



**US Army Corps  
of Engineers**  
Portland District

# Hydrology, Hydraulics, and Geotechnical Design Section

The Hydraulics, Hydrology and Geotechnical Design Branch provides engineering services to support the Portland District and its customers. We provide services in the following areas: investigation, planning, design, construction, operation and maintenance of flood control and fish passage facilities, navigation, and hydroelectric projects. The Branch consists of six sections: Hydraulic Design Section, Hydrologic, Coastal, and River Engineering Section, Reservoir Regulation and Water Quality Section, Geotechnical Design Section, GIS, Survey and Mapping Section, and Concrete and Dam Safety Section. The Branch is primarily composed of hydraulic and geotechnical engineers along with other interdisciplinary professionals such as geologists, hydrologists, surveyors and cartographers. Overall, there are about 65 people in the Branch. The Portland District's Value Engineer and Flood Plain Manager are assigned to the Branch.



*Jetty at Yaquina Bay*

## Experience and Expertise

### How to reach us:

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|---|---------------------------|
| River Engineering                                     | GIS                       |
| Environmental Engineering                             | Surveying                 |
| Hydraulic Design Engineering                          | Cartography               |
| Geotechnical Engineering                              | Photogrammetry            |
| Hydrologic Engineering                                | Dam Safety                |
| Water Quality Analysis                                | Value Engineering         |
| Engineering Geology                                   | Foundation Design         |
| Water Management                                      | Concrete Materials Design |
| Ocean Disposal  | Flood Plain Management    |
| Sediment Quality and Sedimentation Analysis           |                           |
| Fish Passage, Fish Screens, and Monitoring Facilities |                           |
| Navigation Locks, Spillways, Outlet Works             |                           |
| Coastal Engineering and Structures                    |                           |
| Slope Stability, Embankment Design                    |                           |
| Underground Excavation Design                         |                           |

R e s p e c t e d ● R e l i a b l e ● R e s p o n s i v e