NOTE B

Numerous floating moorings (Navy) are located in these areas.

STACK (3 Fl R Lts)

Shipyard Creek

RESTRICTED AREA
334.460
(see note A)

Under construction (2012)

STACK Dols
(SE OF TWO)

TANK

UPPER CHANNEL

Subm dols
23 ft 2004
Subm dols

23 ft rep 2009

25 ft rep 1997

Dols

LOWER CHANNEL

TURNING BASIN
30 FT 2018

39 FT 2014

Dolphins

Ramp
(see note B)

Fl G 2.5
5M "49A"

Fl Y 4s Priv

Fl Y 2.5s
Priv

Degaussing
22 Mkr

Obstn

CLOUTER CREEK RANGE

Piles

R "48A"
Q R

bk Sh
Pile

RESTRICTED AREA
334.470
(see note A)

Cable Area

Fl 4s 21ft 5M

Q G 12ft

Bkw

Obstn

Obstn Area
(15 FT)

Fl 4s 4 ft
Priv

Fl R 4s 16ft
5M "4"

Fl R 4s 12ft
5M "2"

Fl 2.5s 4ft
Priv 38

Sewer

Fl G 4s 22ft
5M "47"

Pile

Dike

Pipeline Area

"48"
R 4s

R "46"
Fl R 4s

Fl (2+1) G 6s
12ft 5M "D"

G "7"
Fl G 4s

R "44"
Fl R 6s

DRUM ISLAND

Subm

Marsh

Myers

STACK

U.S. Army Corps of Engineers
Charleston District

Production Notes:

In no event shall the U.S. Army Corps of Engineers, Charleston District Office, Spatial Data Branch be liable for direct, indirect, special, incidental, consequential, or other damages including but not limited to, loss of anticipated profits or benefits arising out of use or inability to use these data.
These data sets have been developed from the best available source data and are subject to change. Every effort has been made to assure the accuracy and reliability of these data. However, these data sets are accurate and reliable, errors and variable conditions may exist in the data supplied.
These data sets are not to be used for navigation.
Mariners are encouraged to use all prudent safety measures.

Feet
0 125 250 500 750 1,000

N

Depth in feet
Exposed
0.1 to under 30.0
30.1 to 40.0
40.1 to 50.0
50.1 to 72.0
Greater than 72.0

USCG Buoys
Safe Water
Red
White
Preferred Navigation Channel
Left TOC Line
Right TOC Line
Other Channel
Wreck-Submerged
USCG Light
Coast Guard Base
Legend
Sediment - Bearing
Rock
Sand
Mud
Boundary may cover several areas, see chart for per-month boundary area
Other Features
Obstruction
Wreck-Submerged
Range Line
Centerline
Trust Centerline

U.S. ARMY ENGINEER DISTRICT CORPS OF ENGINEERS CHARLESTON, SOUTH CAROLINA	Designed By: eHydro Software v3.82	Survey Date: 18 MAY 2021 – 18 MAY 2021
	Reviewed By: CESAC	Production Date: 24 MAY 2021
	Approved By: CESAC	Abacus Scale: 1:4,998
		Project Reference Number: CESAC-PM-21-0010
SPATIAL DATA BRANCH 69A HAGOOD AVE CHARLESTON, SC 29403	Reference Scale: 1 inch = 349 feet	Survey Type: CONDITION
CESAC-GIS@USACE.ARMY.MIL	Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet	

Charleston Upper Harbor Channel Survey
The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered to represent the general conditions existing at that time.
Concluded on: **18 MAY 2021**
Charleston, South Carolina

SHEET REFERENCE NUMBER
C002
SHEET 1 OF 5

Piles
C
39
26
23
28
25
24
D
F
14
19
Dry dock
f S
19 15 8
R "52A"
Fl R 6s
19
2
1
4
21
2
Cable and
Pipeline
Area
21
1
Obstn
G
25
41
26
H
9
27
38
38
J
8
15
Piles
Dry docks
Dol
K
14
L
Z
M
N
P
Q
R
S
T
U
V
W
X
RESTRICTED AREA
334.460
(see note A)
M
24
2 F G
5ft PA
41
21
F G 5ft PA
15
22
20
39
F Bu
F Bu
F Bu
41
34
35
31
29
27
17
F Bu 7ft
PA
41
23
19
12
2 F G 5ft
PA
2 F G 5ft PA
44
17
32 FT JUN 2013
35
2 F G 5ft PA
M "A"
Fl Y 2.5s
Priv
13
15
Fl Y 2.5s "B"
Priv
20
10
16
11
Obstn
17
9
35
15
9
38
17
23
15
32
Obstn
8
M
4
7
Ramp
(see note B)
10
5
8
Fl G 2.5
5M "49A"
Fl Y 4s Priv
Fl Y 2.5s
Priv
S
10
7
R "48A"
Q R
11
1
bk Sh
Pile
14
1/2
7
21
2
2
7
1/2
1
8
Y
Q
Y
9
2
14
4
Fl Y
Fl 4s 21ft 5M
Cable
Area
Q G 12ft
Bkw
RESTRICTED AREA
334.470
(see note A)
NOTE B
Numerous floating moorings (Navy)
are located in these areas.
STACK (3 Fl R Lts)
Shipyard Creek
RESTRICTED AREA
334.460
(see note A)
Under
construction
(2012)
STACK Dols
(SE OF TWO)
TANK
UPPER CHANNEL
Subm dols
23 ft 2004
Subm dols
Wk
2
ERR
OVHD PWR CAB
AUTH CL 86 FT
5½ FT
6 FT
C R E E K
Beresford Cr
Marsh
5 FT
5 FT
Dol
9
10
9
4
Cable Area
Sign
1
1
2
1
3
1
1/2
1
1
Pile
3
9
3
1
1
3
7
5
1
2
3
2
11
13
6
5
3
5
7
8
5
12
10
4
5
3
7
9
13
11
28
16
14
15
2
5
5
7
2
Piles
18
Subm
pile
23
21
27
R "50"
Fl R 2.5s
6
22
bk Sh
21
25
24
1
Piles
4
8
1
Piles
4
1
1
DANIEL ISLAND RANGE
Iso 6s 38ft
Q 16ft
Piles
Degaussing
Mkr
Iso 6s 38ft
CLOUTER CREEK RANGE
Q 22ft
Degaussing
22 Mkr
Piles
28 15
Obstn
5 2
11 16
Piles
3
R "52"
Fl R 4s
8
12
10
4
5
3
7
9
13
11
6
5
3
1
2
1
1
Sign
1
1
2
1
3
1
1/2
1
1
Pile
3
9
3
1
1
3
7
5
1
2
3
2
11
13
6
5
3
5
7
8
5
12
10
4
5
3
7
9
13
11
28
16
14
15
2
5
5
7
2
Piles
18
Subm
pile
23
21
27
R "50A"
Fl R 4s
17
6
22
bk Sh
21
25
24
1
Piles
4
8
1
Piles
4
1
1
DANIEL ISLAND RANGE
Iso 6s 38ft
Q 16ft
Piles
Degaussing
Mkr
Iso 6s 38ft
CLOUTER CREEK RANGE
Q 22ft
Degaussing
22 Mkr
Piles
28 15
Obstn
5 2
11 16
Piles
3
NOTE B
Numerous floating moorings (Navy)
are located in these areas.
STACK (3 Fl R Lts)
Shipyard Creek
RESTRICTED AREA
334.460
(see note A)
Under
construction
(2012)
STACK Dols
(SE OF TWO)
TANK
UPPER CHANNEL
Subm dols
23 ft 2004
Subm dols
Wk
2
ERR
OVHD PWR CAB
AUTH CL 86 FT
5½ FT
6 FT
C R E E K
Beresford Cr
Marsh
5 FT
5 FT
Dol
9
10
9
4
Cable Area
Sign
1
1
2
1
3
1
1/2
1
1
Pile
3
9
3
1
1
3
7
5
1
2
3
2
11
13
6
5
3
5
7
8
5
12
10
4
5
3
7
9
13
11
28
16
14
15
2
5
5
7
2
Piles
18
Subm
pile
23
21
27
R "50"
Fl R 2.5s
6
22
bk Sh
21
25
24
1
Piles
4
8
1
Piles
4
1
1
DANIEL ISLAND RANGE
Iso 6s 38ft
Q 16ft
Piles
Degaussing
Mkr
Iso 6s 38ft
CLOUTER CREEK RANGE
Q 22ft
Degaussing
22 Mkr
Piles
28 15
Obstn
5 2
11 16
Piles
3
RESTRICTED AREA
334.470
(see note A)

U.S. Army Corps of Engineers
Charleston District

Production Notes:
In no event shall the U.S. Army Corps of Engineers, Charleston District Office, Spatial Data Branch be liable for direct, indirect, incidental, special, consequential or punitive damages including, but not limited to, loss of anticipated profits or benefits arising out of the use of these data sets.
These data sets have been developed from the best available source data. The Corps of Engineers does not warrant that these datasets are accurate and reliable, errors and variable conditions may exist in the data supplied. Data sets are subject to change as reflected in the data supplied.
These data sets are not intended to be used for navigation. Mariners are encouraged to use all prudent safety measures.

Feet
0 125 250 500 750 1,000
N

Depth in feet
Under 30.0
30.1 to 48.0
48.1 to 60.0
60.1 to 72.0
Greater than 72.0

USCG Buoys
Preferred Channel
Junction
Obstruction
Isolated Danger
Safe Water
Special Mark
Cardinal
Port
Starboard
Range
Fixed
Flashing
Quick Flashing
Occulting
Isophase
Morse (A)
Group Flashing
Group Occulting
Fl (2+1)
Fl (3)
Fl (4)
Fl (5)
Fl (2)
Fl (3)
Fl (4)
Fl (5)
Red
White
Green
Yellow
Right-TOC Line
Left-TOC Line
USCG Light
Coast Guard Base
Coast Guard Station
Wreck-Submerged
Wreck-Exposed
Rock-Submerged
Rock-Awash
Rock-Exposed
Shoal
Kelp
Legend
Seabed Sounding
Soundings may not be charted at every survey point and may be charted at less than one per chart's quarter inch
Obstruction Features
USCG Buoys
Wreck-Submerged

Production Date: 24 MAY 2021
Survey Date: 18 MAY 2021
Project Number: CESAC-RPM-2010
Designed By: eHydro Software v.v3.82
Reviewed By: CORPS
Absolute Scale: 1:4,188
Survey Type: CONDITION
Reference Scale: 1 inch = 349 feet
Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403
CESAC-GIS@USACE.ARMY.MIL

Charleston Upper Harbor Channel Survey
The information depicted on this map represents the results of surveys made on the dates indicated and can only be relied upon as to the general conditions existing at that time.
Concluded on: **18 MAY 2021**
Charleston, South Carolina

SHEET REFERENCE NUMBER
C002
SHEET 2 OF 5

North Charleston

Charleston Heights

Noisette Cr

Marsh

ELEC Ry

Ruins

Dols

Pile

Piles

Dolphins

Dry dock

Dry docks

Dol

Obstn

Sign

Dam

Cable and Pipeline Area

Cable Area

OVHD PWR CAB AUTH CL 31 FT

OVHD PW AUTH CL

RESTRICTED AREA
334.460
(see note A)

RESTRICTED AREA
334.460
(see note A)

2 F G 15ft PA

TANK

TANK

TANK

2 F G 15ft PA

31 FT 2013

R "54A"
Fl R 4s

G "55"
Fl G 4s

R "54"
Fl R 2.5s

B
Bkw
Fl G 2.5s 18ft 5M "53"

R "52A"
Fl R 6s

R "52"
Fl R 4s

R "50A"
Fl R 4s

R TR
(WNCG)
910 kHz

TANK

STACK

STACK

RADIO TOWER

SPIRE

2 F G 5ft PA

F Bu

F Bu

F Bu 7ft PA

2 F G 5ft PA

2 F G 5ft PA

PA

PA

PA

C

D

F

G

H

J

K

L

M

Z

undings (MLLW)	
	Mean Low Water
	feet
	0.2
	0.2
	0.2

ime water levels,
nts.noaa.gov.

U.S. Army Corps of Engineers
Charleston District

Production Notes:

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Mariners are encouraged to use all prudent safety measures.

Legend
Shoalest Sounding
Deepest Sounding
Sounding may cover charted features or extend between charted features
Obstruction
Wreck

Depth in feet
USCG Buoys
Color
Shape
Fixed Navigation Channel
USCG Light
Coast Guard Base
USCG Buoy
Color
Shape
Fixed Navigation Channel
USCG Light
Coast Guard Base

Feet
0 125 250 500 750 1,000

N

Charleston Upper Harbor Channel Survey
The information depicted on this map represents the results of surveys made on the dates indicated and can only be relied upon as a representation of general conditions existing at that time.
Concluded on: **18 MAY 2021**
Charleston, South Carolina

Designed By: ehrytko Software v3.82	Survey Date: 18 MAY 2021
Reviewed By:	Production Date: 24 MAY 2021
Approved By:	Approx. Scale: 1:4,188
Reference Scale: 1 inch = 349 feet	Project Number: DSET-CHARLA0101
Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet	Survey Type: CONDITION

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403

CESAC-GIS@USACE.ARMY.MIL

SHEET REFERENCE NUMBER
C002
SHEET 3 OF 5

PORT TERMINAL

ELEV

TANK

ELEVATOR

NOTE C
OVERHEAD CABLE CLEARANCES

Ⓐ OVHD PWR CABS CL 163 FT REP

Ⓑ OVHD PWR CABS CL 182 FT REP

Ⓒ OVHD PWR CABS CL 166 FT REP

Ⓓ OVHD PWR CABS CL 104 FT REP

OVHD PWR CABS

Dols

Marsh

Ditch

Filbin Cr

CSX RR

(see note C)

TR

Foul

R "58"
Fl R 2.5s

SECURITY ZONE 165.709
(see note A)

G "5"

R "56B"

(see note C)

FIXED BRIDGE
HOR CL 700 FT
VERT CL 155 FT

Dolphins

40 FT JUL 2011

R "56A"

R "56"
Fl R 6s

2 F G 15ft PA

31 FT 2013

TANK

TANK

TANK

2 F G 15ft PA

Ruins

R "54A"
Fl R 4s

ELEC Cy

Dols

RESTRICTED AREA
334.460
(see note A)

G "55"
Fl G 4s

OVHD PWR CAB
AUTH CL 31 FT

R TR
(WNCG)
910 kHz

Marsh

Pile

R "54"
Fl R 2.5s

North Charleston

Fl R 4s

MAGNETIC

VAR 7°45'W (2015)

ANNUAL INCREASE 4'

Dam

Dam

FIXED
HOR
VERT

Post

PA

PA

undings (MLLW)

Mean Low Water
feet
0.2
0.2
0.2

ime water levels,
nts.noaa.gov.

U.S. Army Corps of Engineers
Charleston District

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These data sets have been developed from the best available source data and are subject to change without notice. While these datasets are accurate and reliable, errors and variable conditions exist within all spatial data. Users are cautioned to examine the data carefully in the data supplied.
These data are not intended to be used for navigation.
Mariners are encouraged to use all prudent safety measures.

Production Notes:
1. Data was collected under the direction of the Charleston District Office.
2. Survey conducted by the Corps of Engineers Navigation Section.
3. Soundings are in feet and tenths referenced to Mean Lower Low Water (MLLW).
4. Map version 11Q4

Depth in feet: Less than 30.0; 30.1 to 40.0; 40.1 to 45.0; 45.1 to 47.0; Greater than 47.0

USCG Buoys: Green, Red, White, Yellow; Preferred Navigation Channel: Right TOC Line, Left TOC Line; USCG Light, Coast Guard Beacon

Legend: Station Sounding, Dredging, Sounding may cover several days, Soundings taken in part each quarter area, Obstruction, Wreck, Obstruction, Wreck-Submerged, Coast Guard Beacon, Trust Centerline

Survey Date: 18 MAY 2021 - 18 MAY 2021
Production Date: 24 MAY 2021
Project Reference Number: CESAC-ED-HA-2021
Survey Type: CONDITION
Designed By: eHydro Software v3.82
Reviewed By: CESAC-GIS
Process Scale: 1:4,488
Reference Scale: 1 inch = 349 feet
Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403
CESAC-GIS@USACE.ARMY.MIL

Charleston Upper Harbor Channel Survey
The information depicted on this map represents the results of surveys made on the dates indicated and can only be considered accurate to the general conditions existing at that time.
Concluded on: **18 MAY 2021**
Charleston, South Carolina

SHEET REFERENCE NUMBER
C002

SHEET 4 OF 5

0,000
Miles
1
1½
1500
2000
2500
1500
2000
2500
Piling
Piling
Piling
FIXED BRIDGE
Marsh
Cable Area
RESTRICTED AREA
334.460
(see note A)
SECURITY ZONE
165.709
(see note A)
Dols
Dols
Ramp
Sign
Obstn
2 Fl Y 4s
Priv
36½ FT 2011-2012
RANGE "A"
R "64"
Fl R 2.5s
M 14
Fl R 2.5s
Q G 15
ELEVATOR
Marsh
Iso G 6s 23ft
Subm
dols
Sign
Fl R 4s
PORT TERMINAL
ELEV
TANK
ELEVATOR
NOTE C
OVERHEAD CABLE CLEARANCES
Ⓐ OVHD PWR CABS CL 163 FT REP
Ⓑ OVHD PWR CABS CL 182 FT REP
Ⓒ OVHD PWR CABS CL 166 FT REP
Ⓓ OVHD PWR CABS CL 104 FT REP
OVHD PWR CABS
Dols
Marsh
Ditch
Filbin Creek
Foul
(see note C)
TR
R "58"
Fl R 2.5s
SECURITY ZONE 165.709
(see note A)
R
N "56B"
C "5"
G
(see note C)
TR
TR
TR
TR
TR
Dolphins
FIXED BRIDGE
Post
RIVER
MAGNETIC
VAR 7°45'W (2015)
ANNUAL INCREASE 4'
0
30
60
90
120
150
180
210
240
270
300
330

U.S. Army Corps of Engineers
Charleston District

Production Notes:
1. Data depicted on this product is for planning purposes only. Field verification should be used.
2. Area surveys conducted by the Charleston District Operations Division.
3. Soundings are in feet and tenths referenced to Mean Lower Low Water (MLLW).
4. Aids to Navigation are USCG Light List and Local Notice to Mariners.

In no event shall the U.S. Army Corps of Engineers, Charleston District Office, Spatial Data Branch be liable for direct, indirect, special, incidental, consequential damages including, but not limited to, loss of anticipated profits or benefits arising out of the use of these data sets.
These data sets have been developed from the best available source data and are subject to change. Every effort is made to ensure that data sets are accurate and reliable, errors and variable conditions do exist. Individuals using these data sets should verify the information reflected in the data supplied.
These data sets are not intended to be used for navigation.
Mariners are encouraged to use all prudent safety measures.

N

Feet
0
125
250
500
750
1,000

Depth in feet
0 to 1 foot
1.1 to 6.0
6.1 to 18.0
18.1 to 30.0
30.1 to 60.0
60.1 to 90.0
90.1 to 120.0
Greater than 120.0

USCG Buoys
Black
Red
White
Yellow
Preferred Navigation Channel
Right TOC Line
Left TOC Line
USCG Light
Coast Guard Buoys
Legend
Sites - Sounding
Sounding may count several times if located in more than one channel or anchorage area
Obstruction
Wreck-Submerged
Coast Guard Buoys
True Centerline

Designed By: eHydro Software v3.82	Survey Date: 18 MAY 2021 - 24 MAY 2021	Production Date: 24 MAY 2021	
Reviewed By: [illegible]	Absolute Scale: 1:4,168	Project Number: P364_CHSPRA2021	
Reference Scale: 1 inch = 349 feet		Survey Type: CONDITION	
Projection: NAD 1983 StatePlane South Carolina FIPS 3900 Feet			

U.S. ARMY ENGINEER DISTRICT
CORPS OF ENGINEERS
CHARLESTON, SOUTH CAROLINA

SPATIAL DATA BRANCH
69A HAGOOD AVE
CHARLESTON, SC 29403
CESAC-GIS@USACE.ARMY.MIL

Charleston Upper Harbor Channel Survey
The information depicted on this map represents the results of surveys made on the dates indicated and can only be relied upon to show general conditions existing at that time.
Concluded on: **18 MAY 2021**
Charleston, South Carolina

SHEET REFERENCE NUMBER
C002
SHEET 5 OF 5