

## 2007 Non-hazardous Waste (Garbage) Offloading in Alaska

Alaska Statute (AS) 46.03.475(e)(1) requires owners/operators of commercial passenger vessels<sup>1</sup> to submit a nonhazardous solid waste offloading and disposal (garbage) plan to the Department of Environmental Conservation (ADEC) prior to operating in Alaska's marine waters. As established by regulation (18 AAC 69.035), the garbage plan must describe the policies and procedures for offloading non-hazardous solid waste in Alaska or disposing such waste into Alaska marine waters. The plan, which is due annually by March 1, must also provide estimates of the amount of garbage that will be offloaded and disposed in Alaska's waters. After the season is completed, any deviations from the plan must be submitted to the ADEC by November 15 of each year. Some owners/operators also submit optional information on garbage offloaded or discharged outside Alaska (i.e., in Canada, Washington or California). Tables 1 and 2 summarize garbage offloading data submitted to the ADEC during the 2007 season.

**Table 1: Large Ship 2007 Nonhazardous waste (Garbage) offload summary**

	2007 Large Ship Offloads in Alaska (Required Information)*							Offloads Outside of Alaska (Information not Required)	
		Garbage		Recyclables					
Operator	Vessel	Wet/Dry Garbage	Plastic	Cardboard	Glass	Paper	Misc.	Wet/Dry Garbage	Recycled
Princess Cruise	Coral Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	--	--
	Dawn Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Diamond Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Golden Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Island Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Pacific Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Sapphire Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Sun Princess	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
Royal Caribbean	Radiance of the Seas	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Serenade of the Seas	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Vision of the Seas	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
Celebrity Cruise	Infinity	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Mercury	6 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	10 m <sup>3</sup>		
	Summit	786 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	60 m <sup>3</sup>		
Norwegian Cruise	Norwegian Pearl	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Norwegian Star	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Norwegian Sun	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
Carnival Cruise	Carnival Spirit	45,550 Kg	1539 Kg	204 Kg	19306 Kg	Kg	12643 Kg		
Radisson	Seven Seas Mariner	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	200 m <sup>3</sup>	1,195 m <sup>3</sup>
Japan Cruise	Pacific Venus	20 m <sup>3</sup>	35 m <sup>3</sup>	0 m <sup>3</sup>	10 m <sup>3</sup>	35 m <sup>3</sup>	8 m <sup>3</sup>		
Japan Grace	Topaz	70 m <sup>3</sup>	10 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
NYK	Asuka	16 m <sup>3</sup>	16 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	28 m <sup>3</sup>		
Holland America	Amsterdam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Noordam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Oosterdam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Ryndam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Statendam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Volendam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
	Zaandam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
Zuiderdam	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>			

1m<sup>3</sup> is approximately 1.31 cubic yards. 1 Kg is approximately 2.205 pounds  
Garbage offloads submitted as either cubic meters or kilograms

<sup>1</sup> As defined in Alaska Statute (AS) 46.03.490(2)

## **Large ship offloads**

### **Holland America Line**

Holland America indicated in their pre-season plan that their ships would not offload garbage in Alaska, which was confirmed in their post season deviation report.

### **Royal Caribbean International**

Royal Caribbean indicated in their preseason plan that their ships would not offload garbage in Alaska. Their post season deviation report confirmed that garbage was not offloaded in Alaska.

### **Celebrity Cruise Line**

Celebrity indicated in their preseason plan that their ships would not offload garbage in Alaska. Their post season deviation report confirmed that garbage was not offloaded in Alaska.

### **Norwegian Cruise Line**

Norwegian indicated in its preseason plan that their ships would not offload garbage in Alaska, which was confirmed by their post season deviation report.

### **Princess Cruise Lines**

Princess Cruise Lines indicated in their pre-season plan that their ships would not offload garbage in Alaska, which was confirmed in their post season deviation report.

### **Cruise lines companies operating only one vessel during the 2007 season**

Radisson and Carnival Cruise Lines each operated only one ship in Alaska, both ships submitted summaries of garbage offloads. The Carnival Spirit split the amount of garbage between Juneau and Whittier. The amounts were reported in pounds and converted to kilograms. The Radisson Seven Seas Mariner provided reports of garbage offloaded outside of Alaska. The Topaz, Nippon Maru, Asuka, and Pacific Venus all provided information on discharges.

## **Table 2: Small Ship 2007 Nonhazardous waste (Garbage) offload summary**

	2007 Small Ship Offloads in Alaska (Required Information)							Offloads Outside of Alaska (Information not Required)	
		Garbage	Recyclables						
Operator	Vessel	Wet/Dry Garbage	Plastic	Cardboard	Glass	Paper	Misc	Wet/Dry Garbage	Recycled
Cruise West	Spirit of 98	227 m <sup>3</sup>	Kg	425 Kg	1130 Kg	Kg	Kg		
	Spirit of Alaska	119 m <sup>3</sup>	Kg	650 Kg	1223 Kg	Kg	Kg		
	Spirit of Columbia	119 m <sup>3</sup>	Kg	184 Kg	408 Kg	Kg	Kg		
	Spirit of Discovery	159 m <sup>3</sup>	Kg	328 Kg	692 Kg	Kg	Kg		
	Spirit of Endeavor	229 m <sup>3</sup>	Kg	516 Kg	677 Kg	Kg	Kg		
	Spirit of Oceanus	119 m <sup>3</sup>	Kg	732 Kg	406 Kg	Kg	Kg		
	Yorktown Clipper	317 m <sup>3</sup>	Kg	571 Kg	873 Kg	Kg	Kg		
Lindblad Expeditions	Sea Bird	90 m <sup>3</sup>	12 m <sup>3</sup>	29 m <sup>3</sup>	17 m <sup>3</sup>	m <sup>3</sup>	10 m <sup>3</sup>		
	Sea Lion	76 m <sup>3</sup>	4 m <sup>3</sup>	30 m <sup>3</sup>	12 m <sup>3</sup>	m <sup>3</sup>	3 m <sup>3</sup>		
Hapag-Lloyd Cruises	Hanseatic	20 m <sup>3</sup>	20 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>	0 m <sup>3</sup>		
New World Ship	Clipper Odyssey	39 m <sup>3</sup>	10 m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	8 m <sup>3</sup>		
Alaska Marine Highway	Alaska Marine Highway Ferries	2,805 m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>	m <sup>3</sup>		
Majestic America Line	Contessa	153 m <sup>3</sup>	Kg	195 Kg	127 Kg	Kg	Kg		
	Empress of the North	557 m <sup>3</sup>	Kg	712 Kg	463 Kg	Kg	Kg		

### Small ship offloads

#### All Lines

The garbage information in Table 2 for vessels operated by Lindblad Expeditions, Cruise West, Hapag-Lloyd Cruises, New World Ship Management, and American West Steamboat Co are estimates taken from each operator's preseason plans and verified from their deviation reports. Alaska Marine Highway System submitted garbage logs. Garbage log submittals are not required under state statute but we appreciate these vessels' detailed submittal.

**Table 3: Amount of solid waste offloaded by cruise ships and state ferries in Alaska ports in 2007**

Port	Amount of Garbage Offloaded
Juneau	2,067 m <sup>3</sup>
Ketchikan	1,398 m <sup>3</sup>
Cordova	11 m <sup>3</sup>
Homer	3 m <sup>3</sup>
Kodiak	129 m <sup>3</sup>
Nome	16 m <sup>3</sup>
Wrangell	19 m <sup>3</sup>
Dutch Harbor	21 m <sup>3</sup>
Seward	142 m <sup>3</sup>
Unspecified*	2,185 m <sup>3</sup>
Whittier	121 m <sup>3</sup>
<b>Total</b>	<b>6,112 m<sup>3</sup></b>

\* Ships are not required by regulation to report the amount disposed of at EACH port but the total needs to be included in their garbage plan. ADEC assumes the majority of the waste was offloaded in Juneau since Juneau is a frequent embarking/disembarking port.

Table 3 shows the amount in cubic meters<sup>2</sup> of garbage and recyclables offloaded by commercial passenger vessels and state ferries in Alaska ports.

<sup>2</sup> A metric cubic meter is approximately 1.31 cubic yards.

## International agreements translate to Federal Law

Ships offload garbage according to the International Convention for the Prevention of Pollution from ships at sea treaty signed in 1973 and amended in 1978 (MARPOL 73/78)<sup>3</sup>. Nations that signed the treaty promulgated their own laws and regulations to enforce the treaty provisions. In the United States, US Federal Law 33 U.S.C. §§ 1901 and regulations 33 CFR 151.66-151.73 implementing MARPOL 73/78 prohibit the disposal of plastics or any garbage containing plastics into U.S. navigable waters, and allow disposal of non-plastic garbage into navigable waters as described in the placard<sup>4</sup> below.

# Save Our Seas

The discharge of all garbage into the ocean or navigable waters of the United States is prohibited under MARPOL 73/78. A person who knowingly violates MARPOL 73/78 commits a Class D felony punishable by imprisonment up to six years and a fine up to \$250,000 for an individual, or up to \$500,000 for an organization.



We support this law. Please do your part while on board.  
—YOUR CAPTAIN

Item 715021

<p><b>LAKES, RIVERS, BAYS, SOUNDS, and 0-3 MILES FROM SHORE</b></p>	<p><b>ILLEGAL TO DUMP</b></p>	<p>Plastic Rags Glass</p>	<p>Food Metal Crockery</p>	<p>Dunnage Lining &amp; Packing Materials That Float</p>
<p><b>3-12 MILES</b></p>	<p><b>ILLEGAL TO DUMP</b></p>	<p>Plastic Rags Glass</p>	<p>Food* Metal* Crockery*</p>	<p>Dunnage Lining &amp; Packing Materials That Float</p>
<p><b>12-25 MILES</b></p>	<p><b>ILLEGAL TO DUMP</b></p>	<p>Plastic</p>	<p>Dunnage Lining &amp; Packing Materials That Float</p>	
<p><b>25 MILES OR MORE</b></p>	<p><b>ILLEGAL TO DUMP</b></p>	<p>Plastic</p>		<p>*unless ground smaller than one inch</p>

**PLACARDS ARE REQUIRED BY LAW for any boat 26 feet or more in length.**

<sup>3</sup> More information can be found on the federal Environmental Protection Agency website, <http://www.epa.gov/OWOW/OCPCD/marpol.html> or at <http://www.imo.org/home.asp>

<sup>4</sup> 33 CFR 151.59 requires the owners of vessels 26' in length and above to place this placard on board the vessel.