Chart 74281
NM 52/03
CONTINUED ON 74283
SURVEYED
TION NO 3
Former Mined Area
CAUTION NO 2
Dolphin
Reef
Sandy Islet
Card Reef
Caroline Rock
Burke
Tannadice Rock
Tannadice Shoal
Kupuntutu Passage
Ape Reef

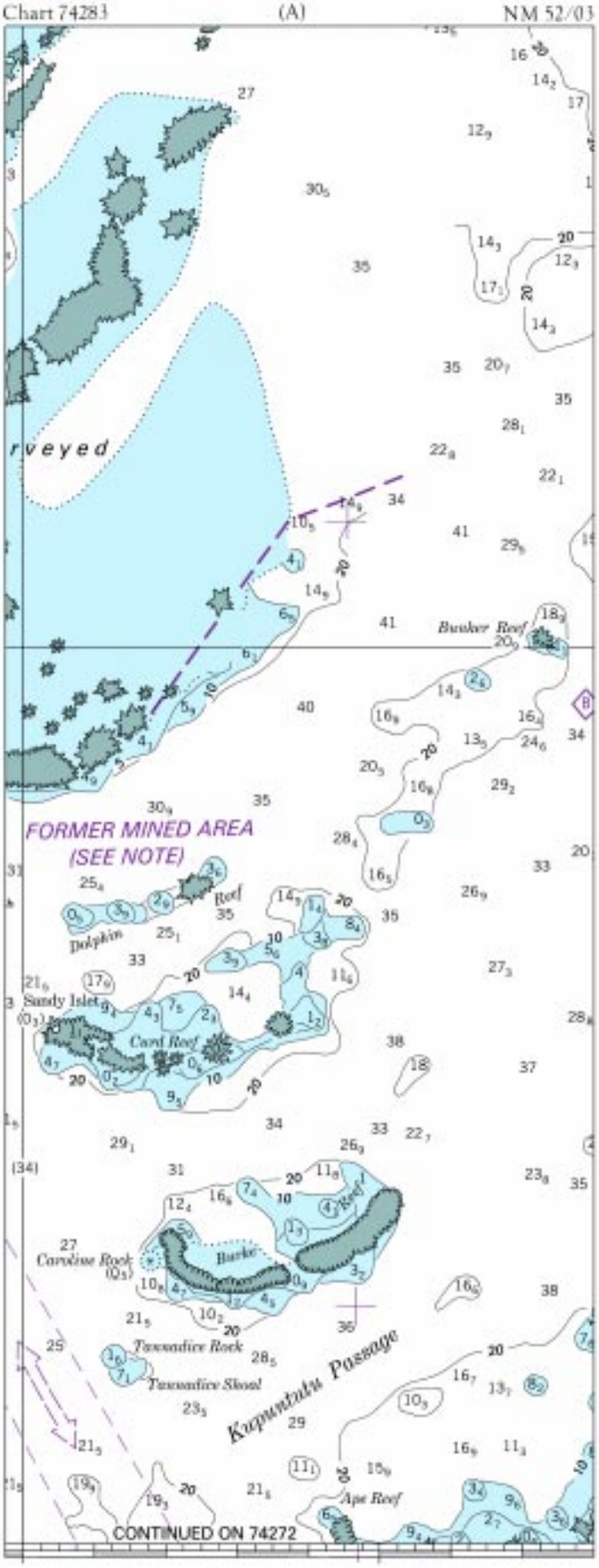
Chart 74283
(A)
NM 52/03
rveyed
Bunker Reef
FORMER MINED AREA
(SEE NOTE)
Dolphin Reef
Sandy Islet
Card Reef
Caroline Rock
Burke Reef
Tannadice Rock
Tannadice Shoal
Kupuntutu Passage
Ape Reef
CONTINUED ON 74272

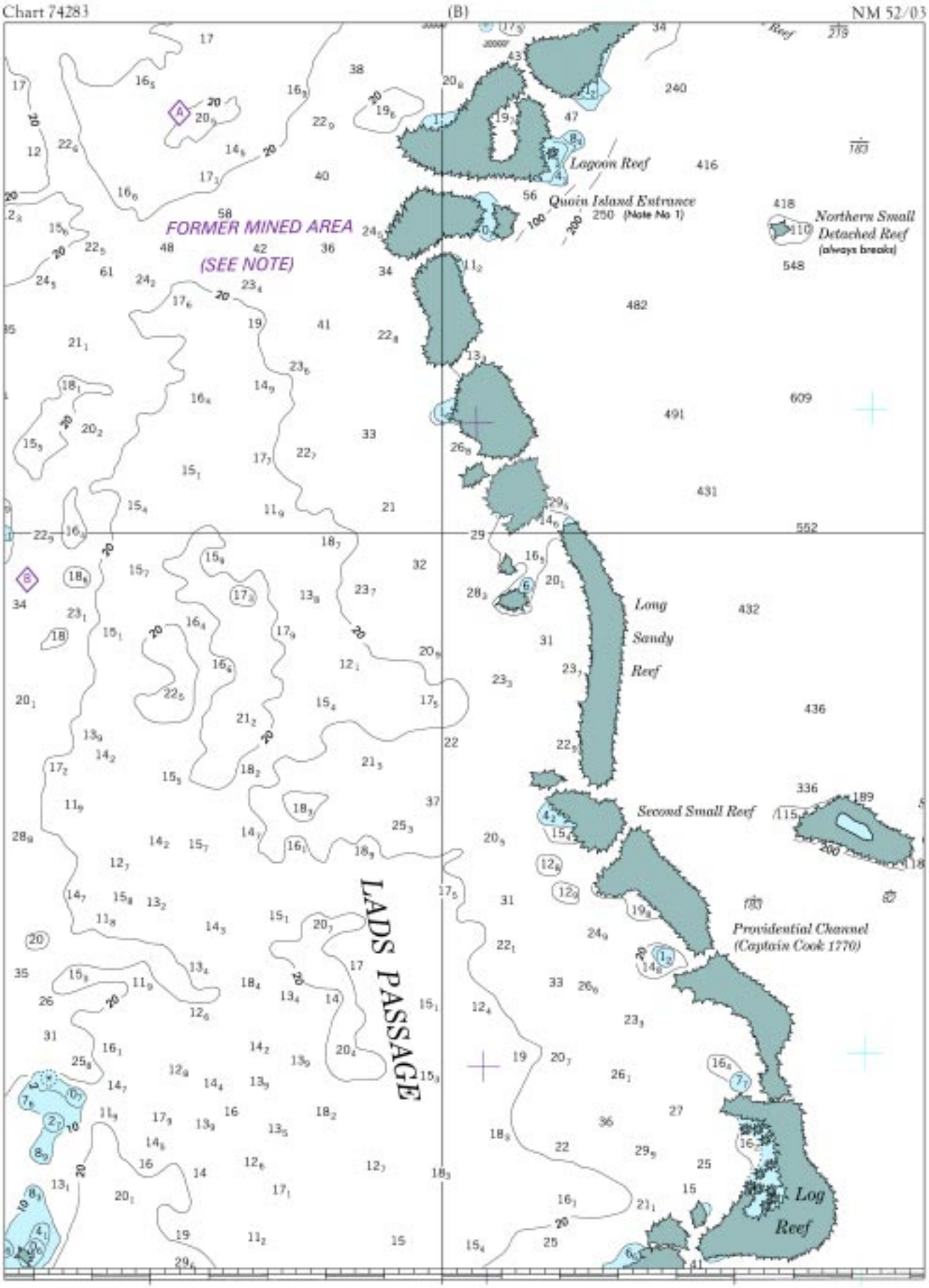
Chart 74283
(B)
NM 52/03
FORMER MINED AREA
(SEE NOTE)
Lagoon Reef
Quoin Island Entrance
250 (Note No 1)
Northern Small
Detached Reef
(always breaks)
Long
Sandy
Reef
Second Small Reef
Providential Channel
(Captain Cook 1770)
LADS PASSAGE
Log
Reef

Chart 74292 NM 52/03

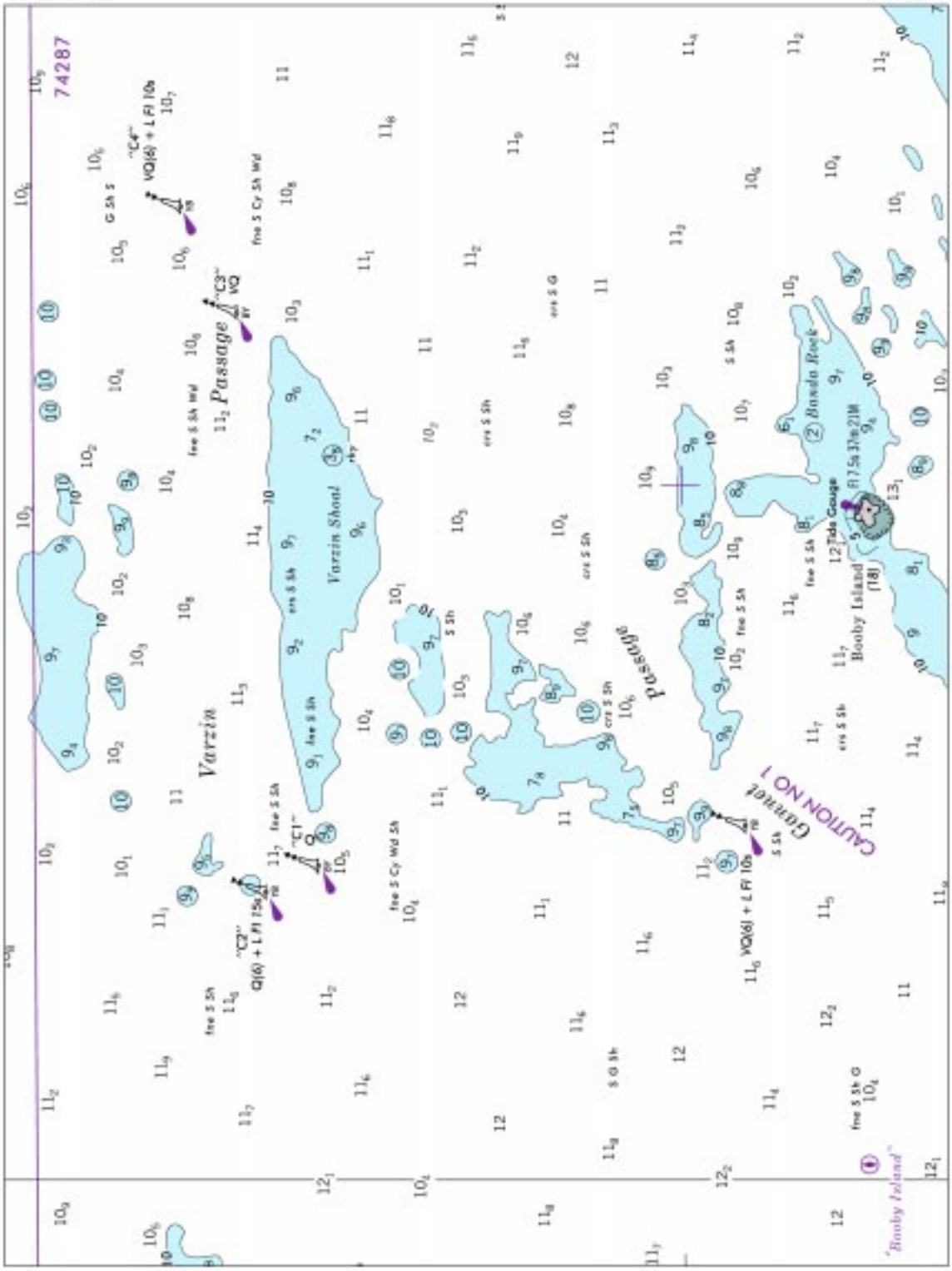

Chart 74296 NM 52/03

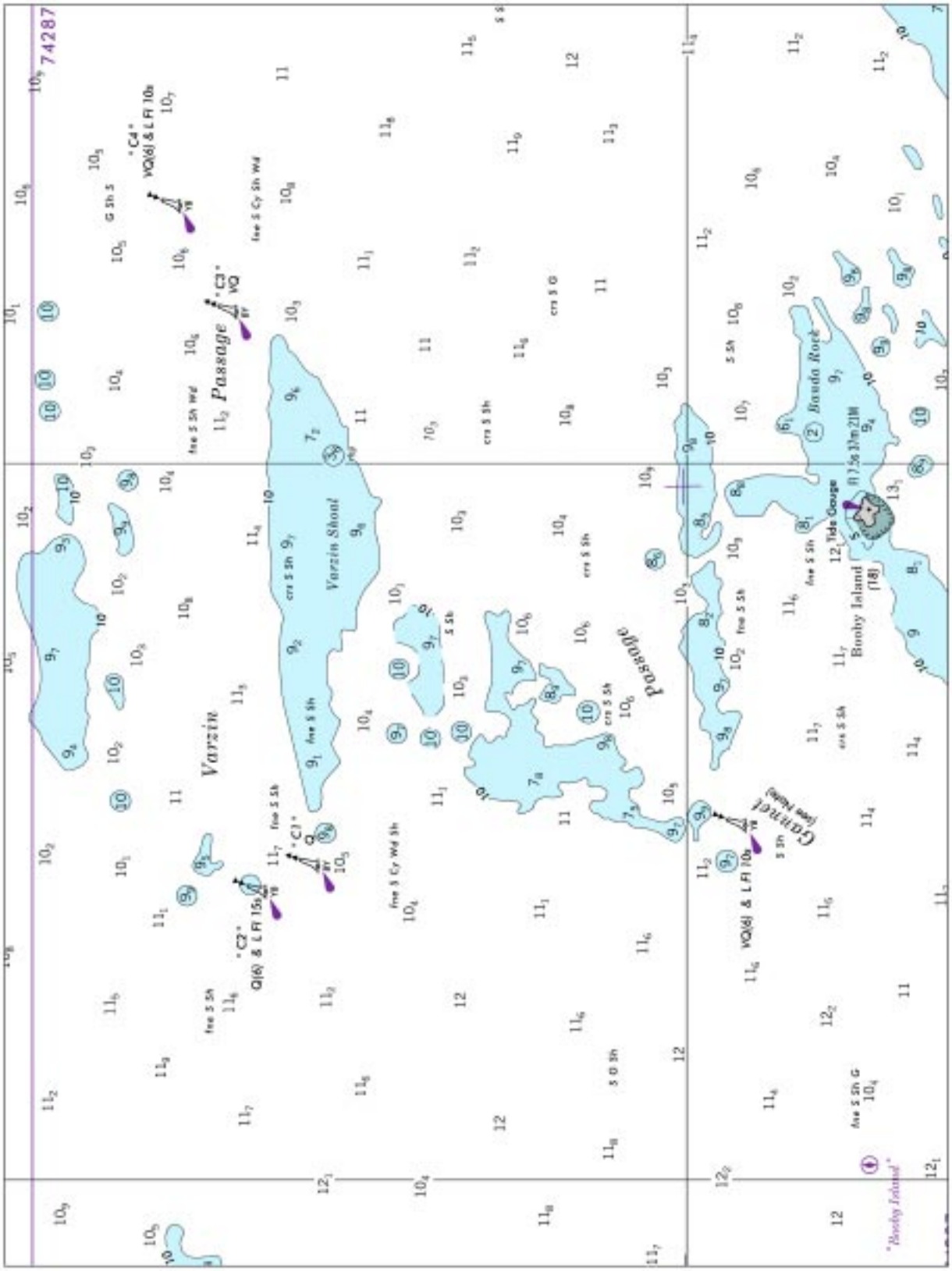

Chart 11378 (Side A) NM 52/03

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

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 CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	41.9	41.3	41.9	39.5	11-02	A500	3.0	A35
BARRANCAS RANGE	45.9	46.3	48.5	47.6	11-02	A500	0.77	A35
PICKENS CHANNEL	45.9	46.0	46.4	46.3	11-02	A500	0.84	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11382 NM 52/03

PENSACOLA HARBOR ENTRANCE CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOV 2002

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 CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CAUCUS CHANNEL	41.9	41.3	41.9	39.5	11-02	A500	3.0	A35

A. PROJECT DIMENSIONS OF 44 FEET FOR A WIDTH OF 800 FEET PROVIDED BY THE U.S. NAVY. AUTHORIZED USACE PROJECT IS 35 FEET FOR A WIDTH OF 500 FEET.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11506 NM 52/03

BRUNSWICK HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2003

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)
BAR CHANNEL							
(ST SIMON RANGE)	32.0	34.0	A31.0	10-03	500	7.7	32
PLANTATION CREEK RANGE	38.0	40.0	39.0	10-03	400	1.8	32
JEKYLL ISLAND RANGE	30.0	32.0	31.0	10-03	400	1.9	30
CEDAR HAMMOCK RANGE	30.0	30.0	27.5	10-03	400	1.4	30
BRUNSWICK PT CUT RANGE	27.5	29.0	29.0	10-03	400	2.4	30
EAST RIVER							
LOWER REACH	B31.0	31.0	25.0	10-03	400	1.1	30
UPPER REACH	26.5	27.0	28.0	10-03	350	1.0	27
EAST RIVER TURNING BASIN	28.0	27.0	27.0	10-03	750	0.2	30
TURTLE RIVER LOWER RANGE	34.0	30.5	30.0	10-03	300	1.7	30
BLYTHE ISLAND RANGE	31.0	26.0	26.0	10-03	300	1.5	30
TURTLE RIVER UPPER RANGE	28.0	28.0	26.0	10-03	300	1.7	30
SOUTH BRUNSWICK RIVER	30.5	31.0	32.0	10-03	400	1.3	30

A. OBSTRUCTION REPORTED WITH A DEPTH OF 29 FEET, LOCATED AT 31°04'06.6"N; 081°16'35.7"W.
B. THE EAST RIVER, LOWER REACH WIDENER LEAST DEPTHS WERE 31.0 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT, AND 30.0 FEET, LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE.
NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN)
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18502 NM 52/03

GRAYS HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF APR 2003 AND SURVEYS TO MAR 2003

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)
BAR CHANNEL	46.1	46.7	46.4	6-02	1000	4.6	46
ENTRANCE CHANNEL	30.7	38.6	37.7	10-02, 2-03	900-600	1.8	42
PT CHEHALIS REACH	33.3	36.3	35.1	2-03	600	1.2	40
SOUTH REACH	33.7	36.8	33.7	3-03	600-350	4.1	36
CROSSOVER CHANNEL	30.1	34.6	32.0	11-02; 3-03	350-450	2.5	36
NORTH CHANNEL	37.1	36.6	37.1	5-02;1-03	450-350	2.4	36
HOQUIAM REACH	37.5	36.6	37.0	1-03	350	1.9	36
COW POINT REACH	35.4	35.7	33.7	12-02; 1-03; 2-03	350-900	1.8	36
ABERDEEN REACH	27.8	29.8	29.0	10-01; 2-02; 2-03	550-200	2.6	30
TURNING BASIN	32.5	32.4	24.5	1-02	200-550	.3	30
THENCE TO COSMOPOLIS	26.5	26.9	27.7	1-02; 2-03	200	.8	30

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

Chart 18521 NM 52/03

COLUMBIA RIVER CHANNEL DEPTHS
ENTRANCE TO MILLER SANDS RANGE

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOVEMBER 5, 2003

* SEE FOOTNOTES						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ENTRANCE RANGE	58	59	54	42	9-03	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	50	55	52	42	9-03	2640	2.2	48
LOWER DESDEMONA SHOAL	46	47	43	39	9-03	600	3.4	40
UPPER DESDEMONA SHOAL	44	43	46	45	10-03	600	3.6	40
TANSY POINT TURN AND RANGE	40	42	41	38	10-03	600	4.8	40
ASTORIA RANGE	42	43	44	43	10-03	600	2.7	40
TONGUE POINT CHANNEL	40	43	42	43	10-03	600	2.2	40
HARRINGTON POINT RANGE	39	41	42	38	10-03	600	2.6	40
MILLER SANDS RANGE	43	43	41	39	10-03	600	2.2	40

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT

* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.

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

Chart 18523 NM 52/03

COLUMBIA RIVER CHANNEL DEPTHS
MILLER SANDS RANGE TO GULL ISLAND TURN AND CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOVEMBER 5, 2003

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MILLER SANDS RANGE	43	43	41	39	10-03	600	2.2	40
PILLAR ROCK LOWER RANGE	38	41	41	37	10-03	600	3.0	40
PILLAR ROCK UPPER RANGE	37	41	41	39	10-03	600	1.9	40
WELCH ISLAND REACH	43	43	45	38	10-03	600	3.2	40
SKAMOKAWA CHANNEL	29	42	45	37	10-03	600	3.3	40
STEAMBOAT REACH	49	48	45	42	9,10-03	600	1.4	40
PUGET ISLAND RANGE AND TURN	40	40	40	37	9-03	600	3.5	40
WAUNA RANGE	38	42	42	44	10-03	600	2.2	40
DRISCOLL RANGE	39	41	42	41	10-03	600	1.7	40
WESTPORT TURN AND RANGE	36	40	42	42	10-03	600	2.0	40
WESTPORT CHANNEL	40	43	42	41	8,10-03	600	2.4	40
EUREKA LOWER CHANNEL	42	43	43	43	8-03	600	2.1	40
EUREKA UPPER CHANNEL	42	42	42	41	8-03	600	0.8	40
OAK POINT CHANNEL	46	46	44	39	10-03	600	2.4	40
GULL I TURN AND CHANNEL	45	44	41	38	9,10-03	600	2.2	40

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES TO THE ABOVE INFORMATION

Chart 18524 (Left Panel) NM 52/03

COLUMBIA RIVER CHANNEL DEPTHS
GULL ISLAND TURN AND CHANNEL TO SAINT HELENS TURN
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOVEMBER 5, 2003

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
GULL I TURN AND CHANNEL	45	44	41	38	9,10-03	600	2.2	40
STELLA RANGE	37	40	39	36	9-03	600	2.8	40
FISHER I CHANNEL	40	44	42	42	10-03	600	0.9	40
WALKER I CHANNEL	37	41	41	39	10-03	600	1.5	40
BARLOW PT. CHANNEL	44	44	44	40	10-03	600	1.3	40
SLAUGHTERS CHANNEL	36	38	38	38	6-03	600	2.3	40
SLAUGHTERS TURN AND CHANNEL OPPOSITE THE TURNING BASIN	38	39	38	35	6-03	600	1.7	40
COTTONWOOD ISLAND LOWER RANGE	44	45	44	42	10-03	600	1.7	40
COTTONWOOD ISLAND TURN	42	40	39	37	10-03	600	2.7	40
COTTONWOOD ISLAND UPPER RANGE	41	41	41	37	10-03	600	1.6	40
KALAMA LOWER RANGE	41	39	39	35	10-03	600	1.8	40
KALAMA UPPER RANGE	40	41	41	39	10-03	600	2.2	40
BYBEE LEDGE CHANNEL	41	42	43	38	10-03	600	2.1	40
MARTIN ISLAND CHANNEL	40	41	39	37	10-03	600	2.1	40
MARTIN ISLAND RANGE	40	42	43	41	10-03	600	1.4	40
COLUMBIA CITY CHANNEL	39	41	41	40	10-03	600	1.2	40
ST. HELENS RANGE	39	43	41	41	11-03	600	2.0	40
ST. HELENS TURN	43	42	42	42	11-03	600	1.7	40

* CONTROLLING DEPTHS ROUNDED TO NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18525 NM 52/03

COLUMBIA RIVER CHANNEL DEPTHS
SAINT HELENS TURN TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORTS OF NOVEMBER 5, 2003

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
ST. HELENS TURN	43	42	42	42	11-03	600	1.7	40
WARRIOR ROCK RANGE	40	42	42	40	10-03	600	1.3	40
DUCK CLUB TURN	37	42	43	40	10-03	600	1.4	40
HENRICI RANGE	39	40	38	39	10-03	600	2.6	40
FALES CHANNEL	42	42	39	38	10-03	600	1.1	40
KNAPP POINT CHANNEL	38	40	39	38	10-03	600	1.8	40
WILLOW LOWER RANGE	39	41	41	38	10-03	600	2.1	40
WILLOW UPPER RANGE	41	43	41	44	10-03	600	1.1	40
MORGAN TURN	43	46	49	47	10-03	600	1.0	40
MORGAN CHANNEL	46	44	42	41	10-03	600	1.5	40
VANCOUVER LOWER CHANNEL	47	46	50	50	9-03	500	1.0	40
VANCOUVER RANGE	41	43	42	41	9-03	500	1.3	40
VANCOUVER UPPER CHANNEL	41	43	42	39	9-03	500	0.9	40
VANCOUVER LOWER TURNING BASIN	34	38	41	31	10-03	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	25	25	22	10-03	800	0.9	35
TOMAHAWK BAR	18	20	20	17	10-01	300	3.7	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18526 NM 52/03

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF NOVEMBER 5, 2003

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (STAT. MILES)	DEPTH CRD (FEET)
MORGAN CHANNEL	46	44	42	41	10-03	600	1.5	40
VANCOUVER LOWER CHANNEL	47	46	50	50	9-03	500	1.0	40
VANCOUVER RANGE	41	43	42	41	9-03	500	1.3	40
VANCOUVER UPPER CHANNEL	41	43	42	39	9-03	500	0.9	40
VANCOUVER LOWER TURNING BASIN	34	38	41	31	10-03	800	1.0	40
VANCOUVER UPPER TURNING BASIN	32	25	25	22	10-03	800	0.9	35
TOMAHAWK BAR	18	20	20	17	10-01	300	3.7	27

* CONTROLLING DEPTHS ROUNDED TO THE NEAREST FOOT
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18584 NM 52/03

UMPQUA RIVER CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002 AND SURVEYS TO SEP 2003

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)
ENTRANCE CHANNEL TO LT. 21	18	18	18	3, 4, 6-02; 8, 9, 10-02 9-03	200	7.0	26-22
LT. 21 TO REEDSPORT	17	19	17	5-02; 9, 10-02	200	2.7	22
REEDSPORT TURNING BASIN	25	24	24	5-02; 10-02	600	0.2	22
LT. 21 TO GARDINER	12	13	11	10-01	200	1.15	22
GARDINER TURNING BASIN	5	2	2	10-01	500	0.2	22

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

Chart 18587 NM 52/03

COOS BAY AND ISTHMUS SLOUGH CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE COPRS OF ENGINEERS - SURVEYS TO JUL 2003

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)
ENTRANCE RANGE	36	37	35	3,5-03	---	1.9	47-37
ENTRANCE RANGE AND TURN	39	45	29	3-03	300-1050	0.5	37
INSIDE RANGE	34	37	36	2,3-03	300	0.6	37
COOS BAY RANGE	34	37	36	2,3-03	300	1.6	37
EMPIRE RANGE	34	37	38	2,3,7-03	300	1.3	37
LOWER JARVIS RANGE	38	37	35	7-03	300	0.8	37
JARVIS TURN	36	35	35	7-03	300	0.5	37
UPPER JARVIS RANGE	32	35	36	2,3,7-03	300-700	1.9	37
NORTH BEND LOWER RANGE	39	38	36	2,3-03	400	0.4	37
NORTH BEND RANGE	33	37	36	10-02,3-03	400	0.9	37
NORTH BEND UPPER RANGE	36	38	37	3-03	400	0.6	37
LOWER TURNING BASIN	37	38	38	3-03	400-900	0.3	37
FERNDALE LOWER RANGE	39	39	39	3-03	400	0.4	37
FERNDALE TURN	37	38	38	3-03	400	0.2	37
FERNDALE UPPER RANGE	35	37	38	3-03	400	0.7	37
MARSHFIELD RANGE	37	37	36	10-02,3-03	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	37	37	32	3-03	150-750	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22

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