



Ocean City
2017 Dredge Material
Management Alternative
Discussion

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Howard Stainton Senior Center



2017 Dredge Material Management Alternative Discussion

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The City is interested in hearing from residents about an alternative plan which is being considered to provide dredge material management for the 2017 hydraulic dredge program. This program is required because legal challenges to recent bid have made the availability of CDF 83 doubtful for the 2017 dredge season. The City continues to work with Carol Beske and Eric Rosina of ACT Engineers to solicit feedback and develop a program that meets the City's needs.

Frequently Asked Questions

- Why is CDF 83 not available for the summer's dredging program?
- What is the timeline for the use of the Shelter Road site?
 - Hours of Operation?
 - Noise?
 - Traffic?
 - Will this affect sport use of the complex?
- How long will materials be left on this site?
- Isn't dredge material contaminated and will this pollute the runoff?
- Is this permitted by the regulators?
- Is this new technology? Where has it been done in New Jersey?



As the City has developed this alternative there are several questions that we have circulated in the media or have come to our office. These questions will be addressed throughout this meeting and answers have been summarized on a FAQ sheet available here.

Tentative 2017-2018 Dredge Program (Northern)



Mechanically Dredge City Channels to -4 MSL
Process Materials through Rt. 52 CDF

Nor'Easter
Bay Club
Bay Bridge



Ocean City anticipates that the mechanical dredging programs on the northern end of the island will continue. The dredge season is July 1 through October 1 each year. Material handling through the Rt 52 CDF will continue. Once material is sufficiently dewatered, transportation to the final reuse location will commence.

Tentative 2017-2018 Dredge Program (Southern)



Hydraulically Dredge to -4' MSL
Process Material through CDF 83



Carnival/Venetian
South Harbor
Bluefish/Clubhouse



With the emptying and reconstruction of CDF 83 anticipated to be completed, the City had planned to conduct a hydraulic dredging program of southern lagoons and process the material through CDF 83. However, the recent contract for material hauling (as well as the 2016 dredge contract) contained provisions to assist the City in selecting the lowest qualified contractor to complete the project. These provisions were challenged which delayed the City from issuing the Notice to Proceed on the contract. This 3 month delay, may make the CDF 83 unavailable for the 2017 dredge season.

Tentative 2017-2018 Dredge Program (Southern)



Hydraulically Dredge to -4' MSL
Process Material through CDF 83
Belt Press – Recycling Yard, Shelter Road
Carnival/Venetian
South Harbor
Bluefish/Clubhouse



As the City and the Dredge team analyze alternative plans to preserve the 2017 Dredge program in the southern areas, we began to discuss the possibility of using the recycling area along Shelter Road as a alternate dewatering site. It is this possibility that we are here to discuss today.

Possible Belt Press Processing Area



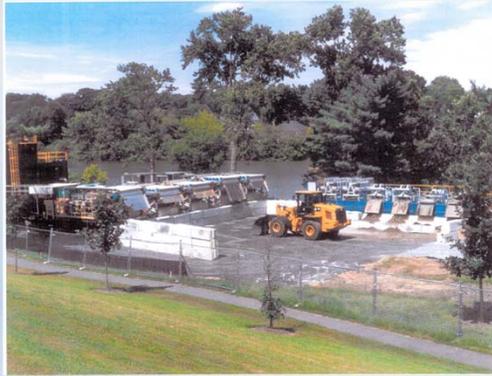
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For the anticipated volume of dredge material a $\frac{3}{4}$ to 1 acre area is required to stage dewatering and soil staging areas. This area would accommodate daily trucking (usually 5-10 trucks) transporting material to ultimate reuse location.

Belt Filter Press

- Proven Technology
- Daily Material Processing
- Low Odor
- Water returned to bay daily



Because material is continually dewatered, staged and removed from the site, the Belt Filter Press presents a viable alternative to manage materials from Ocean City's dredge program. The Belt Filter Press is an operation which uses a sequence of rollers and belts to physically squeeze water from the dredge slurry. The resultant product is typically well graded sediment which resembles cake batter and return water.

NJDOT – Shark River Filter Press (view from top)



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This is a video collected with a cell phone of a similar operation in operation here in New Jersey. This video was recorded from on top of the processing equipment while it was running. This equipment is typically spec'd with noise reduction technology and the loudest piece of equipment is the generator powering the system.

NJDOT – Shark River Filter Press (view from street)



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This is a video of the same site from ground level of the belt presses in operation. What you can notice in this video is that large amounts of sediment do not accumulate on site. The material coming off the filter presses shown here is collected and staged pending daily shipment to reuse facilities. Unlike the current operations in Ocean City, the material does not typically need weeks of dewatering before transport from the site.

Comprehensive Maintenance Dredge Permit



(Material Management)



These photos are better views of the operation and the organization of site operations.

Located within Existing Work Area



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Belt Press staging areas are typically scaled to the size of the project they are being used on. A typical operation for the Dredge Program Ocean City anticipates requires approximately $\frac{3}{4}$ to 1 acre of paved areas which with access to the water. The recycling yard within the public works area along Shelter Road could be used for this purpose.

Comments/Discussion

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Comments/Discussion – Questions can be directed to The City or the ACT Engineers team who will work to get you the information as it is available.

