



# Foth & Van Dyke

June 21, 2006

Mr. Craig Helker  
WI Department of Natural Resources  
Sturtevant Service Center  
9531 Rayne Rd, Ste IV  
Sturtevant WI 53177

Dear Mr. Helker:

RE: Nagawicka Lake Sediment Sampling

On behalf of the city of Delafield, this letter is to acknowledge receipt of the Wisconsin Department of Natural Resources (WDNR) sediment sampling plan for Nagawicka Lake (WDNR letter dated June 1, 2006). This letter also summarizes minor adjustments to the sampling plans since the Preliminary Application was submitted in April 2006.

The city of Delafield has decided to put the Mill Pond dredging on hold at this time, and therefore, will not perform sediment sampling in this area. The city will perform the required Mill Pond sediment sampling in the future if and when they decide to pursue dredging of this area. The Bark River Inlet will be sampled and tested in accordance with the June 1, 2006 letter.

Although not listed in the June 1, 2006 letter, the city of Delafield is also planning to obtain one composite sediment sample for elutriate testing and two composite samples at each of the upland disposal sites for soil background characterization. These tests were proposed in the Preliminary Application.

The elutriate test will be used to characterize the chemistry of carriage return water generated during dredging operations. The elutriate sample will be a composite from three sediment samples obtained from the Bark River, Northwest Channels, and the West Channels. Chemical analyses will be performed as specified in Table 9-3 of the Preliminary Dredge Application. The test will be conducted by a qualified laboratory in accordance with U.S. Army Corps of Engineers testing procedures. In addition, physical testing of the composited samples from each area will be conducted as follows:

- ◆ Grain-size distribution (sieve and hydrometer), ASTM D422,
- ◆ Specific gravity (ASTM D5550),
- ◆ Percent moisture content and solids (ASTM D2216), and
- ◆ Organic content (ASTM D2974)

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Soil samples will be obtained at the potential upland disposal sites. The purpose of these samples will be to establish background chemical concentration levels for soils from these properties, if they are selected for disposal. Sampling and analyses will be conducted as outlined in Section 9.3 of the Preliminary Application.

The city intends to conduct the sampling on Wednesday and Thursday, June 28 and 29, 2006. If desired, the WDNR is welcome to observe sample collection. We request written concurrence from the WDNR on the proposed additional sampling, as discussed in this letter. If you have any questions regarding the information contained herein or would like to be present during sampling, please contact Steve Dischler at (920) 496-6800.

Sincerely,

Foth & Van Dyke and Associates, Inc.



Steve A. Dischler, P.E.  
*Senior Project Manager*

cc: Tom Hafner, City of Delafield  
Jerry Bills, Lake Welfare Committee  
John Starke, Foth & Van Dyke