

2017 Large¹ Commercial Passenger Vessel Discharge Status and Wastewater Treatment

	Vessel Operator	Vessel Name	Passenger Capacity ²	Voyages	Annual Passenger capacity ⁴	Crew Capacity	Wastewater Treatment System ⁶	Permitted to discharge in Alaska in 2017 ³		Skagway Docks discharge permitted?		
								Underway	Stationary	Railroad	Ore	Broadway
1	Carnival Cruise Lines	<i>Carnival Legend</i>	2124	19	40,356	Unknown	Triton Type MSTP9	No	No	No	No	No
2	Carnival Cruise Lines	<i>Carnival Miracle</i>	2124	1	2,124	Unknown	Unknown	No	No	No	No	No
3	Celebrity Cruises	<i>Celebrity Infinity</i>	2170	16	34,720	Unknown	Zenon Zeeweed	No	No	No	No	No
4	Celebrity Cruises	<i>Celebrity Millennium</i>	2449	16	39,184	Unknown	Hydroxyl CB-100 MSD	No	No	No	No	No
5	Celebrity Cruises	<i>Celebrity Solstice</i>	3148	18	56,664	Unknown	Kruger WABAG MSD	No	No	No	No	No
6	Crystal	<i>Crystal Serenity</i>	1050	8	8,400	Unknown	Unknown	No	No	No	No	No
7	Disney	<i>Disney Wonder</i>	2834	16	45,344	920	Hamworthy MBR AWTS	Yes	No	No	No	No
8	Hanseatic	<i>Europa</i>	408	1	408	Unknown	Unknown	No	No	No	No	No
9	Holland America	<i>Amsterdam</i>	1380	10	13,800	Unknown	Hamworthy Super Trident MSD	No	No	No	No	No
10	Holland America	<i>Eurodam</i>	2106	22	46,332	929	2 Hamworthy MBR AWTS	Yes	No	No	No	No
11	Holland America	<i>Nieuw Amsterdam</i>	2106	22	46,332	929	2 Hamworthy MBR AWTS	Yes	No	No	No	No
12	Holland America	<i>Noordam</i>	1916	21	40,236	Unknown	Rochem UF MSD	No	No	No	No	No
13	Holland America	<i>Oosterdam</i>	1916	21	40,236	Unknown	Rochem Bio-Filt 16/19 Ultra Filt.	No	No	No	No	No
14	Holland America	<i>Volendam</i>	1432	22	31,504	647	Zenon AWTS	Yes	Yes	Yes	Yes	Yes
15	Holland America	<i>Zaandam</i>	1432	19	27,208	647	Zenon AWTS	Yes	Yes	Yes	Yes	Yes
16	Norwegian Cruise Line	<i>Norwegian Jewel</i>	2376	21	49,896	1100	Scanship Type II AWTS	Yes	Yes	Yes	Yes	Yes
17	Norwegian Cruise Line	<i>Norwegian Pearl</i>	2394	21	50,274	1100	Scanship Type II AWTS	Yes	Yes	Yes	Yes	Yes
18	Norwegian Cruise Line	<i>Norwegian Sun</i>	1936	19	36,784	950	Scanship Type II AWTS	Yes	Yes	Yes	Yes	Yes
19	Oceania	<i>Regatta</i>	777	16	12,432	373	Triton Water MBR AWTS	Yes	No	No	No	No
20	Ponant	<i>Le Boreal</i>	264	1	264	136	Rochem Bio-filt AWTS	No	No	No	No	No
21	Princess Cruise Line	<i>Coral Princess</i>	1986	20	39,720	900	Hamworthy MBR AWTS	Yes	No	No	No	No
22	Princess Cruise Line	<i>Emerald Princess</i>	3084	19	58,596	1127	DeNora Ozone AWWTP	Yes	Yes	No	No	No
23	Princess Cruise Line	<i>Golden Princess</i>	2636	1	2,636	1060	Hamworthy MBR AWTS	Yes	Yes - Graywater only	Yes	No	No
24	Princess Cruise Line	<i>Grand Princess</i>	2606	14	36,484	1100	Hamworthy MBR 16 AWTS	Yes	Yes - Graywater only	No	No	No
25	Princess Cruise Line	<i>Island Princess</i>	1974	19	37,506	900	Hamworthy MBR AWTS	Yes	No	No	No	No
26	Princess Cruise Line	<i>Ruby Princess</i>	3084	21	64,764	1201	Hamworthy MBR 16 AWTS	Yes	Yes - Graywater only	No	No	No
27	Princess Cruise Line	<i>Star Princess</i>	2600	20	52,000	1150	Hamworthy MBR AWTS	Yes	Yes - Graywater only	No	No	No
28	Regent Seven Seas	<i>Seven Seas Mariner</i>	769	16	12,304	431	Hamworthy MBR 240C AWTS	Yes	No	No	No	No
29	Regent Seven Seas	<i>Seven Seas Navigator</i>	544	1	544	350	Scanship AWTS	Yes	No	No	No	No
30	ResidenSea	<i>The World</i>	450	1	450	260	Scanship FA25M (two)	No	No	No	No	No
31	Royal Caribbean Cruises	<i>Explorer of the Seas</i>	4000	17	68,000	Unknown	Two Scanship Mussel FA45	No	No	No	No	No
32	Royal Caribbean Cruises	<i>Radiance of the Seas</i>	2502	16	40,032	Unknown	Hamann MSD	No	No	No	No	No
33	Seabourn	<i>Sojourn</i>	450	11	4,950	338	2 Hamworthy MBR AWTS	Yes	Yes	Yes	Yes	No
34	Silver Seas	<i>Silver Shadow</i>	382	18	6,876	305	Bio Epure/Marisan AWTS	Yes	No	No	No	No
			Totals	504	1,047,360							

MBR is a Membrane Bioreactor

Vessels highlighted in gray in the above table did not discharge wastewater in Alaskan waters in 2017.

¹A large vessel has overnight accommodations for 250 or more passengers.²Capacity is the number of lower berths and is calculated from Registration, Vessel Specific Sampling Plan, or Notice of Intent. Actual number of passenger aboard varies.³Alaska water includes the Alexander Archipelago and extends 3 miles from the coastline. Only vessels that discharge into Alaska waters are required to sample for wastewater.⁴Assumes full capacity on every voyage⁵Discharge at Broadway Dock allowed unless another ship is discharging at the Ore Dock⁶Nondischarging vessels are not required to provide crew or treatment system information.