

Descriptive Report Summary to Accompany F00624	
Project	OPR-D934-OCS-12
Survey	F00624
State	Delaware
Locality	Delaware River and Bay
Sub Locality	Marcus Hook
Scale of Survey	1:10000
Sonars Used	R2 Sonic 2024
Horizontal Datum	North American Datum of 1983 (NAD83)
Vertical Datum	Mean Lower Low Water (MLLW)
Vertical Datum Correction	Verified Observed Tides
Projection	Latitude-Longitude (NAD83) - UTM Zone 18N
Field Unit	NRT2
Survey Dates	11/05/2012
Chief of Party	Erik H. Anderson

A. Area Surveyed

This hydrographic survey was acquired in accordance with the requirements defined in the Project Instruction OPR-D934-OCS-12.

Data was acquired within the following survey limits:

Northeast Limit	Southwest Limit
39 49 19.36 N	39 47 36.54 N
075 22 47.64 W	075 26 00.25 W

B. Survey Purpose

This survey was conducted in respond to USCG requests for hydrographic surveys to reopen the ports in Delaware River and Delaware Bay due to the effects of Hurricane SANDY. The survey limits and methods (i.e. sensors used) were determined by the USCG commander and NOAA Navigation Manager on-scene. Survey was intended to cover anchorage area at Marcus Hook, PA. Data was collected in the most efficient manner to provide USCG information that was critical to make real-time decisions on channel and/or port closures and openings.

C. Intended Use of Survey

Data is adequate to supersede prior data and is intended for chart compilation.¹

D. Data Acquisition and Processing

Please reference Data Acquisition and Processing Report <S_G901_NRT2_DAPR> for a complete description of data acquisition and processing systems, survey vessels, quality control procedures and data processing methods.

E. Results and Recommendations

The following are the largest scale RNC and ENC, which cover the survey area:

Chart	Scale	Edition	Edition Date	LNM Date	NM Date
12312	1:40000	56	May 2012	6/4/2013	6/15/2013
ENC	Scale	Edition	Update Application Date	Issue Date	Preliminary?
US5PA11M		21	6/22/2012	5/7/2013	No

Surface Name	Surface Type	Resolution	Depth Range	Surface Parameter	Purpose
Marcus_Hook_50cm_Final	MBES	50cm	5.46-17.49	CubeParams_NOAA.xml	Full Coverage

F. Vertical and Horizontal Control

The vertical datum for this project is Mean Lower Low Water. Discrete Zoning was the vertical control method used. The following National Water Level Observation Network (NWLON) stations served as datum control for this survey:

Station Name	Station ID
Marcus Hook, PA	8540433

The horizontal datum for this project is North American Datum of 1983 (NAD83). Differential GPS (DGPS) was the sole method of positioning. The following DGPS Stations were used for horizontal control:

DGPS Stations
Reedy Point, DE

G. Additional Results

The entire anchorage area was not surveyed due to time constraints and active dredging operations. The area surveyed is in general agreement with charted depths.

H. Approval

As Chief of Party, field operations for this hydrographic survey were conducted under my direct supervision, with frequent personal checks of progress and adequacy. I have reviewed the attached survey data and reports. All field sheets, this Survey Summary Report, and all accompanying records and data are approved. All records are forwarded for final review and processing to the Processing Branch.

The survey data meets or exceeds requirements as set forth in the NOS Hydrographic Surveys and Specifications Deliverables Manual, Field Procedures Manual, Standing and Letter

Instructions, and all HSD Technical Directives. These data are adequate to supersede charted data in their common areas. This survey is complete and no additional work is required with the exception of deficiencies noted in the Survey Summary Report.

Approver Name	Approver Title	Approval Date	Signature
Erik H. Anderson	Acting Team Lead	6/10/2013	ANDERSON .ERIK.HANS. 138863737 0

Digitally signed by ANDERSON.ERIK.HANS.1388637370
DN: c=US, o=U.S. Government, ou=DoD, ou=PKI, ou=OTHER, cn=ANDERSON.ERIK.HANS.1388637370
Date: 2013.06.10 13:21:06 Z

¹ Survey Acceptance Review determined that data do not meet specifications. With the exception of a surveyed 37 foot sounding in the Quarantine Anchorage area submitted to MCD via chart letter, data from F00624 will not be compiled to the chart.

APPROVAL PAGE

F00624

Data did not meet current specifications as determined by the OCS survey acceptance review process. The survey will not be applied to NOAA charting products.

The following products will be sent to NGDC for archive:

- F00624_DR_summary.pdf
- Processed survey data and records
- Collection of depth varied resolution BAGS

The survey evaluation and verification has been conducted according to current OCS specifications and procedures.

Approved: _____

Peter Holmberg

Cartographic Team Lead, Pacific Hydrographic Branch

The survey has not been approved for chart updates. The data will be archived at NGDC so that it can be made available for other uses.

Approved: _____

CDR David J Zezula, NOAA

Chief, Pacific Hydrographic Branch