

This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.
 Horizontal reference - NAD 83, New Jersey State Plane Zone 2900, U.S.Feet.
 Vertical reference - Mean Lower Low Water, which is 2.97' below NAVD 88.
 NOAA's Tidal Epoch-1983-2001

The information depicted on this map represent the results of surveys made on the dates indicated and can only be considered as indicating the general conditions existing at that time.
 The positions of the aids to navigation are provided for information only, and should not be used for navigation.

NOTE: Soundings were selected for plotting purposes only, using the minimum depth which would be required for safe navigation.
 Hypack Matrix program was used to perform the sounding selection.

Scale in Feet
 200 0 200 400 600

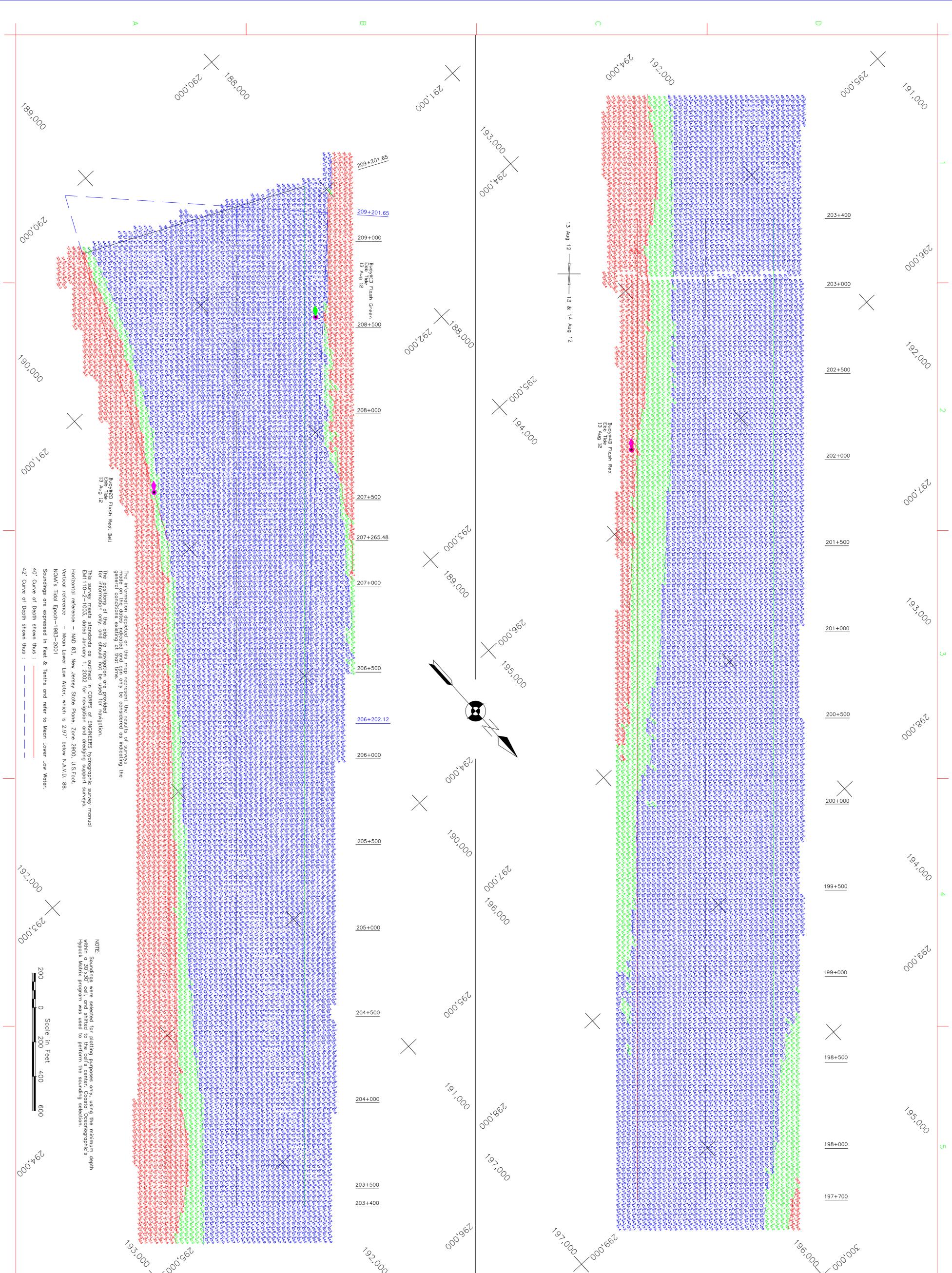
Sheet reference number:
 Sheet 1 of 2

DELAWARE RIVER
 PHILADELPHIA TO THE SEA
 DEEPWATER POINT RANGE
 EXAMINATION
 STA.186+331.88 TO STA.198+000

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev:
Traced by: J.A.Groch	Plotted by: M.Gaughan	Dwn by:	Ckd by:	IFB DACW61-
Surveyed by: G.Griffith	Date surveyed: as shown	Reviewed by:	Drawing code:	
	Approved: as shown	Submitted by:	File name:	08/22/2012
		Chief, Arch. Branch	Plot date:	08/22/2012
			Plot scale:	1in to 200 ft

Mark	Description	Date	Appr.	Mark	Description	Date	Appr.





The information depicted on this map represent the results of surveys made under the direction of the U.S. Army Corps of Engineers, Philadelphia District, and is intended for general conditions existing at that time. It is considered as indicating the positions of the aids to navigation, one provided for information only, and should not be used for navigation.

This survey meets standards as outlined in CORPS of ENGINEERS hydrographic survey manual EM1110-2-1003, dated January 1, 2002 for navigation and dredging support surveys.

Horizontal reference - NAD 83, New Jersey State Plane, Zone 2900, U.S. Foot.

Vertical reference - Mean Lower Low Water, which is 2.97' below N.A.V.D. 88.

NOMA's Tidal Epoch-1983-2001

Soundings are expressed in Feet & Tenths and refer to Mean Lower Low Water.

40' Curve of Depth shown thus : ————

42' Curve of Depth shown thus : - - - - -

NOTE: Soundings were selected for plotting purposes only, using the minimum depth within a 30'x30' cell, and shifted to the cell's center. Coastal Oceanographic's Hypack Matrix program was used to perform the sounding selection.



Sheet reference number:
Sheet 2 of 2

DELAWARE RIVER
PHILADELPHIA TO THE SEA
DEEPWATER POINT RANGE
EXAMINATION
STA.197+700 TO STA.209+201.65

U.S. ARMY ENGINEER DISTRICT, PHILADELPHIA CORPS OF ENGINEERS PHILADELPHIA, PENNSYLVANIA		Designed by:	Date:	Rev.
TRACED BY J.A.Groch	PLOTTED BY M.Gaughan	Dwn by:	Cld by:	IFB DACW61-
SURVEYED BY G.Griffith	DATE SURVEYED as shown	Reviewed by:	Drawing code:	
		Submitted by:	File name:	08/22/2012
		Chief, Arch. Branch	Plot scale:	1in to 200 ft

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