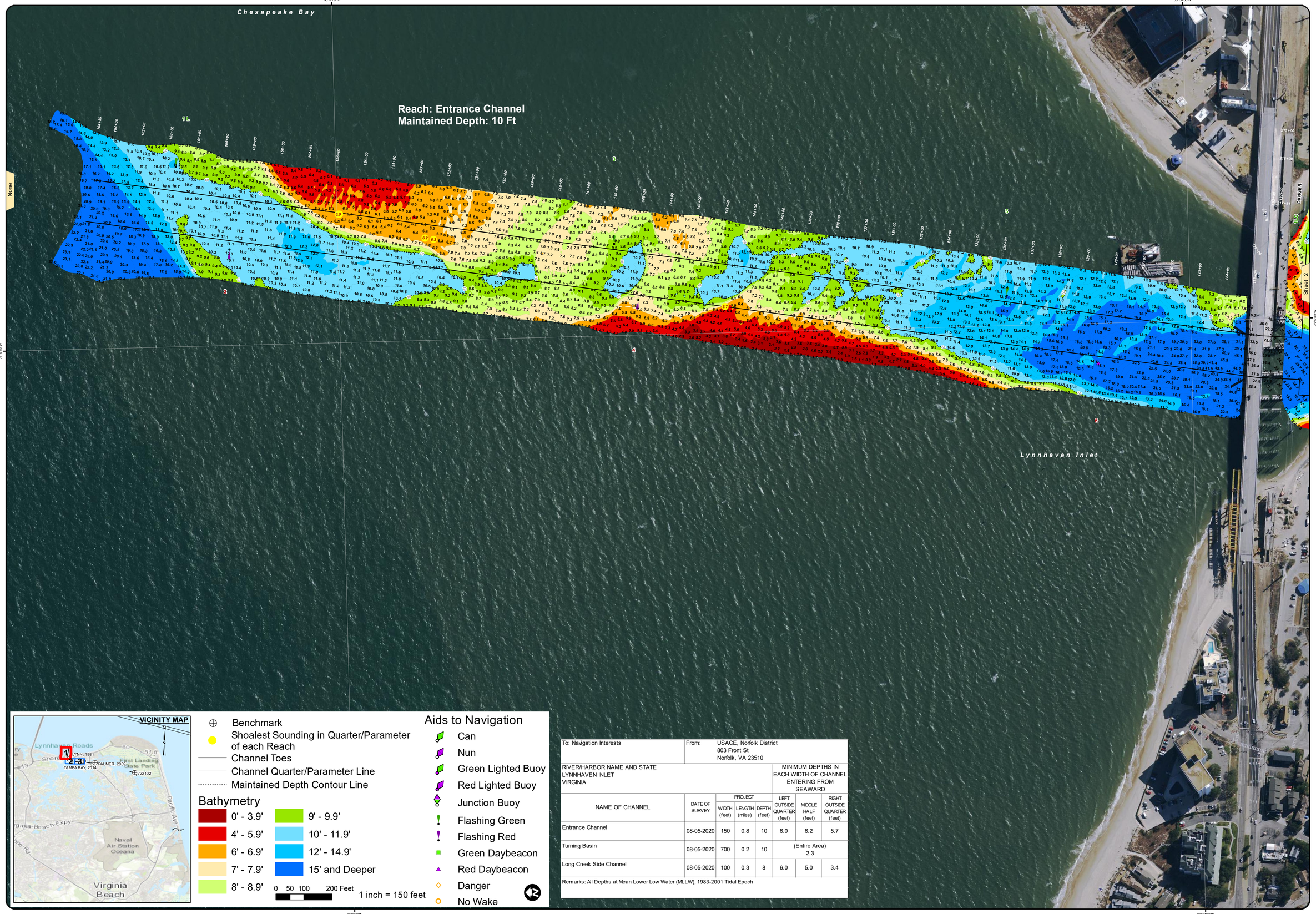


- Benchmark
- Shoalest Sounding in Quarter/Parameter of each Reach
- Channel Toes
- Channel Quarter/Parameter Line
- Maintained Depth Contour Line

Bathymetry

0' - 3.9'	9' - 9.9'
4' - 5.9'	10' - 11.9'
6' - 6.9'	12' - 14.9'
7' - 7.9'	15' and Deeper
8' - 8.9'	

0 50 100 200 Feet

1 inch = 150 feet

Aids to Navigation

- Can
- Nun
- Green Lighted Buoy
- Red Lighted Buoy
- Junction Buoy
- Flashing Green
- Flashing Red
- Green Daybeacon
- Red Daybeacon
- Danger
- No Wake

To: Navigation Interests		From: USACE, Norfolk District 803 Front St Norfolk, VA 23510					
RIVER/HARBOR NAME AND STATE LYNNHAVEN INLET VIRGINIA					MINIMUM DEPTHS IN EACH WIDTH OF CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	PROJECT			LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)			
Entrance Channel	08-05-2020	150	0.8	10	6.0	6.2	5.7
Turning Basin	08-05-2020	700	0.2	10	(Entire Area) 2.3		
Long Creek Side Channel	08-05-2020	100	0.3	8	6.0	5.0	3.4
Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch							

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: ENTRANCE CHANNEL MAINTAINED AT A DEPTH OF 10 FT AND WIDTH OF 150 FT, TURNING BASIN MAINTAINED AT A DEPTH OF 10 FT AND WIDTH OF 700 FT, LONG CREEK SIDE CHANNEL MAINTAINED AT A DEPTH OF 8 FT AND A WIDTH OF 100 FT, LYNNHAVEN INLET MAINTAINED AT A DEPTH OF 6 FT AND A WIDTH OF 90 FT, NARROWS CHANNEL MAINTAINED AT A DEPTH OF 6 FT AND A WIDTH OF 90 FT.
2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 25 FT RADIUS.
4. BACKGROUND: VGIN MOST RECENT IMAGERY GIS WEB SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
6. SURVEY XYZ & XYZ AND METADATA & MET FILE NAME REFERENCED BY HYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM/ELLIPSOID: NAD83 (NSRS 2011)
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
IMPLIED HORIZONTAL ACCURACY: +/- 1.0 FEET
HORIZONTAL CONTROL: RTK/LEICA SMARTNET

VERTICAL REFERENCE DATUM: NGS MLLW
VERTICAL DATUM: NGS 2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTK/LEICA SMARTNET
VERTICAL ELEVATION SYSTEM/EMM METHOD: REFRACTA V.2.0
BIN SIZE: MULTI-BEAM
BIN SELECTION METHOD: 5x5 AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	MEAN RANGE OF TIDE
'1983 8963 TIDAL 3, 1975'	25.13' (GEOID18)	2.55'
CE 'LYNN, 1981"	29.36'	2.22'
CE "TAMPA BAY, 2014"	24.29'	1.69'
CE "PALMER, 2009"	4.62'	3.32' (GEOID18)
CVB-722102"	4.29'	3.12' (GEOID18)
	4.98'	3.89' (GEOID18)

AREA
123+00 to 164+59
86+00 to 122+48
44+00 to 86+00
0+00 to 44+00
(Narrows) 300+06 to 330+74

LYNNHAVEN INLET

PROJECT CONDITION SURVEY

SURVEY DATES: August 5 & 6, 2020

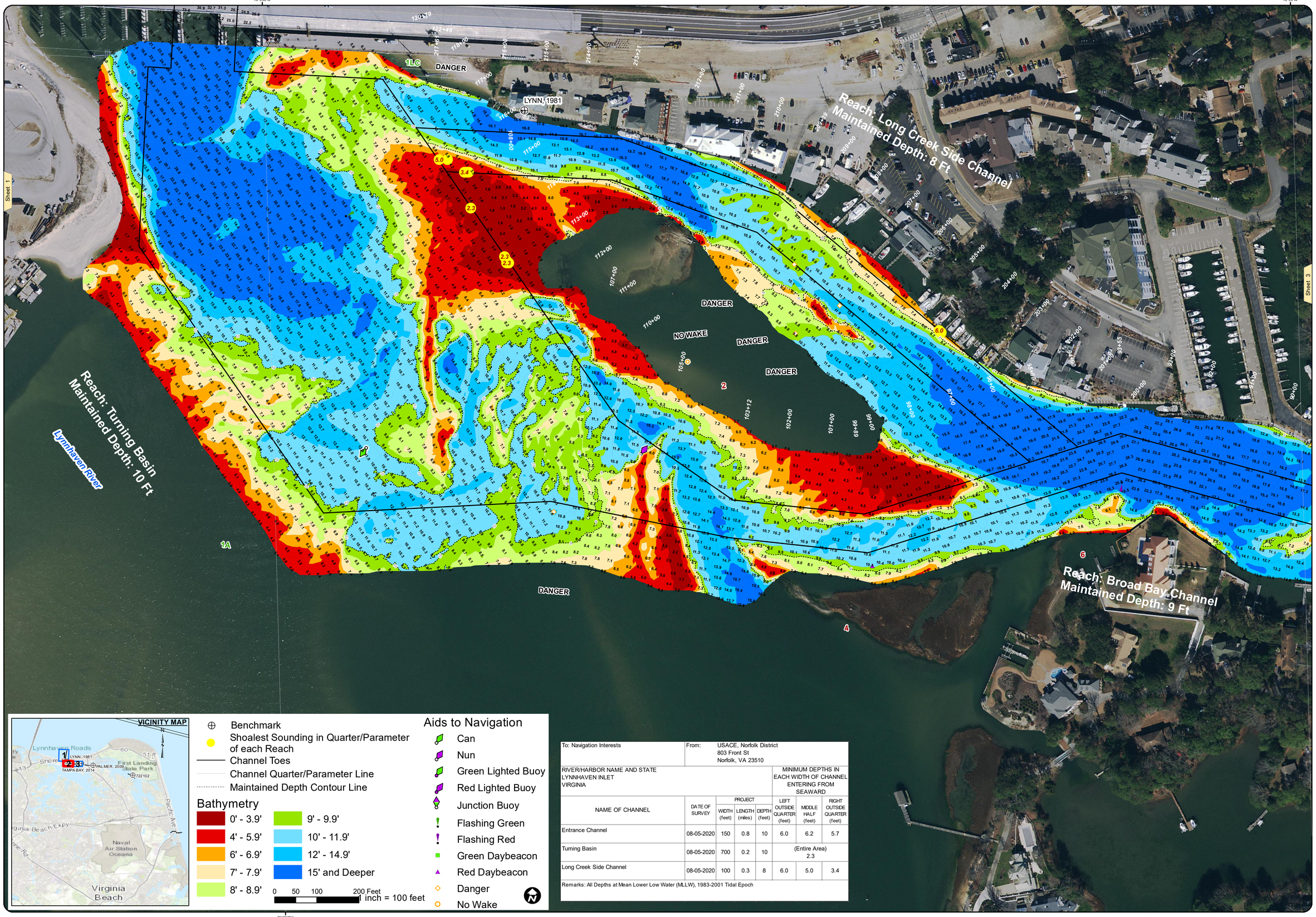
SURVEY BY: USACE Team Lead: Zachary Nelson

eHYDRO FILE: LY_01_LYN_20200805_CS

SHEET 1 of 3
Map Produced: 8/24/2020

APPROVED: Jeff Swallow — Digitally signed by Jeff Swallow, Date: 2020.08.27 06:08:17 -04'00'
Chief, Navigation Analysis Section

APPROVED: David M. Linn — Digitally signed by David M. Linn, Date: 2020.08.27 07:16:44 -04'00'
Chief, Navigation Support and Survey Section



To: Navigation Interests		From:	USACE, Norfolk District 803 Front St Norfolk, VA 23510					
RIVER/HARBOR NAME AND STATE LYNNHAVEN INLET VIRGINIA						MINIMUM DEPTHS IN EACH WIDTH OF CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	PROJECT				LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
		WIDTH (feet)	LENGTH (miles)	DEPTH (feet)				
Entrance Channel	08-05-2020	150	0.8	10		6.0	6.2	5.7
Turning Basin	08-05-2020	700	0.2	10		(Entire Area) 2.3		
Long Creek Side Channel	08-05-2020	100	0.3	8		6.0	5.0	3.4

Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: ENTRANCE CHANNEL MAINTAINED AT A DEPTH OF 10 FT AND WIDTH OF 150 FT, TURNING BASIN MAINTAINED AT A DEPTH OF 10 FT AND WIDTH OF 700 FT, LONG CREEK SIDE CHANNEL MAINTAINED AT A DEPTH OF 8 FT AND A WIDTH OF 100 FT, BROAD BAY CHANNEL MAINTAINED AT A DEPTH OF 9 FT AND A WIDTH OF 90 FT, NARROWS CHANNEL MAINTAINED AT A DEPTH OF 6 FT AND A WIDTH OF 90 FT.
2. NOT FOR NAVIGATION USE. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF SURVEYS MADE ON THE DATE(S) INDICATED & CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITIONS EXISTING AT THAT TIME.
3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 25 FT RADIUS.
4. BACKGROUND: VGIN MOST RECENT IMAGERY GIS WEB SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
6. SURVEY XYZ + XYZ AND METADATA + MET FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
DATUM NAME: NAD83
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
ELLIPSOIDAL HORIZONTAL ACCURACY: +/- 1.5 FEET
HORIZONTAL CONTROL: RTK/LEICA SMARTNET

VERTICAL REFERENCE DATUM: NOS MLLW
TIDAL EPOCH: 1983-2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTK/LEICA SMARTNET
TIDE ZONE: NOAA VERTUM MDL
SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5x5
DATA COLLECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88
1983 8983 TIDAL 3, 1975'	26.96'	25.13' (GEOID18)
CE "LYNN, 1981"	26.95'	5.81' (GEOID18)
CE "TAMPA BAY, 2014"	7.42'	3.32' (GEOID18)
CE "PALMER, 2009"	4.82'	3.12' (GEOID18)
CVB-722102"	4.29'	3.88' (GEOID18)

AREA	MEAN RANGE OF TIDE
123+00 to 164+59	2.55'
86+00 to 122+48	2.22'
44+00 to 86+00	1.68'
0+00 to 44+00	1.38'
(Narrows) 300+00 to 330+71	1.41'

LYNNHAVEN INLET
PROJECT CONDITION SURVEY

SURVEY DATES:
August 5 & 6, 2020

SURVEY BY: USACE Team Lead: Zachary Nelson

eHYDRO FILE: LY_01_LYN_20200805_CS

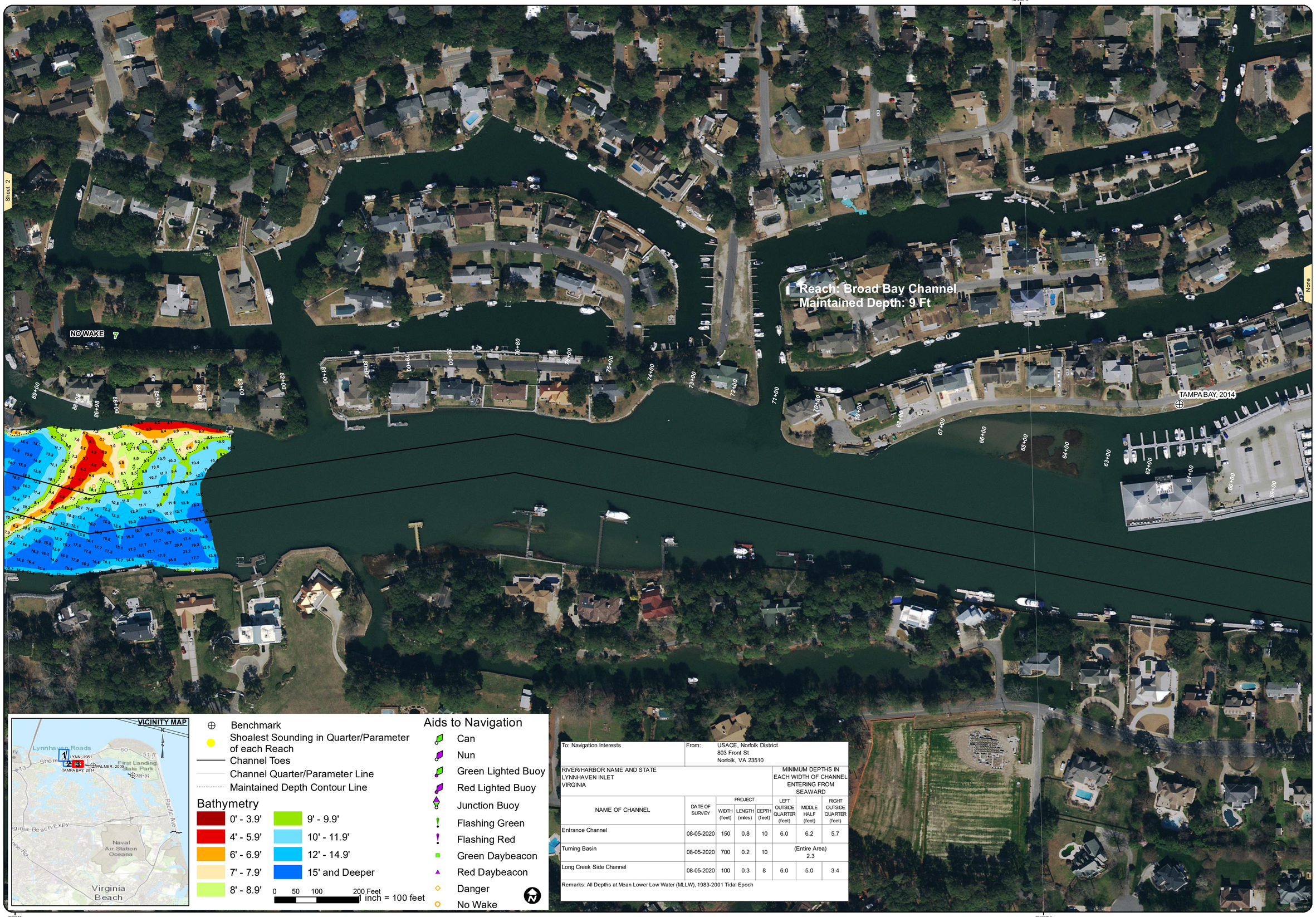
SHEET 2 of 3
Map Produced: 8/24/2020

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section



To: Navigation Interests	From:	USACE, Norfolk District 803 Front St Norfolk, VA 23510					
RIVER/HARBOR NAME AND STATE LYNNHAVEN INLET VIRGINIA					MINIMUM DEPTHS IN EACH WIDTH OF CHANNEL ENTERING FROM SEAWARD		
NAME OF CHANNEL	DATE OF SURVEY	PROJECT WIDTH (feet)	PROJECT LENGTH (miles)	PROJECT DEPTH (feet)	LEFT OUTSIDE QUARTER (feet)	MIDDLE HALF (feet)	RIGHT OUTSIDE QUARTER (feet)
Entrance Channel	08-05-2020	150	0.8	10	6.0	6.2	5.7
Turning Basin	08-05-2020	700	0.2	10	(Entire Area) 2.3		
Long Creek Side Channel	08-05-2020	100	0.3	8	6.0	5.0	3.4

Remarks: All Depths at Mean Lower Low Water (MLLW), 1983-2001 Tidal Epoch

US Army Corps of Engineers
Norfolk District

NOTES:

1. PROJECT: ENTRANCE CHANNEL MAINTAINED AT A DEPTH OF 10 FT AND WIDTH OF 150 FT, TURNING BASIN MAINTAINED AT A DEPTH OF 10 FT AND WIDTH OF 700 FT, LONG CREEK SIDE CHANNEL MAINTAINED AT A DEPTH OF 8 FT AND A WIDTH OF 100 FT, BROAD BAY CHANNEL MAINTAINED AT A DEPTH OF 9 FT AND A WIDTH OF 90 FT, NARROWS CHANNEL MAINTAINED AT A DEPTH OF 6 FT AND A WIDTH OF 90 FT.
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3. SOUNDINGS: SHOWN IN FEET CENTERED ON POINT OF SHOALEST DEPTH IN 25 FT RADIUS.
4. BACKGROUND: VGIN MOST RECENT IMAGERY GIS WEB SERVICE.
5. AIDS TO NAVIGATION LOCATED WITH SURVEY VESSEL +/- 10 FEET ON DATE OF SURVEY.
6. SURVEY XYZ & XYZ AND METADATA & MET FILE NAME REFERENCED BY eHYDRO FILE NAME.

PROJECTED COORDINATE SYSTEM: STATE PLANE
VERTICAL DATUM: MLLW
HORIZONTAL ZONE: VIRGINIA SOUTH ZONE
PROJECTED COORDINATE UNITS: US SURVEY FEET
VERTICAL COORDINATE UNITS: US SURVEY FEET
HORIZONTAL CONTROL: RTKLEICA SMARTNET

VERTICAL REFERENCE DATUM: NOS MLLW
VERTICAL DATUM: NOS 2001
IMPLIED VERTICAL ACCURACY: +/- 0.5 FEET
VERTICAL CONTROL: RTKLEICA SMARTNET
VERTICAL DATUM TRANSFORMATION SYSTEM/METHOD: MULTI-BEAM
BIN SIZE: 5x5
BIN SELECTION METHOD: AVERAGE CELL CENTER

GEODETIC CONTROL MONUMENTS

MONUMENT	MLLW	NAVD88
'983 8963 TIDAL 3, 1975'	26.36'	25.13' (GEOID18)
CE 'LYNN, 1981'	26.30'	25.20' (GEOID18)
CE TAMPA BAY, 2014'	4.82'	3.32' (GEOID18)
CE 'PALMER, 2009'	4.29'	3.12' (GEOID18)
CVB 7722102'	4.98'	3.89' (GEOID18)

MEAN RANGE OF TIDE

AREA	
123+00 to 164+59	2.55'
86+00 to 122+48	2.22'
44+00 to 86+00	1.68'
0+00 to 44+00	1.38'
(Narrows) 300+06 to 330+74	1.41'

LYNNHAVEN INLET
PROJECT CONDITION SURVEY

SURVEY DATES:
August 5 & 6, 2020

SURVEY BY: USACE Team Lead: Zachary Nelson
eHYDRO FILE: LY_05_LYN_20200805_CS

SHEET 3 of 3
Map Produced: 8/24/2020

APPROVED:

Chief, Navigation Analysis Section

APPROVED:

Chief, Navigation Support and Survey Section