









In 2010, 16 of the 28 large cruise ships that had a voyage to Alaska were authorized to discharge under the General Permit. A list of 2010 authorized vessels and copies of authorization letters can be found at: [http://www.dec.state.ak.us/water/cruise\\_ships/gp/Auth\\_10.html](http://www.dec.state.ak.us/water/cruise_ships/gp/Auth_10.html)

### **3. GENERAL PERMIT REQUIREMENTS**

The 2010 Large Cruise Ship General Permit:

- Required that discharges meet effluent limits for listed parameters<sup>1</sup>. The limits are based on the stricter of the Water Quality Standard after initial dilution; or historical performance of the treatment system.
- Created limits for two types of discharge- underway (speed of over six knots) and stationary<sup>2</sup>.
- Prohibited discharge into impaired waterways such as Skagway Harbor.
- Prohibited discharge of foam, oily wastes, garbage, or grease into State waters.
- Required owners/operators to submit signed Notice of Intent to Discharge that lists treatment, storage, and contact information. Discharge is prohibited until DEC approval.
- Required companies to certify that they don't use tributyltin paints.
- Required sampling twice per month for: biological oxygen demand (BOD), fecal coliform bacteria, total residual chlorine, ammonia, dissolved metals (copper, nickel and zinc), pH, and total suspended solids (TSS). Samples must be taken while the ship is discharging in Alaskan waters.
- Required sampling for Volatile Organic Compounds, Base Neutral Acids, and several other parameters twice per season.
- Required Monthly submission of Discharge Monitoring Reports containing sample data.

### **4. WASTEWATER SAMPLE RESULTS SUMMARY**

Cruise ship wastewater treatment systems have generally performed well at treating the effluent parameters that ADEC and the US Coast Guard have monitored since 2001. These parameters include fecal coliform bacteria counts (an indicator of potential pathogens), pH, chlorine, biochemical oxygen demand, and total suspended solids.

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<sup>1</sup> Listed in Tables 1 through 7 of the 2010 ADEC wastewater General Permit

<sup>2</sup> See Appendix 1 for limits







































