



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

CALL (973) 578-2192 FOR SPECIFIC VESSEL
ARRANGEMENTS.

PREPARED FOR
THE PORT AUTHORITY
OF NY & NJ

ROGERS SURVEYING, LLC
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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 DATA
IS REPRESENTATIVE OF A LARGER DATA SET. SOUNDINGS AND CONTOURS
SHOWN ARE FROM 8'X16" GRID NEAREST TO CENTER. COORDINATES REFER
TO THE NEW JERSEY MERCATOR SYSTEM (NAD 1983) SOUNDINGS REFER TO
THE PLANE OF MEAN LOW WATER THE PLANE OF MEAN LOW WATER IS 2.3
FEET BELOW NGVD (1929) THE SOUNDING DATA DEPICTED ON THIS MAP
WAS COLLECTED USING CLASS 2 SURVEY STANDARDS IN ACCORDANCE WITH
EM 1110 2 1003.
THIS SURVEY WAS COMPLETED USING THE FOLLOWING EQUIPMENT:
• Survey Vessel "Red Rogers"
• Reson 7101 Multibeam
• TSS 320 POS/MV.
• Coastal Oceanographics "HYPACK" 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'X3' GRID WITH THE DEPTH NEAREST TO THE CENTER USED.			
Design Depth	Volume to Dredge Template	Volume of 2' Over dredge	Total Volume
35'	85 yd3	434 yd3	519 yd3
38'	922 yd3	4,124 yd3	5,046 yd3
TOTAL	1,007 yd3	4,558 yd3	5,565 yd3

NOTE: BERTH LENGTHS, WIDTHS AND DEEP WATER BERTH DIMENSIONS FROM P.A. PORT DEPARTMENT.

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 2.3 feet below Mean Sea Level (NGVD 29).

NOTE:
This survey does not guarantee the absence or presence of any underwater
obstructions. Diver verification may be required.

NAVD88
3.42
NGVD29
2.30
MLW (N.O.A.A.)
0.87
MLW (COE)
& SURVEY
0.00

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

No. Date Revision Approved

VERTICAL CONTROL
Mean Low Water = 2.3' 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

This drawing subject to conditions in contract.
All inventions, ideas, designs and methods
herein are reserved to Port Authority and
may not be used without it's written consent.

Rogers Surveying BW DWR
Surveyed by Drawn by Checked by

Date Scale 1"= 80'
12/10/12-01/17/13
Contract Number Drawing Number
410-12-037 18 of 60
BERTH 18