
|--|---------|---|---------|
| Discharge Port Name <sup>3</sup> :                                 | AWWTS   | Location (Starboard/Port):  | PORT    |
| Discharge Port Internal Diameter:                                  | 127 mm  | Discharge Port Centerline Vertical Distance from Keel:                                  | 3.75 m  |
| Discharge Port Distance from Bow at Waterline (normal load):       | 29.67 m | Discharge Port Centerline Vertical Distance from Waterline (normal load) <sup>4</sup> : | 2.3 m   |
| Discharge Port shape (round, oval, square):                        | ROUND   | Discharge Port Pump Capacity (m <sup>3</sup> /hr) for each Pump <sup>5</sup> :          | 40 m3/H |
| Discharge Port Vertical Angle Relative to Waterline <sup>6</sup> : | 90      | Discharge Port Horizontal Angle Relative to Centerline <sup>7</sup> :                   | 90      |

**Wastewater Discharge Information**

|  |               |             |
|--|---------------|-------------|
| 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:      | 240 m3      |
|  | Maximum:      | 300 m3      |
|  | Startup Date: | 16 MAY 2019 |
|  | Ending date:  | 24 AUG 2019 |

<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):                       | AWP - 25<br>SCANSHIP AS<br>1165 - AWP<br>2018 - 03 - 22   |
|  | Number of AWTS:  | 1   |
|  | Combined design capacity:  | 600 m3/d  |
| 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):                       | ADVANCE WASTE PURIFICATION PLANT<br>SCANSHIP<br>AWP - 25 -600 m3/d - 700 kg/d BOD<br>1165 - AWP<br>MAR 2018 |
|  | Combined design capacity:  | 600 m3/d  |
| 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):                       | ADVANCE WASTE PURIFICATION PLANT<br>SCANSHIP<br>AWP - 25 -600 m3/d - 700 kg/d BOD<br>1165 - AWP<br>MAR 2018 |
|  | Combined design capacity:  | 600 m3/d  |
| Average volume of sewage generation per day in cubic meters;   | 50 m3  |   |
| Maximum volume of sewage generation per day in cubic meters;   | 80 m3  |   |
| Average graywater generation per day in cubic meters for the following sources;  | Accommodations: 250 m3<br>Galley: 100 m3<br>Laundry: 120 m3<br>Other (list types and volumes): N/A |   |
| Maximum graywater generation per day in cubic meters for the following sources;  | Accommodations 300 m3<br>Galley 140 m3<br>Laundry 150 m3<br>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.

RETAINED SOLIDS FROM BIO REACTOR KNOWN AS BIOMASS, ARE DISCHARGED  
OUTSIDE 12 NM

**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**