



TIDE NOTE FOR HYDROGRAPHIC SURVEY

DATE: February 13, 2004

HYDROGRAPHIC BRANCH: Pacific
HYDROGRAPHIC PROJECT: OPR-N438-NRT3-2003
HYDROGRAPHIC SHEET: F00487

LOCALITY: Columbia River, WA/OR
TIME PERIOD: June 6 - September 30, 2003

TIDE STATION USED: 943-9040 Astoria, OR
Lat. 46° 12.5'N Lon. 123° 46.1'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.418 meters

TIDE STATION USED: 943-9201 Saint Helens, OR
Lat. 45° 51.9'N Lon. 122° 47.8'W
PLANE OF REFERENCE (COLUMBIA RIVER LOW WATER DATUM): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 1.397 meters

TIDE STATION USED: 944-0422 Longview, WA
Lat. 46° 06.5'N Lon. 122° 57.4'W
PLANE OF REFERENCE (MEAN LOWER LOW WATER): 0.000 meters
HEIGHT OF HIGH WATER ABOVE PLANE OF REFERENCE: 2.001 meters

REMARKS: RECOMMENDED ZONING

Use zone(s) identified as: CR42, CR43, CR44, CR45, CR46, CR47,
CR48, CR49, CR50, CR51, CR52, CR53, CR55, CR56, CR57, CR58, CR59
& CR60.

Refer to attachments for zoning information.

TIDE NOTE FOR HYDROGRAPHIC SURVEY OPR-N438-NRT3-2003 cont.

Note 1: For project OPR-N438-NRT3-2003, the provided time series data at Astoria, OR (943-9040) are tabulated in metric units (meters), **relative to MLLW** and on Greenwich Mean Time on the new **1983-2001 National Tidal Datum Epoch (NTDE)**.

Note 2: The provided time series data at Saint Helens, OR (943-9201) and Longview, WA (944-0422) are tabulated in metric units (meters), **relative to Columbia River Low Water Datum (LWD)** and on Greenwich Mean Time on the new 1983-2001 National Tidal Datum Epoch (NTDE). **Retrieve verified water level data using the Station Datum option to retrieve water level data on Columbia River LWD.**

Thomas V. Mero 2/20/04

CHIEF, REQUIREMENTS AND DEVELOPMENT DIVISION