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Determining the Type of Sewage Collection/Disposal Required for Vessels

	Recreational Boats, Houseboats	Live-a-boards (stationary)	Boathouses, Combos	Commercial Vessels
Operating in Federal Navigable Waters	MSD Type I, II or III. Type I or II, discharge allowed.	N/A	N/A	MSD Type I, II or III. Type I or II, discharge allowed.
Operating in Sole State Waters	MSD Type III. No overboard discharge allowed.	N/A	N/A	MSD Type III. No overboard discharge allowed.
Moored in State Waters	MSD Type III. No overboard discharge allowed.	MSD Type III, upland restrooms, or dockside connection. No overboard discharge allowed.	Dockside sewage connection	MSD Type III or dockside sewage connection. No overboard discharge allowed.

NOTE: The overboard discharge of sewage from a Type III MSD to Federal Navigable Waters or to Waters of the State is ALWAYS PROHIBITED.

NOTE: Federal Navigable Waters are within 3 miles of the shore.

Estimating the Appropriate Number of Boat Waste Collection Devices for your Marina

Instructions

Use Step 1 to estimate the number of boats with portable toilets and Type III holding tanks present at your marina. Then use Step 2 with information from Step 1 to determine the number of boat pumpouts or portable toilet dump stations appropriate for your marina.

Step 1

- A. *If the number and type of boats with Type III MSD holding tanks and portable toilets is known, skip to Step 2.* Determine the total number of boats by overall length. Include unoccupied slips by length of slip. Include all slips, annual and seasonal boats, weekly and transient (guest) boats and houseboat units. Count live-a-boards separately. Use the boat length categories provided in the following example to keep track of your count.

Example: The following table lists the number of boats in each length category and their type moored at Marina X. These numbers will be used in Step 1B.

Table 1: Number of Boats at Marina X

Boat Length Category	# of Annual, Seasonal and Transient Boats	# of Live-a-board Boats
Less than 16 ft.	50	0
16 to 26 ft.	100	10
26 to 40 ft.	100	10
Over 40 ft.	20	10

- B. To estimate the number of boats with portable toilets and Type III holding tanks in your marina, use the following percentages. An example also follows.

Table 2: % of Portable Toilets and Type III Holding Tanks Based Boat Counts

Boat Length Category	Portable Toilets	Type III Holding Tanks
Less than 16 feet	0%	0%
16 to 26 ft.	25%	0%
26 to 40 ft.	0%	75%
Over 40 ft.	0%	100%

Example: Using the numbers provided from Marina X in Step 1A, one should expect to find around 25 boats with portable toilets for annual, seasonal and transient boats (see the following table). Do these same calculations for estimating the number of annual, seasonal and transient boats with Type III holding tanks and repeat the calculations for live-a-boards.

Table 3: Number of Boats at Marina X with Portable Toilets

Boat Length Category	# Boats × % Portable Toilets ÷ 100 = # of Boats w/Portable Toilets				
Less than 16 feet	50	×	0	÷ 100	= 0
16 to 26 ft.	100	×	25	÷ 100	= 25
26 to 40 ft.	100	×	0	÷ 100	= 0
Over 40 ft.	20	×	0	÷ 100	= 0
TOTAL					25

Step 2

To determine the total number of boat waste collection devices [portable toilet dump stations and pumpouts (stationary or portable)] required at your marina use your boat counts and the tables below.

A. Determine the number of devices needed for annual, seasonal and transient boats.

Note: Adjustments may be made to number of pumpouts required to account for any dockside sewage connections, mobile pumpout service, etc.

Table 4: Number of Boat Dump Stations and Pumpouts REQUIRED for Annual/Seasonal and Transient Boats

IF MARINA HAS # of Boats w/Portable Toilets (actual count or estimate from Step 1B)	THEN: # of Boat Dump Stations Required	IF MARINA HAS: # of Boats w/Type III Holding Tanks (actual count or estimate from Step 1B)	THEN: # of Boat Pumpouts Required
less than 25	None*	less than 25	None*
25 to 300	1	25 to 300	1
300 to 600	2	300 to 600	2
over 600	3 plus 1 for each 300 boats	over 600	3 plus 1 for each 300 boats

* Only applicable to marinas with small numbers of boats with Type III MSD's that jointly "share" (within 2 mile radius) a pumpout or dump stations open for public use.

Example: From Step 1, Marina X has estimated that they have 25 annual, seasonal and transient boats with portable toilets. According to Table 4, they need at least 1 boat dump station, but they still have to calculate the number of boat pumpouts needed for the annual, seasonal and transient boats, and the number of dump stations and pumpouts needed for the live-a-boards.

B. Determine the number of devices needed for live-a-board boats

Note: Adjustments may be made to number of pumpouts required to account for any dockside sewage connections, mobile pumpout service, restrooms, etc.

Table 5: Number of Boat Dump Stations and Pumpouts REQUIRED for Live-a-board Boats

IF MARINA HAS: # of Boats w/Portable Toilets (actual count or estimate from Step 1B)	THEN: # of Boat Dump Stations Required	IF MARINA HAS: # of Boats w/Type III Holding Tanks (actual count or estimate from Step 1B)	THEN: # of Boat Pumpouts Required
1 to 25	1	1 to 25	1
25 to 50	2	25 to 50	2
Over 50	3 plus 1 for each 25 boats	Over 50	3 plus 1 for each 25 boats

Add the numbers from Steps 2A and 2B for your total number of waste collection devices required at your marina.