

Delavan Lake North Inlet Dredging Project

October 18, 2011 Final Project Update

The Inlet dredging project is completed!! The last of 45,330 cubic yards of sediment was extracted late in the afternoon on Wednesday, October 5. Here is picture of the last remnants of dewatered sediment. JND Thomas and HDR finished the project fully three weeks ahead of schedule and within the originally established bid price cost parameters. In the course of completing the project we will have transported approx. 1,489 truckloads of compressed “decanted” sediment to a dedicated storage site and have effectively been removed. In addition, approximately 33,350 pounds of phosphorus will have been removed from the Inlet as a result of the dredging project. The entire project was completed UNDER budget and 26 days AHEAD of schedule.

JND Thomas Company, Inc. is a California based company with offices in Riverdale, California and Daytona Beach, Florida providing mobile dredging and, mechanical; dewatering services throughout the continental United States. JND Thomas specializes in water borne environmental and commercial remediation requiring minimal set-up space and high volume output under stringent water quality return standards.

JND CEO, Dennis Thomas said; “The Delavan project afforded our company an excellent opportunity to demonstrate how “green” technology can improve everyone’s lives today. The project was completed successfully with all stakeholders working together from inception, funding, implementation and completion.....My compliments to all participants and the exceptional people we worked with in Delavan”. The picture below includes a part of the very capable JND Thomas crew.



It is appropriate that the last few shovelfuls were loaded into the last truck by the people who made the project a reality. This Also included are, from the left: Richard Rashke, (The Guru"), supervisor of dewatering operations

Keith (aka Tex) Ayers the dredging operations supervisor, "Ernie", Odling's amiable truck driver (who transported all 1,489 loads and drove 12,060 miles) Dean Odling, Jane Harries, Town Chair, Ryan Simons who led the way to making the project a reality, Don Holst and Fran Flucke. Jane and Fran worked for years to make the project happen. Holst is a dedicated former member of the Town's Lake Committee who worked tirelessly to "make it happen". Without their dedication and determination it is doubtful the project would have ever been undertaken



Finally, speaking of determination, Vinnie Sipola, has worked tirelessly over a twenty year period to get the project done. Everyone thought it fitting Vinnie load the very last shovelful.

The dewatering site after removal of all the equipment. The equipment and the crew will be dispersed to new job locations in Hilton Head S.C. , and Lemoore, California. The site will returned to its original condition by the end of next week.



Each of the several project partners also deserves acknowledgement and our thanks. In addition to HDR and JND Thomas, a special thanks to the City of Delavan. Their financial support contributed to making the project possible.

Also our thanks to Mr. Jim Ritchie of the Wisconsin Waterways Commission. The Commission's investment made a real difference in organizing the financing necessary to make the project happen.

Special thank you are in order for the regulatory agencies, specifically the Wisconsin DNR'S Pam Schense, along with Fay Amerson, Matt Weidensee and Nancy Welch of the County's Land Use and Resource Management Department. Their help and guidance were invaluable and contributed significantly to the project's timely and successful completion.



The Town of Delavan's Fire Chief Gerald Edwards and his department also deserve a particular thank you! They were able to work around the dewatering operation located behind the fire house and the attendant inconveniences dewatering and trucking operations produced without any disruption in service. Thanks to all!

Everyone engaged in the project functioned as a real, seamless, mutually accountable team; here are Peter, Keith, and Richard after one of their regular progress meetings.



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JND Thomas Co., Inc.

Finally, particular thanks to Peter Berrini and HDR for their planning the project and managing it to completion. Over the last almost four years, through every twist, turn and complication, Peter has been there always, with ideas, help, and encouragement.

And of course Dennis Thomas, Tom Amaro, Tim Azevedo, Keith Ayers, Richard Rashke and all of the JND Thomas personnel for their excellent work, their cooperation with all the project stakeholders, and their willingness to share their knowledge and experience with all of us.



In addition, thanks to Odling Construction Co. of Delavan, WI for their reliable assistance with hauling the dewatered sediment efficiently and coordinating their work so closely with the production processes.

Summary of the "Outcomes" of the North Inlet Dredging Project

The Delavan Inlet Dredging Project Included:

- **Approximately 45,330 cubic yards of sediment dredged from the Inlet**
- **Deepening the Inlet channel to 6 feet in the south end and 5 feet in the north end**
- **The removal of approximately 33,350 pounds of phosphorus bound up in the nutrient rich sediment**
- **The removal of an additional 72 pounds of phosphorus from the lake water pumped during dredging and then returned to the lake after dewatering. (Note: the mean concentration for total phosphorus in the inlet flowing through the Rt. 50 Bridge has been 0.2 mg/l and the water returned to the lake after processing was typically 0.1 mg/l, which represents a 50 percent reduction in TP in the effluent return water when compared to normal Inlet TP concentrations).**
- **Reduced the propensity of soft, flocculent sediment to become re-suspended into the water column as a result of wind and boat induced disturbance, which also will help to reduce phosphorus re-entry into the water column that was previously bound up in lake sediment.**
- **The increased water depth within the channel area of the Inlet will also provide improved sediment and nutrient trapping capability for future loadings**
- **The deepened channel areas are likely to benefit the aquatic habitat within the Inlet.**
- **Improved recreational access to the ecologically rich Inlet area.**
- **With completion of the project, we now have current and detailed data regarding water and sediment depths which can be use to document rates of re-sedimentation. That data will permit future maintenance planning.**
- **The entire project was completed 26 days ahead of schedule and was accomplished under budget.**

Thank you for checking this web site for project updates.

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