

28 December 2016

Rorie Watt, City and Borough Manager
155 S Seward Street
Juneau, AK 99801

Dear Mr. Watt,

Thank you for considering our joint request for FY18 Marine Passenger Fees to fund the following project.

Online Water Quality Monitors for Wastewater Discharges (\$200,000) – Purchase and install of two online water quality monitoring units; one at the Franklin dock and one at Juneau Douglas WW Treatment Plant (JDTP). These units will provide real-time data for both the cruiseships effluent discharges (i.e., BOD, COD, TSS, and turbidity) and JDTP influent. The goals of implementation are to allow more greywater discharges (for up to four cruiseship berths), provide better treatment management of JDTP, and reduce sampling costs for the cruiselines.

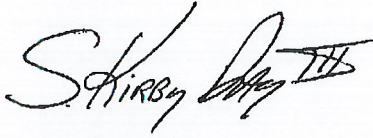
Background

Each summer for more than a decade, the JDTP has accepted greywater wastewater discharges from Princess Cruises at the Franklin dock. These discharging ships prefer to use the CBJ service as it affords them much needed onboard tank capacity and reduces overall fuel consumption costs. The CBJ has accepted the discharges as a more environmentally conscious alternative to direct channel discharge while the ships are in the Juneau ports. However, consulting engineers have documented that the treatment capacity at JDTP is limited. Therefore beginning in 2015, when AJ Docks gained the capacity to discharge effluent, CBJ accepted the infrequently requested discharges and monitored the effect on JDTP closely. During each discharge event, flow reading and grab-samples are collected for water quality parameters, such as BOD and TSS; these values are used to calculate discharge fees and to help approximate the effluent quality sent to JDTP. However, by the time the grab-samples results (more than 14 days after discharge) are available, any impact on JDTP has passed making it very difficult to assess the treatment capacity and manage the treatment efficiency needed to maintain permit compliance.

So looking ahead to June 2017, there exists a much greater potential for greywater discharges having the two new CBJ cruise berths coming online. In an attempt to meet the discharge requests, this funding request is intended to purchase and install monitors at the Franklin dock and JDTP to provide real-time water quality data. An additional long-term benefit of the monitors could be reduced sampling costs; the monitors real-time data would replace the grab-sampling data currently being collected and analyzed by an outside laboratory at an additional cost to the cruiselines.

Please don't hesitate to contact us if you have questions about our request.

Sincerely,



S. Kirby Day III
Franklin Dock



Drew Green
AJ Dock LLC



Port Engineer
for

Carl Uchytel, PE
CBJ Docks & Harbors



Samantha S. Stoughtenger, PE
CBJ Utilities

