



**LEGEND**

--- Federal Navigation Channel	▨ Cable Area	■ Shoaling Area
— Federal Navigation Center Line	▭ Placement Area	⊙ Shoalest Sounding**
⋯ Cable Submarine	- - - Anchorage Area	⊥ Beacon, General
- - - Cable Overhead	⊙ Obstruction Point	⊗ Red Navigation Buoy
— Contour Line	⊙ Wrecks-Submerged	⊗ Green Navigation Buoy

**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 1.05 feet above the North American Vertical Datum of 1988 (NAVD 88 Geoid 09) at Columbia River Mile 27.0.

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.

The location of navigation aids are based on and provided by the U.S. Coast Guard.

2009 Aerial Photography data source: U.S.D.A., Service Center Agencies.  
Reference is N.O.A. Navigation Chart No. 18521.

\*\* Shoalest Sounding per Quarter per Reach.

Project Information:  
Drawing not to be used for navigation.  
Project Depth -35'  
Tide gauge  
Equipment statement

CONTROLS:  
LOCATION: RIO VISTA  
NOAA STATION: 9415316  
BENCHMARK: 5316 S 1996 (No PID)  
TIDE GAUGE: Nail @ 8.2 ft MLLW  
METADATA: Nail set by USACE 31 March, 2014

LOCATION: PORT OF WEST SACRAMENTO  
NOAA STATION: 9416131  
BENCHMARK: POWS1 (No PID)  
TIDE GAUGE: Nail @ 10.0 ft MLLW  
METADATA: Nail set by USACE 8 April, 2014

All horizontal positions and MLLW elevations were post-processed using public GPS reference stations in the area.



**DISCLAIMER:** The data represents the results of data collection for a specific US Army Corps of Engineers project. The data is not intended for use in any other project. The user is responsible for the results of any application of the data for other than its intended purpose.

**ACCESS CONSTRAINTS:** The United States Government furnishes this information as it is received, without any warranty, expressed or implied, concerning the accuracy, completeness, or reliability of the information. The United States shall be under no liability whatsoever to any person by reason of any use of the information furnished, and the user shall be responsible for any damage or loss resulting from the use of the information. The recipient agrees not to represent these data to anyone as other than Government provided data. The recipient may not transfer these data to others without first transferring this Disclaimer.

Chart Date:	Mar 09, 2015
Designed by:	PDT
Drawn by:	PDT
Checked by:	PDT
Approved:	Chief, Construction Branch
Surveyed By:	JOHN C. MORROW LT. COLONEL, C.E. DISTRICT ENGINEER
Plotted By:	PDT
Submittal:	Hydro Survey Team Leader
Recommended:	Chief, Hydro Survey Section
Approved:	Chief, Construction Branch

SAN JOAQUIN COUNTY  
CALIFORNIA  
**SACRAMENTO RIVER**  
POSTDREDGE SURVEY  
14 NOVEMBER 2014  
REACHES 1-4

Sheet Reference Number  
**31 of 35**