



**LEGEND**

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

**NOTES:**  
 Horizontal Coordinate System:  
 North American Datum of 1983 (NAD83-2011), 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 Mean Lower Low Water. MLLW is 0.26 feet below the North American Vertical Datum (NAVD 88 Geoid 09) at Columbia River Mile 2.0.  
 River mileage conforms to the River Mile Index of the Hydrology and Hydraulics Committee, Pacific Northwest River Basin 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 channel conditions existing at that time and is in support of channel maintenance only.  
 \*\* Shoaled Sounding per Quarter per Reach

COLUMBIA AND LOWER WILLAMETTE RIVERS  
 BELOW VANCOUVER, WASH. AND PORTLAND, OREG.  
**COLUMBIA RIVER**  
 MCR - APPROACHES  
 29 May 2014  
 SCALE IN FEET  
 0 1,000 2,000 3,000 4,000 5,000

SUBMITTED: \_\_\_\_\_ APPROVED: \_\_\_\_\_  
 RECOMMENDED: \_\_\_\_\_ CHIEF, WATERWAYS MAINTENANCE SECTION  
 CHIEF, SURVEY SECTION SURVEYED: \_\_\_\_\_ PLOTTED: \_\_\_\_\_ CHECKED: \_\_\_\_\_  
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