

2012 Large¹ Commercial Passenger Vessel Discharge Status and Wastewater Treatment

Vessel Operator	Vessel Name	Passenger Capacity	Voyages	Total Passengers ⁵	Crew Capacity	Total Persons on Board ²	Blackwater (BW) Treatment System Manufacturer	Graywater (GW) Treatment Manufacturer if different	Permitted to discharge in Alaska in 2012 ³		Alaska DEC Approval Discharge Type
									BW	GW	
1 Carnival Cruise Lines	<i>Carnival Spirit</i>	2400	20	48,000	934	3334	Rochem Bio-filtration	Rochem	No	Yes ⁴	Continuous
2 Celebrity Cruises	<i>Century</i>	1812	19	34,428	Unknown	1812+crew	Unknown	Unknown	No	No	No
3 Celebrity Cruises	<i>Infinity</i>	2449	19	46,531	930	3379	Zenon	Unknown	No	No	No
4 Celebrity Cruises	<i>Millennium</i>	2449	15	36,735	1001	3450	Hydroxyl Cleansea	Unknown	No	No	No
5 Crystal Cruises	<i>Serenity</i>	1140	1	1,140	Unknown	1140+crew	Unknown	Unknown	No	No	No
6 Disney	<i>Wonder</i>	2834	16	45,344	920	3754	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
7 Holland America	<i>Amsterdam</i>	1380	11	15,180	647	2027	Unknown	Unknown	No	No	No
8 Holland America	<i>Oosterdam</i>	1916	21	40,236	800	2716	Unknown	Unknown	No	No	No
9 Holland America	<i>Statendam</i>	1260	18	22,680	588	1848	Zenon	Unknown	Yes	Yes	Continuous
10 Holland America	<i>Volendam</i>	1432	21	30,072	647	2079	Zenon	Unknown	Yes	Yes	Continuous
11 Holland America	<i>Westerdam</i>	1916	20	38,320	Unknown	1916+crew	Rochem Bio-filtration	Ovivo	No	No	No
12 Holland America	<i>Zaandam</i>	1432	21	30,072	647	2079	Zenon	Unknown	Yes	Yes	Continuous
13 Holland America	<i>Zuiderdam</i>	1916	20	38,320	Unknown	1916+crew	Rochem Bio-filtration	Unknown	No	No	No
14 Norwegian Cruise Lines	<i>Norwegian Jewel</i>	2376	18	42,768	1100	3476	Scanship	Unknown	Yes	Yes	Underway
15 Norwegian Cruise Lines	<i>Norwegian Pearl</i>	2394	20	47,880	1100	3494	Scanship	Unknown	Yes	Yes	Underway
16 NYK	<i>Asuka II</i>	872	1	872	Unknown	872+Crew	Unknown	Unknown	No	No	No
17 Princess Cruise Line	<i>Coral Princess</i>	1974	18	35,532	900	2800	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
18 Princess Cruise Line	<i>Dawn Princess</i>	1998	1	1,998	847	2845	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
19 Princess Cruise Line	<i>Diamond Princess</i>	2678	20	53,560	1238	3916	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
20 Princess Cruise Line	<i>Golden Princess</i>	2598	18	46,764	1060	3658	Hamworthy Bioreactor	Unknown	Yes	Yes	Continuous (GW)/Underway (BW and GW)
21 Princess Cruise Line	<i>Island Princess</i>	1974	19	37,506	900	2874	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
22 Princess Cruise Line	<i>Sapphire Princess</i>	2678	19	50,882	1238	3916	Hamworthy Bioreactor	Unknown	Yes	Yes	Continuous (GW)/Underway (BW and GW)
23 Princess Cruise Line	<i>Sea Princess</i>	2016	12	24,192	854	2870	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
24 Princess Cruise Line	<i>Star Princess</i>	2598	19	49,362	1060	3658	Hamworthy Bioreactor	Unknown	Yes	Yes	Underway
25 Prestige Cruises	<i>Seven Seas Navigator</i>	540	13	7,020	350	890	Scanship	Unknown	Yes	Yes	Underway
26 ResidenSea	<i>The World</i> ⁶	240	1	240	260	500	Scanship	Unknown	No	No	No
27 Royal Caribbean Cruises	<i>Radiance of the Seas</i>	2501	19	47,519	859	3360	Unknown	Unknown	No	No	No
28 Royal Caribbean Cruises	<i>Rhapsody of the Seas</i>	2435	18	43,830	Unknown	2435+crew	Unknown	Unknown	No	No	No
29 Silver Seas	<i>Silver Shadow</i>	382	14	5,348	305	687	Bio Epure/Marisan	Unknown	Yes	Yes	Continuous
Totals			452	922,331							

Vessels highlighted in Gray in the above table are not registered to discharge wastewater in Alaskan waters during the 2012 season.

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 dependent upon sales.

³Alaska water includes the Alexander Archipelago and extends 3 miles from the coastline. Only vessels that discharge into Alaska waters are required to meet wastewater sampling and reporting requirements.

⁴Galley graywater not discharged

⁵Assumes full capacity on every voyage

⁶The World is a large ship with a low density of passengers. It is not a large cruise ship under the State of Alaska definition with regard to number of berths.