CORPS OF ENGINEERS

U.S. ARMY

7,430,000 965,000 7,435,000 7,440,000 7,445,000

960,000 955,000 7,450,000

COLUMBIA RIVER

BROOKFIELD-WELCH ISLAND REACH

30 January 2016

COLUMBIA AND LOWER WILLAMETTE RIVERS
BELOW VANCOUVER, WASH. AND PORTLAND, OREG.

SCALE IN FEET

0 500 1,000 1,500 2,000 2,500

W A S H I N G T O N

O R E G O N

Magnetic North:
16° 19' E,
changing by -0° 9' W each year

VICINITY MAP

WASHINGTON

OREGON

Pacific Ocean

Columbia River

JOHN DAY DAM

THE DALLES LOCK AND DAM

BONNEVILLE DAM

MCNARY (LAKE WALLULA)

Portland

Vancouver

Astoria

Longview

Kelso

Salem

Corvallis

Eugene

Pendleton

Yakima

Kennewick

Pasco

Richland

Walla Walla

Hermiston

Umatilla

Boardman

Dalles

Hood River

Bend

Redmond

Prineville

Madras

Sisters

Albany

Lebanon

Sweet Home

Woodburn

Silverton

Molalla

Oregon City

Gresham

Troutdale

Camas

Washougal

Longview

Kelso

Rainier

Scappoose

St. Helens

Clatskanie

Rainier

Ridgefield

La Center

Woodland

Kalama

Castle Rock

Kelso

Longview

Cathlamet

Skamokawa

Grays River

Naselle

Ilwaco

Long Beach

Chinook

Ocean Park

Seaview

Raymond

South Bend

Tokeland

Westport

Aberdeen

Hoquiam

Cosmopolis

Montesano

Elma

Shelton

Olympia

Tumwater

Lacey

Yelm

Rochester

Centralia

Chehalis

Winlock

Toledo

Vader

Castle Rock

Kelso

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Montesano

Elma

Shelton

Olympia

Tumwater

Lacey

Yelm

Rochester

Centralia

Chehalis

Winlock

Toledo

Vader

1402-12

1402-11

00H-02-2

06-18-02

Jim Crow Lighted Buoy 19

Jim Crow Lighted Buoy 21

Jim Crow Lighted Buoy 22

Jim Crow Lighted Buoy 22A

STAFF GAGE

Rockland Light 27

Welch Island Channel Lighted Buoy 26

Welch Island Channel Lighted Buoy 28

Bayview Light 29

Welch Island Channel Lighted Buoy 30

Pillar Rock Upper Range Front Light

Pillar Rock Upper Range Rear Light

06-18-01

Pillar Rock Lower Range Front Light

Pillar Rock Lower Range Rear Light

Fitzpatrick Is.

Woody Island

Grassy Island

WASHINGTON CHANNEL

FLOW

THE EXISTING PROJECT

The existing project provides for a channel 43 feet deep and 600 feet wide from deep water in the Columbia River Entrance at river mile 3.0 to river mile 101.4 at the Mouth of the Willamette River.

NOTES:

Horizontal Coordinate System:
North American Datum of 1983 (NAD83), projected to the State Plane Coordinate System (SPCS), Oregon North Zone. Distance units in U.S. Survey Feet.

Vertical Datum:
Soundings are shown in feet and indicate depths below Columbia River Datum. CRD is 1.15 feet above the North American Vertical Datum of 1988 (NAVD 88 Geoid 09) at Columbia River Mile 28.5.

River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basins Commission, July 1972.

The information depicted on this map represents the results of a survey conducted on the date indicated and can only be considered to represent the general condition existing at that time.

** Shoalest Sounding per Quarter per Reach

STAFF GAGE AT DIKE: Northing: 960472 Easting: 7431183

CONDITION [X] PREDREDGE [ ] POSTDREDGE [ ]

LEGEND

- Federal Navigation Channel
- Federal Navigation Channel Centerline
- Pipeline, Submarine On Land Line
- Cable, Overhead
- Cable, Submarine
- Pipeline, Overhead
- Anchorage Area
- Dredged Material Placement Area
- Cable Area
- Pipeline Area
- Shoaling Area
- Buoy, Lateral
- Buoy, Cardinal
- Buoy, Isolated Danger
- Buoy, Safe Water
- Buoy, Special Purpose
- Beacon, General
- Contour Lines
- Benchmark
- Pylon Bridge Support
- Rock
- Obstruction Point
- Wreck-Submerged
- Staff Gage
- Recording Gage
- Shoalest Sounding**

2012 Aerial Photography data source: USDA, Service Center Agencies - Reference is Navigation Chart No. 18523

SUBMITTED: APPROVED:

CHIEF, WATERWAYS MAINTENANCE SECTION

RECOMMENDED:

CHIEF, SURVEY SECTION

SURVEYED: PLOTTED: CHECKED:

CL_08_BKWX_20160130