

2004 Hazardous Waste Offloading and Generated in Alaska

OFFLOADING

As part of the plan required under AS 46.03.475(e)(2), Commercial Passenger Vessels operating in the State of Alaska are required to submit a hazardous waste and hazardous substance offloading plan to the Department of Environmental Conservation (DEC) for each year of operation within the state. This plan must describe the vessels policies and procedures for offloading hazardous waste within Alaska.

Most commercial passenger vessels **do not** offload hazardous waste in Alaska and do not have to submit a plan. However all vessels have to fulfill requirements required under AS 46.03.475(d) by providing a copy of hazardous waste manifests submitted to Federal or Provincial governments to show disposal of hazardous wastes GENERATED in state waters.

AS 46.03.826 defines hazardous substance as; (1) an element or compound which, when it enters into the atmosphere or in or upon the water or surface or subsurface land of the state, presents an imminent and substantial danger to the public health or welfare, including but not limited to fish, animals, vegetation, or any part of the natural habitat in which they are found; (2) oil; or (3) a substance defined as a hazardous substance under 42 U.S.C. 9601(14)¹;

MANIFESTS FOR HAZARDOUS WASTE GENERATED IN ALASKA

Large Ships

The following table (Table 1) provides the actual volumes of hazardous waste GENERATED in Alaska and offloaded in Canada, Washington and California during the 2004 season.

Small Ships

Small ships do not have dry-cleaning or photo processing on board. Small ships do not produce enough hazardous waste to be required by law to manifest these wastes to a Federal or Provincial government. The only hazardous waste produced by the small vessels is used oil. The quantity of hazardous waste offloaded by the small vessels is in Table 2.

¹ Please refer to the following website for more information:
[http://assembler.law.cornell.edu/uscode/search/display.html?terms=9601%20\(14\)&url=/uscode/html/uscode42/usc_sec_42_00009601----000-.html](http://assembler.law.cornell.edu/uscode/search/display.html?terms=9601%20(14)&url=/uscode/html/uscode42/usc_sec_42_00009601----000-.html)

Table 1: 2004 Large Ships Hazardous Waste or Substances Generated in Alaska but offloaded in Canada, Washington or California

	Vessel	2004 Hazardous Waste Offloads Outside of Alaska (Required Information)								
		Medical	Photo	Paint	Oil	Dry Cleaning	Other (Solid)	Other (Liquid)	Incinerator Ash	Wastewater
Princess Cruise	Dawn Princess	1,190 L	6,034 L	1,704 L	310,790 L	285 L	20 Kg	3,743 L	--	--
	Island Princess	170 L	3,328 L	1,572 L	187,892 L	39 L	--	2,282 L	--	--
	Regal Princess	62 Kg	2,996 L	100 L	357,288 L	145 L	749 Kg	1,584 L	--	--
	Sun Princess	1,020 L	5,034 L	2,411 L	363,518 L	1,205 L	117 Kg	6,284 L	--	--
	Coral Princess	1,020 L	7,538 L	624 L	451,432 L	308 L	--	2,863 L	--	--
	Diamond Princess	793 L	6,018 Kg	213 Kg	168,831 Kg	297 Kg	5,522 Kg	1,250 L	108,860 Kg	37,000 L
	Sapphire Princess	142 L	7,598 Kg	1,111 Kg	128,188 L	408 Kg	10,153 Kg	--	58,210 Kg	--
Holland America	Amsterdam	134 Kg	4,782 L	711 Kg	36,392 L	185 L	711 Kg	5,519 L	--	--
	Oosterdam	137 Kg	3,076 L	252 L	80,784 L	149 L	880 Kg	20,170 L	--	610,630 L
	Volendam	1,190 L	9,809	560 L	431,084 L	60 L	420 Kg	1,646 L	--	--
	Zaandam	4,080 L	4,101 L	1,943 L	304,720 L	415 L	8 Kg	1,849 L	--	--
	Ryndam	510 L	5,170	1,041 L	140,086 L	594 L	16 Kg	1,364 L	--	--
	Statendam	1,930 L	5,258 L	816 L	407,705 L	550 L	85 Kg	1,563 L	--	--
	Veendam	1,525 L	4,643 L	410 L	267,485 L	120 L	240 Kg	754 L	--	--
Royal Caribbean Cruise	Vision of the Seas	170 L	4,820 L	466 L	308,624 L	322 L	440 Kg	29,512 L	1,830 Kg	188,932 L
	Radiance of the Seas	2,975 L	6,251 L	6,988 L	70,704 L	208 L	1,332 Kg	4,530 L	3,583 Kg	245,000 L
	Serenade of the Seas	1,105 L	4,784 L	416 L	84,688 L	208 L	--	--	--	--
Celebrity Cruise	Summit	not reported	4,710 L	1,040 L	85,900 L	832 L	2,718 Kg	23,706 L	6,237 Kg	894,473 *L
	Infinity	not reported	4,368 L	1,040 L	48,432 L	416 L	3,741 Kg	8,403 L	4,990 Kg	--
	Mercury	220 Kg	245 L	832 L	184,079 L	416 L	2,582 Kg	-- L	-- Kg	--
Norwegian Cruise Lines	Norwegian Sun	454 L	6,754 L	2,308 L	269,152 L	185 L	6 Kg	35 L	--	--
	Norwegian Spirit	86 Kg	2,290 L	3,347 L	363,555 L	1,523 L	1,322 Kg	7,240 L	--	--
	Norwegian Star	103 Kg	4,405 L	4,167 L	218,742 L	485 L	2,325 Kg	4,949 L	--	420 L
	Carnival Spirit	2,958 L	5,152 L	596 L	535,592 L	-- L	--	201 L	--	--
	Seven Seas Mariner	--	479 L	539 Kg	72,514 Kg	118 L	393 Kg	--	--	--
	Silver Shadow	--	--	3,581 L	44,863 L	40 L	225 Kg	4,030 L	4,702 Kg	--

*The Summit offloaded an additional 514,978 liters of wastewater in Seward, Alaska.

Large Ships

Princess Cruise Lines

All ships submitted info pertaining to each major waste stream in summary table. Only the Sapphire and the Diamond submitted info on incinerator ash and blackwater.

All of the waste streams were off loaded out of state.

The Island Princess has a volume of dry cleaning waste that is considerably lower than any of the other Princess ships, and this is due to the shipboard practices of reusing the old liquid waste instead of adding new fluids.

Holland America Lines

All ships submitted info pertaining to each major waste stream. Volendam had a slightly smaller amount of dry cleaning waste compared to the rest. It has been explained by Holland America that a vessel this size normally generates 60 liters per quarter during the summer months in Alaska. The dry cleaning system on the Volendam was out of order during part of the summer season accounting for the reduced offloads of dry cleaning waste. All waste streams were offloaded out of state (Canada).

Celebrity

All ships submitted info for each major waste stream except for the Summit and the Infinity who did not report any medical waste.

Royal Caribbean Cruise Lines

The Vision and the Radiance reported info for every major waste stream. The Serenade of the Seas did not report dry cleaning waste or any other misc. waste. All offloads were out of state (Canada).

Silver Shadow

The Silver Shadow submitted info for each major waste stream except medical and photo waste. ADEC has been informed that this ship uses digital cameras which eliminates photo waste.

Norwegian

All ships submitted info pertaining to each major waste stream in summary table. All offloads occurred out of state.

Carnival Spirit

The Carnival Spirit submitted info for each major waste stream except dry cleaning, but that service is not offered aboard ship. All offloads occurred out of state.

Table 2: 2004 Hazardous Waste Offloads for Small Ships

2004 Small Ship Hazardous Waste Offloads in Alaska			
	Vessel	Product	Quantity Units
Glacier Bay Cruise	Wilderness Adventurer & Discoverer	Used lube oil	500 gal
	Spirit of Alaska	Motor Oil-used	500 gal
Cruise West	Spirit of Discovery	Motor Oil-used	750 gal
	Spirit of 98	Motor Oil-used	800 gal
	Spirit of Columbia	Motor Oil-used	350 gal
	Spirit of Endeavor	Motor Oil-used	800 gal
	Spirit of Oceanus	Motor Oil-used	--
Alaska Marine Highway	All Ferries	Waste Oil	55000 gal

Small Ships

Glacier Bay

The Wilderness Discoverer and Adventurer estimated an offload of 500 gal of used lube oil; this number is a combined estimate for both ships. Information was obtained from the Operators submitted plans at the beginning of the season.

Cruise West

Cruise West submitted estimates for the offload of used oil for all ships except the Spirit of Oceanus; they stated Oceanus would not offload any used oil in Alaska.

Alaska Marine Highway

Alaska Marine Highway reported a combined total for all state ferries for the offload of waste oil in Alaska.

Lindblad Expeditions

Lindblad reported that Sea Lion and Sea Bird did not offload hazardous waste in Alaska during the 2004 season.

New World Ship Management

New World Ship Management reported that the Yorktown Clipper and Clipper Odyssey did not offload hazardous waste in Alaska during the 2004 season.

American West Steamboat Company

American West Steamboat Company reported that the Empress of the North did not offload hazardous waste in Alaska during the 2004 season.