ATTACHMENT 1 – Permit issued by Alaskan Department of Conservation

STATE OF ALASKA
DEPARTMENT OF ENVIRONMENTAL CONSERVATION
LARGE COMMERCIAL PASSENGER VESSEL WASTEWATER DISCHARGE
GENERAL PERMIT NO. 2009DB0026

Marine Discharge of Treated Sewage and Treated Graywater from Commercial Passenger Vessels Operating in Alaska

Permit Expiration Date: December 15, 2015

This Large Commercial Passenger Vessel Wastewater Discharge General Permit is issued for the discharge of treated sewage and treated graywater from large commercial passenger vessels operating in marine waters of the state exclusive of the waters of Glacier Bay National Park. Large commercial vessels include passenger vessels for hire that provide overnight accommodations for 250 or more passengers, determined with reference to the number of lower berths. Effluent limits apply to large vessels.

This permit is subject to the conditions and stipulations incorporated herein by reference. All discharges made under the authority of this permit, regardless of volume, are subject to the conditions and stipulations contained herein. Approval to operate under this permit shall expire upon expiration or termination date of the permit.

The Department will require a person to apply for an individual permit when the activity does not meet the conditions of this general permit, contributes to pollution, or causes an adverse impact on public health or water quality.

This permit is issued under provisions of Alaska Statutes 46.03, the Alaska Administrative Code as amended or revised, and other applicable State laws and regulations. This permit has been administratively extended from April 22, 2013 to December 15, 2015 in accordance with Alaska Statute AS 46.03.462(i), amended February 28, 2013.

This permit is effective upon issuance and expires **December 15, 2015** unless modified, terminated, renewed or otherwise superseded before that time. This permit may be terminated or modified in accordance with AS 46.03.120.

April 22, 2010
Date Issued
March 18, 2013
Date Administratively Extended

SIGNATURE ON FILE
Robert. H. Edwardson
Commercial Passenger Vessel Environmental
Compliance Program

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1 OPERATION UNDER GENERAL PERMIT

1.1 ELIGIBILITY

Large commercial passenger vessels that operate in marine waters of the state are eligible to seek coverage under this general permit (AS 46.03.462). The scope of the permit does not include waters of Glacier Bay National Park and Preserve.

1.2 AUTHORIZED DISCHARGES

This general permit only authorizes the discharge of treated sewage and treated graywater, in accordance with the conditions set forth herein.

1.3 DISCHARGE RESTRICTIONS

1.3.1 Discharges to water bodies included in the ADEC CWA Section 305(b) report or effective CWA Section 303(d) list of waters which are "impaired" or "water quality-limited" are prohibited if the "impaired" or "water quality-limited" designation is due to any of the pollutant parameters for which effluent limits are included in applicable Effluent Limit and Discharge Reporting Tables (Table 1 through Table 7 of section 1.5).

1.3.2 There shall be no discharge of foam (in other than trace amounts), oily wastes (which produce a sheen on the surface of the receiving waters), floating solids, garbage or grease into marine waters of the state.

1.3.3 Sediment and sludge that accumulates in tanks shall not be disposed of by discharging into marine waters of the state unless it complies with the treatment and effluent requirements for sewage and graywater.

1.3.4 All sewage and graywater must be treated prior to discharge into marine waters of the state by an advanced wastewater treatment system to produce an effluent quality that complies with the applicable limits in Table 1 through Table 7 of section 1.5.

1.3.5 The discharge volume and flow rate shall not exceed the design capacity of the advanced wastewater treatment system.

1.4 NOTICE OF INTENT

1.4.1 All large commercial passenger vessels seeking coverage under this permit must submit a complete Notice of Intent (NOI) to the Cruise Ship Program within 30 days of the effective date of this permit. In subsequent years, new permittee's must submit a complete NOI at least thirty days prior to the discharge of any treated sewage or treated graywater into marine waters of the state. The NOI must include the following information for the vessel to be covered under this general permit:

1.4.1.1 The main point of contact for the vessel;

1.4.1.2 Owner's business and name, mailing address, City/State/zip code/Country, electronic mail address, telephone and facsimile numbers, and representative;

1.4.1.3 Owner's or Operator's Alaskan agent for service of process, mailing address, City/State/zip code/Country, electronic mail address, telephone and facsimile numbers, and representative;

1.4.1.4 Operator's business name if different from the owner's business name, mailing address, City/State/zip code/Country, electronic mail address, telephone and facsimile numbers, and representative;

1.4.1.5 Whether the operator is requesting that the vessel be authorized to discharge only while the vessel is underway or whether the operator is requesting that the vessel be authorized for continuous discharge;

1.4.1.6 If the permittee is seeking authorization for continuous discharge, the permittee must also provide the discharge port(s) name or letter code. For each port, provide the following characteristics: internal diameter, shape, location (port or starboard), frame number, discharge port pump capacity, and the minimum distance from the center of the port to the (normal load) water line and the keel. The vessel length and draft are also required. The permittee must provide a drawing (to scale) of the location of wastewater effluent penetration points (ports) on the hull;

1.4.1.7 The vessel's name and International Maritime Organization (IMO) number;

1.4.1.8 The vessel's gross tonnage;

1.4.1.9 The vessel's port of registry;

1.4.1.10 Total number of berths available for passengers determined with reference to the number of lower berths;

1.4.1.11 Total number of berths available for crew on the vessel;

1.4.1.12 Maximum passenger capacity and the maximum crew capacity;

1.4.1.13 Estimates of the average and maximum volumes of wastewater to be discharged per 24 hour period (cubic meters), and the beginning and ending dates between which discharges may occur each year;

1.4.1.14 Type, number, and combined maximum design capacity in cubic meters per 24 hour period of all advanced wastewater treatment systems onboard;

1.4.1.15 Type(s) of sewage treatment and system capacity in cubic meters per 24 hour period;

1.4.1.16 Type(s) of graywater treatment and system capacity in cubic meters per 24 hour period;

1.4.1.17 Average volume of sewage generation per day in cubic meters;

1.4.1.18 Maximum volume of sewage generation per day in cubic meters;

1.4.1.19 Average graywater generation per day in cubic meters for the following sources:

1.4.1.20 Accommodations

1.4.1.21 Galley

1.4.1.22 Laundry

1.4.1.23 Maximum graywater generation per day in cubic meters for the following sources:

1.4.1.24 Accommodations

1.4.1.25 Galley

1.4.1.26 Laundry

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

1.4.1.28 A certification statement related to the use of tributyltin (TBT) paints.

1.4.2 The permittee may satisfy the requirements of this section by completely filling out and signing the NOI contained at the end of this permit or the Cruise Ship NOI posted on the Department's website.

1.4.3 An original signed copy of the NOI form shall be mailed to the office listed in Section 1.6.3 (Reporting).

1.5 LIMITATIONS AND MONITORING

1.5.1 Unless otherwise specified in this permit, the permittee is authorized to discharge in accordance with the following limitations and monitoring requirements for the term of this general permit.

1.5.1.1 Onboard sampling locations will be the same as those listed in the current and accurate Vessel Specific Sampling Plan (VSSP) approved by the Department under 18 AAC 69.030.

1.5.1.2 All wastewater samples taken to satisfy the state requirements must be collected while the vessel is discharging into marine waters of the state.

1.5.1.3 In addition, the samples must be representative of the treated sewage and treated graywater that is discharged into marine waters of the state. Treated sewage or treated graywater that is stored in holding tanks may only be discharged into marine waters of the state if the effluent from those tanks is sampled as part of the regulatory sampling regime that is detailed in the current approved VSSP.

1.5.1.4 The permittee shall ensure that the sampling required under this general permit and AS 46.03.465 is conducted by a qualified, approved person in accordance with the current approved Quality Assurance / Quality Control (QA/QC) Plan that is part of the VSSP. The permittee must submit information describing the qualifications of the sampler no later than 21 days before sampling required under this general permit and AS 46.03.465 is to occur. If the Department deems it necessary to confirm the qualifications of the person conducting the sampling, the Department will consider whether the person:

1.5.1.5 Has been trained in sampling methodology, sample handling, chain of custody, field measurements, and quality assurance procedures; and

1.5.1.6 Is familiar with the requirements of the QA/QC plan and the vessel specific sampling plan for the vessel being sampled.

1.5.1.7 The permittee shall ensure that the testing required under this general permit and AS 46.03.465 is conducted by an approved laboratory.

1.5.2 Authorized discharges must comply with the effluent limits and discharge reporting requirements specified in Table 1 and the appropriate Effluent Limit and Discharge Reporting Table (Table 2 through Table 7) contained in this permit for the manufacturer of the wastewater treatment system that is being used to treat the discharge.

1.5.3 If an owner or operator of a large commercial passenger vessel with an advanced wastewater treatment system by a manufacturer other than those listed in Table 2 through Table 6 seeks authorization to discharge wastewater into the marine waters of the state, the permittee will be required to meet the effluent limits contained in Table 1 and Table 7.

1.5.4 The permittee must monitor the parameters listed in Table 1 and the appropriate Effluent Limit and Discharge Reporting Table (Table 2 through Table 7) as per 1.5.2 and 1.5.3 and any additional parameters required under the most recent version of the Department approved QA/QC plan (AS 46.03.465(d)).

1.5.5 All figures in the Effluent Limit and Discharge Reporting Tables represent maximum effluent limits unless otherwise indicated. The permittee must comply with the effluent

limits at all times unless otherwise indicated, regardless of the frequency of monitoring or reporting required by other provisions of this permit.

1.5.6 The first sample event for all parameters with effluent limits listed in Table 1 through Table 7 must occur within ten (10) days of the first discharge into marine waters of the state for each cruise ship season. The exception is total flow, which must be documented daily. If a ship has a meter that measures the total daily flow, the actual flow meter results (not estimations) must be reported on the Discharge Monitoring Report.

1.5.7 All subsequent sampling frequency is specified in Effluent Limit and Discharge Reporting Tables 1 through 7. Individual sample events must be at least 24 hours apart.

1.5.8 Permittees may submit U.S. Coast Guard required sampling analysis obtained from samples taken while a ship was discharging into marine waters of the state for the specified parameters in the Effluent Limit and Discharge Reporting Table 1 through Table 7 in lieu of conducting additional sampling to satisfy the sampling requirements of this general permit (AS 46.03.465(f)).

1.5.9 Copper, nickel, and zinc in the effluent must be analyzed as dissolved metal.

Table 1: Effluent Limits and Discharge Reporting for all Vessels.

(See tables 2 through 7 for ammonia and metals limits specific to the wastewater treatment system installed on your vessel.)

Parameter	Minimum Value	Monthly Geometric Mean [a]	Daily Maximum	Minimum Frequency	Sample Type
Fecal Coliform Bacteria	N/A	14 per 100 mL	43 per 100 mL	Twice per month	Grab

Parameter	Minimum Value	Monthly Average [b]	Daily Maximum	Minimum Frequency	Sample Type
Total Flow (cubic meters per day of effluent)	N/A	Not to exceed design capacity	Not to exceed design capacity	Daily	Metered or estimated
Biochemical Oxygen Demand (5-day)	N/A	30 mg/L	60 mg/L	Twice per month	Grab
Total Residual Chlorine	N/A	N/A	10 ug/L [c]	Twice per month	Field test
pH	6.5 S.U.	N/A	8.5 S.U.	Twice per month	Field test, grab, or continuous
Total Suspended Solids (TSS)	N/A	N/A	150 mg/L	Twice per month	Grab or Continuous
Specific Conductance	N/A	N/A	Report	Twice per season	Field test, grab, or continuous
Chemical Oxygen Demand	N/A	N/A	Report	Twice per season	Grab
Nitrate-Nitrogen (NO_3 - N)	N/A	N/A	Report	Twice per season	Grab
Total phosphorus	N/A	N/A	Report	Twice per season	Grab
Total Kjeldahl Nitrogen (TKN)	N/A	N/A	Report	Twice per season	Grab
Total Organic Carbon	N/A	N/A	Report	Twice per season	Grab
Base-Neutral Acid extractables (BNA) [d]	N/A	N/A	Report	Twice per season	Grab
Volatile Organic Compounds (VOCs) [d]	N/A	N/A	Report	Twice per season	Grab
Other Dissolved and Total Recoverable Metals [d]	N/A	N/A	Report	Twice per season	Grab

Notes:

a. The "monthly geometric mean" is the geometric mean of all samples taken during the calendar month. A non-detect value may be substituted with a value of 1 for the purpose of calculating the geometric mean. If only one sample is collected, the result of that sample is the geometric mean.

b. The "monthly average" is the average of all samples taken during the calendar month. If only one sample is collected, the result of that sample is the monthly average. A non-detect value may be substituted with a value of 0 for the purpose of calculating the monthly average.

c. Analytical results below the method detection limit for the method used shall be deemed compliant with the effluent limits.

d. The specific pollutants are listed in the most recent version of the Department approved QA/QC plan.

Table 2: Effluent Limits and Discharge Reporting for Hamworthy Wastewater Treatment Systems

(These effluent limits apply in addition to the effluent limits listed in Table 1.)

Parameter	Daily Maximum Continuous [a]	Daily Maximum Underway [b,c]	Minimum Frequency	Sample Type
Ammonia	28 mg/L	143 mg/L	Twice per month	Grab
Copper	87 µg/L	133 µg/L	Twice per month	Grab
Nickel	63 µg/L	63 µg/L	Twice per month	Grab
Zinc	395 µg/L	395 µg/L	Twice per month	Grab

Notes:

a. This effluent limit applies to wastewater discharged while docked, anchored, or moving at less than 6 knots.

b. This effluent limit applies to wastewater discharged while underway traveling at a speed of 6 knots or greater.

c. For the 2010 season, this is a monitoring and reporting requirement only. For any samples collected in 2010 that exceed the limit, the permittee must, with the DMR, provide a written explanation of the known or likely cause(s) of the exceedance and the corrective measures the permittee will take to address the cause(s) before the 2011 season.

Table 3: Effluent Limits and Discharge Reporting for Marisan Wastewater Treatment Systems

(These effluent limits apply in addition to the effluent limits listed in Table 1.)

Parameter	Daily Maximum Continuous [a]	Daily Maximum Underway [b,c]	Minimum Frequency	Sample Type
Ammonia	20 mg/L	20 mg/L	Twice per month	Grab
Copper	87µg/L	157 µg/L	Twice per month	Grab
Nickel	24 µg/L	24 µg/L	Twice per month	Grab
Zinc	112 µg/L	112 µg/L	Twice per month	Grab

Notes:

a. This effluent limit applies to wastewater discharged while docked, anchored, or moving at less than 6 knots.

b. This effluent limit applies to wastewater discharged while underway traveling at a speed of 6 knots or greater.

c. For the 2010 season, this is a monitoring and reporting requirement only. For any samples collected in 2010 that exceed the limit, the permittee must, with the DMR, provide a written explanation of the known or likely cause(s) of the exceedance and the corrective measures the permittee will take to address the cause(s) before the 2011 season.

Table 4: Effluent Limits and Discharge Reporting for Rochem Wastewater Treatment Systems

(These effluent limits apply in addition to the effluent limits listed in Table 1.)

Parameter	Daily Maximum Continuous [a]	Daily Maximum Underway [b,c]	Minimum Frequency	Sample Type
Ammonia	12 mg/L	12 mg/L	Twice per month	Grab
Copper	10 µg/L	10 ug/L	Twice per month	Grab
Nickel	10 µg/L	10 ug/L	Twice per month	Grab
Zinc	118 µg/L	118 ug/L	Twice per month	Grab

Notes:

a. This effluent limit applies to wastewater discharged while docked, anchored, or moving at less than 6 knots.

b. This effluent limit applies to wastewater discharged while underway traveling at a speed of 6 knots or greater.

c. For the 2010 season, this is a monitoring and reporting requirement only. For any samples collected in 2010 that exceed the limit, the permittee must, with the DMR, provide a written explanation of the known or likely cause(s) of the exceedance and the corrective measures the permittee will take to address the cause(s) before the 2011 season.

Table 5: Effluent Limits and Discharge Reporting for Scanship Wastewater Treatment Systems

(These effluent limits apply in addition to the effluent limits listed in Table 1.)

Parameter	Daily Maximum Continuous [a]	Daily Maximum Underway [b,c]	Minimum Frequency	Sample Type
Ammonia	28 mg/L	68 mg/L	Twice per month	Grab
Copper	26 ug/L	26 ug/L	Twice per month	Grab
Nickel	28 ug/L	28 ug/L	Twice per month	Grab
Zinc	267 ug/L	267 ug/L	Twice per month	Grab

Notes:

a. This effluent limit applies to wastewater discharged while docked, anchored, or moving at less than 6 knots.

b. This effluent limit applies to wastewater discharged while underway traveling at a speed of 6 knots or greater.

c. For the 2010 season, this is a monitoring and reporting requirement only. For any samples collected in 2010 that exceed the limit, the permittee must, with the DMR, provide a written explanation of the known or likely cause(s) of the exceedance and the corrective measures the permittee will take to address the cause(s) before the 2011 season.

Table 6: Effluent Limits and Discharge Reporting for Zenon Treatment Systems

(These effluent limits apply in addition to the effluent limits listed in Table 1.)

Parameter	Daily Maximum Continuous [a]	Daily Maximum Underway [b,c]	Minimum Frequency	Sample Type
Ammonia	28 mg/L	51 mg/L	Twice per month	Grab
Copper	50 ug/L	50 ug/L	Twice per month	Grab
Nickel	40 ug/L	40 ug/L	Twice per month	Grab
Zinc	188 ug/L	188 ug/L	Twice per month	Grab

Notes:

a. This effluent limit applies to wastewater discharged while docked, anchored, or moving at less than 6 knots.

b. This effluent limit applies to wastewater discharged while underway traveling at a speed of 6 knots or greater.

c. For the 2010 season, this is a monitoring and reporting requirement only. For any samples collected in 2010 that exceed the limit, the permittee must, with the DMR, provide a written explanation of the known or likely cause(s) of the exceedance and the corrective measures the permittee will take to address the cause(s) before the 2011 season.

Table 7: Effluent Limits and Discharge Reporting for All Other Wastewater Treatment Systems

(These effluent limits apply in addition to the effluent limits listed in Table 1.)

Parameter	Daily Maximum Continuous [a]	Daily Maximum Underway [b,c]	Minimum Frequency	Sample Type
Ammonia	28 mg/L	130 mg/L	Twice per month	Grab
Copper	87 ug/L	130 ug/L	Twice per month	Grab
Nickel	43 ug/L	43 ug/L	Twice per month	Grab
Zinc	360 ug/L	360 ug/L	Twice per month	Grab

Notes:

a. This effluent limit applies to wastewater discharged while docked, anchored, or moving at less than 6 knots.

b. This effluent limit applies to wastewater discharged while underway traveling at a speed of 6 knots or greater.

c. For the 2010 season, this is a monitoring and reporting requirement only. For any samples collected in 2010 that exceed the limit, the permittee must, with the DMR, provide a written explanation of the known or likely cause(s) of the exceedance and the corrective measures the permittee will take to address the cause(s) before the 2011 season.

1.5.10 A permittee that monitors (while discharging into marine waters of the state) any parameter identified in this permit at a frequency greater than required shall report those results and include the results in any monitoring report calculations.

1.5.11 Test procedures for the analysis of pollutants shall conform to methods cited in 18 AAC 70.020 or the latest edition of Standard Methods for the Examination of Water and Wastewater, except as otherwise specified in this permit. The permittee may substitute alternative methods of monitoring or analysis upon receipt of written approval from the Department (18 AAC 70.020 (c) (7)).

1.5.12 If a permittee is authorized for continuous discharge and the permittee has discharged wastewater effluent into marine waters of the state while docked, anchored, or moving at less than 6 knots during a calendar month, then the permittee must obtain at least one wastewater effluent sample while the vessel is discharging wastewater into the marine waters of the state while the vessel is docked, anchored, or moving at less than 6 knots.

1.6 REPORTING

1.6.1 An owner or operator shall submit a Discharge Monitoring Report (DMR) that provides the analytical results for required sampling for the calendar month to the Department by the 21st day of the following calendar month. The DMR must include:

1.6.1.1 A clear notification of whether the sample was taken while the vessel was underway or while it was docked, anchored, or moving at less than 6 knots.

1.6.1.2 The date, time, vessel location (latitude/longitude) and sample discharge port where each sample was collected;

1.6.1.3 Whether there were any discharges from the vessel while it was docked, anchored, or moving at less than 6 knots during the reporting period;

1.6.1.4 The sampling technique and analytical testing method used for each sample;

1.6.1.5 The quality assurance and quality control analysis of the sampling, analytical testing, and analytical data;

1.6.1.6 The analytical results in a Microsoft Excel format approved by the Department. The spreadsheet shall include: vessel name, contact information, valve used for sample event, sample date, sample time, latitude and longitude of the ship when the sample was collected, and whether the sample was taken as the ship was discharging wastewater into marine waters of the state. Each sample parameter will have a row, the columns shall include: parameter, flag, results, units, analysis date, analysis time, Practical Quantitation Limit (PQL), sample type, and comments. A sample of a Department approved format is contained at the end of this permit;

1.6.1.7 Any deviation from the approved plan submitted under 18 AAC 69.025;

1.6.1.8 Any deviation from the accurate approved Vessel Specific Sampling Plan submitted under 18 AAC 69.030;

1.6.1.9 The type of wastewater sampled according to the vessel specific sample plan (treated sewage, treated graywater, or both);

1.6.1.10 A copy of the original laboratory report from each sampling event; and

1.6.1.11 An indication when effluent values exceed effluent limits found in Table 1 through Table 7 and space for any qualifying or relevant information.

1.6.2 A permittee shall submit a Discharge Monitoring Report (DMR) to the Department for the months that the vessel operated in the marine waters of the state even if the ship did not discharge into Alaska waters during the calendar month. The DMR shall indicate that the vessel did not discharge and must be signed by the responsible party.

1.6.3 Monitoring results shall be summarized and reported to the Department for each sampling event. Each DMR must be signed, postmarked and mailed, or faxed, or emailed no later than the 21st day of the following calendar month of the date that sampling occurred. If a permittee submits a DMR via e-mail, the permittee must mail the original signed DMR to the Department. Reporting shall be done on the Department approved DMR form provided, or on a similar form approved by the Department. Signed copies of these and all other reports required herein shall be submitted to the Department at the following address:

Alaska Department of Environmental Conservation
Division of Water/ CPVEC
410 Willoughby Ave, Suite 303
PO Box 111800
Juneau, AK 99811-1800
Phone (907) 465-5300; FAX (907) 465-5274
DEC.WQ.Cruise@alaska.gov

1.6.4 Pursuant to AS 46.03.470, other requirements, and this permit, a permittee shall maintain records and information resulting from the monitoring activities required by this permit, including all records of sewage and graywater discharge monitoring analyses performed, calibration and maintenance of sewage and graywater discharge monitoring instrumentation, recordings from continuous monitoring instrumentation associated with the discharge of sewage and graywater discharge monitoring, laboratory quality control summaries, and any addition to or modification of the sewage and graywater treatment facility, for review for a minimum of three years. Permittees shall submit certified copies of such records to the Department upon request.

1.6.5 The permittee shall maintain discharge logs and provide those records to the Department not later than five days after each calendar month of operation in state waters as specified in AS 46.03.465(a).

1.6.6 Knowingly making a false statement by the permittee or any person in its employ, including contractors, on any report or test may result in the imposition of civil criminal penalties as provided for under state law, including AS 46.03.760 and AS 46.03.790, and federal law.

1.7 MANAGEMENT REQUIREMENTS

1.7.1 All discharges authorized under this permit shall be consistent with the terms and conditions of this permit and approved plans.

1.8 NONCOMPLIANCE NOTIFICATION

1.8.1 The permittee must report the following occurrences to the Department, either verbally or in writing, within 24 hours of the permittee becoming aware of the occurrence:

1.8.1.1 Any noncompliant discharge of sewage, graywater or other wastewaters into marine waters of the state that may endanger health or the environment;

1.8.1.2 Any unanticipated discharge of sewage or graywater into marine waters of the state that exceeds any effluent limitation established in the permit;

1.8.1.3 Any discharge of sewage, graywater or other wastewater into marine waters of the state resulting from an upset and that exceeds any effluent limitation established in the permit (2.15 Upset Conditions); or

1.8.1.4 Any discharge of sewage or graywater or other wastewaters into marine waters of the state released overboard prior to passing through the treatment works, whether or not such overflow endangers health or the environment or exceeds any effluent limitation established in the permit.

1.8.2 In addition to the initial report required by 1.8.1, the permittee must provide a written report within 7 days of the time that the permittee becomes aware of any event required to be reported under Section 1.8.1. This report may be submitted on the Non-Compliance form included in this permit and must contain:

1.8.2.1 A description of the noncompliance event and its cause;

1.8.2.2 The onset and duration of noncompliance, including dates and times;

1.8.2.3 The estimated duration noncompliance is expected to continue if it has not been corrected;

1.8.2.4 Steps taken or planned to reduce, eliminate, and prevent recurrence of the noncompliance; and

1.8.2.5 If the noncompliance involves a discharge prior to the treatment works, an estimate of the quantity (in cubic meters) of untreated discharge.

1.8.3 When a permittee is required by United States Environmental Protection Agency (EPA) National Pollutant Discharge Elimination System (NPDES) Vessel General Permit for Discharges Incidental to the Normal Operation of Vessel (VGP) to file a noncompliance form for discharges that occurred while the vessel was operating in marine waters of the state, the permittee shall submit a copy of that form to the Department within 72 hours of submittal to EPA. The Department may waive the requirement for a written report pursuant to 1.8.2 if the VGP report is provided to the Department as required and contains information substantially the same as that required by 1.8.2.

1.8.4 The Department may waive the requirement for a written report pursuant to 1.8.2 if the initial report required by 1.8.1 is received within 24 hours and is deemed sufficient by the Department.

1.8.5 Reports required under this section must be submitted to the addresses in Section 1.6.3 (Reporting).

1.9 EXCLUSION FROM THE GENERAL PERMIT

1.9.1 A permittee may request to be excluded from the coverage of this general permit by applying for an individual permit. An application for an individual permit must be submitted to the Commercial Passenger Vessel Environmental Compliance Program at least 60 days before the proposed discharge commences.

1.10 INDIVIDUAL PERMIT

1.10.1 When an individual permit is issued to a permittee otherwise subject to this general permit, the applicability of this general permit to that permittee is automatically terminated on the date the individual permit becomes effective.

1.11 TERMINATION OF ACTIVITIES UNDER A GENERAL PERMIT

1.11.1 The Department may, in its discretion, require a person with a general permit to terminate operation under the general permit, or apply for an individual permit when situations including, but not limited to, the following occur:

1.11.1.1 The discharge does not meet the conditions of the general permit;

1.11.1.2 The discharge contributes to pollution or causes an adverse impact on public health or water quality; or

1.11.1.3 A change occurs in the availability of technology or practices for the control or abatement of pollution contained in the discharge.

1.11.2 The permittee may submit a Notice of Termination at any time. The Notice of Termination shall be submitted to the Department at the appropriate office listed in Section 1.6.3. This letter shall be signed by a responsible corporate officer and shall include:

1.11.2.1 Complete vessel name and IMO number;

1.11.2.2 Current owner's business name and mailing address;

1.11.2.3 Current operator's business name and mailing address if different from owner; and

1.11.2.4 A Vessel Specific Holding Plan detailing operational changes made and tanks used to hold wastewater, if the vessel will continue to operate in marine waters of the state but does not intend to discharge there.

1.11.3 A Notice of Termination shall be provided on the Department approved Notice of Termination form or a similar form approved by the Department. An original signed copy of this form shall be mailed to the office listed in Section 1.6.3 (Reporting.)

1.11.4 The permittee shall be required to meet all conditions of this permit until the Department approves the termination of authorization to discharge under this permit.

2 GENERAL CONDITIONS

2.1 ACCESS AND INSPECTION

2.1.1 The Department's employees and agents shall be allowed access to the permittee's vessel to conduct scheduled or unscheduled inspections or sampling tests to determine compliance with this permit and applicable state laws and regulations.

2.1.2 If the permittee is only authorized to discharge wastewater into marine waters of the state while the vessel is underway, the permittee will allow the Department's employees and agents passage aboard the vessel as it travels from one port to the next available port for the purpose of obtaining wastewater samples.

2.1.3 Upon request, the permittee shall provide the Department with information relating to wastewater treatment, pollution avoidance, and pollution reduction measures used on the vessel, including testing and evaluation procedures and economic and technical feasibility analyses (AS 46.03.465(h)).

2.2 AVAILABILITY OF RECORDS

Except for information related to confidential processes, equipment, or methods of manufacture, all records and reports submitted in accordance with the terms of this permit shall be available for public inspection at the Commercial Passenger Vessel Environmental Compliance Program Office listed in Section 1.6.3 (Reporting) of this permit.

2.3 LOCATION OF PERMIT AND OTHER REQUIRED PLANS

The permittee shall maintain a current copy of the following documents on the vessel in a location that is accessible to the Department's employees or agents:

2.3.1 A copy of this permit;

2.3.2 A copy of any Department authorization to discharge;

2.3.3 A copy of the accurate approved Vessel Specific Sampling Plan (18 AAC 69.030);

2.3.4 A copy of the approved Non-Hazardous Solid Waste Offloading and Disposal Plan (AS 46.03.475(e)(1) and 18 AAC 69.035);

2.3.5 A copy of the current vessel registration and notarization papers;

2.3.6 A copy of the approved Hazardous Waste and Substance Offloading Plan (AS 46.03.475(e)(2) and 18 AAC 69.040); and

2.3.7 A copy of the certification from antifouling paint supplier that TBT-free coatings have been applied to the vessel.

2.4 OTHER NONCOMPLIANCE REPORTING

2.4.1 An owner or operator of a commercial passenger vessel who becomes aware of a discharge in violation of AS 46.03.463 or this permit, not required to be reported under Section 1.8 Noncompliance Reporting, or becomes aware of a violation of other state law or requirement, shall immediately report that discharge to the Department at the address listed in Section 1.6.3 (Reporting). The Noncompliance Notification form must be submitted to the Department within 7 calendar days of the noncompliance event.

2.4.2 Federal and state laws require reporting of any oil spill to land or water, including those that cause a sheen, to be reported to both of the following locations:

U.S. Coast Guard National Response Center:	800-424-8802 (24 hours per day)

Alaska Department of Environmental Conservation:

Southeast Alaska Oil Spill Response Team:	907-465-5340 (8 am to 5 pm, Monday through Friday) 907- 465-2237 Fax Number 800-478-9300 (all other times including holidays)
South-Central Alaska Oil Spill Response Team for areas North and West of Yakutat:	907-269-3063 (8 am to 5 pm, Monday through Friday) 907- 269-7648 Fax Number 800-478-9300 (all other times including holidays)

2.5 CIVIL AND CRIMINAL LIABILITY

2.5.1 Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance, whether or not noncompliance is due to factors beyond permittee's control, including but not limited to accidents, equipment breakdowns, or labor disputes.

2.6 OTHER LEGAL OBLIGATIONS

2.6.1 This permit does not relieve the permittee from the duty to obtain any other necessary permits, certificates, or plans from the Department or from other local, state, or federal agencies, and to comply with the requirements contained in any such permits. All activities conducted and all plans implemented by the permittee pursuant to the

terms of this permit shall comply with all applicable local, state, and federal laws and regulations.

2.7 TRIBUTYLTIN PAINTS (TBT)

2.7.1 Vessels owners/operators must comply with AS 46.03.715, sale and use of TBT-based antifouling paint. TBT-based marine antifouling paint or coating need not be removed from a vessel or other item that was painted or treated before December 1, 1987, but the vessel, gear, or item may not be repainted or retreated with TBT-based marine antifouling paint or coating.

2.8 POLLUTION PREVENTION

2.8.1 In order to prevent and minimize present and future pollution, when making management decisions that affect waste generation, the permittee shall consider the order of priority options as outlined in AS 46.06.021.

2.9 APPLICATIONS FOR PERMIT RENEWAL

2.9.1 Application for a renewal of a permit will be treated in the same manner as the initial application. Application for renewal must be made to the Department at the office listed in Section 1.6.3 (Reporting) no later than 30 days before the expiration of the permit.

2.10 TRANSFERS

2.10.1 In the event of any change in control or ownership of the permitted vessel, the permittee shall notify the succeeding owner or operator of the existence of this permit by letter, a copy of which shall be forwarded to the Department at the office listed in Section 1.6.3 (Reporting) of this permit.

2.10.2 The original permittee shall submit a Notice of Termination form to the Department within 30 days of a new owner or operator taking over responsibility for the vessel.

2.10.3 The original permittee remains responsible for permit compliance until the original permittee submits a Notice of Termination form and it is approved by the Department in writing. The authorization to discharge terminates at 11:59 p.m. Alaska time on the day that the Department approves the Notice of Termination.

2.10.4 The new owner or operator of the vessel will not be authorized to discharge under the terms of this permit until the new owner or operator submits a completed Notice of Intent form and the Department issues the vessel an authorization to discharge. An original signed copy of the Notice of Intent form shall be mailed to the office listed in Section 1.6.3 (Reporting).

2.11 TERMINATION

2.11.1 This permit terminates upon the expiration date. The Department has the authority to terminate a permit or authorization issued under the permit upon 30 days written notice, if the Department finds that there has been a violation of the conditions of the permit.

2.12 SIGNATORY REQUIREMENTS

2.12.1 All Notice of Intent, Notice of Termination, Notice of Transfer, reports, or information submitted to the Department must be signed and certified as follows:

2.12.2 All permit applications shall be signed as follows:

2.12.2.1 For a corporation, shall be signed by a responsible corporate officer.

2.12.2.2 For a partnership or sole proprietorship, shall be signed by a general partner or the proprietor, respectively.

2.12.3 All information required by Section 2.12.1, and other information submitted to or requested by the Department shall be signed by a person described in 2.12.2 or by a duly authorized representative of that person. A person is a duly authorized representative only if:

2.12.3.1 The authorization is made in writing by a person described in Section 2.12.2;

2.12.3.2 The authorization specifies either an individual or a position as having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company; and

2.12.3.3 The written authorization is submitted to the Department.

2.12.4 If an authorization under Section 2.12.3 is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Section 2.12.3 must be submitted to the Department prior to or together with any reports, information, or applications to be signed by an authorized representative.

2.12.5 **Certification.** Any person signing a document under this Part must make the following certification:

"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 am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

2.13 QUALITY ASSURANCE / QUALITY CONTROL PLAN (QA/QC PLAN)

2.13.1 Permittees may use the Department approved 2010 Northwest Cruise Association QA/QC Plan (or subsequent Department approved updates of the plan) or may develop and implement a vessel specific QA/QC plan approved by the Department.

2.14 SAFETY AT SEA

2.14.1 If wastewater is discharged from a commercial passenger vessel into marine waters of the state for the purposes of securing the safety of the vessel or saving human life at sea, the vessel owner or operator must notify the Department within 24 hours as set out in 18 AAC 69.060.

2.15 UPSET CONDITIONS

2.15.1 **Effect of an upset.** An upset constitutes an affirmative defense to an action brought for noncompliance with permit effluent limitations if the requirements of Section 2.15.2 are met. No preliminary determination made during the department's administrative review of a defense that noncompliance was caused by upset -- but before a formal administrative action is potentially brought by the department for noncompliance -- is final administrative action subject to judicial review.

2.15.2 **Necessary upset demonstration conditions.** A permittee who wishes to establish the affirmative defense of upset shall demonstrate, through properly signed, contemporaneous operating logs, or other relevant evidence that:

2.15.2.1 An upset occurred and that the permittee can identify the cause of the upset;

2.15.2.2 The permitted facility was at the time being properly maintained and operated; and

2.15.2.3 The permittee submitted notice of the upset as required under Section 1.8 Noncompliance Notification.

2.15.3 **Burden of proof:** In any enforcement proceeding, the permittee seeking to establish the occurrence of an upset has the burden of proof.

ACRONYMS

ADEC	Alaska Department of Environmental Conservation
AWTS	Advanced Wastewater Treatment System
BOD_5	Biochemical Oxygen Demand
DMR	Discharge Monitoring Report
FC	Fecal Coliform
IMO	International Maritime Organization
mg/L	Milligrams per Liter
N/A	Not Applicable
NOI	Notice of Intent
pH	A measure, in Standard Units (SU), of the hydrogen-ion concentration in a solution. On the pH scale (0 –14), a value of 7 at 25°C represents a neutral condition. Decreasing values, below 7, indicate increasing hydrogen-ion concentration (acidity); increasing values, above 7, indicate decreasing hydrogen-ion concentration (basicity).
PQL	Practical Quantitation Limit
QA/QC	Quality Assurance / Quality Control
SU	Standard Units
TSS	Total Suspended Solids
µg/L	Micrograms per Liter
VSSP	Vessel Specific Sampling Plan
WQS	Water Quality Standards

DEFINITIONS

18 AAC 69	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 69: Commercial Passenger Vessel Environmental Compliance Program. Available at http://www.dec.state.ak.us/regulations/index.htm.
18 AAC 70	Alaska Administrative Code. Title 18 Environmental Conservation, Chapter 70: Water Quality Standards. Available at http://www.dec.state.ak.us/regulations/index.htm.
AS 46.03	Alaska Statutes Title 46, Chapter 03: Environmental Conservation
Advanced Wastewater Treatment System	A treatment system that is capable of complying with the performance standards for Type II Marine Sanitation Devices discharging to Alaskan waters (33 CFR Part 159 Subparts C and E) but that also includes additional solids separation using membrane technologies such as ultrafiltration, nanofiltration, or reverse osmosis, flotation, or an equally effective solids separation process, and disinfection.
Average	An arithmetic mean obtained by adding quantities and dividing the sum by the number of quantities.
Biochemical Oxygen Demand (BOD_5)	The amount, in milligrams per liter, of oxygen used in the biochemical oxidation of organic matter in five days at 20º C.
Chemical Oxygen Demand (COD)	A measure of the oxygen equivalent of the organic matter content of a sample that is susceptible to oxidation by a strong chemical oxidant.
Continuous Discharge	Means a discharge of treated sewage or treated graywater into marine waters of the state regardless of whether the vessel is underway or docked, anchored, or moving at less than 6 knots.
Department	The Alaska Department of Environmental Conservation.
Effluent	The segment of a wastewater stream that follows the final step in a treatment process and precedes discharge of the wastewater stream to the receiving environment.

DEFINITIONS

Fecal Coliform Bacteria	Bacteria that can ferment lactose at 44.5° ± 0.2°C to produce gas in a multiple tube procedure.; "fecal coliform bacteria" also means all bacteria that produce blue colonies within 24 ± 2 hours of incubation at 44.5° ± 0.2°C in an M-FC broth.
Geometric Mean	A geometric mean is obtained by multiplying "n" quantities and then taking the n^{th} root of the product.
Grab	A sample taken at a given place and time.
Graywater	Means galley, dishwater, bath, and laundry wastewater, even if it is stored in a ballast tank or other holding area on the vessel that may not be customarily used to store graywater.
Large Commercial Passenger Vessels	Means a commercial passenger vessel that provides overnight accommodations for two hundred fifty (250) or more passengers for hire, determined with reference to the number of lower berths (AS 46.03.490(7)).
Marine waters of the state	Means all waters within the boundaries of the state together with all of the waters of the Alexander Archipelago even if not within the boundaries of the state. Waters of the Alexander Archipelago includes all waters under the sovereignty of the United States within or near Southeast Alaska as follows: (1) Beginning at a point 58° 11' 41" N, 136° 39' 25" W [near Cape Spencer Light], thence southeasterly along a line three nautical miles seaward of the baseline from which the breadth of the territorial sea is measured in the Pacific Ocean and the Dixon Entrance, except where this line intersects geodesics connecting the following five pairs of points: 58° 05' 17" N, 136° 33' 49" W and 58° 11' 41" N, 136° 39' 25" W [Cross Sound] 56° 09' 40" N, 134° 40' 00" W and 55° 49' 15" N, 134° 17' 40" W [Chatham Strait] 55° 49' 15" N, 134° 17' 40" W and 55° 50' 30" N, 133° 54' 15" W [Sumner Strait] 54° 41' 30" N, 132° 01' 00" W and 54° 51' 30" N, 131° 20' 45" W [Clarence Strait] 54° 51' 30" N, 131° 20' 45" W and 54° 46' 15" N, 130° 52' 00" W [Revillagigedo

DEFINITIONS

	Channel] The portion of each such geodesic situated beyond three nautical miles from the baseline from which the breadth of the territorial sea is measured forms the outer limit of the waters of the Alexander Archipelago in those five locations. (AS 46.03.490(18)).
Milligrams per liter (mg/L)	The concentration at which one thousandth of a gram (10^{-3} g) is found in a volume of one liter; it is approximately equal to the unit "parts per million (ppm)," formerly of common use.
Micrograms per liter µg/L	The concentration at which one millionth of a gram (10^{-6} g) is found in a volume of one liter; it is approximately equal to the unit "parts per billion (ppb)," formerly of common use.
Month	Month shall be the time period from the first of a calendar month to the last day in the calendar month.
Permittee	A company, organization, association, entity or person who is issued a wastewater permit and is responsible for ensuring compliance, monitoring, and reporting as required by the permit.
Quality Assurance / Quality Control Plan	A system of procedures, checks, audits, and corrective actions to ensure that all research design and performance, environmental monitoring and sampling, and other technical and reporting activities are of the highest achievable quality.
Receiving Water	A harbor or other marine water into which wastewater or treated effluent is discharged.
Report	Report result of sample analysis or information gathering.
Sewage	Means human body wastes and other wastes from toilets and other receptacles intended to receive or retain human body waste, even if it is stored in a ballast tank or other holding area on the vessel that may not be customarily used to store sewage.
Sheen	An iridescent appearance on the water surface.
Total Residual Chlorine	Chlorine remaining in water or wastewater at the end of a specified contact period as combined or free chlorine.

DEFINITIONS

Tributyltin Paints	TBT-based marine antifouling paint or coating means a paint, coating, or treatment that contains tributyltin, or a triorganotin compound used as a substitute for tributyltin, and that is intended to control fouling organisms in a fresh water or marine environment.
Total Suspended Solids	A measure of the suspended solids in wastewater, effluent, or water bodies, determined by tests for "total suspended non-filterable solids."
Twice per season	Twice per season shall consist of two sampling events during the period when vessels are operating in marine waters of the state, typically May through September.
Underway	A vessel that is traveling at a speed of 6 knots (speed over ground) or greater.
Wastewater Treatment	Any process to which wastewater is subjected in order to remove or alter its objectionable constituents and make it suitable for subsequent use or acceptable for discharge to the environment.
Waters of Glacier Bay National Park & Preserve	For purposes of this permit, means all waters inside a line drawn between Point Gustavus at 135°54.927' W longitude; 58°22.748' N latitude and Point Carolus at 136°2.535' W longitude; 58°22.694' N latitude.

Discharge Monitoring Report (DMR) for Large Cruise Ships

General Permit #: 2009DB0026	Expires December 15, 2015	Submit this report to: Alaska Department of Environmental Conservation, Division of Water/ CPVEC, 410 Willoughby Ave, Suite 303, PO Box 111800, Juneau, AK 99811-1800, Phone (907) 465-5300, FAX (907) 465-5274, DEC.WQ.Cruise@alaska.gov
File Number:		
Authorization Number:		
Name:		Responsible party:
Address:		Phone:
Vessel:		Email:
Onsite Contact:		

Sample #	Date	Underway? (Y/N)	Location (Lat/Long in decimal degrees or the city if docked)	Discharge port
1				
2				
3				
4				

If additional samples were taken, list the date, location, port used, and whether it was an underway sample on an attached sheet.

Were there any discharges from the vessel while it was docked, anchored, or moving at less than 6 knots during this reporting period (Yes/No)?

Required Reporting Frequency: When one or more samples are taken, the DMR is due on the 21st day of the following Calendar month.

Effluent Monitoring

Parameter		Min Value	Monthly Geometric Mean	Daily Maximum	Number of Analyses	Number of Violations	Units	Minimum Frequency	Sample Method
Fecal Coliform Bacteria	Analytical Results						FC/100ml	Twice per month	Grab
	Permit Limits	N/A	14 per 100 mL	43 per 100 mL	report	report			

Parameter		Min Value	Monthly Average	Daily Maximum	Number of Analyses	Number of Violations	Units	Minimum Frequency	Sample Method
Ammonia (docked, anchored, or moving less than 6 knots)	Analytical Results						mg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			
Ammonia (Underway)	Analytical Results						mg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			

[1] Fill in the appropriate effluent limit for the system used to treat the wastewater discharged from the vessel (Tables 2-7).

Parameter		Min. Value	Monthly Average	Daily Maximum	Number of Analyses	Number of Violations	Units	Minimum Frequency	Sample Method
Dissolved Copper (docked, anchored, or moving less than 6 knots)	Analytical Results						µg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			
Dissolved Copper (Underway)	Analytical Results						µg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			
Dissolved Nickel (docked, anchored, or moving less than 6 knots)	Analytical Results						µg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			
Dissolved Nickel (Underway)	Analytical Results						µg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			
Dissolved Zinc (docked, anchored, or moving less than 6 knots)	Analytical Results						µg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			
Dissolved Zinc (Underway)	Analytical Results						µg/L	Twice per month	Grab
	Permit Limits	N/A	N/A	See Tables 2-7[1]	report	report			

Parameter		Min. Value	Monthly Average	Daily Maximum	Number of Analyses	Number of Violations	Units	Minimum Frequency	Sample Method
Total Flow (cubic meters per day of effluent)	Estimated or Metered						m^3/day	Daily	Metered or estimated
	Permit Limits	N/A	Not to exceed design capacity	Not to exceed design capacity	report	report			
Biochemical Oxygen Demand (5-day)	Analytical Results						mg/L	Twice per month	Grab
	Permit Limits	N/A	30	60	report	report			
Total Residual Chlorine	Analytical Results						µg/L	Twice per month	Field Test
	Permit Limits	N/A	N/A	10	report	report			
PH	Analytical Results						Std. Units	Twice per month	Field test, grab, or continuous
	Permit Limits	6.5	N/A	8.5	report	report			
Total Suspended Solids (TSS)	Analytical Results						mg/L	Twice per month	Grab or continuous
	Permit Limits	N/A	N/A	150	report	report			
Specific Conductance	Analytical Results						µmhos/cm	Twice per season	Field test, grab, or continuous
	Permit Limits	N/A	N/A	report	report	report			
Chemical	Analytical Results						mg/L	Twice per	Grab

Parameter		Min. Value	Monthly Average	Daily Maximum	Number of Analyses	Number of Violations	Units	Minimum Frequency	Sample Method
Oxygen Demand	Permit Limits	N/A	N/A	report	report	report		season	

Parameter		Min. Value	Monthly Average	Daily Maximum	Number of Analyses	Number of Violations	Units	Minimum Frequency	Sample Method
Nitrate-Nitrogen (N-NO3)	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Total Phosphorus	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Total Kjeldahl Nitrogen (TKN)	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Alkalinity	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Settleable Solids	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Oil & Grease	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Total Organic Carbon	Analytical Results						mg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Base-Neutral Acid extractables (BNA)	Analytical Results						µg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Volatile Organic Compounds (VOCs)	Analytical Results						µg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			
Other Dissolved and Total Recoverable Metals	Analytical Results						µg/L	Twice per season	Grab
	Permit Limits	N/A	N/A	report	report	report			

Has there been any deviation from the approved QA/QC Plan? (Y/N – If no, explain below.)

The VSSP is accurate, and there has been no deviation from the approved VSSP. (Y/N – If no, explain below.)
Attach a copy of the original laboratory report from each sampling event, the quality assurance and quality control analysis of the sampling, analytical testing and analytical data, and the sampling technique and analytical testing method for each sample.

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 AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILIITY OF FINES AND IMPRISONMENT FOR KNOWING VIOLATIONS.

NAME, TITLE OF PRINCIPAL EXECUTIVE OFFICER	SIGNATURE		
			( )____-_____
		DATE	TELEPHONE

COMMENT AND EXPLANATION OF ANY VIOLATIONS AND DETAILS OF CORRECTIVE ACTIONS (REFERENCE ALL ATTACHMENT HERE)

NONCOMPLIANCE NOTIFICATION

GENERAL INFORMATION		PERMIT NO (If any).
APPLICANT/COMPANY	VESSEL NAME	VESSEL LOCATION (Lat/Long)
PERSON REPORTING	PHONE NUMBER OF PERSON REPORTING	REPORTED HOW? (e.g. by phone)
DATE/TIME EVENT WAS NOTICED	DATE/TIME REPORTED	NAME OF ADEC STAFF CONTACTED
VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY		

INCIDENT DETAILS (attach additional sheets, lab reports and photos as necessary)

NATURE OF THE DISCHARGE (e.g. boiler blow down, sewage, graywater, etc.)

ESTIMATED QUANTITY INVOLVED (volume or weight)	ESTIMATED DURATION OF NONCOMPLIANCE

CAUSE OF EVENT (be specific)

PERMIT CONDITION DEVIATION Identify each permit condition exceeded during the event.

Parameter (e.g. BOD_5, pH)	Permit Limit	Exceedence (sample result)	Sample date

CORRECTIVE ACTIONS Attach a description of corrective actions taken to restore the system to normal operation and to minimize or eliminate chances of recurrence.

ENVIRONMENTAL DAMAGE. ☐ YES ☐ NO ☐ UNKNOWN (If yes, provide details below).

ACTUAL/POTENTIAL IMPACT ON ENVIRONMENT/PUBLIC HEALTH (describe in detail)

ACTIONS TAKEN TO REDUCE OR ELIMINATE ACTUAL/POTENTAIL IMPACT ON ENVIRONMENT/PUBLIC HEALTH (describe in detail)

COMMENTS

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 am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

NAME:_____ SIGNATURE:_____

DATE:_____

FORMS MUST BE SENT TO DEC WITHIN 7 DAYS OF THE EVENT.

ALASKA
Department of
Environmental
Conservation

ACCIDENTAL DISCHARGE / SPILL NOTIFICATION

GENERAL INFORMATION		PERMIT # (if any):
APPLICANT/COMPANY	VESSEL NAME	VESSEL LOCATION (Lat/Long)
PERSON REPORTING	PHONE NUMBER OF PERSON REPORTING	REPORTED HOW? (e.g. by phone)
DATE/TIME OF SPILL	DATE/TIME REPORTED	NAME OF ADEC STAFF CONTACTED

VERBAL NOTIFICATION MUST BE MADE TO ADEC WITHIN 24 HOURS OF DISCOVERY OF SPILL.

INCIDENT DETAILS (attach additional sheets, lab reports and photos as necessary)

PRODUCT SPILLED (e.g. sewage, propylene glycol, etc)		SOURCE OF SPILL	
QUANTITY SPILLED (volume or weight)	QUANTITY CONTAINED	QUANTITY RECOVERED	QUANTITY DISPOSED

CAUSE OF SPILL (be specific)

CLEANUP ACTIONS (describe in detail)

DISPOSAL METHODS AND LOCATION (describe in detail)

STATUS OF CLEANUP ACTIONS

ENVIRONMENTAL DAMAGE. ☐ YES ☐ NO ☐ UNKNOWN If yes, provide details below.	SURFACE AREA AFFECTED (square feet)	SURFACE TYPE (e.g. marine waters of the state, waters of the United States)

ACTUAL/POTENTIAL IMPACT ON ENVIRONMENT/PUBLIC HEALTH (describe in detail)

COMMENTS

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 am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations."

NAME: _____ SIGNATURE: _____ DATE: _____

FORMS MUST BE SENT TO DEC WITHIN 7 DAYS OF THE EVENT.

ALASKA
Department of
Environmental
Conservation

NOTICE OF INTENT FORM

Notice of Intent

to be covered under the Wastewater General Permit 2009DB0026 for
Large Commercial Passenger Vessels Operating in Alaska
(See Section 1.4 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 2009DB0026.

Vessel Owner Information

Who is the main point of contact for the vessel? (e.g. owner, operator, or Alaska Agent):	
Vessel Owner Business Name:	
Mailing Address:	Phone:
	FAX:
Representative:	Email:

Vessel Owner's or Operator's Alaska Agent Information

Company Name:	
Mailing Address:	Phone:
	FAX:
Representative:	Email:

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

Vessel Operators Owner Business Name:	
Mailing Address:	Phone:
	FAX:
Representative:	Email:

Vessel Information

Is the vessel seeking authorization to discharge treated sewage or treated graywater only while underway? (Y/N) or

Is the vessel seeking authorization for continuous discharge of treated sewage or treated graywater? (Y/N)

If the permittee is seeking authorization for continuous discharge (both underway and while docked, anchored, or moving at less than 6 knots), the permittee must attach (may be emailed separately) a drawing to scale that indicates the length of the vessel and the locations of the wastewater effluent penetration points (ports) on the hull.

Vessel name and IMO number:	
Vessel's Gross Tonnage:	
Port of Registry:	
Total number of berths available for passengers determined with reference to the number of lower berths	
Total number of berths available for crew on the vessel:	
Maximum passenger capacity and the maximum crew capacity per voyage:	

Discharge Port Characteristics (Required for continuous dischargers)

Note: If there is more than one discharge port, attach a sheet with the characteristics below for each AWTS Port.

Port Name:		**Port Diameter (internal):**		**Frame Number:**	
Location (Starboard/Port):		**Port centerline distance from waterline (normal load):**		**Port centerline distance from keel:**	
Vessel draft:		**Discharge Port pump capacity (m^3/hr)**		**Vessel length:**	
Port shape (round, oval, square)					

Wastewater Discharge Information	
Estimates of the average and maximum volume of the wastewater to be discharged per 24 hour period (cubic meters), and the beginning and ending dates between which discharges may occur each year;	Volume per 24 period, Average: Maximum: Startup Date: Ending date:
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): Number of AWTS: Combined design capacity:
Type(s) of sewage treatment and system capacity in cubic meters per 24 hour period;	Type (s): Combined design capacity:
Type(s) of graywater treatment and system capacity in cubic meters per 24 hour period;	Type (s): Combined design capacity:
Average volume of sewage generation per day in cubic meters;	
Maximum volume of sewage generation per day in cubic meters;	
Average graywater generation per day in cubic meters for the following sources:	Accommodations Galley Laundry
Maximum graywater generation per day in cubic meters for the following sources:	Accommodations Galley Laundry
The method of handling and disposal of sludge produced from the treatment of sewage and graywater.	

Signature and Certification that Tributyltin Paints are not Used for Antifoulant Purposes

I certify under penalty of law that any tributyltin paints that were applied to the surface of the vessel where it would be in direct contact with marine waters of the state after December 1, 1987 have either been removed or have been sealed by the application of a antifouling bottom paint that has been approved for use by the U.S. Environmental Protection Agency. Based on my inquiry of the person or persons who manage the vessel 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 am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

Signature of Principal Corporate or Executive Officer/General Proprietor

Printed Name

Title/Company

Date

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 am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	
Signature of Principal Corporate or Executive Officer/General Proprietor	Printed Name
Title/Company	Date

Submit this Notice of Intent to:

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

ALASKA Department of Environmental Conservation

NOTICE OF TERMINATION FORM

NOTICE OF TERMINATION (NOT) - REQUEST TO WITHDRAW FROM THE WASTEWATER GENERAL PERMIT 2009DB0026 FOR LARGE PASSENGER VESSELS OPERATING IN ALASKA

(See Section 1.11.2 of the permit)

VESSEL OWNER INFORMATION

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

Owner Business Name: Phone Number:

Address: Fax Number:

City, State, Zip: Email Address:

Representative:

VESSEL OPERATOR'S BUSINESS NAME IF DIFFERENT FROM THE OWNER'S BUSINESS NAME

Operators Business Name:

Address: Phone Number:

City, State, Zip: Fax Number:

Representative: Email Address:

VESSEL INFORMATION

Vessel Name:

Vessel IMO Number:

Port of Registry:

Date of Termination of Wastewater Discharges into Marine Waters of the State:

Check one of the following boxes

☐ This vessel has left the marine waters of the state and will not be discharging in marine waters of the state.

☐ This vessel is no longer owned or operated by the original permittee.

☐ This vessel will continue to operate in marine waters of the state. A Vessel Specific Holding Plan detailing holding tanks that shall be used and procedures that shall ensure that a discharge of waste water will not occur in marine waters of the state is included with this request for termination.

Signature and Certification for NOT

Certification:

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 am aware that there are significant penalties for submitting false information, including the possibility of fines and imprisonment for knowing violations.

I understand that by submitting this Notice of Termination I am no longer authorized to discharge wastewater into marine waters of the state as defined in AS 46.03.490(8) and AS 46.03.490(18). I also understand that the submittal of this Notice of Termination does not release an owner or operator from liability for any violations of this permit.

Signature: _____ Dated: _____

Printed Name: _____

Title: _____

SUBMIT COMPLETED NOTICE OF TERMINATION TO:

Alaska Dept. of Environmental Conservation
Division of Water
Commercial Passenger Vessel Environmental Compliance Program
410 Willoughby Avenue, Suite 303
PO Box 111800
Juneau, AK 99811-1800
(907) 465-5300

Example of Acceptable Format for Transmittal of Analytical Results as Required by this General Permit Section 1.6 Reporting

CRUISE SHIP MONITORING REPORT							
COMPANY NAME:		SAMPLE VALVE:		LAT / LONG or PORT:	LAT	LONG	
COMPANY ADDRESS:		SAMPLE NUMBER:					
		SAMPLE DATE:		DISHCARGING (Y/N):	YES	NO	
VESSEL NAME:		SAMPLE TIME:					
Underway (Y/N):	YES	NO					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
Biochemical Oxygen Demand (BOD)			mg/L					
Fecal Coliform Bacteria			FC per 100 ml					
Total Residual Chlorine			µg/L					
Free Chlorine			µg/L					
Ammonia Nitrogen as N			mg/L					
Copper, Dissolved			µg/L					
Nickel, Dissolved			µg/L					
Zinc, Dissolved			µg/L					
pH			S.U.					
Total Suspended Solids (TSS)			mg/L					
Settleable Solids			ml/L					
Specific Conductivity			µmhos/cm					
Chemical Oxygen Demand (COD)			mg/L					
Nitrate-Nitrogen ($N\text{-}NO_3$)			mg/L					
Total Phosphorus (as P)			mg/L					
Total Kjeldahl Nitrogen (TKN)			mg/L					
Total Organic Carbon (TOC)			mg/L					
Nitrate			mg/L					
Alkalinity			mg/L					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
Oil and Grease (HEM)			mg/L					
Temperature			°C					
Antimony, Dissolved			µg/L					
Arsenic, Dissolved			µg/L					
Beryllium, Dissolved			µg/L					
Cadmium, Dissolved			µg/L					
Chromium, Dissolved			µg/L					
Lead, Dissolved			µg/L					
Selenium, Dissolved			µg/L					
Silver, Dissolved			µg/L					
Thallium, Dissolved			µg/L					
Antimony, Total Recoverable			µg/L					
Arsenic, Total Recoverable			µg/L					
Beryllium, Total Recoverable			µg/L					
Cadmium, Total Recoverable			µg/L					
Chromium, Total Recoverable			µg/L					
Copper, Total Recoverable			µg/L					
Lead, Total Recoverable			µg/L					
Mercury (Total)			µg/L					
Nickel, Total Recoverable			µg/L					
Selenium, Total Recoverable			µg/L					
Silver, Total Recoverable			µg/L					
Thallium, Total Recoverable			µg/L					
Zinc, Total Recoverable			µg/L					
1,1,1,2-Tetrachloroethane			µg/L					
1,1,1-Trichloroethane			µg/L					
1,1,2,2-Tetrachloroethane			µg/L					
1,1,2-Trichloroethane			µg/L					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
1,1-Dichloroethane			µg/L					
1,1-Dichloroethene			µg/L					
1,1-Dichloropropene			µg/L					
1,2,3-Trichlorobenzene			µg/L					
1,2,3-Trichloropropane			µg/L					
1,2,4-Trichlorobenzene			µg/L					
1,2,4-Trimethylbenzene			µg/L					
1,2-Dibromo-3-Chloropropane			µg/L					
1,2-Dichlorobenzene			µg/L					
1,2-Dichloroethane			µg/L					
1,2-Dichloropropane			µg/L					
1,3,5-Trimethylbenzene			µg/L					
1,3-Dichlorobenzene			µg/L					
1,3-Dichloropropane			µg/L					
1,4-Dichlorobenzene			µg/L					
2,2-Dichloropropane			µg/L					
2-Butanone			µg/L					
2-Chloroethyl Vinyl Ether			µg/L					
2-Chlorotoluene			µg/L					
2-Hexanone			µg/L					
4-Chlorotoluene			µg/L					
4-Isopropyltoluene			µg/L					
4-Methyl-2-Pentanone			µg/L					
Acetone			µg/L					
Acrolein			µg/L					
Acrylonitrile			µg/L					
Benzene			µg/L					
Bromobenzene			µg/L					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
Bromochloromethane			µg/L					
Bromodichloromethane			µg/L					
Bromoform			µg/L					
Bromomethane			µg/L					
Carbon Disulfide			µg/L					
Carbon Tetrachloride			µg/L					
Chlorobenzene			µg/L					
Chloroethane			µg/L					
Chloroform			µg/L					
Chloromethane			µg/L					
Cis-1,2-Dichloroethene			µg/L					
Cis-1,3-Dichloropropene			µg/L					
Dibromochloromethane			µg/L					
Dibromomethane			µg/L					
Dichlorodifluoromethane			µg/L					
Ethylbenzene			µg/L					
Hexachlorobutadiene			µg/L					
Iodomethane			µg/L					
Isopropylbenzene			µg/L					
m&p Xylenes			µg/L					
Methylene Chloride			µg/L					
n-Butylbenzene			µg/L					
n-Propylbenzene			µg/L					
O-Xylene			µg/L					
sec-Butylbenzene			µg/L					
Styrene			µg/L					
tert-Butyl Methyl			µg/L					
tert-Butylbenzene			µg/L					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
Tetrachloroethene			µg/L					
Toluene			µg/L					
Trans 1,2-Dichloroethene			µg/L					
trans-1,3-Dichloropropene			µg/L					
trans-1,4-Dichloro-2 Butene			µg/L					
Trichloroethene			µg/L					
Trichlorofluoromethane			µg/L					
Trichlorotrifluoroethane			µg/L					
Vinyl Acetate			µg/L					
Vinyl Chloride			µg/L					
1,2-Diphenylhydrazine			µg/L					
2,4,5-Trichlorophenol			µg/L					
2,4,6-Trichlorophenol			µg/L					
2,4-Dichlorophenol			µg/L					
2,4-Dimethylphenol			µg/L					
2,4-Dinitrophenol			µg/L					
2,4-Dinitrotoluene			µg/L					
2,6-Dinitrotoluene			µg/L					
2-Chloronapthalene			µg/L					
2-Chlorophenol			µg/L					
2-Methylnaphthalene			µg/L					
2-Methylphenol			µg/L					
2-Nitroaniline			µg/L					
2-Nitrophenol			µg/L					
3&4-Methylphenol			µg/L					
3,3'-Dichlorobenzidine			µg/L					
3-Nitroaniline			µg/L					
4,6-Dinitro-2-methylphenol			µg/L					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
4-Bromophenyl Phenyl ether			µg/L					
4-chloro-3-methylphenol			µg/L					
4-Chloroaniline			µg/L					
4-Chlorophenyl			µg/L					
methylsulfone			µg/L					
4-Chlorophenyl Phenyl ether			µg/L					
4-Nitroaniline			µg/L					
4-Nitrophenol			µg/L					
Acenaphthene			µg/L					
Acenaphthylene			µg/L					
Anthracene			µg/L					
Benzidine			µg/L					
Benzo (A) Anthracene			µg/L					
Benzo (A) Pyrene			µg/L					
Benzo (B) Fluoranthene			µg/L					
Benzo (g,h,i) Perylene			µg/L					
Benzo (K) Fluoranthene			µg/L					
Benzoic Acid			µg/L					
Benzyl Alcohol			µg/L					
Bis (2-Chloroethoxy) methane			µg/L					
Bis (2-chloroethyl) ether			µg/L					
Bis (2-Chloroisopropyl) ether			µg/L					
Bis (2-Ethylhexyl) Phthalate			µg/L					
Butyl Benzyl Phthalate			µg/L					
Chrysene			µg/L					
Dibenzo (a,h) Anthracene			µg/L					
Dibenzofuran			µg/L					
Diethyl Phthalate			µg/L					

Parameter	Flag	Results	Units	Analysis Date	Analysis Time	PQL	Sample Type	Comments
Dimethyl Phthalate			µg/L					
Di-N-Butyl Phthalate			µg/L					
Di-N-Octyl Phthalate			µg/L					
Fluoranthene			µg/L					
Fluorene			µg/L					
Hexachlorobenzene			µg/L					
Hexachlorocyclopentadiene			µg/L					
Hexachloroethane			µg/L					
Indeno (1,2,3-CD) Pyrene			µg/L					
Isophorone			µg/L					
Napthalene			µg/L					
Nitrobenzene			µg/L					
N-Nitrosodimethylamine			µg/L					
N-Nitrosodi-N-Propylamine			µg/L					
N-Nitrosodiphenylamine			µg/L					
Pentachlorophenol			µg/L					
Phenanthrene			µg/L					
Phenol			µg/L					
Pyrene			µg/L					

ATTACHMENT 2 – Test Results for Pacific Jewel's AWWT System

SGS ANALYTICAL PERSPECTIVES

Laboratory Report of Analysis

To: Andrew Lorenzana
PRINCESS CRUISES - ENV. OPERATIONS
MANAGER
24305 Town Center Drive
Valencia, CA 91355
US

Report Number: **31300295**

Client Project: **Pacific Jewel -Effluent**

Dear Andrew Lorenzana,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
Date: 2013.02.28 09:58:56 -05'00'

Michael D. Page
Project Manager
michael.page@sgs.com

Date

Print Date: 02/28/2013

N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

SGS ANALYTICAL PERSPECTIVES

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-Identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Print Date: 02/28/2013

N.C. Certification # 481

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
Overboard DISC Effluent	31300295001	02/18/2013 10:15	02/18/2013 10:20	Water

Print Date: 02/28/2013

N.C. Certification # 481

SGS ANALYTICAL PERSPECTIVES

Results of Overboard DISC Effluent

Client Sample ID: Overboard DISC Effluent
Client Project ID: Pacific Jewel -Effluent
Lab Sample ID: 31300295001-B
Lab Project ID: 31300295

Collection Date: 02/18/2013 10:15
Received Date: 02/18/2013 10:20
Matrix: Water

Results by Method APHA 2540D (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Total Suspended Solids	ND		5.00	mg/L	1

Results by Method APHA 4500Cl (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Chlorine, Total Residual	ND		0.100	mg/L	1

Results by Method APHA 4500H (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
pH	7.8			S.U.	1

Results by Method APHA 5210B (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
BOD	270			mg/L	1

Results by Method APHA 9222D (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Fecal Coliform	46			CFU/100mL	1

Laboratory: SGS Australia
Analytical Date/Time: 02/18/2013 10:20

Print Date: 02/26/2013

N.C. Certification # 481

SGS

CHAIN OF CUSTODY RECORD
SGS Global Marine Services

Locations Nationwide
Alaska North Carolina
Maryland New Jersey

www.us.sgs.com

CLIENT: Princess Cruises
CONTACT: Andrew Lorenzana   SGS Contact: Bob Goldring (robert.goldring@sgs.com)
PROJECT: Environmental Operations Department
Vessel Name: Pacific Jewel
SGS Environmental Services   P.O. NUMBER: ______
5500 Business Dr. Wilmington, NC 28405 USA

SGS Reference #: 3130295
page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)	pH	TRC (Chlorine)	BOD	TSS	Fecal Coliform	REMARKS
	~~MBR Effluent~~						☒	☒	☒	☒	☒	WITNESSED SAMPLE COLLECTION BY ANDRES FROM SGS
1	Overboard DISC Effluent	18/2/13	10:15 AM	WATER			☒	☒	☒	☒	☒	OSEO DARIO SCAC 18-FEB-13

Stamp (partly legible): Received By ___ Time ___ Samples Intact ___ Temperature on Receipt ___ Storage Location ___ SGS REF No. ___

Collected/Relinquished By: (1)	Date	Time	Received By:
[signature] Environmental Officer's signature	18-FEB-13	10.20	[signature]
Relinquished By: (2)	Date	Time	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

Shipping Carrier:
Shipping Ticket No:
Data Deliverable Required: Level I Level II Level III
Requested Turnaround Time and-or Special Instructions:
Samples Received Cold? YES NO
Temperature °C: ______
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

☐ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
☐ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

PLEASE REFER TO: SLIM 11543C
ENV 17377

SGS

AUSTRALIA – ENVIRONMENTAL SERVICES SYDNEY – PROFORMA FORM

SAMPLE INFORMATION

Approved: D. Liang

JOB No. SE115430

Sample No.	P 100ml UP	P 250ml UP	P 500ml UP	P 1L UP	G 100 Amber UP	G 200 Amber UP	G 500 Amber UP	G 1L Amber UP	G 40ml Vial Up	G 40ml Vial HCl	P 100ml HCl	G 40ml Vial H2SO4	P 100ml H2SO4	P 250ml H2SO4	G 600ml Amber H2SO4	G 1L H2SO4	P 100/250ml HN03 Total	P 100ml HN03 Filtered	P 250ml NaOH	P 250ml Zn Acetate	Plastic Bag	G 250ml Soil Jar	[illegible]			Sample Matrix	Lab Bottles Supplied By	Comments
1				2																			1			Water	SGS	[illegible]

Uncontrolled template when printed

Ref: PF-(AU)-[ENV]-[ALX]105.doc/ver.2/31.10.2008/Page 1 of 1

SGS ANALYTICAL PERSPECTIVES

Laboratory Report of Analysis

To: Andrew Lorenzana
PRINCESS CRUISES - ENV. OPERATIONS MANAGER
24305 Town Center Drive
Valencia, CA 91355
US

Report Number: **31300622**

Client Project: **Pacific Jewel - Effluent**

Dear Andrew Lorenzana,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
Date: 2013.05.02 10:54:00 -05'00'

Michael D. Page — Date
Project Manager
michael.page@sgs.com

Print Date: 05/02/2013

N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Print Date: 05/02/2013

N C. Certification # 481

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
Overboard DISC Effluent	31300622001	04/19/2013 08:56	04/19/2013 09:50	Water

Print Date: 05/02/2013

N.C. Certification # 481

SGS ANALYTICAL PERSPECTIVES

Results of Overboard DISC Effluent

Client Sample ID: Overboard DISC Effluent
Client Project ID: Pacific Jewel - Effluent
Lab Sample ID: 31300622001-B
Lab Project ID: 31300622

Collection Date: 04/19/2013 08:56
Received Date: 04/19/2013 09:50
Matrix: Water

Results by Method APHA 2540D (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Total Suspended Solids	ND		5.00	mg/L	1

Results by Method APHA 4500Cl F (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Chlorine, Total Residual	ND		0.100	mg/L	1

Results by Method APHA 4500H (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
pH	8.3			S.U.	1

Results by Method APHA 5210B (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
BOD	8		5.00	mg/L	1

Results by Method Ext-043 (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Fecal Coliform	34		1.00	CFU/100mL	1

Laboratory: SGS Australia
Analytical Date/Time: 04/19/2013 00:00

Print Date: 05/02/2013

N.C. Certification # 481

CHAIN OF CUSTODY RECORD
SGS Global Marine Services

SGS

Locations Nationwide
Alaska North Carolina
Maryland New Jersey

www.us.sgs.com

CLIENT: Princess Cruises

CONTACT: Andrew Lorenzano SGS Contact: Bob Golding (robert.golding@sgs.com)

PROJECT: Environmental Operations Department

Vessel Name: Pacific Jewel

SGS Environmental Services P.O. NUMBER:

5500 Business Dr. Wilmington, NC 28405 USA

SGS Reference #: 31300622

page 1 of 1

LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)	pH	TRC (Chlorine)	BOD	TSS	Fecal Coliform	REMARKS
	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~	~~[illegible]~~			☒	☒	☒	☒	☒	
S1	Overboard DISC Effluent	18/4/13	856 am	H2O			☒	☒	☒	☒	☒	19/04/13 SGS 0.00 20 W208 SE 116820

Collected/Relinquished By: (1)	Date	Time	Received By:
Environmental Officer's signature	18/4/13	8 [illegible]	[signature]
Relinquished By: (2)	Date	Time	Received By: [signature]
Relinquished By: (3)	19/04	9.50	Received By: [signature]
Relinquished By: (4)	Date	Time	Received For Laboratory By:

M.V. PACIFIC JEWEL
APR 2013
Environmental Officer

Shipping Carrier:
Shipping Ticket No:
Data Deliverable, Required: Level I Level II Level III
Samples Received Cold? YES NO (circled)
Temperature °C: 20
Chain of Custody Seal: (Circle) INTACT (circled) BROKEN ABSENT
Requested Turnaround Time and-or Special Instructions:

☐ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-0685
☐ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

REFER TO ENV 17702.
JWM 116820.
ANDRÉS ORTEGA

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SGS ANALYTICAL PERSPECTIVES

Laboratory Report of Analysis

To: Andrew Lorenzana
PRINCESS CRUISES - Director, Environmnetal Operations
24305 Town Center Drive
Valencia, CA 91355
US

Report Number: **31301199**

Client Project: **Pacific Jewel**

Dear Andrew Lorenzana,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of five years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of thirty (30) days from the date of this report unless other arrangements are requested.

If there are any questions about the report or services performed during this project, please call Michael D. Page at (910) 350-1903. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Digitally signed by: Michael Page
Date: 2013.09.19 09:27:16 -05'00'

Michael D. Page
Project Manager
michael.page@sgs.com

Date

Print Date: 09/19/2013

N.C. Certification # 481

ANALYTICAL PERSPECTIVES IS NOW PART OF SGS, THE WORLD'S LEADING INSPECTION, VERIFICATION, TESTING AND CERTIFICATION COMPANY.

Laboratory Qualifiers

Report Definitions

DL	Method, Instrument, or Estimated Detection Limit per Analytical Method
CL	Control Limits for the recovery result of a parameter
LOQ	Reporting Limit
DF	Dilution Factor
RPD	Relative Percent Difference
LCS(D)	Laboratory Control Spike (Duplicate)
MS(D)	Matrix Spike (Duplicate)
MB	Method Blank

Qualifier Definitions

*	Recovery or RPD outside of control limits
B	Analyte was detected in the Lab Method Blank at a level above the LOQ
U	Undetected (Reported as ND or < DL)
V	Recovery is below quality control limit. The data has been validated based on a favorable signal-to-noise and detection limit
A	Amount detected is less than the Lower Method Calibration Limit
J	Estimated Concentration.
O	The recovery of this analyte in the OPR is above the Method QC Limits and the reported concentration in the sample may be biased high
E	Amount detected is greater than the Upper Calibration Limit
S	The amount of analyte present has saturated the detector. This situation results in an underestimation of the affected analyte(s)
Q	Indicates the presence of a quantitative interference. This situation may result in an underestimation of the affected analyte(s)
I	Indicates the presence of a qualitative interference that could cause a false positive or an overestimation of the affected analyte(s)
DPE	Indicates the presence of a peak in the polychlorinated diphenylether channel that could cause a false positive or an overestimation of the affected analyte(s)
TIC	Tentatively Identified Compound
EMPC	Estimated Maximum possible Concentration due to ion ratio failure
ND	Not Detected
K	Result is estimated due to ion ratio failure in High Resolution PCB Analysis
P	RPD > 40% between results of dual columns
D	Spike or surrogate was diluted out in order to achieve a parameter result within instrument calibration range

Samples requiring manual integrations for various congeners and/or standards are marked and dated by the analyst. A code definition is provided below:

M1	Mis-Identified peak

Note Results pages that include a value for "Solids (%)" have been adjusted for moisture content.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MBR Effluent	31301199001	09/09/2013 10:10	09/09/2013 10:10	Water

Print Date: 09/19/2013

N.C. Certification # 481

Results of MBR Effluent

Client Sample ID: MBR Effluent
Client Project ID: Pacific Jewel
Lab Sample ID: 31301199001-B
Lab Project ID: 31301199

Collection Date: 09/09/2013 10:10
Received Date: 09/09/2013 10:10
Matrix: Water

Results by Method APHA 2540D (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Total Suspended Solids	ND		5.00	mg/L	1

Results by Method APHA 4500Cl F (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Chlorine, Total Residual	ND		0.100	mg/L	1

Results by Method APHA 4500H (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
pH	7.9			S.U.	1

Results by Method APHA 5210B (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
BOD	56			mg/L	1

Results by Method Ext-043 (SUB)

Parameter	Result	Qual	LOQ/CL	Units	DF
Fecal Coliform	62			CFU/100mL	1

Laboratory: SGS Australia
Analytical Date/Time: 09/09/2013 00:00

Print Date: 09/19/2013

N.C. Certification # 481

SGS

CHAIN OF CUSTODY RECORD
SGS Global Marine Services

Locations Nationwide
Alaska North Carolina
Maryland New Jersey

www.us.sgs.com

CLIENT: Princess Cruises

CONTACT: Andrew Lorenzana SGS Contact: Bob Golding (robert.golding@sgs.com)

PROJECT: Environmental Operations Department

Vessel Name: Pacific Jewel

SGS Environmental Services P.O. NUMBER: ______

5500 Business Dr. Wilmington, NC 28405 USA

SGS Reference #: 31301199

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LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX	# CONTAINERS	SAMPLE TYPE (C = COMP, G = GRAB)	pH	TRC (Chlorine)	BOD	TSS	Fecal Coliform	REMARKS
1	MBR Effluent	9/9/13	10:10	WATER			☒	☒	☒	☒	☒	
	~~Crossed-out entry~~						☒	☒	☒	☒	☒	

Date: 9/9/13
By: EA
Time: 9.00 am
Samples intact: yes/no
Ice/Cooler Pack: yes/no
Temperature on Receipt: 8.3 °C
Storage Location: WOSX
SGS REF No: SE120521

Collected/Relinquished By: (1) Environmental Officer's signature [signature]	Date 9/09/13	Time 10:10	Received By: [signature]
Relinquished By: (2)	Date 9/9/13	Time 9 am	Received By: [signature]
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date	Time	Received For Laboratory By:

Shipping Carrier:
Shipping Ticket No:
Samples Received Cold? YES NO
Temperature °C: 3
Data Deliverable Required: Level I Level II Level III
Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT
Requested Turnaround Time and/or Special Instructions:

☐ 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
☐ 3180 Peger Road Fairbanks, AK 99701 Tel: (907) 474-8656 Fax: (907) 474-9685
☐ 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

REFER TO: ENV 18634
SE ~~120504~~ 120521
ANDRES ORTEGA / PROJECTS

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rev.01 01/13/2006

ATTACHMENT 3 – International Sewage Pollution Prevention Certificate

International Sewage Pollution Prevention Certificate

Issued under the provisions of the International Convention for the Prevention of Pollution from Ships, 1973, as modified by the Protocol of 1978 relating thereto, as amended, (hereinafter referred to as "the Convention"), under the authority of the Government of the United Kingdom of Great Britain and Northern Ireland by Lloyd's Register Asia.

Particulars of Ship	
Name of ship	**PACIFIC JEWEL**
Distinctive number or letters	**MPRZ**
Port of registry	**LONDON**
Gross tonnage	**70,310**
Number of persons which the ship is certified to carry	**2672**
IMO number	**8521220**
New/existing ship	**Existing ship**
Date on which keel was laid or ship was at a similar stage of construction or, where applicable, date on which work for a conversion or an alteration or modification of a major character was commenced	**07 June 1988**

This is to certify

1. That the ship is equipped with a sewage treatment plant, ~~comminuter~~, holding tank*, and a discharge pipeline in compliance with regulations 9 and 10 of Annex IV of the Convention as follows:

1.1	Description of the sewage treatment plant*	**Biological**	
	Type of sewage treatment plant	**Membrane Bio Reactor - MBR 12**	
	Name of manufacturer	**Hamworthy.**	
	The sewage treatment plant is certified by the Administration to meet the effluent standards as provided for in resolution **MEPC.159(55)**		
1.2	~~Description of comminuter*~~	-	
	~~Type of comminuter~~	-	
	~~Name of manufacturer~~	-	
	~~Standard of sewage after disinfection~~	-	
1.3	Description of holding tank equipment*	**Grey Water**	**Black Water**
	Total capacity of the holding tank	**989.1 m³**	**148.7 m³**
	Location	**1 Centre Deep, 4 P & S DB, 14 P & S DB, 15 P & S DB**	**13 Centre DB**
1.4	A pipeline for the discharge of sewage to a reception facility, fitted with a standard connection		

2. That the ship has been surveyed in accordance with regulation 4 of Annex IV of the Convention.
3. That the survey shows that the structure, equipment, systems, fittings, arrangements and material of the ship and the condition thereof are in all respects satisfactory and that the ship complies with the applicable requirements of Annex IV of the Convention.

This certificate is valid until **29 June 2015** subject to surveys in accordance with regulation 4 of Annex IV of the Convention.

Completion date of the survey on which this certificate is based **10 December 2010**

Issued at **Sydney** on **10 December 2010**

P.A.Morgan
Surveyor to Lloyd's Register Asia

A member of the Lloyd's Register Group

** Delete as appropriate*

Endorsement to extend the certificate if valid for less than 5 years where regulation 8.3 applies

The ship complies with the relevant provisions of the Convention, and this certificate shall, in accordance with regulation 8.3 of Annex IV of the Convention, be accepted as valid until

Signed: _____

Place of survey

Date

Endorsement where the renewal survey has been completed and regulation 8.4 applies

The ship complies with the relevant provisions of the Convention, and this certificate shall, in accordance with regulation 8.4 of Annex IV of the Convention, be accepted as valid until

Signed: _____

Place of survey

Date

Endorsement to extend the validity of the certificate until reaching the port of survey or for a period of grace where regulation 8.5 or 8.6 applies

This certificate shall, in accordance with regulation **8.5 or 8.6*** of Annex IV of the Convention, be accepted as valid until

Signed: _____

Place of survey

Date

** Delete as appropriate*

ATTACHMENT 4 – Checklist of ship needs with answers from Carnival Australia

Checklist for Carnival - Pacific Jewel vessel

Vessel Specifications (Please confirm and provide further relevant details)

- Built – 1990, 70K gross tonnage; Length – 245m; draft – 8m; width – 32m;
- propulsion – diesel/electric; passengers – 1900; crew – 734.
- Expected numbers are likely to be closer to 1400 due to cabin configaration

Port state Control

1) What would be your last port of call prior to arrival in Apia? Brisbane
2) What is the next port of call after Apia? Sydney
3) When will be your last Port State Control inspection before arrival in Apia? Ship will be based out of Sydney until June 2014 when ship will then be based out of Brisbane until arriving in Apia for charter. Expected date on latest AMSA schedule 13 July in Brisbane.

Waste Management

The following questions seek to understand your waste management for all types of waste defined in the 6 MARPOL Annexes – Oil, HNS bulk, HNS Packed, Sewage, Garbage, Air Pollution.

1) What types and quantities of waste are you expecting to have to deal with according to the MARPOL Annexes? We propose processing black and domestic grey through the onboard Advanced Wastewater Treatment System. Galley and Laundry grey to retain onboard. Recyclable garbage remain onboard . Food waste is the wastestream we would like to land- approximately 5 tonnes per day.
2) What "type approved" waste treatment systems do you have on board for each Annex? MBR 12 (Membrane Bio Reactor) – Manufacture Hamworthy. Attached is copy of International Sewage Pollution Prevention Certificate issued by Lloyds Register.
3) Of these, is there any resultant discharge of any type? Yes, if permitted freshwater to be discharged as per procedure in Alaska (Marine Discharge of Treated Sewage and Treated Graywater from Commercial Passenger Vessels Operating in Alaska). Regular testing is undertaken and results are available.
4) If not type approved, what are the waste storage capacities for each waste type and how long before this capacity is reached for each of the Annexes? Food Waste – 1.5 days. Grey water – approximately 30 hours, Black Water – 30 hours. Discharge quantities requirements is approximately the amount of water bunkered each day.
5) What arrangements need to be in place to dispose of these waste streams if storage capacity is reached for each Annex? Must discharge food waste. Confident can hold all other waste streams subject to approval being received to discharge treated water from MBR.

6) What is your capacity to deal with accidental Oil and HNS discharges? We have comprehensive Oil/Chemical spill response procedures as part of the company Safety Management System.
7) What is your fresh water carrying capacity? How long is this estimated to last based on projected passengers numbers? 2,300 tonnes maximum
8) Do you have a process in place for segregating recyclables (aluminum cans, cardboard boxes, PET bottles, glass, etc), and are you expecting assistance to discharge these at port? Yes we do. These recyclables will be held onboard.

Provisioning

1) Will you need to provision at all during the period berthed in Samoa? Not planned at this stage. However there may be a need for a small amount of Reefer containers to be shipped to Apia for loading onto vessel.
2) If any please provide details so we can ensure that this is available. As above.
3) Will you need to replenish water supply? Yes, 500-600mt per day
4) How do you propose to replenish your fresh water supplies? Through wharf connection
5) Is there a need to leave the port before the end of the planned berthing period to meet any waste management or provisioning requirements? This is dependent on whether approval is received to discharge treated water from the MBR.