

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

Aug 24, 2007

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:

Weymouth Fore and Town Rivers, 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. WFR-436



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,

Kevin J. Blount Chief, Waterways Management & Marine Information Section – First Coast
Guard District 1 (oan) - 408 Atlantic Ave. Boston, MA 02110 – 3350

1 copy of drawing, 1 copy of form

MASSACHUSETTS

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

Director - Kevin P. Mooney - DCR Waterways 349 Lincoln St. Building # 45

Hingham, MA 02043 1 copy of drawing, 1 copy of form

ANDREWS RIVER

BOSTON HARBOR (Including areas within Boston Harbor & Weymouth fore river)

(Included Chelsea River, Gloucester & Salem, Boston, MA)

Mr. Mike Duarte

22 Powderhorn Way - Sandwich, MA 02563 – 2517 - 1 copy of drawing

Mr. Mike Duarte

Boston Towing & Transportation – 36 New Street – East Boston, MA 02128 – 2316

1 copy of drawing

Boston Pilots, Pier - One, Bremen Street, East Boston, MA 02128 – 2752

1 copy of drawing

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER
(ER 1130-2-316)**

DATE: August 24, 2007

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

RIVER/HARBOR NAME AND STATE: **Weymouth Fore and Town Rivers, MA.**
Dwg. No. **WFR-436, Sheets 1-11 of 11, Dated 24 August 2007**

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MID-CHANNEL | | RIGHT OUTSIDE QUARTER (feet) |
|--|----------------|---------------------------------|-------------------------|-------------------|-----------------------------|----------------------------|-----------------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | LEFT INSIDE QUARTER (feet) | RIGHT INSIDE QUARTER (feet) | |
| <u>AFTER DREDGE SURVEY</u> | | | | | | | | |
| <u>35-Foot Fore River Channel</u> | | | | | | | | |
| From about 680' seaward of Buoy FI R-4 upstream about 5,546' | 1-3/07 | 500 to 710 | .91 | 35.0 | 35.0 | 35.0 | 35.0 | (1) 35.0 |
| Thence upstream 1,845' to Buoy FI R "TN" RG | 1-3/07 | 710 to 500 | .30 | 35.0 | (2) 27.5 | 33.2 | 35.0 | 35.0 |
| Thence upstream 6,837' to Buoy FI R-2 | 1-3/07 | 500 to 1220 to 500 | 1.12 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| Thence upstream 3,211' to Buoy FI R-6 | 1-3/07 | 500 to 650 to 435 | .53 | 35.0 | 35.0 | 35.0 | 35.0 | 35.0 |
| Thence upstream 5,448' to Buoy FI G-11 | 1-3/07 | 435 to 400 to 510 to 695 to 445 | .90 | 35.0 | (3) 34.5 | 35.0 | 35.0 | (4) 34.3 |
| Thence upstream 3,260' to Buoy FI G Bn-13 | 1-3/07 | 445 to 400 to 610 | .54 | 35.0 | 35.0 | 35.0 | (5) 35.0 | 35.0 |
| Thence upstream 766' | 1-3/07 | 610 to 400 | .13 | 35.0 | (6) 35.0 | 35.0 | 35.0 | 35.0 |
| Thence upstream 5,371' (Buoy FI R-14 to FI R-19) | 1-3/07 | 400 | .88 | 35.0 | (7) 35.0 | 35.0 | 35.0 | (8) 35.0 |

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 34.8' within 10' along north channel limit from about 950' to about 1050' upstream of Buoy FI R-6.
- (2). Shoaling located in the vicinity of Buoy FI G-9; 32.8' available in remainder of reach.
- (3). First isolated shoal located about 700' upstream of Buoy FI G-5 and second isolated shoal of 34.6' located about 260' seaward of Buoy FI G-9; 35.0' available in remainder of reach.
- (4). Isolated shoal located 310' upstream of Buoy FI R-6; 35.0' available in remainder of reach.
- (5). Except for isolated shoal of 34.7' located about 200' upstream of Buoy FI R-12.
- (6). Except for shoaling to 34.1' within 20' along east channel limit from about 350' to about 600' upstream of FI G Bn-13.
- (7). Except for shoaling to 34.9' within 20' along east channel limit.
- (8). Except for shoaling to 34.5' within 10' along west channel limit.

**REPORT OF CHANNEL CONDITIONS
400 FEET WIDE OR GREATER
(ER 1130-2-316)**

PAGE 2 OF 3 PAGES

DATE: August 24, 2007

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

RIVER/HARBOR NAME AND STATE: **Weymouth Fore and Town Rivers, MA.**
Dwg. No. **WFR-436**, Sheets 1-11 of 11, Dated 24 August 2007

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MID-CHANNEL | | RIGHT OUTSIDE QUARTER (feet) |
|---|----------------|--|-------------------------|-------------------|-----------------------------|----------------------------|-----------------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | LEFT INSIDE QUARTER (feet) | RIGHT INSIDE QUARTER (feet) | |
| <u>AFTER DREDGE SURVEY</u> | | | | | | | | |
| <u>35-Foot Fore River Channel</u> | | | | | | | | |
| Thence upstream 2,859' to Buoy FI G-25 | 1-3/07 | 400 to 500 to 660 to 300 | .47 | 35.0 | (9) 35.0 | 35.0 | 35.0 | (10) 35.0 |
| Thence upstream 2,949' to Buoy GC-27 | 1-3/07 | 300 to 340 to 420 | .48 | 35.0 | (11) 35.0 | 35.0 | 35.0 | (12) 35.0 |
| Thence upstream 2,503' | 1-3/07 | 420 to 455 to 545 to 790 to 400 to 136 | .41 | 35.0 | (13) 35.0 | 35.0 | 35.0 | (14) 35.0 |
| Thence upstream 290' (vicinity of Fore River Bridge) | 1-3/07 | 136 | .05 | 35.0 | 35.0 | 35.0 | 35.0 | 34.7 |
| Thence upstream 2,751' to upstream end of limit of Federal Navigation Project | 1-3/07 | 136 to 450 to 400 | .45 | 35.0 | (15) 35.0 | 35.0 | (16) 35.0 | (17) 35.0 |
| <u>35-Foot Turning Basin and Maneuvering Area</u> | | | | | | | | |
| From about 80' upstream of Buoy GC-27 for about 720' upstream (Kings Cove) | 1-3/07 | | 5.1 acres | 35.0 | 34.7 | easterly portion | 34.7 | westerly portion |

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:

- (9). Except for shoaling to 34.3' within 35' along south channel limit.
- (10). Except for shoaling to 34.1' within 15' along north channel limit.
- (11). Except for shoaling to 34.5' within 10' along south channel limit located 750' upstream of Buoy GC-27.
- (12). Except for shoaling to 33.9' within 15' along north channel limit from about 0' to about 600' upstream of Buoy GC-27.
- (13). Except for isolated shoal of 34.8' in the vicinity of seaward face of Fore River Bridge.
- (14). Except for shoaling to 32.7' within 10' along north channel limit; except for shoaling to 33.6' within 150' radius of Buoy FI R-28.
- (15). Except for shoaling to 31.3' at the vicinity of south end of bridge fender.
- (16). Except for shoaling to 32.7' at the vicinity of south end of bridge fender.
- (17). Except for shoaling to 32.6' within 30' along west channel from about 0' to 800' upstream of south end of bridge fender.

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RIVER/HARBOR NAME AND STATE: Weymouth Fore and Town Rivers, MA.
Dwg. No. WFR-436, Sheets 1-11 of 11, Dated 24 August 2007

MINIMUM DEPTHS IN
CHANNEL ENTERING FROM SEAWARD

| NAME OF CHANNEL | DATE OF SURVEY | AUTHORIZED PROJECT | | | LEFT OUTSIDE QUARTER (feet) | MID-CHANNEL | | RIGHT OUTSIDE QUARTER (feet) |
|--|----------------|-----------------------------|-------------------------|-------------------|-----------------------------|----------------------------|-----------------------------|------------------------------|
| | | WIDTH (feet) | LENGTH Nautical (miles) | MLLW DEPTH (feet) | | LEFT INSIDE QUARTER (feet) | RIGHT INSIDE QUARTER (feet) | |
| <u>CONDITION SURVEY</u> | | | | | | | | |
| <u>35-Ft Town River Channel</u> | | | | | | | | |
| From about 747' seaward of Buoy RN-2 upstream about 2,154' to Buoy RN-4 | 3/07 | 300 | .35 | 35.0 | 28.7 | 29.6 | 28.9 | 26.3 |
| Thence upstream 3,755' | 3/07 | 300 to 470 to varies to 306 | .62 | 35.0 | (18) 29.9 | 30.0 | 29.0 | 29.6 |
| Thence upstream 777' to end of 35-foot channel | 3/07 | 190 to 210 to 161 | .13 | 35.0 | 31.4 | 34.8 | 34.5 | 32.2 |
| <u>15-Ft Town River Channel</u> | | | | | | | | |
| Thence upstream 1,414' to upstream end of limit of Federal Navigation Project | 3/07 | 100 | .23 | 15.0 | (19) 0.5 | 0.9 | (20) 1.5 | (20) 3.4 |
| <u>35-Foot Town River Turning Basin</u> | | | | | | | | |
| From about 215' seaward of Buoy GC-9 for about 2,510' to about 119' upstream of Buoy RN-16 | 3/07 | | 21 acres | 35.0 | | 29.8 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:

- (18). Encroachment of floats in the vicinity of Captain's Cove Marina.
- (19). Encroachment of floats in the vicinity of Sea Monkey Marina.
- (20). Encroachment by several floats in the vicinity of Town River Marina; encroachment by float adjacent to the upstream end of limit of Federal Navigation Project.