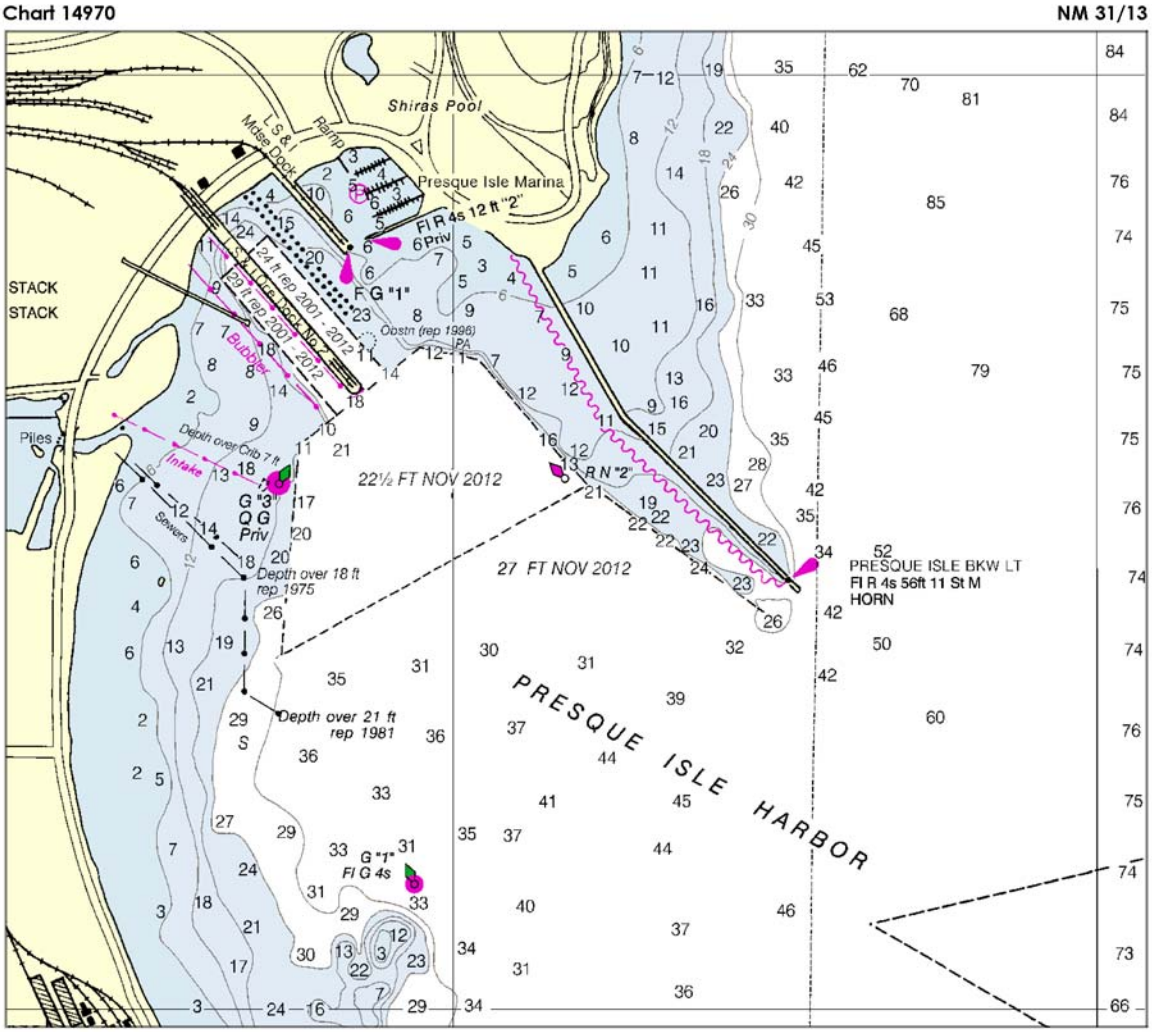
Chart 14970
NM 31/13
Shiras Pool
Presque Isle Marina
Fl R 4s 12 ft "2"
F G "1"
STACK
STACK
Piles
Intake
Bubbler
Sewers
Depth over Crib 7 ft
G "3"
Q G
Priv
Depth over 18 ft
rep 1975
Depth over 21 ft
rep 1981
22½ FT NOV 2012
27 FT NOV 2012
R N "2"
PRESQUE ISLE BKW LT
Fl R 4s 56ft 11 St M
HORN
PRESQUE ISLE HARBOR
G "1"
Fl G 4s

Chart 18521 NM 31/13

BAKER BAY WEST CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JAN 2013 AND REPORTS TO MAR 2013

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 (STAT. MILES)	DEPTH MLLW (FEET)
ENTRANCE (0.0 - 0.7)	5	15	16	1-13	200	0.7	16
ENTRANCE TO FORT CANBY (0.7 - 1.9)	12	15	13	1-13	150	1.2	16
FT CANBY TO ILWACO (1.9 - 3.2)	11	10	5	1-13	150	1.3	16
MOORING BASIN A B	4	4	4	6-06	-	-	-

A. SHOALING TO 2 FEET ON RIGHT HALF, BETWEEN THE BREAKWATERS.
B. BASIN LOCALLY MAINTAINED.

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

Chart 18523 NM 31/13

COLUMBIA RIVER CHANNEL DEPTHS
PILLAR ROCK LOWER RANGE TO GULL ISLAND TURN AND CHANNEL
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 15-Mar-13

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 (Feet)
Miller Sands Range	38	44	42	41	4-Mar-13	600	2.2	43
Pillar Rock Lower Range	43	41	42	37	4-Mar-13	600	3	43
Pillar Rock Upper Range	37	45	44	43	7-Mar-13	600	1.9	43
Welch Island Reach	46	49	45	33	7-Mar-13	600	3.2	43
Skamokawa Channel	40	44	42	38	19-Feb-13	600	3.3	43
Steamboat Reach	47	44	45	43	12-Mar-13	600	1.4	43
Puget Island Range & Turn	42	42	42	39	12-Mar-13	600	3.5	43
Wauna Range	38	43	41	38	28-Feb-13	600	2	43
Driscoll Range	40	41	42	41	28-Feb-13	600	1.7	43
Westport Turn & Range	38	43	43	43	6-Mar-13	600	2	43
Westport Channel	40	42	41	40	6-Mar-13	600	2.4	43
Eureka Lower Channel	46	46	47	45	6-Mar-13	600	2.1	43
Eureka Upper Channel	42	44	42	39	6-Mar-13	600	0.8	43
Oak Point Channel	43	44	44	43	6-Mar-13	600	3	43
Gull Island Turn and Channel	47	47	42	37	6-Mar-13	600	2.2	43

* For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx *Channel status reports*

Chart 18524 (Left Panel) NM 31/13

COLUMBIA RIVER CHANNEL DEPTHS
GULL ISLAND TURN AND CHANNEL TO ST HELENS TURN
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 15-Mar-13

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 (Feet)
Gull Island Turn and Channel	47	47	42	37	6-Mar-13	600	2.2	43
Stella Range	39	42	42	40	20-Feb-13	600	3.0	43
Fisher Island Channel	42	43	44	41	20-Feb-13	600	0.8	43
Walker Island Channel	44	42	42	39	20-Feb-13	600	1.4	43
Barlow Pt Channel	47	47	47	45	20-Feb-13	600	1.6	43
Slaughters Channel	42	43	43	42	5-Mar-13	600	2.2	43
Slaughters Turn and Channel	42	44	42	42	5-Mar-13	600	1.7	43
Cottonwood Island Lower Rge	40	45	43	42	5-Mar-13	600	1.7	43
Cottonwood Island Turn	45	44	44	38	5-Mar-13	600	2.7	43
Cottonwood Island Upper Rge	42	43	42	41	5-Mar-13	600	1.6	43
Kalama Lower Range	41	46	45	33	19-Feb-13	600	1.8	43
Kalama Upper Range	39	43	43	39	19-Feb-13	600	2.2	43
Bybee Ledge Channel	43	44	46	39	19-Feb-13	600	2.1	43
Martin Island Channel	43	43	43	38	19-Feb-13	600	2	43
Martin Island Range	41	43	43	41	7-Feb-13	600	1.4	43
Columbia City Channel	40	43	43	42	7-Feb-13	600	1.2	43
St. Helens Range	40	44	41	38	6-Feb-13	600	2.0	43
St. Helens Turn	42	44	42	37	6-Feb-13	600	1.7	43

* For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx *Channel status reports*

Chart 18525 NM 31/13

COLUMBIA RIVER CHANNEL DEPTHS
SAINT HELENS TURN TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 15-Mar-13

NAME OF CHANNEL	CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE					PROJECT DIMENSIONS		
	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length STAT (Miles)	Depth (Feet)
St. Helens Turn	42	44	42	37	6-Feb-13	600	1.7	43
Warrior Rock Range	41	43	42	43	5-Feb-13	600	1.3	43
Duck Club Turn	39	43	43	43	5-Feb-13	600	1.4	43
Henrici Range	42	42	42	40	14-Mar-13	600	2.6	43
Fales Channel	43	43	43	41	14-Mar-13	600	1.1	43
Knapp Point Channel	43	43	43	40	12-Mar-13	600	1.8	43
Willow Lower Range	40	42	44	42	12-Mar-13	600	2.1	43
Willow Upper Range	42	41	45	44	12-Mar-13	600	1.1	43
Morgan Bar	42	46	50	50	12-Mar-13	600	1.0	43
Morgan Channel	44	45	45	42	12-Mar-13	600	1.5	43
Vancouver Lower Channel	47	48	48	39	11-Mar-13	500	1.0	43
Vancouver Range	43	43	43	40	11-Mar-13	500	1.3	43
Vancouver Upper Channel	46	43	44	42	11-Mar-13	500	0.9	43
Vancouver Lower Turning Basin	33	40	27	42	11-Mar-13	800	1.0	43
Vancouver Upper Turning Basin	36	30	28	23	11-Mar-13	800	0.9	35
	Mid Channel for Half Project Width							
		L Outside	Mid Channel	R Outside				
Tomahawk Bar		14	15	15	31-May-12	300	3.7	27

* For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx *Channel status reports*

Chart 18526 NM 31/13

COLUMBIA RIVER CHANNEL DEPTHS
MORGAN CHANNEL TO TOMAHAWK BAR
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 15-Mar-13

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT COLUMBIA RIVER DATUM (CRD)*				PROJECT DIMENSIONS			
	Left Outside Quarter	Left Inside Quarter	Right Inside Quarter	Right Outside Quarter	Date of Survey	Width (Feet)	Length STAT (Miles)	Depth (Feet)
Morgan Channel	44	45	45	42	12-Mar-13	600	1.5	43
Vancouver Lower Channel	47	48	48	39	11-Mar-13	500	1.0	43
Vancouver Range	43	43	43	40	11-Mar-13	500	1.3	43
Vancouver Upper Channel	46	43	44	42	11-Mar-13	500	0.9	43
Vancouver Lower Turning Basin	33	40	27	42	11-Mar-13	800	1.0	43
Vancouver Upper Turning Basin	36	30	28	23	11-Mar-13	800	0.9	35
	Mid Channel for Half Project Width							
		L Outside	Mid Channel	R Outside				
Tomahawk Bar		14	15	15	31-May-12	300	3.7	27

* For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx *Channel status reports*

Chart 18531 (Lower Panel) NM 31/13

COLUMBIA RIVER CHANNEL DEPTHS
TOMAHAWK BAR TO BONNEVILLE LOCKS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 15-Mar-13

CONTROLLING DEPTHS IN FEET AT COLUMBIA RIVER DATUM (CRD) * SEE FOOTNOTE					Project Dimensions		
Name of Channel	Left Outside Quarter	Middle Half of Channel	Right Outside Quarter	Date of Survey	Width (feet)	Length STAT (Miles)	Depth (feet)
Tomahawk Bar	14	15	15	31-May-12	300	3.7	27
Airport Bar	18	19	21	2-Oct-12	300	2.8	27
Government Island Lower Range	16	16	17	2-Oct-12	300	1.0	27
Government Island Middle Range	17	17	18	2-Oct-12	300	1.7	27
Fisher Quarry Channel Range	29	28	25	2-Oct-12	300	1.0	27
Government Island Range	11	25	29	2-Oct-12	300	1.1	27
Government Island Upper Range	12	16	19	2-Oct-12	300	0.8	27
Lady Island Range	14	19	20	2-Oct-12	300	2.1	27
Lady Island Channel and Upper Rge	28	29	24	2-Oct-12	300	0.9	27
Washougal Lower Range	22	27	29	3-Oct-12	300	1.5	27
Washougal Upper Range	19	21	26	3-Oct-12	300	1.1	27
Gary Island Range	16	16	16	3-Oct-12	300	0.6	27
Reed Island Range	13	16	13	3-Oct-12	300	2.2	27
Tunnel Point Channel	25	25	26	19-Jul-12	300	0.8	27
Rooster Rock Channel	25	25	27	16-Aug-12	600	1.5	27
Cape Horn Channel	34	33	30	16-Aug-12	300	2.1	27
Candiana Channel	29	38	32	16-Aug-12	300	1.0	27
Fashion Reef Lower Range	17	18	19	3-Oct-12	300	2.4	27
Multnomah Falls Bar Range	16	23	17	3-Oct-12	300	1.1	27
Multnomah Falls Turn	16	16	21	31-Oct-12	600	0.8	27
Multnomah Falls Upper Range	22	25	25	31-Oct-12	300	3.2	27
McGowans Channel	35	29	24	9-Aug-12	300	1.1	27
Warrendale Lower Range	20	21	21	9-Aug-12	300	0.9	27
Warrendale Upper Range	20	27	23	9-Aug-12	300	0.7	27
Hamilton Island Reach	23	28	28	9-Aug-12	300	1.0	27
Entrance to Bonneville Locks	20	18	22	7-Aug-12	300	1.2	27

* For Controlling Depth Information, consult the Local Notice to Mariners and/or the following Portland District US Army Corps of Engineers website: http://www.nwp.usace.army.mil/Missions/Navigation.aspx *Channel status reports*

Chart 18587 NM 31/13

COOS BAY, ISTHMUS SLOUGH AND CHARLESTON CHANNEL DEPTHS
TABULATED FROM SURVEYS AND REPORTS BY THE CORPS OF ENGINEERS - REPORT OF MAR 2013
AND SURVEYS TO MAR 2013

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 (MILES)	DEPTH (FEET)
ENTRANCE RANGE	38	40	37	3-13	---	1.9	37
ENTRANCE RANGE AND TURN	37	44	34	9-12	300	0.8	37
COOS BAY INSIDE RANGE	39	38	37	9-12	300	0.8	37
COOS BAY RANGE	37	38	37	9-12	300	0.9	37
EMPIRE RANGE	30	36	29	3-13	300-800	2.3	37
LOWER JARVIS RANGE	34	36	22	3-13	300-800	1.1	37
JARVIS TURN RANGE	37	39	34	3-13	300	0.6	37
UPPER JARVIS RANGE A	37	37	36	3-13	300	1.0	37
UPPER JARVIS RANGE B	34	36	32	2-13	400	1.4	37
NORTH BEND LOWER RANGE	36	38	34	2-13	400	0.4	37
RANGE AND TURN	34	38	34	2-13	500	0.4	37
NORTH BEND RANGE	26	38	37	2-13	400	1.1	37
NORTH BEND UPPER RANGES	32	37	37	2-13	400	0.8	37
LOWER TURNING BASIN	22	32	29	2-13	800	0.5	37
FERNDALE LOWER RANGE	35	39	35	10-12	400	0.4	37
FERNDALE TURN	27	36	35	10-12	400	0.1	37
FERNDALE UPPER RANGE	9	31	29	10-12	400	0.9	37
MARSHFIELD RANGE	33	35	26	10-12	400	0.4	37
MARSHFIELD RANGE TO ISTHMUS SLOUGH	24	17	30	10-12	400-600	0.9	37
ISTHMUS SLOUGH	19	20	19	4-85	150	2.0	22
CHARLESTON CHANNEL							
ENTRANCE	12	21	17	11-12	150	0.3	17
ENTRANCE TO BASIN	13	18	13	11-12	150	0.4	17
BASIN	16	16	7	11-12	250-500	0.2	16
BASIN TO BRIDGE	11	13	11	11-12	150	0.3	16

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