

APPENDIX C
Data Dictionary

**Database Dictionary for the
U.S. Environmental Protection Agency
2003 No-Discharge Zone
Effectiveness Surveys for
Boater Owners/Operators and
Marina Owners/Operators
Version 3.0**

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January 21, 2004

EPA Contract No. 68-C-03-041
Work Assignment 0-03

TABLE OF CONTENTS

1.0 Introduction and Background..... 1
2.0 Data Layout..... 2
3.0 Coding Conventions..... 2

LIST OF TABLES

Table 3-1. Non-Response Codes..... 2

Attachments

- C-1 2003 NDZ Boater Owner/Operator Survey (Boater Survey)
- C-2 Database Fields by Question Number for the Boater Survey
- C-3 2003 NDZ Marina Owner/Operator Survey (Marina Survey)
- C-4 Database Fields by Question Number for the Marina Survey
- C-5 Table 5 Number of Boater and Marina Responses

1.0 INTRODUCTION AND BACKGROUND

The 2003 No-Discharge Zone Effectiveness Survey is a multi-part effort to assess the effectiveness of the implementation of the No-Discharge Zone (NDZ) provisions of the Clean Water Act. The survey includes components addressing boaters, marinas, marine sanitation device manufacturers, testing laboratories, and state environmental agencies. The survey process was approved under the Paperwork Reduction Act by the Office of Management and Budget, August 15, 2003, Approval number 2040-0254. Battelle is preparing separate documentation of the sample design and marina selection.

The marina and boater surveys were conducted August 30, 2003 through October 12, 2003. Selected marinas were telephoned and asked to participate in the survey. Of 120 marinas contacted, 34 refused or were found to be ineligible to participate. An additional 13 marinas failed to return surveys after repeated efforts. The marina survey was designed as an in-person or telephone survey. Sixteen surveys were completed in-person at the marina and 45 were completed over the telephone. Another 12 were completed by sending the form to the respondent by mail or fax and the respondent returning it. Version 3.0 of the database contains a total of 73 marina survey records received as of December 5, 2003. A copy of the marina survey is located in Attachment C-3.

The boater survey was designed as an intercept survey. Interviews were conducted on weekend days at cooperating marinas with pumpout facilities. Interviewers approached boaters and asked them if they would be willing to discuss their experiences with NDZs. If the boater agreed, the interviewer would proceed to read a paper survey to the respondent and record their answers by checking boxes or making notes on the survey. Of 1,108 boaters approached, 862 completed the survey and 228 declined to be interviewed. In addition, 12 boaters did not wish to be interviewed but offered to take a survey form from the interviewer and mail it back. Of these 12, six were returned. A copy of the boater survey is included as Attachment C-1.

For NDZs in Michigan, Wisconsin, and Richardson Bay, California, surveys were provided to selected marinas where they were to be distributed to clients for completion and return. The 90 responses mailed back from these NDZs were completed by the respondent alone and not mediated by an interviewer.

Each returned paper survey was typed into a MS Access database twice and the two entries compared. Discrepancies were investigated and resolved. Some surveys were not usable. This version of the database contains 958 records for boater surveys and 73 records for marina surveys returned as of December 5, 2003. The purpose of this database dictionary is to familiarize users with the details of the NDZ database for the marina and boater surveys. This dictionary documents the file structure and conventions of the database. The field description, type, and response codes for each boater survey question and each marina survey question are listed in Attachments C-2 and C-4 respectively.

2.0 DATA LAYOUT

The variable names, types, sources, and response codes for the boater and marina survey are provided in Attachments C-2 and C-4 respectively. All of the information from the marina surveys is contained in one table named tblMarinaSurvey. This table may be linked to identifying information about the marinas contained in tblMarinaNames. Several auxiliary tables containing coding descriptions developed for responses to selected questions are also linked to tblMarinaSurvey. These codes for selected marina survey questions are provided in Attachment C-4 for the applicable questions.

All of the information from the boater survey is contained in one table named tblBoaterSurvey. This table may be linked to identifying information about the marinas contained in tblMarinaNames. Several auxiliary tables containing coding descriptions developed for responses to selected questions are also linked to tblBoaterSurvey. These codes for selected boater survey questions are provided in Attachment C-2 for the applicable questions.

3.0 CODING CONVENTIONS

Each marina was assigned a unique number that includes the two-letter state abbreviation and a number (and for some states an additional letter). Each boater survey was also assigned a unique identification number. For all questions, a "Yes" response or a check are coded as the number one (1), and a "No" response is coded as zero (0). For various reasons, no response may have been provided for a question in the survey. Several codes are used to indicate non-response and are listed in Table 3-1 below.

**Table 3-1
Non-Response Codes**

Non-Response Code	Code Description
-9	The response is missing. The respondent should have been asked this question and no response was recorded.
-8	The response is skipped. The respondent should not have been asked this question because of their answer to some previous question. Responses to questions that should have been skipped but were answered are included in the database.
-7	The response was not applicable. A value is implied by the respondent's answer to a prior question.
-5	An answer box was not checked where the respondent had the opportunity to check one or more answers to a multiple-choice question.

Attachment C-1

2003 NDZ Boater Owner/Operator Survey (Boater Survey)



No-Discharge Zone _____ Date _____

**U.S. ENVIRONMENTAL PROTECTION AGENCY
2003 No-Discharge Zone Effectiveness Survey
Boat Owner/Operator**

The purpose of this survey is to gather background information to help EPA assess its Vessel Sewage Discharge Program, and to ensure that it is being implemented to be protective of the aquatic environment. The information collected will not be linked to any individual or facility.

- This survey is **anonymous**; respondents will not be identified in the analysis.
- Please only complete this survey if you operate a boat.
- The survey is not intended to take much of your time to complete; we estimate it should take no more than 15 minutes to answer all the questions. Please make estimates if you don't know the precise answer.

Please describe the boat you operate:

1. Do you own the boat that you operate? Yes No
2. What is the length of the boat you operate? _____ feet
3. What is the draft of the boat you operate? _____ feet
4. Is the boat you operate
 - a. commercial? Yes No
 - b. recreational? Yes No
 - c. a live-aboard? Yes No
5. Is the boat you operate a
 - a. powerboat? Yes No
 - b. sailboat? Yes No
6. Does the boat you operate have
 - a. a portable toilet (e.g., a Porta-Potty™)? Yes No
 - b. an installed toilet (head)? Yes No

If you answered "No" to *both* parts of question 6, please skip to question 23. If you answered "No" to question 6.b. please skip to question 12.

7. If the boat you operate has an installed toilet, is it a
 - a. flow-through device? Yes No
 - b. holding tank? Yes No
8. If the boat you operate has an installed toilet, do you
 - a. regularly service it? Yes No
 - b. know if you need to add chemicals? Yes No
 - c. regularly add chemicals? Yes No
 - d. believe that it is performing adequately? Yes No

9. If the boat you operate has an installed toilet, what type of training did you receive regarding the proper operation of it?
- I was trained by the boat dealer
 - I was trained by the MSD manufacturer
 - I was trained by a marina operator
 - I learned to operate the device using the instruction manual
 - I have not received any training or instruction
10. If you received training by a vendor, MSD manufacturer, or marina operator regarding proper use of your MSD, how long was the training?
- less than 30 minutes
 - 30 minute - 1 hour
 - 2 hours
 - half day
 - full day
11. If the boat you operate has an installed toilet, how do you operate it in the area designated on the attached map?
- I close the Y valve
 - The waste is sent to a holding tank
 - I don't use it
 - I operate it normally
 - Don't know/other

Please describe your boating activity so far this season (2003):

12. How many days have you boated this season? _____ days
13. How many days have you boated in the area designated on the attached map this season?
_____ days
14. *This season* have you used a
- | | |
|--|--|
| a. stationary pumpout facility (e.g., on piers or bulkhead)? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| b. mobile pumpout facility onboard a boat? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| c. shore-based, portable pumpout facility? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| d. portable toilet dump station? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
15. Do you have an arrangement to notify marina staff (by flag, for example) to pump out the holding tank during your absence? Yes No
16. Have you used a pumpout facility or toilet dump *this season* in the area designated on the attached map? Yes No
- a. How many times? _____ times (If none, enter "0")
17. Have you had trouble using a pumpout facility or toilet dump *this season* in the area designated on the attached map? Yes No I have not attempted to pump out in this area
- a. How many times? _____ times (If none, enter "0")
18. Did you have trouble using a pumpout or toilet dump on your *last trip* in the area designated on the attached map? Yes No I have not attempted to pump out in this area

19. Have you had occasions *this season* where you looked for but could not find a working pumpout or toilet dump facilities in the area designated on the attached map? Yes No
20. Have you discharged sewage outside the area designated on the attached map *this season*? Yes No
- a. How many times? _____ times (If none, enter "0")
21. Have you found any of the following conditions at any pumpout or toilet dump facilities in the area designated on the attached map *this season*?
- a. Marina closed Yes No
 - b. No pumpout or toilet dump facilities at marina Yes No
 - c. Marina open, pumpout or toilet dump facilities not functional Yes No
 - d. Marina open, no staff available at pumpout or toilet dump facilities Yes No
 - e. Marina open, I didn't know how to use pumpout or toilet dump facilities Yes No
 - f. Pumpout inaccessible (e.g., water not deep enough or hose too short) Yes No
 - g. Mobile pumpout boat not available Yes No
 - h. Waiting time too long Yes No
 - i. Pumpout cost too high Yes No
 - j. Pumpout facility too far away Yes No
 - k. I have not had any problems Yes No Yes No
22. Have any of the above conditions or problems deterred you from using pumpout facilities? Yes No
- a. How many times _____ times (If none, enter "0")

Facts About No-Discharge Zones

23. Do you know that the area designated on the attached map is a no-discharge zone? Yes No
24. Do you know that the discharge of treated and untreated vessel sewage is prohibited in no-discharge zones? Yes No
25. Have you seen or heard information about no-discharge zones from any of the following sources?
- a. Television Yes No
 - b. Radio Yes No
 - c. Boat Show Yes No
 - d. Signs at this marina Yes No
 - e. Brochures or handouts at this marina Yes No
 - f. Verbal instruction by staff at this marina Yes No
 - g. Signs somewhere else Yes No
 - h. Brochures or handouts somewhere else Yes No
 - i. Verbal instruction somewhere else Yes No
 - j. Told by someone who stopped me while I was boating Yes No
 - k. Heard it first in this survey Yes No
 - l. Nautical maps Yes No
 - m. Other, please describe Yes No

26. To your knowledge, who enforces no-discharge zone requirements in the area designated on the attached map?
- | | | | |
|---|------------------------------|-----------------------------|-------------------------------------|
| a. U.S. Coast Guard | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| b. State | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| c. Local government | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| d. Harbormaster | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| e. Marina(s) within the no-discharge zone | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| f. EPA | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |

27. Are you aware of anyone receiving a citation for discharging sewage in the area designated on the attached map? Yes No

28. The area designated on the attached map was designated as a no-discharge zone on the date indicated on the attached map. Have you noticed a change in water quality since the designation?

- Yes, the water seems cleaner
 Yes, the water seems dirtier
 No, the water seems the same
 Don't know

**THANK YOU FOR COMPLETING THIS SURVEY!
ENJOY BOATING ON CLEAN WATERS!**

Attachment C-2

**Database Fields by Question Number
for the Boater Survey**

Variables and Data Codes for the NDZ Boater Survey Database

Field Name	Type	Length	Description	Response and Data Code
NDZ Code	Text	2		1 Buzzards Bay 10 Rhode Island 11 Barnegat Bay 13 Shark River / Manasquan River 17 Peconic Estuary 19 Herring Bay/Northern coastal waters 20 City of Key West 21 Destin Harbor 22 Channel Islands Harbor / Avalon Bay Harbor 23 Newport Bay / Sunset Bay / Huntington Harbor / Pacific Coast Highway Bridge 24 Richardson Bay 25 San Diego / Mission Bay / Oceanside Harbor / Dana Point Harbor 26 Michigan 27 Wisconsin 3 Nantucket
Date	Date/ Time	8	Date of Interview	8/30/2003 – 10/12/2003 1/1/1988 = Missing
SurveyID	Number	4	Respondent Identification Number	1 – 1075, Ids are not sequential
Marina Code	Text	10	Identifies Marina [See tblMarinaNames.]	2-letter State Abbreviation and arbitrary assigned number; in MI, WI, and Richardson Bay, CA format is 2-letter State Abbreviation, NDZ Number, and a Letter
Q1owner	Yes/No	1	Do you own the boat you operate?	Yes = 1 No = 0 Missing = -9
Q2Length	Number	8	What is the length of the boat you operate?	Any non-negative number. Missing = -9
Q3draft	Number	2	What is the draft of the boat you operate?	Any positive number or 0. Missing = -9
Q4Acommercial	Number	4	Is the boat you operate: a. commercial ?	Yes = 1 No = 0 Missing = -9
Q4Brecreational	Number	4	b. recreational ?	Yes = 1 No = 0 Missing = -9
Q4Cliveaboard	Number	4	c. a live-aboard ?	Yes = 1 No = 0 Missing = -9

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q5Apower	Number	4	Is the boat you operate: a. powerboat ?	Yes = 1 No = 0 Missing = -9
Q5Bsail	Number	4	b. sailboat ?	Yes = 1 No = 0 Missing = -9
Q6Aporttoilet	Number	4	Does the boat you operate have: a. a portable toilet?	Yes = 1 No = 0 Missing = -9
Q6Binttoilet	Number	4	b. an installed toilet?	Yes = 1 No = 0 Missing = -9
Q7Aflow	Number	4	If the boat you operate has an installed toilet, is it a: a. flow-through device?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q7Bholding	Number	4	b. holding tank?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q8Aservice	Number	4	If the boat you operate has an installed toilet, do you: a. regularly service it?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q8Bchemicals	Number	4	b. know if you need to add chemicals?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q8Cregchem	Number	4	c. regularly add chemicals?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q8Dperform	Number	4	d. believe it is performing adequately?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q9Adealer	Number	4	If the boat you operate has an installed toilet, what type of training did you receive regarding the proper operation of it?: I was trained by the boat dealer.	Checked = 1 Not checked = -5 Skipped = -8
Q9BMSDmanufacturer	Number	4	I was trained by the MSD manufacturer.	Checked = 1 Not checked = -5 Skipped = -8
Q9Cmarina	Number	4	I was trained by a Marina operator.	Checked = 1 Not checked = -5 Skipped = -8
Q9Dmanual	Number	4	I learned to operate the device using the instruction manual.	Checked = 1 Not checked = -5 Skipped = -8

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q9Enotraining	Number	4	I have not received any training or instruction.	Checked = 1 Not checked = -5 Skipped = -8
Q9USCG	Number	4	[Annotation mentions US Coast Guard training.]	Checked = 1 Not checked = -5 Skipped = -8
Q9Friend	Number	4	[Annotation mentions instruction by a friend.]	Checked = 1 Not checked = -5 Skipped = -8
Q9prior	Number	4	[Annotation mentions prior boating experience.]	Checked = 1 Not checked = -5 Skipped = -8
Q9other1	Number	4	[Annotation mentions some other source of instruction.]	Checked = 1 Not checked = -5 Skipped = -8 Not Applicable = -7
Q9other1text	Text	50	[Text of other source mentioned.]	Text Skipped = -8 Not Applicable = -7
Q10Boater	Number	4	If you received training by a vendor, MSD manufacturer, or marina operator regarding proper use of your MSD, how long was the training?	1= less than 30 minutes 2= 30 minutes to 1 hour 3= 2 hours 4= half day 5= full day Missing = -9 Skipped = -8
Q11Ayvalve	Number	4	If the boat you operate has an installed toilet, how do you operate it in the area designated on the attached map? I close the y valve.	Checked = 1 Not checked = -5 Skipped = -8
Q11Bholdingtank	Number	4	The waste is sent to a holding tank.	Checked = 1 Not checked = -5 Skipped = -8
Q11Cdont	Number	4	I don't use it.	Checked = 1 Not checked = -5 Skipped = -8
Q11Dnormal	Number	4	I operate it normally.	Checked = 1 Not checked = -5 Skipped = -8
Q11Eother	Number	4	Don't know/other.	Checked = 1 Not checked = -5 Skipped = -8
Q12boateddays	Number	4	How many days have you boated this season?	Any positive number and 0; if a range is given, the higher number Missing = -9 Skipped = -8 Not Applicable = -7

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q12range	Number	4	[Low number if range given]	Any positive number and 0 Missing = -9 Skipped = -8 Not Applicable = -7
Q13boatedNDZ	Number	4	How many days have you boated in the area designated on the attached map this season?	Any positive number and 0; if a range is given, the higher number Missing = -9 Skipped = -8 Not Applicable = -7
Q13range	Number	4	[Low number if range given]	Any positive number and 0 Missing = -9 Skipped = -8 Not Applicable = -7
Q14Astationpump	Number	4	This season, have you used a: a. stationary pumpout facility?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q14Bmobilepump	Number	4	b. mobile pumpout facility on board a boat?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q14Cshorepump	Number	4	c. shore-based portable pumpout facility?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q14DtoiletDump	Number	4	d. portable toilet dump station?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q15absence	Number	4	Do you have an arrangement to notify marina staff to pumpout the holding tank during your absence?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q16used	Number	4	Have you used a pumpout facility or toilet dump this season in the area designated on the attached map?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q16Atimesused	Number	4	How many times?	Any positive number and 0; if a range is given, the higher number Missing = -9 Skipped = -8 Not Applicable = -7
Q16range	Number	4	[Low number if range given]	Any positive number and 0 Missing = -9 Skipped = -8 Not Applicable = -7
Q17pumptrouble	Number	4	Have you had trouble using a pumpout facility or toilet dump this season in the area designated on the attached map?	Yes = 1 No = 0 Have not attempted = 3 Missing = -9 Skipped = -8

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q17Atimestrouble	Number	4	How many times?	Any positive number and 0; if a range is given, the higher number Missing = -9 Skipped = -8 Not Applicable = -7
Q17range	Number	4	[Low number if range given]	Any positive number and 0 Missing = -9 Skipped = -8 Not Applicable = -7
Q18Boater	Text	50	Did you have trouble using a pumpout or toilet dump on your last trip in the area designated on the attached map?	Yes = 1 No = 0 Have not attempted = 3 Missing = -9 Skipped = -8
Q19noworkingpump-out	Number	4	Have you had occasions this season where you looked for but could not find a working pumpout station or toilet dump facility in the area designated on the attached map?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q20discharge	Number	4	Have you discharged sewage outside the area designated on the attached map this season?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q20Atimes	Number	4	How many times?	Any positive number and 0; if a range is given, the higher number Missing = -9 Skipped = -8 Not Applicable = -7
Q20range	Number	4	[Low number if range given]	Any positive number and 0 Missing = -9 Skipped = -8 Not Applicable = -7
Q21Aclosed	Number	4	Have you found any of the following conditions at any pumpout or toilet dump facility in the area designated on the attached map this season?: a. marina closed.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Bnopump	Number	4	b. no pumpout or toilet dump facilities at marina.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Cnotfunction	Number	4	c. marina open, pumpout or toilet dump facilities not functional.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Dnostaff	Number	4	d. marina open, no staff available at pumpout or toilet dump facilities.	Yes = 1 No = 0 Missing = -9 Skipped = -8

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q21Eknowledge	Number	4	e. marina open, I didn't know how to use pumpout or toilet dump facilities.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Finaccessible	Number	4	f. Pumpout inaccessible.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Gboatunavailable	Number	4	g. Mobile pumpout boat not available.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Hwaitingtime	Number	4	h. Waiting time too long.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Ihighcost	Number	4	i. pumpout cost too high.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Jdistance	Number	4	j. pumpout facility too far away.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Knoproblems	Number	4	k. I have not had any problems.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q21Other1	Number	4	[Annotation mentions some other problem.]	Yes = 1 No = 0 Missing = -9 Skipped = -8 Not Applicable = -7 Not Checked = -5
Q21Other1text	Text	50	[Text of other problem mentioned.]	Text Missing = -9 Skipped = -8 Not Applicable = -7
Q22detered	Number	4	Have any of the above conditions or problems deterred you from using pumpout facilities?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q22Anumbertimes	Number	4	How many times?	Any positive number and 0; if a range is given, the higher number Missing = -9 Skipped = -8 Not Applicable = -7
Q22range	Number	4	[Low number if range given]	Any positive number and 0 Missing = -9 Skipped = -8 Not Applicable = -7

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q23NDZ	Number	4	Do you know that the area designated on the attached map is a no discharge zone?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q24illegal	Number	4	Do you know that the discharge of treated and untreated vessel sewage is prohibited in no-discharge zones?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Atv	Number	4	Have you seen or heard information about no-discharge zones from any of the following sources? a. television.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Bradio	Number	4	b. radio.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Cboatshow	Number	4	c. boat show.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Dsignsmarina	Number	4	d. signs at this marina.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Ebrochuremarina	Number	4	e. brochures or handouts somewhere else.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Fverbalmarina	Number	4	f. verbal instruction by staff at this marina.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Gsignselsewhere	Number	4	g. signs somewhere else.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Hbrochureselsewhere	Number	4	h. brochures or handouts somewhere else.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Iverbalelsewhere	Number	4	i. verbal instruction somewhere else.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Jtoldboat	Number	4	j. told by someone who stopped me while I was boating.	Yes = 1 No = 0 Missing = -9 Skipped = -8

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q25Ksurvey	Number	4	k. heard it first in this survey.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Lmaps	Number	4	l. Nautical maps.	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q25Myes	Number	4	Other?	Yes = 1 Not Checked = -5
Q25Mother	Text	50	Explanation of Other information source	Text Missing = -9 Not Applicable = -7
Q26AUSCG	Text	50	To your knowledge, who enforces no-discharge zone requirements in the area designated on the attached map? a. U.S. Coast Guard?	Yes = 1 No = 0 Don't know = 3 Missing = -9 Skipped = -8
Q26Bstate	Text	50	b. State?	Yes = 1 No = 0 Don't know = 3 Missing = -9 Skipped = -8
Q26Clocalgov	Text	50	c. Local government?	Yes = 1 No = 0 Don't know = 3 Missing = -9 Skipped = -8
Q26Dharbormaster	Text	50	d. Harbormaster?	Yes = 1 No = 0 Don't know = 3 Missing = -9 Skipped = -8
Q26Emarina	Text	50	e. Marina within the no-discharge zone?	Yes = 1 No = 0 Don't know = 3 Missing = -9 Skipped = -8
Q26GEPA	Text	50	g. EPA?	Yes = 1 No = 0 Don't know = 3 Missing = -9 Skipped = -8
Q27citation	Number	4	Are you aware of anyone receiving a citation for discharging sewage in the area designated on the attached map?	Yes = 1 No = 0 Missing = -9 Skipped = -8

NDZ Boater Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q28waterquality	Text	50	The area designated on the attached map was designated as a no-discharge zone on the date indicated on the attached map. Have you noticed a change in water quality since the designation?	1= water seems cleaner 2= water seems dirtier 3= water seems the same 4= don't know Missing = -9 Skipped = -8

Attachment C-3

2003 NDZ Marina Owner/Operator Survey (Marina Survey)



U.S. ENVIRONMENTAL PROTECTION AGENCY
2003 No-Discharge Zone Effectiveness Survey
Marina Owner/Operator

The purpose of this survey is to gather background information to help EPA assess its Vessel Sewage Discharge Program, and to ensure that it is being implemented to be protective of the aquatic environment. The information collected will not be linked to any individual or facility. No respondents will be identified in the analysis. The survey is not intended to be difficult to complete; we estimate that it should take no more than 15 minutes to answer all the questions. Please use estimates for any question you don't know the precise answer. Thank you for your participation.

Marina Description

- 1. How many boat slips does this marina have? _____ slips
2. Please estimate the number of boats currently at this marina _____ boats
3. Does this marina have (Please check all that apply)
a. Onshore pumpout facilities? [] Yes, how many? _____ [] No
b. Mobile pumpout boat(s)? [] Yes, how many? _____ [] No
c. Toilet dump station(s)? [] Yes, how many? _____ [] No
d. Portable pumpout facilities? [] Yes, how many? _____ [] No

If you answered no to all parts of question 3, please skip to question 21.

- 4. What other services does this marina offer? (Please check all that apply)
a. Fuel [] Yes [] No
b. Boat service and repair [] Yes [] No
c. Boat sales [] Yes [] No
d. Equipment and parts sales [] Yes [] No
e. Bait and tackle [] Yes [] No
f. High and dry boat storage [] Yes [] No
g. Food and beverage sales [] Yes [] No

5. If this marina has pumpout facilities or toilet dump stations, (use the back of this page if more space is needed)

- a. List the equipment brand name(s) _____
b. List the year(s) the pumpout equipment was installed _____

6. What is the maximum vessel draft this marina's pumpout facilities can service? _____ feet

7. Has this marina received any Clean Vessel Act monies to assist with no-discharge zone requirements? [] Yes [] No

8. How much does this marina charge per pumpout or toilet dump? \$ _____

9. How much does it cost annually to operate and maintain this marina's pumpout facilities and/or toilet dump? \$ _____

Pumpout Operations

10. Who performs the pumpout or toilet dump operation? Marina staff Boaters
11. Do you require the marina staff who operate and/or maintain the pumpout facilities and/or toilet dumps to be trained? Yes No
12. If the marina staff are trained on the operation or maintenance of pumpout facilities and/or toilet dumps, how many hours of training is each person given?
- Less than 30 minutes
 - 30 minutes -1 hour
 - 1- 5 hours
 - 5- 10 hours
 - More than 10 hours
13. If the marina staff are trained on the operation or maintenance of pumpout facilities and/or toilet dumps, describe the nature of the pumpout operations training (formal or self-directed).
Check all that apply.
- Staff members review instructions or manuals from the vendor or marina
 - Basic hands-on training on operation, maintenance, and safety conducted by the marina
 - Basic hands-on training on operation, maintenance, and safety conducted by the vendor
 - Off-site training on operation, maintenance, safety, and environmental protection
14. What are the marina's hours of operation?
-
-
15. What are the pumpout facilities' and/or toilet dumps' scheduled hours of operation?
-
16. During the 2003 season, approximately what percentage of time have the pumpout facilities and/or toilet dumps been functional?
- 100% the time
 - 75% to 99% of the time
 - 50% to 74% of the time
 - 26% to 49% of the time
 - 0% to 25% of the time
17. *If the pumpout facilities and/or toilet dumps have not been functional during operating hours in the 2003 season, what were the causes? (Please check all that apply.)*
- a. Not applicable, 100% availability Yes No
 - b. Equipment failure Yes No
(Please provide additional information on the type of significant repairs that have been conducted on your pumpout equipment)
 - c. Waiting for equipment parts/repairs Yes No
 - d. Boater misoperation of equipment Yes No
 - e. Insufficient sewage disposal capacity (For example, sewer pipe backups or capacity reached before septage pickup occurs) Yes No
 - f. No staff available Yes No
 - g. Other, please describe:

18. During the 2003 season, has a boater needed to wait more than 15 minutes to use the pumpout facilities or toilet dumps at this marina? Yes No
19. *If* boaters have needed to wait more than 15 minutes to use a pumpout facility or toilet dump at this marina so far during the 2003 season, how often has this occurred?
 Never
 Rarely
 Occasionally
 At certain times (e.g., weekends at sunset)
 Frequently
20. Please estimate the number of pumpout and toilet dump operations or the total volume of sewage collected at this marina so far during the 2003 season. Use whichever measure is simpler to provide.
- _____ number of pumpouts and toilet dumps operations
or
_____ gallons of pumped and dumped material

Roles and Responsibilities

21. Do you know that the area designated on the attached map is in a no-discharge zone? Yes No
22. Does this marina use any of the methods listed below to inform boaters that they are in a no-discharge zone? *(Please check all that apply)*
- | | | |
|-----------------------|------------------------------|-----------------------------|
| a. Signs | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| b. Brochures/handouts | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| c. We tell people | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
23. Does this marina use any of the methods listed below to inform boaters on how to properly operate their marine sanitation devices? *(Please check all that apply)*
- | | | |
|-----------------------|------------------------------|-----------------------------|
| a. Signs | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| b. Brochures/handouts | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| c. We tell people | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
24. To your knowledge, who enforces no-discharge zone requirements in this no-discharge zone (the area designated on the attached map)? *You may identify more than one organization.*
- | | | | |
|---|------------------------------|-----------------------------|-------------------------------------|
| a. U.S. Coast Guard | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| b. State | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| c. Local government | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| d. Harbormaster | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| e. Marina(s) within the no-discharge zone | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| f. EPA | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
25. Are you aware of anyone receiving a citation for discharging sewage within this no-discharge zone? Yes No

26. To your knowledge, does the State do any of the following? *(Please check all that apply)*
- | | | | |
|--|------------------------------|-----------------------------|-------------------------------------|
| a. Designate no-discharge zones | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| b. Answer marina operators questions about no-discharge zone responsibilities | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| c. Answer boat operators' questions about their responsibilities in no-discharge zones | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| d. Provide information about no-discharge zones on TV or radio | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| e. Provide written information to marina operators to inform them of no-discharge zone requirements | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| f. Provide signs and posters to marinas to inform boat owners and operators of their responsibilities in a no-discharge zone | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| g. Provide written information to boat owner and operators about no-discharge zone requirements | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| h. Track complaints about lack of pumpout availability | <input type="checkbox"/> Yes | <input type="checkbox"/> No | <input type="checkbox"/> Don't Know |
| iii. Other no-discharge zone activities (Please describe) | | | |
-

27. This marina is in a harbor that was designated as a no-discharge zone on the date shown on the map. Have you noticed a change in water quality since the designation?
- Yes, the water seems cleaner
- Yes, the water seems dirtier
- No, the water seems the same
- Don't know
-

**THANK YOU FOR COMPLETING THIS SURVEY!
ENJOY BOATING ON CLEAN WATERS!**

Attachment C-4

**Database Fields by Question Number
for the Marina Survey**

Variables and Data Codes for the NDZ Marina Survey Database

Field Name	Type	Length	Description	Response and Data Code
NDZ Code	Text	2		1 Buzzards Bay 10 Rhode Island 11 Barnegat Bay 13 Shark River / Manasquan River 17 Peconic Estuary 19 Herring Bay/Northern coastal waters 20 City of Key West 21 Destin Harbor 22 Channel Islands Harbor / Avalon Bay Harbor 23 Newport Bay / Sunset Bay / Huntington Harbor / Pacific Coast Highway Bridge 24 Richardson Bay 25 San Diego / Mission Bay / Oceanside Harbor / Dana Point Harbor 26 Michigan 27 Wisconsin 3 Nantucket
Date	Date/Time	8	Date of Interview	8/22/2003 – 10/12/2003 1/1/1988 = Missing
MarinaID	Text	10	Identifies Marina [See tblMarinaNames.]	2-letter State abbreviation and arbitrary assigned number; in MI, WI, and Richardson Bay, CA format is 2-letter State abbreviation, NDZ number, and a letter
Q1slips	Number	4	How many boat slips does this marina have?	Any non-negative number. Missing = -9
Q2boatcount	Number	4	Please estimate the number of boats currently at this marina	Any non-negative number. Missing = -9
Q3Aonshorepump	Number	4	Does this marina have: a. onshore pumpout facilities?	Yes = 1 No = 0 Missing = -9
Q3Acount	Text	50	How many?	Any non-negative number. Not Applicable = -7 Missing = -9
Q3Bmobilepump	Number	4	b. mobile pumpout boat(s)?	Yes = 1 No = 0 Missing = -9
Q3Bcount	Number	4	How many?	Any non-negative number. Not Applicable = -7 Missing = -9
Q3CtoiletDump	Number	4	c. toilet dump station(s)?	Yes = 1 No = 0 Missing = -9
Q3Ccount	Number	4	How many?	Any non-negative number. Not Applicable = -7 Missing = -9

NDZ Marina Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q3Dportablepump	Number	4	d. portable pumpout facilities?	Yes = 1 No = 0 Missing = -9
Q3Dcount	Number	4	How many?	Any non-negative number. Not Applicable = -7 Missing = -9
Q4Afuel	Number	4	What other services does this marina offer? a. fuel?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q4Bservice	Number	4	b. boat service and repair?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q4Csales	Number	4	c. boat sales?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q4Dequip	Number	4	d. equipment and part sales?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q4Ebait	Number	4	e. bait and tackle?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q4Fstorage	Number	4	f. high and dry boat storage?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q4Gfood	Number	4	g. food and beverage sales?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q5Aequip1New	Number	4	[Major brand names coded]	Edson = 1 Keco = 2 Sani-Sailor = 3 Waubashene = 4 Other = 5 Missing = -9 Skipped = -8
Q5Aequip1Other	Text	50	List the equipment brand names	Text Not Applicable = -7 Skipped = -8
Q5Aequip2New	Number	4	[Major brand names coded]	Edson = 1 Keco = 2 Sani-Sailor = 3 Waubashene = 4 Other = 5 Missing = -9 Skipped = -8

NDZ Marina Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q5Aequip2Other	Text	50	List the equipment brand names	Text Not Applicable = -7 Skipped = -8
Q5Byearinstalled1	Text	50	List the year(s) the pumpout equipment was installed	Year described Not Applicable = -7 Missing = -9 Skipped = -8
Q5Byearinstalled2	Text	50	List the year(s) the pumpout equipment was installed	Year described Not Applicable = -7 Missing = -9 Skipped = -8
Q6maxdraft	Number	4	What is the maximum vessel draft this marina's pumpout facilities can service?	Any non-negative number. Missing = -9 Skipped = -8
Q6range	Number	4	[Low number if range is given for draft]	Any non-negative number. Missing = -9 Skipped = -8 Not Applicable = -7
Q7CVAmoney	Number	4	Has this marina received any Clean Vessel Act monies to assist with no-discharge zone requirements?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q8charge	Number	4	How much does this marina charge per pumpout or toilet dump?	Any non-negative number. Missing = -9 Skipped = -8
Q8range	Number	4	[Low number if range given]	Any non-negative number. Missing = -9 Skipped = -8 Not Applicable = -7
Q9annualcost	Number	4	How much does it cost annually to operate and maintain this marina's pumpout facilities and/or toilet dump?	Any non-negative number. Missing = -9 Skipped = -8
Q9range	Number	4	[Low number if range given]	Any non-negative number. Missing = -9 Skipped = -8 Not Applicable = -7
Q10whopumps	Number	4	Who performs the pumpout or toilet dump operation?	Marina staff = 1 Boaters = 2 Both = 3 Missing = -9 Skipped = -8
Q11trainedstaff	Number	4	Do you require the marina staff that operate and/or maintain the pumpout facilities and/or toilet dumps to be trained?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q12marina	Number	4	If the marina staff are trained on the operation or maintenance of pumpout facilities and/or toilet dumps, how many hours of training is each person given?	1 = less than 30 minutes 2 = 30 minutes – 1 hour 3 = 1 – 5 hours 4 = 5 – 10 hours 5 = more than 10 hours Missing = -9 Skipped = -8

NDZ Marina Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q13Aselftraining	Number	4	If the marina staff are trained on the operation or maintenance of pumpout facilities and/or toilet dumps, describe the nature of the pumpout operations training: Staff members review instructions or manuals from the vendor or marina	Checked = 1 Not checked = -5 Skipped = -8 Missing = -9
Q13Bmarina	Number	4	Basic hands-on training on operation, maintenance, and safety conducted by the marina	Checked = 1 Not checked = -5 Skipped = -8 Missing = -9
Q13Cvendor	Number	4	Basic hands-on training on operation, maintenance, and safety conducted by the vendor	Checked = 1 Not checked = -5 Skipped = -8 Missing = -9
Q13Doffsite	Number	4	Offsite training on operation, maintenance, safety and environmental protection	Checked = 1 Not checked = -5 Skipped = -8 Missing = -9
Q14hours	Text	50	What are the marina's hours of operation?	Text Skipped = -8 Missing = -9
Q15same	Number	4	[Annotation indicates the hours are the same]	Marina hours and pumpout hours are the same = 1 Are not the same = 0 Missing = -9 Skipped = -8
Q15pumphours	Text	50	What are the pumpout facilities' and/or toilet dumps' scheduled hours of operation?	Text Not applicable = -7 Missing = -9 Skipped = -8
Q16hoursfunctional	Number	4	During the 2003 season, approximately what percentage of time have the pumpout facilities and/or toilet dumps been functional?	1 = 100% of the time 2 = 75% to 99% of the time 3 = 50% to 74% of the time 4 = 26% to 49% of the time 5 = 0% to 25% of the time Missing = -9 Skipped = -8
Q17Ana	Number	4	If the pumpout facilities and/or toilet dumps have not been functional during operating hours in the 2003 season, what were the causes? a. not applicable, 100% available	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q17Bequip	Number	4	b. equipment failure	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q17Cwaiting	Number	4	c. waiting for equipment parts/repairs	Yes = 1 No = 0 Missing = -9 Skipped = -8

NDZ Marina Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q17Dmisoperation	Number	4	d. boater misoperation of equipment	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q17Ecapacity	Number	4	e. insufficient sewage disposal capacity	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q17Fstaff	Number	4	f. no staff available	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q17Gyn	Number	4	g. other, please describe	Yes = 1 No = 0 Missing = -9 Skipped = -8 Not Applicable = -7
Q17Hother	Text	50	[Text of other causes described]	Text Not Applicable = -7 Skipped = -8
Q1815min	Number	4	During the 2003 season, has a boater needed to wait more than 15 minutes to use the pumpout facilities or toilet dumps at this marina?	Yes = 1 No = 0 Missing = -9 Skipped = -8
Q19marina	Number	4	If the boaters needed to wait more than 15 minutes to use a pumpout facility or toilet dump at this marina so far during the 2003 season, how often has this occurred?	1 = Never 2 = Rarely 3 = Occasionally 4 = at certain times 5 = Frequently Missing = -9 Skipped = -8
Q20Acountpump	Number	4	Please estimate the number of pumpout and toilet dump operations or the total volume of sewage collected at this marina so far during 2003 season. Use whichever measure is simpler to provide. a. number of operations	Any non-negative number. Missing = -9 Skipped = -8 Not Applicable = -7
Q20Bgallonspumped	Number	4	b. gallons of material	Any non-negative number. Missing = -9 Skipped = -8 Not Applicable = -7
Q21NDZ	Number	4	Do you know that the area on the attached map is a no-discharge zone	Yes = 1 No = 0 Missing = -9
Q22Asgns	Number	4	Does this marina use any of the methods listed below to inform boaters that they are in a no-discharge zone? a. signs	Yes = 1 No = 0 Missing = -9

NDZ Marina Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q22Bbrochure	Number	4	b. brochures/handouts	Yes = 1 No = 0 Missing = -9
Q22Ctell	Number	4	c. we tell people	Yes = 1 No = 0 Missing = -9
Q23Asigns	Number	4	Does this marina use any of the methods listed below to inform boaters on how to properly operate their marine sanitation devices? a. signs	Yes = 1 No = 0 Missing = -9
Q23Bbrochure	Number	4	b. brochures	Yes = 1 No = 0 Missing = -9
Q23Ctell	Number	4	c. we tell people	Yes = 1 No = 0 Missing = -9
Q24Auscg	Number	4	To your knowledge, who enforces no-discharge zone requirements in this no-discharge zone? a. U.S. Coast Guard	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q24Bsate	Number	4	b. state	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q24Clocalgov	Number	4	c. local government	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q24Dharbormaster	Number	4	d. harbormaster	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q24Emarina	Number	4	e. marina within the no-discharge zone	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q24FEPA	Number	4	f. EPA	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q25citation	Number	4	Are you aware of anyone receiving a citation for discharging sewage in the area designated on the attached map?	Yes = 1 No = 0 Missing = -9
Q26Amarina	Number	4	To your knowledge, does the State do any of the following? a. designate no-discharge zones	Yes = 1 No = 0 Don't know = 3 Missing = -9

NDZ Marina Survey Database Codes (Continued)

Field Name	Type	Length	Description	Response and Data Code
Q26Bmarina	Number	4	b. answer marina operators questions about no-discharge zone responsibilities	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Cmarina	Number	4	c. answer boat operators' questions about their responsibility in no-discharge zones	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Dmarina	Number	4	d. provide information about no-discharge zones on TV or radio	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Emarina	Number	4	e. provide written information to marina operators to inform them of no-discharge zone requirements	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Fmarina	Number	4	f. provide signs and posters to marinas to inform boat owners and operators of their responsibilities in a no-discharge zone	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Gmarina	Number	4	g. provide written information to boat owners and operators about no-discharge zone requirements	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Hmarina	Number	4	h. track complaints about lack of pumpout availability	Yes = 1 No = 0 Don't know = 3 Missing = -9
Q26Imarina	Number	4	Other no discharge zone activities	Yes = 1 Not Applicable = -7
Q26Jothertxt	Text	50	[Text of other activities described]	Text Not Applicable = -7
Q27waterquality	Number	4	The area designated on the attached map was designated as a no-discharge zone on the date indicated on the attached map. Have you noticed a change in water quality since the designation?	1= water seems cleaner 2= water seems dirtier 3= water seems the same 4= don't know Missing = -9

Attachment C-5

Table 5. Number of Boater and Marina Responses

Table 5. Number of Boater and Marina Responses

Region	Selected NDZ	Marinas surveyed in NDZ	Number of Boaters Surveyed	Marina Surveyed?
Massachusetts/ Rhode Island	Nantucket Harbor, MA	NH1	15	Y
		NH2	7	Y
	Buzzards Bay, MA	BBM1	21	Y
		BBM2	10	Y
		BBM3	17	Y
		BBM4	31	Y
		BBM5	15	Y
	Rhode Island	RI1	16	Y
		RI2	28	Y
		RI3	23	Y
		RI4	19	Y
		RI5	15	Y
		RI6	16	Y
		RI7	16	Y
RI8		17	Y	
New York/ New Jersey	Peconic Estuary, NJ	PC1	15	Y
		PC2	21	Y
		PC3	24	Y
		PC4	27	Y
		PC5	5	Y
		PC6	12	Y
	Barnegat Bay, NJ	BBNJ1	25	Y
		BBNJ2	3	Y
		BBNJ3	21	Y
		BBNJ4	14	Y
		BBNJ5	14	Y
		BBNJ6	12	Y
		BBNJ7	14	Y
		BBNJ8	3	Y
		BBNJ9	12	Y
		BBNJ10	15	N
		BBNJ11	0	Y
		BBNJ12	0	Y
	Shark River & Manasquan River, NJ	SRMR1	16	Y
		SRMR2	18	Y
SRMR3		4	Y	
SRMR4		17	Y	
SRMR5		16	N	
Maryland	Northern Coastal Bays	NC1	43	Y
		NC2	23	Y
		NC3	21	Y

Region	Selected NDZ	Marinas surveyed in NDZ	Number of Boaters Surveyed	Marina Surveyed?
Florida	City of Key West waters	KW1	15	Y
		KW2	13	Y
	Destin Harbor	DH1	4	Y
		DH2	12	Y
Michigan/ Wisconsin	Michigan	MI1	7	Y
		MI2	23	Y
		MI3	2	Y
		MI4	3	Y
		MI5	4	Y
		MI6	8	Y
		MI7	1	Y
		MI8	2	Y
		MI9	15	Y
		MI10	0	Y
		MI11	0	Y
		MI12	0	Y
		MI13	0	Y
	Wisconsin	WI1	1	Y
		WI2	2	Y
		WI3	2	Y
		WI4	9	Y
	WI5	1	N	
	WI6	0	Y	
	WI7	0	Y	
California	Newport Bay, Sunset Bay & Huntington Harbor	NB1	13	Y
		NB2	18	Y
		NB3	15	N
		NB4	9	N
	Richardson Bay	RB1	9	Y
		RB2	1	N
	Channel Islands Harbor & Avalon Harbor	CI1	20	Y
		CI2	19	Y
	San Diego Bay, Mission Bay/Oceanside Harbor, Dana Point Harbor	SDB1	20	Y
		SDB2	27	Y
SDB3		22	N	

NH1 represents Nantucket Harbor Marina 1

Y = Yes

N= No