

SECTION FIVE

ADVANTAGES OF TREATMENT WITH ACT

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There are several advantages to using the ACT technology in addition to being effective in reducing organic and inorganic contaminants. When compared to other technologies some of the obvious advantages are as follows:

- Simple application - The technology is applied to the dredged sediments using conventional stabilization/mixing equipment that allows for large quantities to be treated in relatively short time frame. At full scale, the rate of treatment is expected to be several hundred tons per hour. Considering the quantity of Category III material that will potentially need to be treated, the viability of any technology should take into consideration the rate of treatment processing.
- The equipment needed to implement the ACT technology is readily available and given the proper location, could conceivably be scaled up to handle the expected quantities associated with this project within several months.
- Application of the ACT technology does not employ such mechanisms as high temperature, high pressure or hazardous reagents which tend to create side streams or effluents that require additional treatment and permitting.
- Assuming any technology will require some dewatering, using ACT does not create any effluents or side streams.

- The ACT technology will not detrimentally impact naturally occurring microorganisms. Sediments treated with ACT can therefore be used as fill material or landfill cover or blended with other materials for use as topsoil.

All of the above advantages combine to reduce the cost associated with implementation of the ACT technology to decontaminate the dredged sediments. The ACT technology has to be considered one of the most cost-effective alternatives available to address the decontamination of the NY/NJ Harbor sediments.