

Use of Hydraulic Dredging and Geotubes

Limitations
Capacity
Cost



The Latest and Greatest for the Great Lakes:
SPAC- AOC Workshop SVSU Nov 22, 2002
-Art Ostaszewski MDEQ-WD ostaszea@michigan.gov

Use of Hydraulic Dredging and Geotubes

Limitations:

Dredge Depth < 20 ft

Side slope must be stepped

Distance btw dredge and tube < 1 mile

No winter dredging



Use of Hydraulic Dredging and Geotubes

Capacity:

VERSI 6008 Dredge

80-100 cy/hr (Muck)

50-60 cy/hr (Sand)

GEOTUBE

100 ft tube = 400-450 cy sediment

(In-situ reduction of ~ 50% in volume)



Use of Hydraulic Dredging and Geotubes



Cost:

Synthetic Tube

~ \$20 lineal ft (up to 400 ft)
(200 ft tube costs \$2000)

Sediment Disposal

Not Contaminated = \$5 / cy (Land app)
Non Hazardous = \$15 / cy (Landfill)

Total Operation (ex-situ)

Not Contaminated = \$22-\$25 cy
Non Hazardous = \$35-\$45 cy

Use of Hydraulic Dredging and Geotubes

Questions:



-Art Ostaszewski MDEQ-WD ostaszea@michigan.gov