Delavan Lake North Inlet Dredging Project

August 1, 2011 Project Update

Progress overview: As of Wednesday of this week, JND Thomas has completed approximately 25% of the work. They have removed in excess of 11,000 cubic yards of accumulated sediment from within the designated dredging area.

This is the 8” DSC Moray Dredge employed by JND Thomas on our project. This equipment produces dredged sediment and water as a slurry at the rate of 2,300 gallons per minute, or approximately 50 cubic yards of lake sediment per hour.

Here is a view of the dredge cutting head.

Here is the cutting head in action, is equipped with special pumps which all but eliminate dispersal of the sediment.

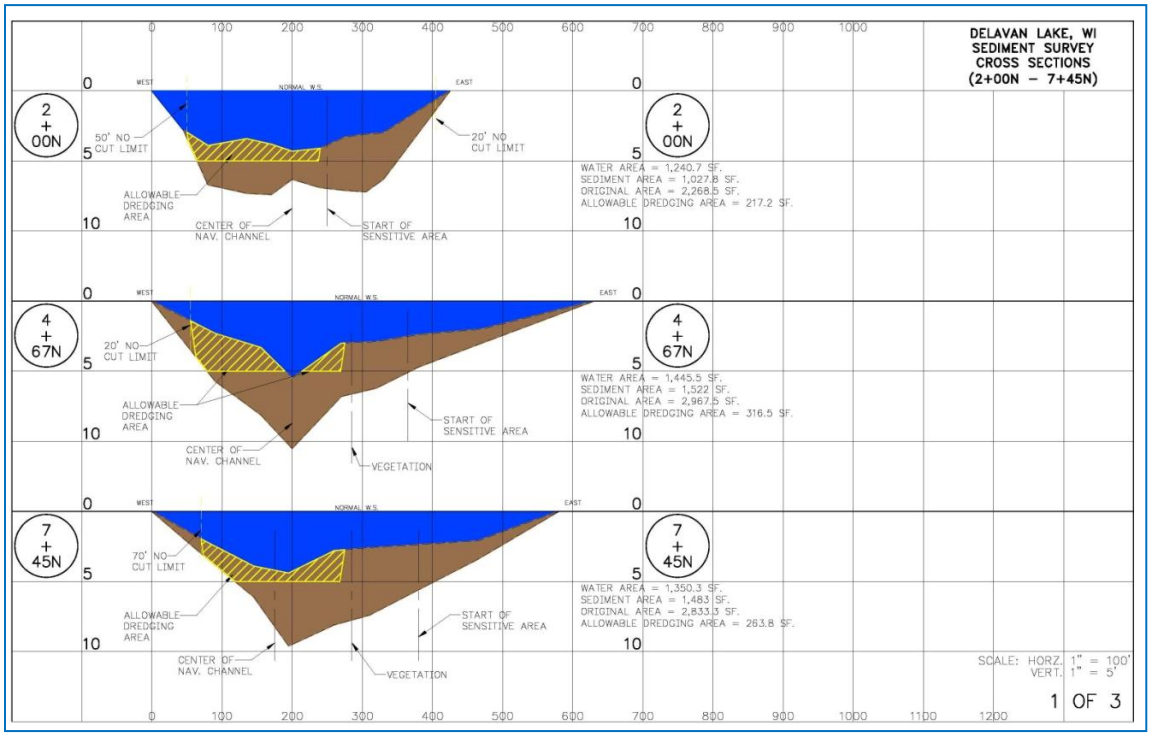
The cutter head is attached to a “ladder” which swings in a 17 foot arc at the desired depth and allows the operator to control horizontal and vertical movement.

Note the gas bubbles on the surface that are released by dredging into the sediment and decaying organic matter.

The material is pumped to the dewatering plant by hoses marked with red/orange flotation devices

The dredge is precisely positioned using GPS equipment.

The dredge operator is also guided by drawings produced by HDR Engineering.



JND Thomas personnel confirms that plan data conforms with the dredge area boundaries. HDR also verifies completed dredging before approving progress payments.

Here's a look inside the dredge cabin and it's controls. The dredge operator is in constant communication with dewatering plant personnel to synchronize the dredge with the dewatering processes.

Here's a look at the sound dampening measures taken by JND Thomas to reduce engine noise on the dredge.

The dredged sediment slurry takes about twenty minutes to complete the dewatering process and emerges as stackable soil as shown below.

The soil from this temporary storage area is loaded and hauled to the recycling site.

Keep checking this web site for project updates.

http://www.townofdelavan.com/inlet-dredging-project