

**Maumee Watershed Conservancy District  
Hancock County Flood Diversion**

***MONTHLY PROGRESS REPORT #1  
FOR STANTEC CONSULTING SERVICES INC.***

**Period Covered:**

**9-August-2016 thru 30-September-2016**

**Submitted by:**

**Stantec Consulting Services Inc.  
4540 Heatherdowns Boulevard, Suite A  
Toledo, Ohio 43614**

**Telephone: (419) 380-8910  
Fax: (419) 380-8920**

## I. Invoice Summary and Project Financial Status

- Invoice Number 1107247 totaling \$127,600.00 is submitted for consideration.
- To-date 10% of the total authorized funds have been invoiced.

## II. Major Issues and Decisions

### Data Collection & Analysis

- Soil borings are underway. Anticipate completing field efforts by Oct. 10<sup>th</sup>.
- Existing hydraulic model has been converted to an unsteady-state model. We will continue calibration of the model.
- Survey cross sections collected by Bockrath are being added to the model, along additional bridge geometry.
- Development of a new precipitation model is in process. Our subconsultant, AWA, has gathered storm data and started analysis.

### Concept Refinement

- Alternatives identified and awaiting model conversion to fully evaluate.
- Several potential alternatives are being explored, including:
  - Modification of proposed channel to convey larger flows.
  - Extension of diversion channel connection to Lye and Blanchard parallel to SR 15.
  - Removal of low-head dams and riffle structures within City of Findlay.
  - Stream widening & channel modifications within the City of Findlay.
  - Upstream detention.
  - Replacement of existing RR bridge.
  - Lye Creek cutoff levee.
- Preparing for internal design charrette on 10/18.

### Permitting

- A pre-application meeting for permit coordination with USACE and OEPA was scheduled for Oct. 6<sup>th</sup>.
- Mannik & Smith Group (MSG) is under agreement to assist with Section 106 assistance.
- A proposal for additional services related to field activities for permitting is being submitted for consideration by the District.

## III. Schedule

Task	Proposed Timeline	Current Status	Anticipated Timeline
<b>A. Data Collection &amp; Analysis</b>			
A.1 – Update Hydraulic Modeling, H&H Data Collection & Analysis	9/9/2016	Complete	N/A
A.2 – Economics Impact Analysis	9/30/2016	Underway / Behind schedule	10/31/16
A.3 – Geotechnical Borings	10/28/2016	Underway	
A.4 – Surveying	9/23/2016	X-Secs Complete	N/A

A.5 – Pre-Permitting, Mussel Recon, Cultural	10/28/2016	Fieldwork starting	10/31/16
A.6 – Transportation	9/30/2016	Underway / Behind schedule	10/31/16
A.7 – Precipitation Modeling	10/31/2016	Underway / On-track	10/31/16
<b>B. - Concept Refinement</b>			
B.1 – Project Adjustments & Improvements	10/14/2016	Underway / Slightly behind	10/28/16
B.2 – Model Refinement	10/14/2016	Beginning / Slightly behind	10/28/16
B.3 – Estimating & BCR Analysis	10/14/2016	Underway / Behind Schedule	10/31/16
B.4 – Permitting Coordination	10/31/2016	Underway	11/14/16
B.5 – Report & Presentation	10/31/2016	Limited activity to-date	TBD

Respectfully Submitted

**STANTEC CONSULTING SERVICES INC.**

Adam C. Hoff, P.E.  
Principal  
Tel: (419) 380-8910  
Fax: (419) 380-8920  
adam.hoff@stantec.com