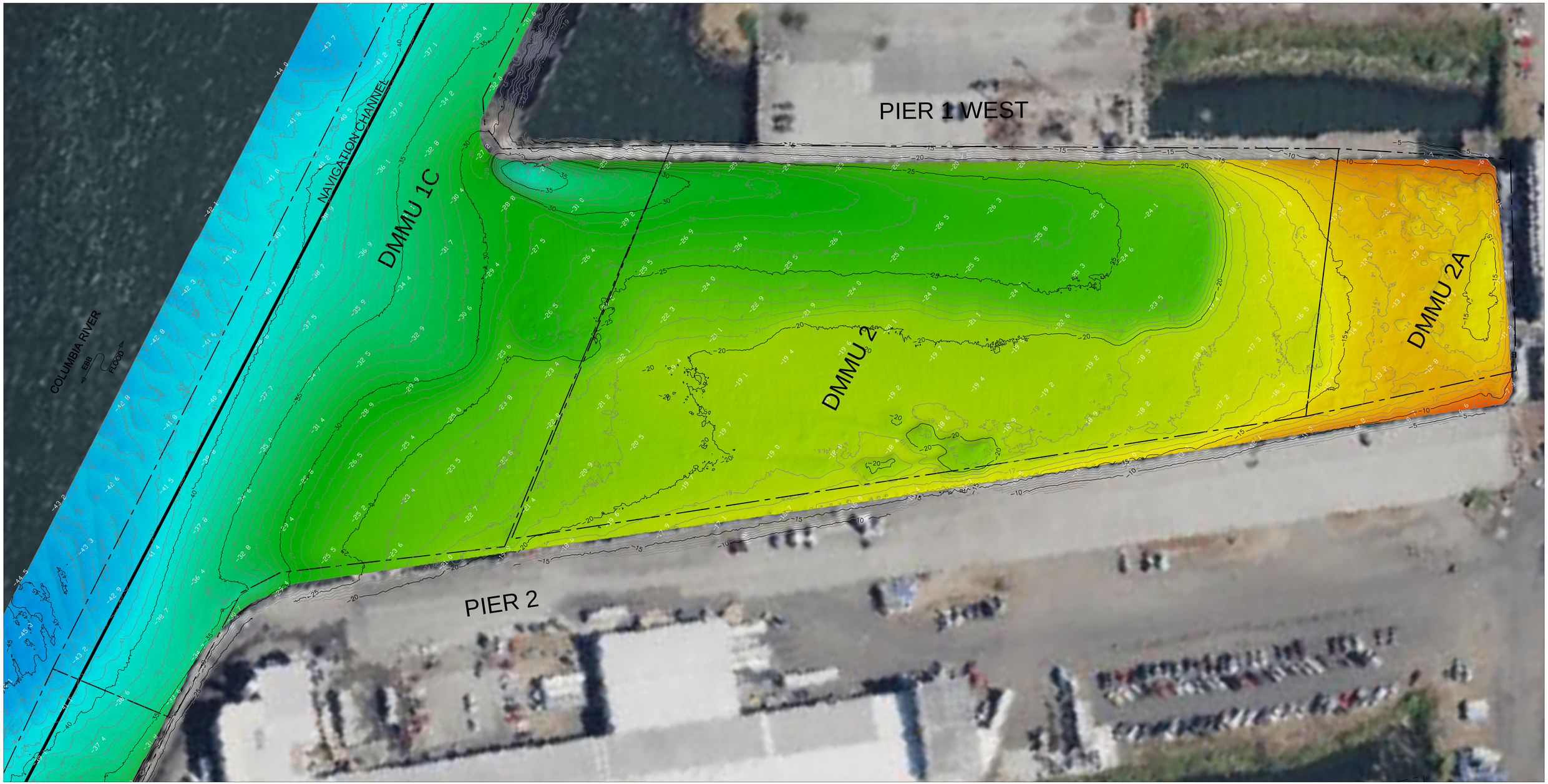
Port of Astoria

Central Waterfront Bathymetric Survey

September 10, 2025



NOTES:

1. HORIZONTAL DATUM: NAD 83 (2011) STATE PLANE COORDINATES, OREGON NORTH ZONE.
2. UNITS: U.S SURVEY FEET
3. VERTICAL DATUM: MEAN LOWER LOW WATER (MLLW). MLLW DETERMINED FROM USACE TIDE BOARD LOCATED ON THE SOUTH ASTORIA BRIDGE PIER.
4. CONTOUR INTERVAL: 1 FOOT. CONTOURS WERE DEVELOPED FROM A GRIDDED 1 FT X 1FT DATASET USING AN INVERSED WEIGHTED AVERAGE OF ALL SOUNDINGS.
5. ALL HORIZONTAL POSITIONING AND VESSEL ATTITUDE WAS PROVIDED IN REAL TIME USING AN APPLANIX POS-MV RTK GPS AIDED INERTIAL SENSOR RECEIVING RTK CORRECTIONS FROM A TRIMBLE R8 RTK BASE STATION.
6. SOUNDINGS WERE COLLECTED USING A R2SONIC 2022 MULTIBEAM SONAR SYSTEM AND DATA PROCESSING WAS COMPLETED USING HYPACK HYSWEEP SOFTWARE.
7. THIS BATHYMETRIC SURVEY IS REPRESENTATIVE OF THE GENERAL CONDITION OF THE RIVERBED AT THE TIME OF THE SURVEY. THE CONDITION OF THE BOTTOM MAY CHANGE AT ANY TIME AFTER THE DATE OF THIS SURVEY. DMMU BOUNDARIES PROVIDED BY THE PORT OF ASTORIA.
8. ALL BATHYMETRIC DATA WAS COLLECTED IN ACCORDANCE WITH THE U.S ARMY CORPS OF ENGINEERS HYDROGRAPHIC SURVEY MANUAL EM-1110-02-1003 (NOVEMBER 2013).

THIS HYDROGRAPHIC SURVEY WAS COMPLETED BY AN AMERICAN CONGRESS ON SURVEYING AND MAPPING CERTIFIED HYDROGRAPHER.

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