



The Challenge: Process dredged sediments at **variable flow rates; no lay-down area**

The Solution: SmartFeed™ system provides **chemical conditioning at real-time dredging rates**; Geotube® containers laid down in barges

The Results: Effluent safe enough for direct discharge to canal; significant reduction in silt volume; **67% dry solids capture rate**

Geotube® containers were adapted to operate completely on barges in the East River, adjacent to the site.

Geotube® units were custom-sized to fit the barges. Two layers of Geotube® units were stacked in each barge.





The patent-pending SmartFeed™ system provided automated polymer mixing, injection and real-time performance data for the project.



SmartFeed™ is a patent-pending technology of Mineral Processing Services, LLC. Geotube© is a registered trademark of TenCate. Used with permission.



Solids and flow were constantly changing, from 4% to 11% solids, and from 400 gpm to 1,500 gpm.



The SmartFeed™ system tracked changes in solids and flow, adjusting polymer injection to optimum level every five seconds.



Effluent was clean enough for direct discharge without additional treatment.



Silt volume was reduced from an estimated 52 barges (non-dewatered) to less than 1 barge of dewatered solids. The project was so successful that the same method was used for another facility upriver and approved for future applications.

In 45 days, 67% dry solids were achieved. Solids were removed from the barge and hauled to an EPA approved landfill in NJ.



For more information about the SmartFeed™ system, contact:

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