

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE
(ER 1130-2-520)**

PAGE 1 OF 2 PAGES

DATE: **January 4, 2012**

T0:

FROM:

RIVER/HARBOR NAME AND STATE: Gloucester Harbor, Gloucester, Massachusetts
Dwg. No. 327, Sheets 1-2 of 2, Dated 4 January 2012

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MIDDLE HALF (feet) | RIGHT OUTSIDE QUARTER (feet) |
|--|----------------|--------------------|-------------------------|-------------------|-----------------------------|--------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | | |
| <u>CONDITION SURVEY</u> | | | | | | | |
| <u>20-Foot Entrance Channel</u> | | | | | | | |
| From about 1,210' seaward of Buoy GC-11 for about 3,905' (about 330' upstream of Buoy R & G GH at the confluence of the North and South Channels | 7/10 | 300 to 570 | .64 | 20.0 | (1) 19.9 | 20.0 | 20.0 |
| <u>20-Foot North Channel</u> | | | | | | | |
| From about 715' seaward of Buoy RN-2 upstream 1,170' to Buoy RN-4 | 7/10 | 225 to 200 | .19 | 20.0 | (2) 20.0 | 19.9 | (3) 20.0 |
| Thence upstream 1,250' to end of Federal Navigation Project | 7/10 | 200 to 250 | .21 | 20.0 | (4) 19.0 | 16.9 | (5) 18.5 |
| <u>20-Foot South Channel</u> | | | | | | | |
| From about 110' seaward of Buoy RN-2S for about 1,720' (about 940' upstream of Buoy GC-3) | 7/10 | 200 | .28 | 20.0 | (6) 19.2 | 20.0 | (7) 19.8 |
| Thence upstream 720' to end of Federal Navigation Project | 7/10 | 200 to 320 to 220 | .12 | 20.0 | (8) 18.8 | 19.1 | (9) 18.8 |

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

FOOT NOTES:

- (1). Except for shoaling to 19.4' within 15' of limit.
- (2). Except for shoaling to 19.6' within 5' of limit.
- (3). Except for shoaling to 18.8' within 20' of limit.
- (4). Except for shoaling to 16.7' within 20' of limit and to 17.8' within last 70' of upstream end of limit.
- (5). Except for shoaling to 17.0' within 20' of limit.
- (6). Except for shoaling to 18.7' within 20' of limit.
- (7). Except for shoaling to 19.0' within 20' of limit.
- (8). Except for shoaling to 17.6' within 20' of limit.
- (9). Except for shoaling to 18.0' within 20' of limit.

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DATE: **January 4, 2012**

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| TO: | FROM: |
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RIVER/HARBOR NAME AND STATE: Gloucester Harbor, Gloucester, Massachusetts
Dwg. No. 326, Sheet(s) 1-2 of 2, Dated 4 January 2012

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MIDDLE HALF (feet) | RIGHT OUTSIDE QUARTER (feet) |
|---|----------------|--------------------|-------------------------|-------------------|-----------------------------|--------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | | |
| <u>CONDITION SURVEY</u> | | | | | | | |
| <u>18-Foot Harbor Cove Channel</u> | | | | | | | |
| From about 10' seaward of Buoy GC-11 upstream 2,450' | 7/10 | 0 to 485 to 240 | .40 | 18.0 | (10) 17.8 | 17.4 | (11) 17.8 |
| Thence upstream 250' to end of Federal Navigation Project | | 100 | .04 | 18.0 | | 15.4 | |
| <u>16-Foot Smith Cove Channel</u> | | | | | | | |
| From about 10' seaward of Buoy RN-2S upstream 870' | 7/10 | 680 to 345 to 460 | .14 | 16.0 | (12) 15.2 | 15.6 | 12.0 |
| <u>16-Foot Inner Harbor Anchorage</u> | | | | | | | |
| From about 325' upstream of Buoy R & G GH for about 575' upstream | 7/10 | | 7.1 acres | 16.0 | | 16.0' available | |
| <u>15-Foot Anchorage</u> | | | | | | | |
| From about 185' seaward of Buoy GC-13 upstream about 525' | | | 4.9 acres | 15.0 | | 13.8' available | |

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

FOOT NOTES:

- (10). Except for shoaling to 17.0' within 10' of limit.
- (11). Except for shoaling to 17.3' within 10' of limit.
- (12). Except for shoaling to 14.6' within 10' of limit.

**U.S. ARMY ENGINEER DISTRICT, NEW ENGLAND
CORPS OF ENGINEERS
696 Virginia Road
Concord, Massachusetts 01742-2751**

*Mailed
23 June 09*

June 22, 2009

CENAE-EP-DS (11-2-240a)

MEMORANDUM FOR: See Distribution

SUBJECT: Results of Survey

1. In accordance with department regulations there is enclosed a drawing showing results of survey in the following Federal project:

Annisquam River – Gloucester & Annisquam, MA

2. Controlling depth information for the above project is shown on the enclosed copy of navigation and chart data.

FOR THE COMMANDER:

STEPHEN A. JOHNSTON
Chief, Survey Section

2 Enclosures:

1. ENG Form 4020-R
2. Dwg. No. ARG-326


JOHNSTON
PROOFREAD

DISTRIBUTION:
GENERAL

Chief Operations Division, Lyn Preston, Nautical Data Branch/NOAA, N/C26, Station 7350
1315 East-West Highway, Silver Springs, MD 20910-3282 - 1 copy of drawing, 1 copy of form

USCG Cutter Willow, LT JG Chmielecki - NETC Pier 2 – ATTN: Desiree Atnip, Newport,
RI 02841 – 1 copy of drawing, 1 copy of form

Capt. E. Howard McVay Jr. - Northeast Marine Pilots Incorporated, 243 Spring Street,
Newport, RI 02840 – 1 copy of drawing,

MASSACHUSETTS

(The following address receive information for all project in MASS.)

Director of Waterways, Martha C. King – Department of Conservation and Recreation
345 Lincoln St. Building # 45
Hingham, MA 02043
1 copy of drawing, 1 copy of form
(Rename Kevin Mooney By: Moe Mar. 04 2008)
(Rename Martha C. King By: Johnston Stephen A.)
Email: Martha.c.king@state.ma.us

Director, DEM Waterways, 349 Lincoln Street, Building 45, Hingham, MA 02043
(NAME NO LONGER) 1 copy of drawing, 1 copy of form

**REPORT OF CHANNEL CONDITIONS
100 TO 400 FEET WIDE
(ER 1130-2-316)**

PAGE 1 OF 2 PAGES

DATE: **June 22, 2009**

TO: FROM: U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA. 01742-2751

RIVER/HARBOR NAME AND STATE: Annisquam River, Gloucester & Annisquam, MA
Dwg. No. ARG-326, Sheets 1-11 of 11, Dated 22 June 2009

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MIDDLE HALF (feet) | RIGHT OUTSIDE QUARTER (feet) |
|---|----------------|-------------------------|-------------------------|-------------------|-----------------------------|--------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | | |
| <u>CONDITION SURVEY</u> <u>8-Foot Channel</u> | | | | | | | |
| Upstream about 1000' from Buoy R/W C "BC" (180' upstream of Blynman Bridge) | 6/07 | 60 to 35 to 50 | .16 | 8.0 | 7.8 | 8.0 | 7.2 |
| Thence upstream 1480' to Buoy RN-50 | 6/07 | 50 to 60 | .24 | 8.0 | 7.3 | 6.6 | 6.0 |
| Thence upstream 635' to Buoy GC-47 | 6/07 | 60 to 125 to 60 | .11 | 8.0 | (1) 6.3 | 6.7 | (2) 4.9 |
| Thence upstream 1315' to south edge of B&M R.R. Bridge | 6/07 | 60 to 35 | .21 | 8.0 | 8.0 | 8.0 | 8.0 |
| Thence upstream 2310' to Buoy RN-40 | 6/07 | 35 to 200 to 100 to 130 | .38 | 8.0 | (3) 6.0 | 6.9 | 5.1 |
| Thence upstream 1695' to Buoy GC-33 | 6/07 | 140 to 100 to 200 | .28 | 8.0 | 1.1 | 1.1 | 4.5 |
| Thence upstream 1705' to Buoy GC-31 | 6/07 | 200 to 100 | .28 | 8.0 | 3.7 | 5.8 | 5.1 |
| Thence upstream 1295' to Buoy RN-28 | 6/07 | 100 to 200 to 100 | .21 | 8.0 | 4.7 | 5.3 | 4.6 |

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

FOOT NOTES:

- (1). Except for shoaling to 5.8' within 5' of west limit about 120' to 160' upstream of Buoy GC-49.
- (2). Except for shoaling to 3.8' within 5' of east limit.
- (3). Except for shoaling to 4.4' within 5' of south limit.

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100 TO 400 FEET WIDE
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T0: FROM: U.S. Army Corps of Engineers
New England District
696 Virginia Road
Concord, MA. 01742-2751

RIVER/HARBOR NAME AND STATE: Annisquam River, Gloucester & Annisquam, MA
Dwg. No. ARG-326, Sheets 1-11 of 11, Dated 22 June 2009

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MIDDLE HALF (feet) | RIGHT OUTSIDE QUARTER (feet) |
|--|----------------|--------------------|-------------------------|-------------------|--|--------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | | |
| <u>CONDITION SURVEY</u> <u>8-Foot Channel</u> | | | | | | | |
| Thence upstream 1290' to Buoy RN-26 | 6/07 | 100 | .22 | 8.0 | 6.5 | 7.9 | 8.0 |
| Thence upstream 1705' +/- (approximate vicinity GC-21) | 6/07 | 100 to 180 to 100 | .28 | 8.0 | +2.4 | +1.6 | 2.8 |
| Thence upstream 525' | 6/07 | | .09 | | Naturally deep area and has never been dredged | | |
| Thence upstream 1030' to 55' upstream of Buoy GC-17 | 6/07 | 100 | .17 | 8.0 | 6.6 | 6.9 | 6.6 |
| Thence upstream 8125' (about 300' upstream of Buoy RN-6) | 6/07 | | 1.33 | | Naturally deep area and has never been dredged | | |
| <u>Ipswich Bay Channel</u> | | | | | | | |
| Thence upstream 1800' (about 500' to upstream of Buoy RN-4) | 6/07 & 1/08 | 200 | .30 | 8.0 | 6.5 | 7.5 | 8.0 |
| <u>Lobster Cove Anchorage</u> | 04/07 | 190 x 875 x 1963 | 19.0 acres | 8.0 | | | |
| Main anchorage | | | | | | (4) +1.4 | |
| Northerly extension | | | | | | (5) 6.1 | |

GENERAL NOTE: The information shown on this sheet(s) represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

FOOT NOTES:

(4). This shoaling is located within 20' along the south limit; except for shoaling to +1.1' over a shoal between the river and the cove; and 5.0' available elsewhere.

(5). Except for shoaling to 5.1' within 25' along east limit