



OVERVIEW: McCormick & Baxter – Superfund Clean-up Site, Portland, OR

The McCormick & Baxter site is a former wood treatment facility which operated from 1944 to 1991 and is located on the banks of the Willamette River in Portland, Oregon. Chemicals used on the site included Creosote and other petroleum based products, which had penetrated into on site soils and were previously making their way to the Willamette River. The property encompasses 43 acres of upland area and 15 acres in the river. This site was listed as a Superfund Clean-up Site by the U.S. Environmental Protection Agency in June of 1994.

Clean-up activities at this site were divided into three areas: upland soils, groundwater, and river sediments. Armortec was involved in the third and final phase of site rehabilitation and provided approximately 300,000 square feet of ArmorFlex Articulating Concrete Block Mattress for erosion control on the river bank. In this phase of clean-up, existing non-aqueous phase liquid (NAPL) seeps were covered with Organophyllic clays, a material designed to absorb these compounds, and then a silt cap was placed over the entire river/upland interface. ArmorFlex Class 40L and ArmorFlex Class 70L mattresses were used in conjunction with a woven geotextile fabric and a layer of crushed stone to armor the silt cap and protect it from erosive forces due to wave action. Even though this site is located on the banks of the Willamette River, the design criterion was centered on stern waves from large ships heading up-river to the Port of Portland. After installation of the ArmorFlex Mattress System, upland areas were re-graded with clean fill materials and topsoil to facilitate vegetative growth.

Armortec production staff was located on site and directed production and shipping from this location. Because the product can be installed at high rates, Armortec staff was on site producing mattresses for approximately one month prior to the start of installation and continued operations on site for four months.

This previously industrial site on the banks of the Willamette River is now in the final stages of completion with the end result a clean, safe site that is ready for re-use. Previous impacts to water quality, wildlife, fisheries and the Willamette River basin have been mitigated through the cooperation of the U.S. Environmental Protection Agency, Oregon Department of Environmental Quality, Ecology and Environmental Inc., Remtech, and Armortec Erosion Control Solutions.



- PRODUCT:** ArmorFlex Class 40L and
ArmorFlex 70L Articulating
Concrete Block Mattress System
- AMOUNT:** 308,000 sf
- DATE:** July – September 2004
- OWNER:** State of Oregon Department of
Environmental Quality
2020 SW Fourth Ave.
Portland, OR 97201
- ENGINEER:** Ecology and Environmental, Inc.
2101 Fourth Ave., Suite 1900
Seattle, WA 98121
- CONTRACTOR:** Remtech
22908 NW 11th Ave.
Ridgefield, WA 98642
- SUBMITTED BY:** Clayton Fawcett, Armortec
Northwest Regional Manager
- SUBMITTED:** September 1, 2005

