

21-Oct-16

REPORT OF NAVIGATION CHANNELS

EP 1130-2-520

**COLUMBIA RIVER - OREGON & WASHINGTON**  
ST HELENS RANGE THROUGH WILLOW LOWER RANGE

Minimum depths in each 1/4 width of channel entering from seaward

Authorized Project NAME OF CHART Name of Channel (Mileage)	Date of Survey	Feet Width	Miles Length	Project Depth	Mid-Channel			
					Left Outside Quarter Feet	Left Inside Quarter Feet	Right Inside Quarter Feet	Right Outside Quarter Feet
<b>ST. HELENS BAR</b>	<b>14-Oct-16</b>							
St. Helens Range (83.8 - 85.8)		600	2.0	43	42	44	43	40
St. Helens Turn (85.8 - 87.2)		600	1.4	43	43	45	45	43
<b>WARRIOR ROCK BAR</b>	<b>20-Oct-16</b>							
St. Helens Turn (87.2 - 87.5)		600	0.3	43	50	51	51	45
Warrior Rock Range (87.5 - 88.8)		600	1.3	43	42	44	44	43
Duck Club Turn (88.8 - 90.2)		600	1.4	43	42	44	44	43
<b>HENRICI BAR</b>	<b>20-Oct-16</b>							
Henrici Range (90.2 - 92.8)		600	2.6	43	42	44	43	42
Fales Channel (92.8 - 93.9)		600	1.1	43	44	44	44	41
<b>WILLOW BAR</b>	<b>18-Oct-16</b>							
Knapp Point Channel (93.9 - 95.7)		600	1.8	43	42	45	45	42
Willow Lower Range (95.7 - 97.8)		600	2.1	43	42	44	44	43

ENG Form 4020-R (Nov 1990)  
Reference is Navigation Chart No. 18524.  
Note: All Depths at Columbia River Datum.

COLUMBIA RIVER CHANNEL DEPTHS SAINT HELENS TURN TO TOMAHAWK BAR TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF 21-Oct-16								
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)
St. Helens Turn	43	45	45	43	20-Oct-16	600	1.7	43
Warrior Rock Range	42	44	44	43	20-Oct-16	600	1.3	43
Duck Club Turn	42	44	44	43	20-Oct-16	600	1.4	43
Henrici Range	42	44	43	42	20-Oct-16	600	2.6	43
Fales Channel	44	44	44	41	20-Oct-16	600	1.1	43
Knapp Point Channel	42	45	45	42	18-Oct-16	600	1.8	43
Willow Lower Range	42	44	44	43	18-Oct-16	600	2.1	43
Willow Upper Range	43	44	46	45	6-Sep-16	600	1.1	43
Morgan Bar	41	46	49	50	6-Sep-16	600	1.0	43
Morgan Channel	45	46	47	43	6-Sep-16	600	1.5	43
Vancouver Lower Channel	46	46	48	45	15-Oct-16	500	1.0	43
Vancouver Range	44	44	44	40	15-Oct-16	500	1.3	43
Vancouver Upper Channel	45	45	44	41	15-Oct-16	500	0.9	43
Vancouver Lower Turning Basin	34	39	34	44	10-Aug-16	800	1.0	43
Vancouver Upper Turning Basin	36	30	25	22	10-Aug-16	800	0.9	35
	Mid Channel for Half Project Width							
		L Outside	Mid Channel	R Outside				
Tomahawk Bar		15	16	19	10-Aug-16	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

Reduce size to **82%** of current size to print out to a size that matches tab boxes currently on NOAA charts.