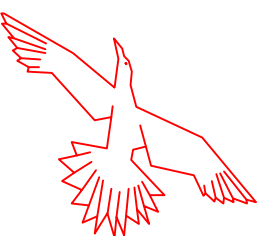

MILITARY OCEAN TERMINAL
DRY DOCK
BAYONNE, NEW JERSEY
CONTRACT No. 410-10-037
SURVEY No.

HYDROGRAPHIC SURVEY
July 5, 2011

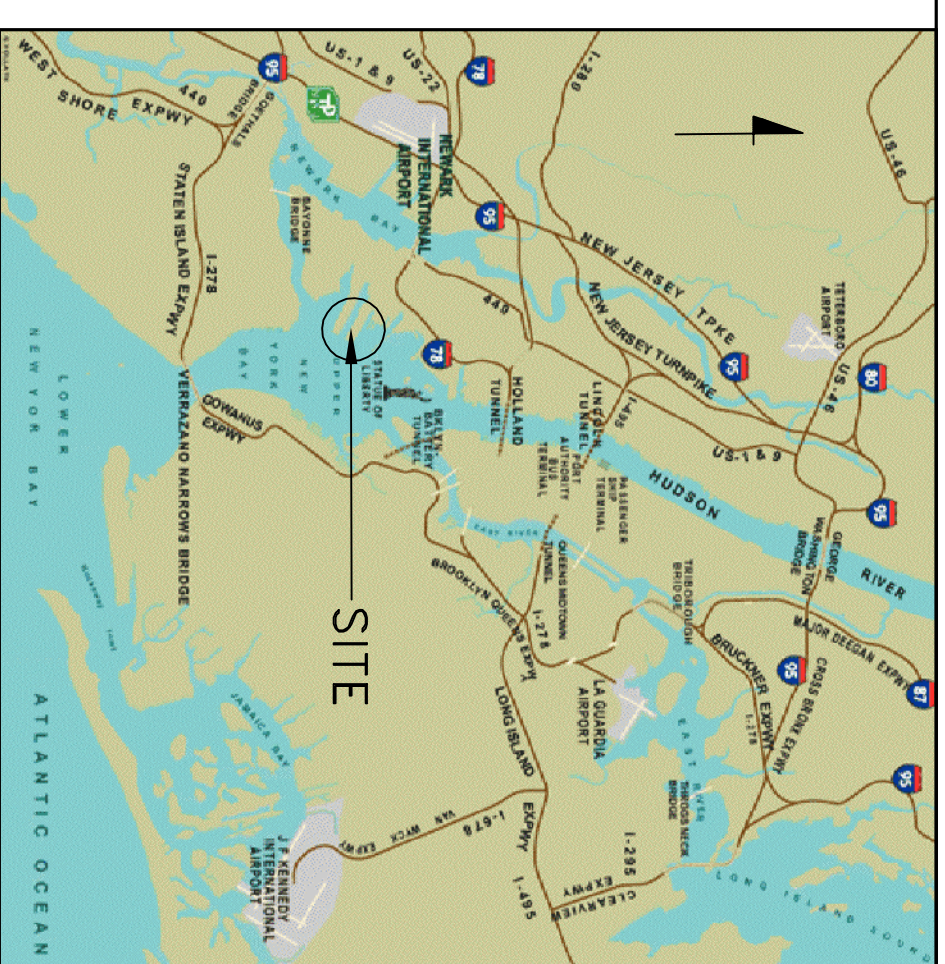
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- 1. INDEX
- 2. SHEETS 1 – 2



Vicinity Map

Rogers Surveying, P.L.L.C.
1632 Richmond Terrace, Staten Island, N.Y. 10310
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Title
PORT AUTHORITY
MOTBY

HYDROGRAPHIC
SURVEY AND BERTH
VOLUME
CALCULATIONS

No.	Date	Revision	Approved

VERTICAL CONTROL
 Mean Low Water = 2.33' Below 0.00 NGVD '29

HORIZONTAL CONTROL
 ALL COORDINATES, BEARING AND DISTANCES ARE REFERENCED TO THE NEW JERSEY PLANE COORDINATE SYSTEM (N.A.D. 83) AS SET FORTH IN N.J.S.A. 51:3-7

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Note:
 The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.

The Tide was monitored and recorded utilizing RTK GPS surveying techniques.

Equipment Used
 * Survey Vessel "Red Rogers"
 * Reson 7101 Multibeam Sonar
 * Trimble Pro Beacon Differential Signal Receiver
 * Applanix V4 POS/MV
 * Coastal Oceanographic Hydrographic Surveying Software

Volume Report
THE DATA USED FOR VOLUME CALCULATIONS IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS USED FOR VOLUME CALCULATIONS ARE ON A 3' X 3' GRID WITH THE DEPTH NEAREST TO THE CENTER USED.

Design Depth	Volume to Dredge Template	Volume of 2' Overdredge	Total Volume

Coordinates are expressed in feet and refer to the NEW JERSEY STATE PLANE (NAD 83) System.

Soundings refer to Mean Low Water as determined by U.S.A.C.E.

The Plane of Mean Low Water is 2.33 feet below Mean Sea Level (NGVD 29).

Scale: 1"=400'

NAV88 = 1.12
 NGVD29 = 0.0
 MLW (COE) = -2.3

I hereby certify to The Port Authority of New York and New Jersey that this map indicates the conditions existing as of the date indicated hereon to the best of my professional knowledge.

William A. Rogers, Jr., P.E., L.S.
 New Jersey State # 22254
 A.C.S.M. Certified Hydrographer # 151

Rogers Surveying RAK DWR
 Surveyed by Drawn by Checked by

Date 07/05/11 Scale 1"=400'
 Contract Number 410-10-037 Drawing Number 35396



Title

**PORT AUTHORITY
MOTBY DRY DOCK
SOUTH**

Sheet 2 of 7

**HYDROGRAPHIC
SURVEY AND BERTH
VOLUME
CALCULATIONS**

No.	Date	Revision	Approved

VERTICAL CONTROL
Mean Low Water = 2.33' Below 0.00 NGVD '29

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ESTIMATED WATER DEPTH AT MEAN LOW TIDE
THE PORT AUTHORITY MAKES NO REPRESENTATION
AS TO ACCURACY.

CALL (973) 578-2192 FOR SPECIFIC VESSEL
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The Plane of Mean Low Water is 2.3 feet below Mean Sea Level (NGVD 29).

NAVD88 1.12
NGVD29 0.0
MLW (COE) -2.3

Scale: 1"=80'

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Rogers Surveying RAK DWR
Surveyed by Drawn by Checked by

Date 07/05/11 Scale 1"=40'
Contract Number 410-10-037 Drawing Number 35396

William A. Rogers, Jr., P.E., L.S.
New Jersey State # 22254
A.C.S.M. Certified Hydrographer # 151



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ESTIMATED WATER DEPTH AT MEAN LOW TIDE
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Title
**PORT AUTHORITY
 MOTBY DRY DOCK
 SOUTH**
 Sheet 3 of 7
**HYDROGRAPHIC
 SURVEY AND BERTH
 VOLUME
 CALCULATIONS**

No.	Date	Revision	Approved

VERTICAL CONTROL
 Mean Low Water = 2.33' Below 0.00 NGVD '29

HORIZONTAL CONTROL
 ALL COORDINATES, BEARING AND
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 Surveyed by Drawn by Checked by
 Date 07/05/11 Scale 1"=400'
 Contract Number 410-10-037 Drawing Number 35396



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1682 Plutonium Turnover, Staten Island, N.Y. 10310
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www.rsgs.com



Title

**PORT AUTHORITY
MOTBY DRY DOCK
SOUTH**

Sheet 4 of 7

**HYDROGRAPHIC
SURVEY AND BERTH
VOLUME
CALCULATIONS**

No.	Date	Revision	Approved

VERTICAL CONTROL
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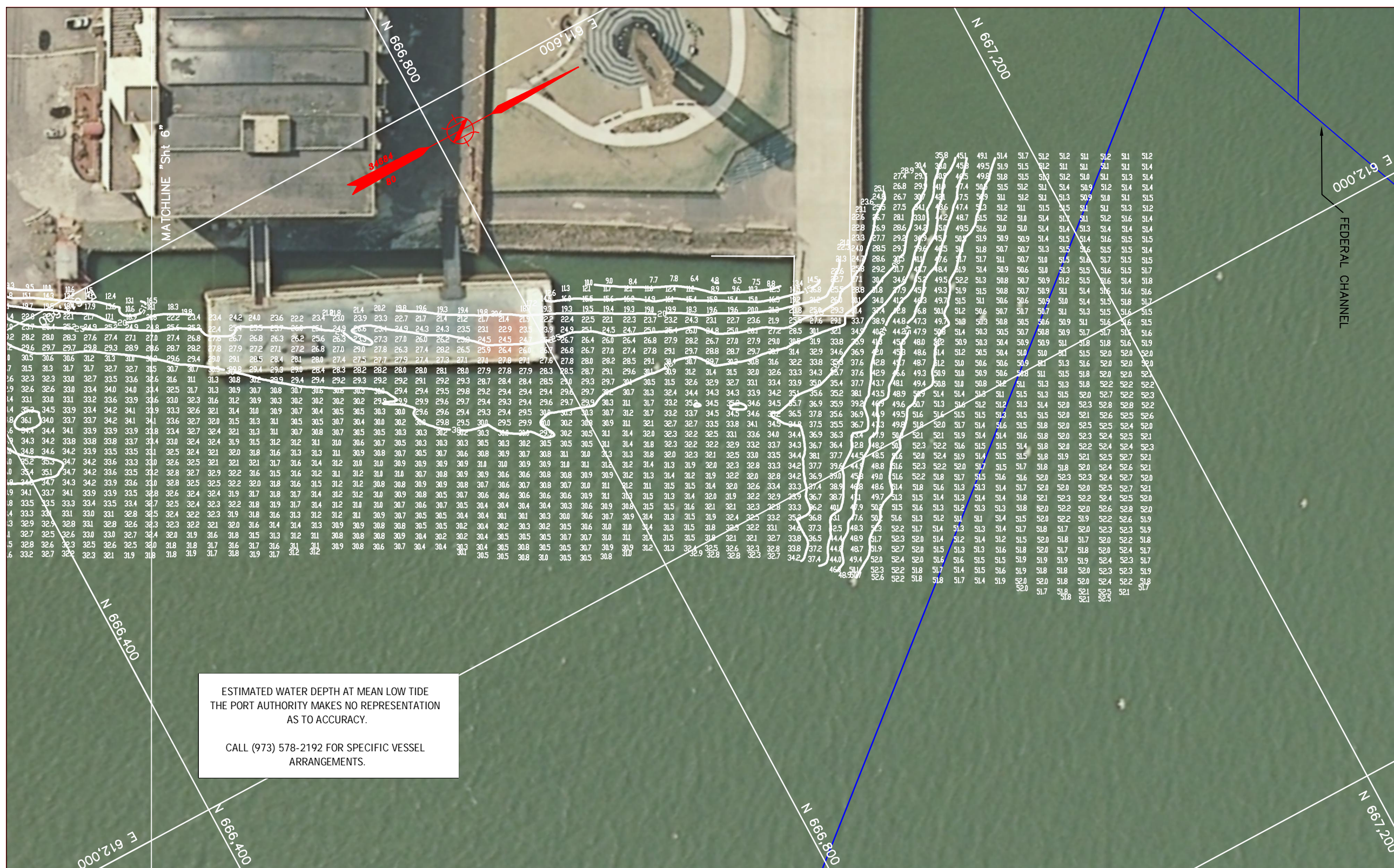
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New Jersey State # 22254
A.C.S.M. Certified Hydrographer # 151

Rogers Surveying RAK DWR
Surveyed by Drawn by Checked by

Date 07/05/11 Scale 1"=40'

Contract Number Drawing Number
410-10-037 35396



ESTIMATED WATER DEPTH AT MEAN LOW TIDE
THE PORT AUTHORITY MAKES NO REPRESENTATION
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Title
**PORT AUTHORITY
MOTBY DRY DOCK
EAST**

Sheet 7 of 7
**HYDROGRAPHIC
SURVEY AND BERTH
VOLUME
CALCULATIONS**

No.	Date	Revision	Approved

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