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## CASE HISTORY



**Project: Dike Soil Stabilization**

**Location: Fort Fairfield, Maine**

**Owner: Town of Fort Fairfield, ME**

**System: BBZ Duro-Soil**

**Area: Approximately 137 ft.**

**Completed: August 2000**

To protect buildings that are located near the Aroostook River from annual Spring flood and ice damage, the Army Corp of Engineers, along with Contractor Ed Pelletier and Sons, built a cement slurry/ earth dike along the South bank of the river. The A.C.O.E. were concerned about the integrity of the soil around five pipes that projected through beneath the dike at 5 different locations.

Test borings revealed that near all 5 pipes, the soil was porous and could possibly lead to a failure of the dike in the future. Larry Jean of Jean's Waterproofing, Inc. (JW) was contacted, and agreed that boring holes on each side of the pipe down to the weak area of soil around the pipes and grouting them with a low viscosity material would be appropriate. The holes were bored on each side of the 5 pipes to a depth of approximately 25 feet, then 3 in. PVC slotted sleeves were installed. JW would then stage grout the tubes by lowering a specially designed 2-component inflatable packer, developed by JW specifically for this type of application.



The packer is lowered to within 1 foot from the base of the hole and inflated to hold it in position. The product, BBZ's Duro-Soil, is then injected into the tube. After the calculated amount of resin is injected, the packer is deflated, pulled up 3 feet, re-inflated, and the process is repeated until all suspected areas are grouted and consolidated. Duro-Soil was suggested and chosen for this project because its low viscosity allows it to easily penetrate fine soil and sand and is also non hazardous. Once it has been incorporated into the soil, it cures within 3 minutes to form a solid mass.

The project was successfully completed within 3 days using 1,025 gallons of product.

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