

**ATTACHMENT I
WEST BRANCH DUPAGE RIVER WATERSHED PLAN
DRAFT SCOPE OF WORK REVIEW**



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April 9, 2009

Mr. Ron Mentzer, Director, Community Development Department
City of Warrenville
3S258 Manning Avenue
Warrenville, Illinois 60555

Re: September 2008 Flood Investigation
West Branch DuPage River Watershed Plan Draft Scope of Work Review

Dear Mr. Mentzer:

We have reviewed the Draft Scope of Work for the West Branch DuPage River Watershed Plan developed by DuPage County. Below are some issues we identified for consideration. We recommend having a discussion of these comments in detail after you have had a chance to review them. It would also be helpful to discuss the Scope of Work with the County to be sure the City's intentions are clear.

- A. Our main recommendation is that the study limits be extended further downstream into Naperville. It is important to be able to evaluate how flood control initiatives identified for Warrenville will impact down stream. Operation of Fawell Dam is a significant issue to Warrenville so it is necessary that the model's accuracy be improved to allow for evaluation of dam operations on flood elevations downstream. It may also be worth discussing extending the study further upstream of Roosevelt Road for similar reasons.
- B. Regarding Item 1: As previously discussed, some other watershed changes that need to be considered are new development and land use changes, floodplain vegetation changes, and Interstate 88 bridge improvements, along with consideration of potential future development and land use changes.
- C. Regarding Item 2: It appears more direction needs to be given with respect to new survey data that may be required.
- D. Regarding Item 4: Limits of the high watermark data and the concentration of data points should be indicated.
- E. It appears the project may best be approached by separating it into two distinct phases. Phase I would generally be updating the FEQ model for current conditions and would include Items 1 through 6 up to the determination of overbank flooding areas. Based on Phase I, a Phase II scope would be developed to identify potential



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flood reduction alternatives for further study and recommendations and to update the West Branch DuPage River Watershed Plan document.

- F. Limiting the study to three alternatives is not sufficient. Breaking the project into two phases would allow for adequate identification of all feasible alternatives for consideration.
- G. Regarding Item 7: It is very probable that more than one alternative will provide substantial reduction in flood potential. Additionally, prioritization of identified improvements must be performed to steer the resultant improvement program.
- H. When considering watershed improvements to address reducing flood potential, future development and known capital improvements should be included in the alternatives analysis. This includes, but is not limited to, thorium removal projects, McDowell Temporary Dam removal, and any other area community projects or developments.
- I. Dam operation changes and the affects of removing the dam should be considered as part of the study.
- J. We strongly recommend creation of an oversight committee to provide input, consider assumptions and decisions, and communicate confidence in model development throughout the study. This committee would be integral to addressing issues such as current and future land use considerations, feasible flood control alternatives, and prioritization. This committee would also be necessary to create concurrence between the County and the City on the final recommendations.

Please feel free to contact us if you should have any questions or wish to discuss our comments.

Sincerely,

STRAND ASSOCIATES, INC.

A handwritten signature in black ink, appearing to read 'Michael R. Waldron'.

Michael R. Waldron, P.E.

A handwritten signature in black ink, appearing to read 'Nicholas J. Orf'.

Nicholas J. Orf, P.E., CFM