

Vessel Specific Sampling Plan

M/V

The sampler will use the VSSP as a guide to identify the specific onboard locations to be sampled. To satisfy the VSSP requirement, you may fill in the blanks in this form starting on page 2 or you may submit an existing updated VSSP if it contains the components listed in 18 AAC 69.030(b).

Please note that ADEC will not approve sampling locations that are more than 50 feet from the overboard discharge port. Samples taken in 2003 indicated that samples taken directly after the ultraviolet disinfection unit were not of the same quality as samples taken at the overboard discharge pipe.

The two or more wastewater samples that are taken to satisfy the state requirements must reflect the quality of the effluent that is being discharged into Alaska waters during standard operating procedures. Samples must be taken while discharging in Alaskan waters. In port vessels that have obtained continuous discharge certification from the U.S. Coast Guard but choose not to discharge in port as part of their standard operating procedures, must sample while the vessel is underway. Vessels under the 2010 General Permit that discharge while stationary must also sample while stationary.

If you have questions concerning the components of the VSSP, please contact Albert Faure (907)-465-5279, or Ed White (907)-465-5138 or by email albert.faure@alaska.gov, edward.white@alaska.gov.

Table on this page is for ADEC use only.

<input type="checkbox"/>	ADEC approved as written on	_____ /12
<input type="checkbox"/>	ADEC approved with the redlined changes on	_____ /
<input type="checkbox"/>	ADEC does not approve, please resubmit	_____ /
The plan is missing or insufficient in the following areas:		
VSSP Updates:		

Vessel Specific Sampling Plan (VSSP)

2012 Season

Vessel Name: _____

(Note: Remember to include all units. Example cubic meters, gallons, cubic meters per second.)

Year ship joined fleet	
Gross tonnage	
Passenger capacity(#)/voyage	
Crew capacity(#)/voyage	
MSD system (USCG type)	
Number of MSD units	
Other water treatment units (type & capacity)	
Blackwater treatment (type & capacity)	
Treated blackwater holding tank capacity & location (holding capacity includes double bottom tanks)	
Graywater treatment (type & capacity)	
Graywater collection tank capacity & location	
Graywater holding tanks capacity & location	
Mixed graywater/treated blackwater holding tank capacity & location	
Maximum discharge flow rate per discharge port ¹ and discharge pump type	
Average discharge flow rate per discharge port ¹ and discharge pump type	
List of overboard discharge ports and location on vessel (Starboard/Port) & discharge line diameter and distance below/above waterline	
Blackwater generation per day	
Graywater generation per day	Accommodations
	Galley
	Laundry
Daily water use/individual	
Seawater usage per day	
Peak water use per hour	
Hours of peak water use	

¹ The pump(s) rate and discharge line diameter must be given to check the flow rate.

Wastewater Treatment

Please provide a description and capacity of the wastewater treatment system(s) on this vessel:

Discharges

Please provide the individual vessel rules or procedures for discharging wastewater.

Wastewater Samples To Be Analyzed For Conventional Pollutants At Least Twice Per Season

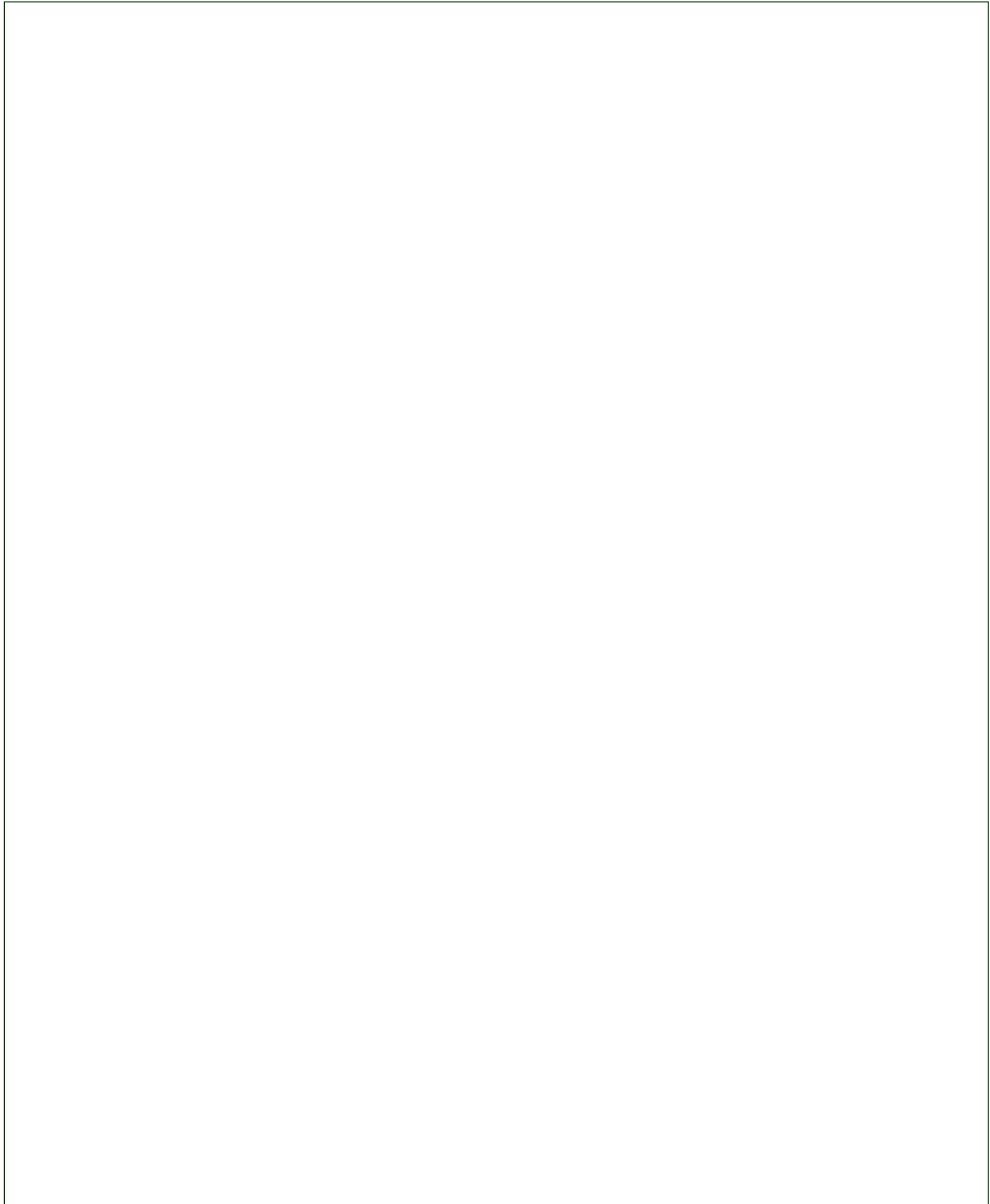
Please describe the vessel's sample port location(s), where the sampling should occur (in port or underway) and the time of day that the sampling should take place. The owner/operator needs to explain why these selected sampling sites and times give the most representative sample. The sample selection should be adequately mixed and homogenous. All samples need to be taken from wastewater as it is discharging overboard, unless deemed impractical by ADEC.

Wastewater Samples To Be Analyzed For Priority Pollutants Once Per Season

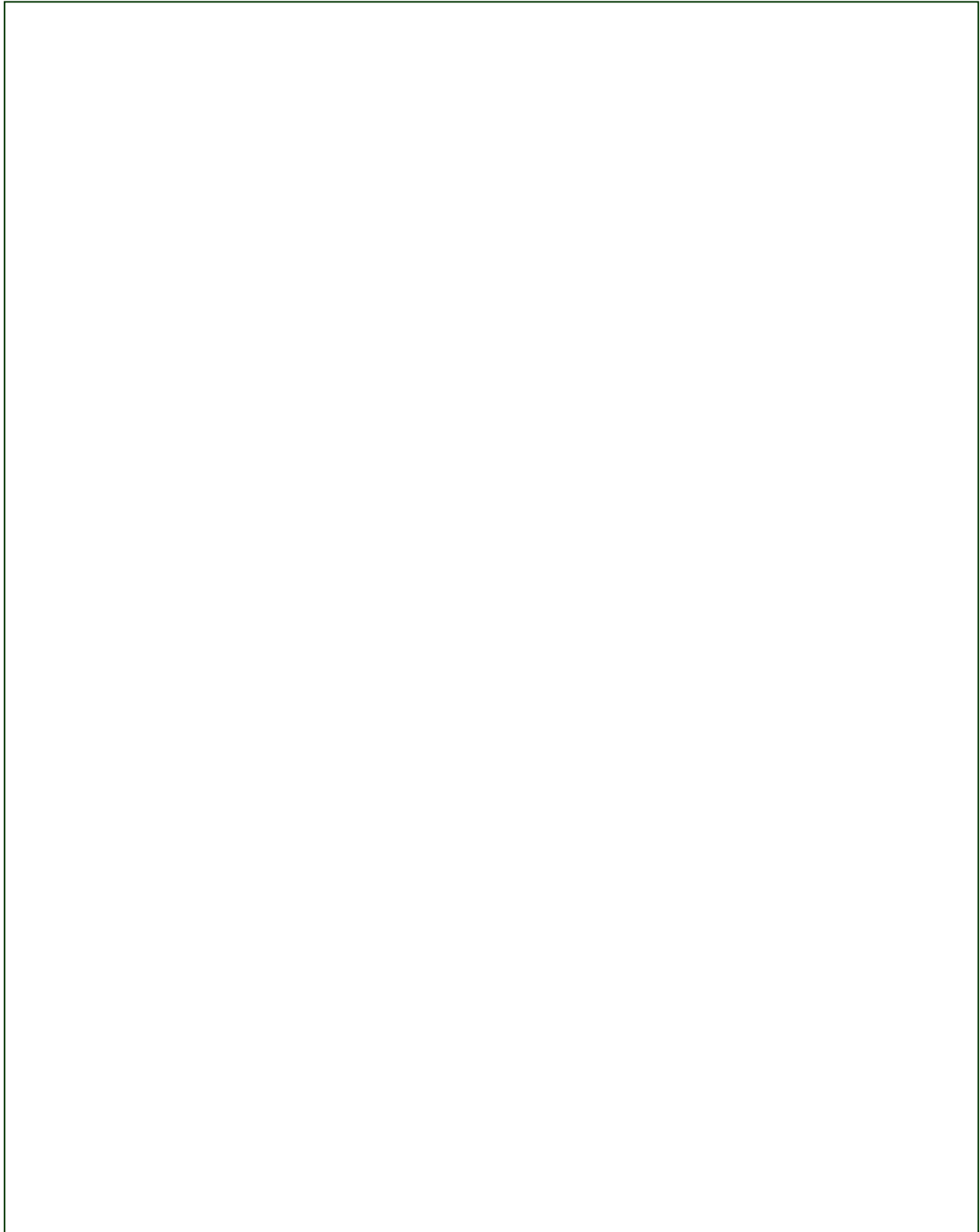
See description for conventional pollutants above.

Description of the standards the owner or operator will use to determine a deviation from the plan.

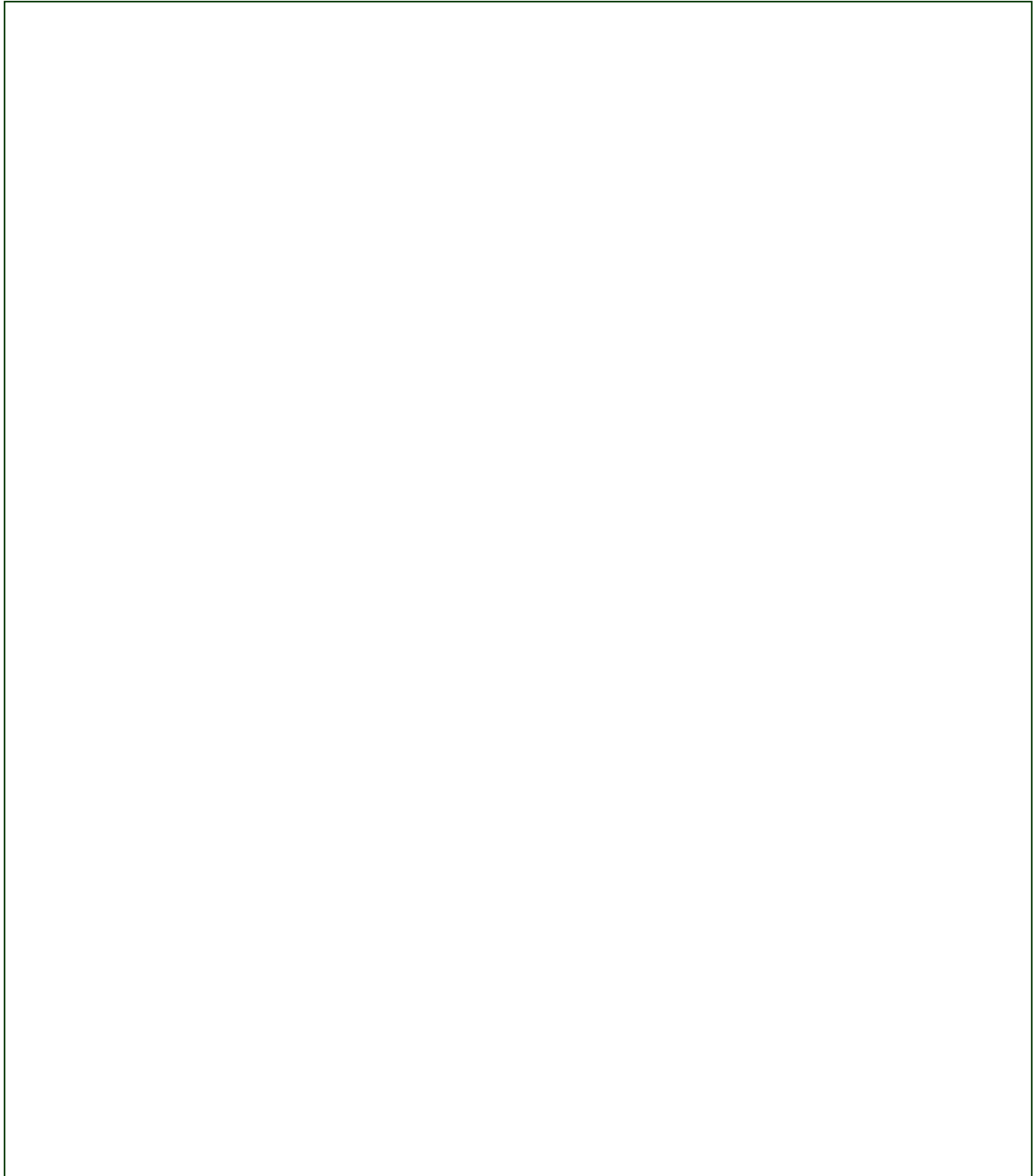
Attach sketch of vessel with treatment system, tanks, discharge pumps, discharge lines, sampling locations, and overboard ports.



Attach sketch of vessel with treatment system, tanks, discharge pumps, discharge lines, sampling locations, and overboard ports.



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Regulated Conventional Pollutants

Wastewater	Sample Type	Parameters ²	Bottles (preserved with)	Sample Location	Time & Dates Of ALL Appropriate Sample**
Graywater (GW) AND Blackwater (BW)	Grab	BOD, TSS, pH*, EC Alkalinity	1 liter HDPE		
		Chlorine Residual*	From BOD, ASAP in field		
		COD, NH3, N2NO3 Total Phosphorus	250 ml HDPE (H ₂ SO ₄)		
		TKN	500 ml HDPE (H ₂ SO ₄)		
		Total Organic Carbon	2 40-ml VOC vials (H ₂ SO ₄)		
		Settleable Solids	1 liter HDPE		
		Oil and grease	1 liter glass (H ₂ SO ₄)		
		Fecal Coliforms	100 ml sterile plastic (Sodium Thiosulfate)		

* pH, temperature, free and total chlorine residuals will be field tested by the sampler while on the ship

** Dates of sampling can be submitted separately by an operator or sampling contractor.

Priority Pollutants

Wastewater	Sample Type	Parameters ³	Bottles (preserved with)	Sample Location	Time & Dates Of ALL Appropriate Sample
Graywater (GW) AND Blackwater (BW)	Grab	BNA	1 L amber (unpreserved)		
		VOCs	40 mL VOA x2 (HCl)		
		Total Rec. Metals	500 mL poly (HNO ₃)		
		Dissolved Metals	500 mL poly (unpreserved)		

² Parameters are finalized in the most recent QAPP (Quality Assurance/Quality Control Plan).

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