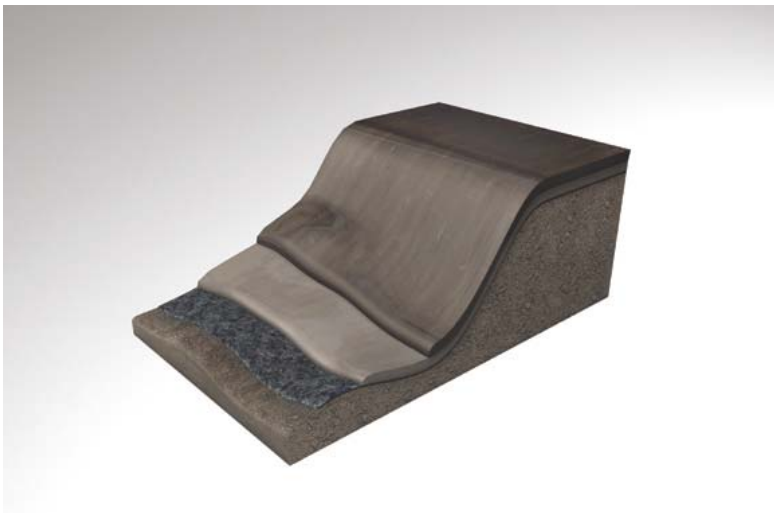




PROJECT PROFILE

Elastomeric liner safely contains 4,000 gallon fuel spill for three months until weather permits site clean-up



CUSTOMER

Louis Dreyfus Energy Corporation
Green Island, New York

PROJECT OVERVIEW

Louis Dreyfus Energy Corporation, a fuel oil wholesaler, operates a petroleum storage facility located on Center Island in the Hudson River. Barges deliver #2 fuel oil and kerosene to the terminal; product is then loaded into trucks for distribution.

KEY CONSIDERATIONS

Environmental Protection: With increasing awareness of preserving our environment, various industries must comply with evolving government regulations. Specifically, petroleum and chemical industries must protect against disastrous leaks and spills. Thiokol's liner systems provide an extra measure of protection against tank leaks and spills by reducing the permeability of existing secondary containment structures.

Reliability: On January 5, 1992, one of the company's storage tanks overflowed, causing a spill of approximately 4,000 gallons of #2 fuel oil. The earthen secondary containment area at the Green Island facility had been lined with 139,000 square feet of Thiokol's fabric-reinforced RLP liner system. In discussing the incident, Hugh Templeton, terminal manager, said, "I was expecting to have to redo a section of it, particularly along the water line where oil laid right against the liner, but it held up nicely."

Durability in Harsh Conditions: At the time of the spill, water and ice had accumulated on top of the liner and could not be immediately drained because of the ongoing barge operations. As a result, the lined dike area held the water and oil mixture. The containment structure could not be completely drained until the ice thawed, almost three months later. During that period, the area experienced frequent freeze/thaw conditions. The liner contained the spilled product throughout the entire period with virtually no damage to the system or seepage into the soil or groundwater. There was no evidence of staining or softening of the liner.

SYSTEM PRODUCTS

- **Thiokol® RLP 2378**
Chemical Resistant Elastomeric Liner
- **Thiokol® 2235M**
Industrial Polysulfide Sealant
(used at liner penetration points and fabric seams)

Thiokol is a registered trademark of Toray Fine Chemical Co. Ltd.

WWW.POLYSPEC.COM • Tel: 281-397-0033 • Fax: 281-397-6512 • 6614 Gant Road • Houston, Texas 77066

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