





As the property owner began to work with the City to look at bank repair options and dredge the site marina, extreme levels of contaminants were found in the riverbank soils and the water. In order to complete improvements to the boatyard and marina, the property owner was required to cap and remediate the site at the riverbank. The Superfund project was transferred to the state and the land owner, state and City of Portland worked together to find a solution that would meet the above criteria and still withstand the forces of the river.



Through collaboration with the project engineer, Envirolok was recommended as the

vegetative solution that could also prevent contaminants from reaching the water. In addition to sealing the contaminated soils, the Envirolok system would need to show successful vegetative results while withstanding the challenges of the Columbia River.

To address the contaminated soils, the Envirolok units were used as a seal against the existing riverbank. By incorporating a cinched pattern of geogrid wraps with earth anchors, disturbance and excavation of the contaminated soils was limited. In addition, this section of the Columbia River experiences seasonal water level changes between 6 feet in height, numerous high water flood events and tidal influences that change the water level

assurances through bonds that the project improvements would; (1) provide 90% vegetative cover within the first year, (2) provide 100% vegetative cover by year 2, and (3) reduce contaminants to an allowable level by the end of the first year. By the end of the first year beyond construction, vegetative cover was over 90% and at 100% by year two.

