Chart 11373 NM 35/09

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2009 AND SURVEYS TO MAY 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PASCAGOULA BAR CHANNEL	41.9	44.9	43.0	2-09	450	3.3	44.0
HORN ISLAND PASS CHANNEL	43.8	44.0	30.2	5-09	600	1.2	44.0
LOWER PASCAGOULA CHANNEL	35.7	42.0	39.6	12-08	350	3.7	42.0
UPPER PASCAGOULA CHANNEL	36.0	36.5	37.3	3-09	350	5.6	38.0
TURNING BASIN	37.8	37.5	35.1	3-09	900	0.3	38.0
BAYOU CASOTTE CHANNEL	36.5	40.7	33.8	5-09	350	3.7	42.0
TURNING BASIN	42.9	38.4	38.8	5-09	850	0.3	42.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11374 (Side B) NM 35/09

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2009 AND SURVEYS TO MAY 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PASCAGOULA BAR CHANNEL	41.9	44.9	43.0	2-09	450	3.3	44.0
HORN ISLAND PASS CHANNEL	43.8	44.0	30.2	5-09	600	1.2	44.0
LOWER PASCAGOULA CHANNEL	35.7	42.0	39.6	12-08	350	3.7	42.0
UPPER PASCAGOULA CHANNEL	36.0	36.5	37.3	3-09	350	5.6	38.0
TURNING BASIN	37.8	37.5	35.1	3-09	900	0.3	38.0
BAYOU CASOTTE CHANNEL	36.5	40.7	33.8	5-09	350	3.7	42.0
TURNING BASIN	42.9	38.4	38.8	5-09	850	0.3	42.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11375 NM 35/09

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAY 2009 AND SURVEYS TO MAY 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
PASCAGOULA BAR CHANNEL	41.9	44.9	43.0	2-09	450	3.3	44.0
HORN ISLAND PASS CHANNEL	43.8	44.0	30.2	5-09	600	1.2	44.0
LOWER PASCAGOULA CHANNEL	35.7	42.0	39.6	12-08	350	3.7	42.0
UPPER PASCAGOULA CHANNEL	36.0	36.5	37.3	3-09	350	5.6	38.0
TURNING BASIN	37.8	37.5	35.1	3-09	900	0.3	38.0
BAYOU CASOTTE CHANNEL	36.5	40.7	33.8	5-09	350	3.7	42.0
TURNING BASIN	42.9	38.4	38.8	5-09	850	0.3	42.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12252 NM 35/09

JAMES RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	DEPTH MLLW (FEET)	WIDTH (FEET)	DATE OF SURVEY
HOPEWELL TO RICHMOND			
DEEPWATER TERMINAL	A 21.4	200	5-06;6-06
37°27'05.0"N, 77°25'07.4"W			
CHANNEL ADJOINING TURNING BASIN	24.9	200	2-09
TURNING BASIN	23.7	385	2-09
THENCE TO RICHMOND			
HARBOR TURNING BASIN	15.4	200	6-03;10-04
TURNING BASIN	6.6	140-175	10-04
THENCE TO THE LOCKS	B 9.3	200	10-04

A. EXCEPT FOR SHOALING TO 20.0 FEET WITHIN 40 FEET OF THE LEFT CHANNEL LIMIT AT 37°25'26.0"N, 77°24'06.2"W

B. DEPTH REPORTED ONLY GOES TO 37°31'20.2"N 77°25'06.4"W. DEPTHS DIMINISH QUICKLY FROM 37°31'20.2"N 77°25'06.4"W TO THE LOCKS.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 12273 NM 35/09

BALTIMORE HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CRAIGHILL ENTRANCE	47.9	50.7	50.4	50.1	3-08	700	3.09	50
CRAIGHILL CHANNEL	49.2	50.5	50.6	49.4	7-08	700	2.80	50
CRAIGHILL ANGLE	49.7	50.0	50.2	49.2	3-08	700-1870	1.55	50
CRAIGHILL CHANNEL UPPER RANGE	47.7	50.9	50.5	48.4	4-08	700	2.11	50
CUTOFF ANGLE	48.0	49.8	49.3	48.2	3-08	700-1740	0.86	50
BREWERTON CHANNEL	46.5	50.7	50.2	47.3	4-08	700	3.06	50
EASTERN EXTENSION	32.9	35.6	35.4	31.8	5-08	600	5.02	35
SWAN POINT CHANNEL	35.0	35.1	35.1	34.9	8-08	600	2.71	35
TOLCHESTER CHANNEL	32.8	35.2	34.6	33.6	6-08	600	6.47	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12278 NM 35/09

BALTIMORE HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CRAIGHILL ENTRANCE	47.9	50.7	50.4	50.1	3-08	700	3.09	50
CRAIGHILL CHANNEL	49.2	50.5	50.6	49.4	7-08	700	2.80	50
CRAIGHILL ANGLE	49.7	50.0	50.2	49.2	3-08	700-1870	1.55	50
CRAIGHILL CHANNEL UPPER RANGE	47.7	50.9	50.5	48.4	4-08	700	2.11	50
CUTOFF ANGLE	48.0	49.8	49.3	48.2	3-08	700-1740	0.86	50
BREWERTON CHANNEL	46.5	50.7	50.2	47.3	4-08	700	3.06	50
BREWERTON ANGLE	48.8	50.5	50.0	49.5	1-09	700-1460	0.79	50
FORT MCHENRY CHANNEL	48.4	50.3	50.5	49.7	1-09	700	3.77	50
FORT MCHENRY CHANNEL TURNING BASIN	50.5	50.8	51.1	49.9	1-09	1200	0.20	50
CURTIS BAY CHANNEL	49.0	49.4	49.0	47.5	1-08	400-1275	1.96	50
BREWERTON CHANNEL EASTERN EXTENSION	32.9	35.6	35.4	31.8	5-08	600	5.02	35
SWAN POINT CHANNEL	35.0	35.1	35.1	34.9	8-08	600	2.71	35
TOLCHESTER CHANNEL	32.8	35.2	34.6	33.6	6-08	600	6.47	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12278 NM 35/09

CURTIS BAY AND CREEK CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CURTIS BAY CHANNEL	49.0	49.0	47.5	1-08	400-1275	1.96	50
CURTIS CREEK							
LOWER REACH	36.0	35.6	36.2	8-08	200	0.54	35
MIDDLE REACH	19.6	20.6	18.4	8-08	200-380	1.09	22
UPPER REACH	17.1	16.7	A14.8	8-08	200-100	0.55	22

A. EXCEPT FOR SHOALING TO 12.5 FT AT 39° 11' 42.9" N 76° 34' 10.2" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12281 NM 35/09

CURTIS BAY AND CREEK CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CURTIS BAY CHANNEL	49.0	49.0	47.5	1-08	400-1275	1.96	50
CURTIS CREEK							
LOWER REACH	36.0	35.6	36.2	8-08	200	0.54	35
MIDDLE REACH	19.6	20.6	18.4	8-08	200-380	1.09	22
UPPER REACH	17.1	16.7	A14.8	8-08	200-100	0.55	22

A. EXCEPT FOR SHOALING TO 12.5 FT AT 39° 11' 42.9" N 76° 34' 10.2" W
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12281 NM 35/09

BALTIMORE HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO FEB 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BREWERTON CHANNEL	46.5	50.7	50.2	47.3	4-08	700	3.06	50
BREWERTON ANGLE	48.8	50.5	50.0	49.5	1-09	700-1460	0.79	50
FORT MCHENRY CHANNEL	48.4	50.3	50.5	49.7	1-09; 2-09	700	3.77	50
FORT MCHENRY CHANNEL TURNING BASIN	50.5	50.8	51.1	49.9	1-09	1200	0.20	50
FERRY BAR CHANNEL EAST SECTION	35.4	37.8	39.1	34.9	2-09	600	1.23	42
CURTIS BAY CHANNEL	49.0	49.4	49.0	47.5	1-08	400-1275	1.96	50
NORTHWEST HARBOR EAST CHANNEL	40.8	43.9	43.0	41.2	1-09; 2-09	600	0.99	49
EAST CHANNEL TURNING BASIN	41.7	46.9	47.2	44.2	1-09	600-950	0.16	49
WEST CHANNEL	39.6	41.1	39.6	38.5	1-09	600	0.57	40
WEST CHANNEL TURNING BASIN	39.8	39.8	39.0	38.2	1-09	600-1068	0.26	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12282 NM 35/09

BALTIMORE HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2008

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CRAIGHILL ENTRANCE	47.9	50.7	50.4	50.1	3-08	700	3.09	50
CRAIGHILL CHANNEL	49.2	50.5	50.6	49.4	7-08	700	2.80	50

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12313 NM 35/09

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2009

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TINICUM RANGE	35.4	41.1	40.9	39.0	4-08	800	3.03	40
BILLINGSPORT RANGE	41.5	42.6	43.0	39.5	3-08	800	1.15	40
MIFFLIN RANGE	37.1	38.2	40.6	38.1	3-08	800	2.83	40
EAGLE POINT RANGE (NAVY YARD)	37.3	41.1	40.6	40.7	2-08	800	1.74	40
HORSESHOE BEND	35.1	41.1	43.3	43.1	2-08	800-500	0.80	40
HORSESHOE RANGE AND REACH M	38.1	40.0	42.3	42.5	2-08	500-400	1.17	40
REACH M TO BENJAMIN FRANKLIN BRIDGE	21.6	35.2	38.2	36.9	2-08	400	2.95	40
BENJAMIN FRANKLIN BRIDGE TO CAMBRIA ST.	25.1	39.8	40.9	40.2	2-08	400	2.00	40
CAMBRIA ST. TO ALLEGHENY AVE.	37.7	38.4	37.6	35.6	1-08	400	0.42	40
FISHER POINT RANGE	37.4	37.8	37.1	34.8	7-08	400	0.70	40
FISHER CHANNEL	38.8	41.1	43.3	41.8	7-08	400	0.31	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 12314 (Upper Panel) **NM 35/09**

DELAWARE RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2009

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
FISHER POINT RANGE								
(CHARTS 12313,12312)	37.4	37.8	37.1	34.8	7-08	400	0.70	40
FISHER CHANNEL	38.8	41.1	43.3	41.8	7-08	400	0.31	40
DRAW CHANNEL	41.2	42.6	43.0	39.2	2-09	400	0.74	40
DELAIR RANGE	37.5	37.9	36.4	27.6	7-08	400	0.98	40
BRIDESBURG CHANNEL	40.8	41.2	39.3	33.4	7-08	400	0.31	40
FRANKFORD CHANNEL	39.3	38.8	35.9	29.9	2-09	400	1.05	40
TACONY CHANNEL	34.5	36.1	39.9	38.7	8-08	400	1.17	40
TORRESDALE RANGE	36.2	37.1	39.8	39.9	8-08	400	1.39	40
MUD ISLAND RANGE	39.1	39.6	38.2	36.1	8-08	400	1.67	40
ENTERPRISE RANGE	37.5	39.6	38.0	36.9	8-08	400	1.70	40
BEVERLY CHANNEL	34.3	36.7	39.8	38.9	8-08	400	0.65	40
EDGEWATER CHANNEL	33.9	36.2	37.1	35.2	8-08	400	1.37	40
DEVLIN CHANNEL	37.0	38.8	39.7	31.9	2-09	400	1.03	40
LEHIGH CHANNEL	36.2	42.1	40.2	35.4	8-08	400	0.66	40
CANAL CHANNEL	42.5	44.3	43.5	38.7	8-08	500	0.19	40
BRISTOL RANGE	36.3	42.0	42.5	42.8	8-08	400	0.62	40
KEYSTONE RANGE	33.8	38.6	42.9	42.6	2-09	400	0.42	40
LANDRETH CHANNEL	35.4	40.9	38.4	38.6	2-09	400	1.21	40
FLORENCE BEND	38.3	37.9	40.9	23.0	8-08	500	0.61	40
FLORENCE RANGE	29.8	37.1	40.3	23.7	9-08	400	1.34	40
ROEBLING RANGE	28.5	37.5	42.0	36.8	10-08	400	0.34	40
KINKORA RANGE	33.5	38.9	37.3	34.1	10-08	400	1.15	40
PENN CHANNEL	33.2	36.3	38.9	32.9	7-08	400	0.36	40
NEWBOLD CHANNEL	8.2	12.4	20.8	27.3	7-08	400	0.52	40
BLAKE CHANNEL	15.5	20.9	24.7	24.8	7-08	400	0.17	25
WHITEHILL RANGE	19.8	20.9	22.4	23.5	7-08	300	1.03	25
RARITAN CHANNEL	22.6	25.6	28.6	26.6	2-09	400	0.24	25
BORDENTOWN RANGE	17.0	18.9	21.3	17.7	2-09	300	0.65	25
DUCK ISLAND RANGE	12.1	13.6	17.5	15.5	2-09	300	1.25	25
PERRIWIG CHANNEL	16.8	22.5	24.9	22.1	7-08	400	0.24	25
BILES ISLAND CHANNEL	24.6	25.6	22.5	18.1	7-08	300	0.38	25
COCHRAN CHANNEL	32.9	29.3	25.1	18.5	7-08	300	0.31	25
MOON CHANNEL	11.1	13.3	13.2	13.1	7-08	500	0.39	25
TRENTON CHANNEL								
SOUTH REACH		11.7	11.7		7-08	200	0.49	12
NORTH REACH		10.3	A 10.3		7-08	200-300	0.58	12

A. EXCEPT FOR A 5 FOOT ROCK LOCATED AT 40°12'25.9"N, 74°45'57.2"W.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION