

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

***MONTHLY PROGRESS REPORT #5  
FOR STANTEC CONSULTING SERVICES INC.***

**Period Covered:**

**7-January-2016 thru 3-February-2017**

**Submitted by:**

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

**Telephone: (419) 380-8910  
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## **I. Invoice Summary and Project Financial Status**

- Invoice Number 1157809 totaling \$174,791.00 for the Phase 2 Proof of Concept efforts is submitted for consideration. To-date approximately 70.4% of the total authorized funds for the Proof of Concept have been invoiced.
- The above invoice includes two (2) subconsultant invoices. Invoices from Stormwater Engineering (\$3,337.50) and Jack Faucett Associates (\$15,065.00) are attached for your records.
- An additional invoice, Invoice Number 1157814 totaling \$77,691.25 for the authorized Supplemental Services related to field investigations for permitting and aerial survey, is also submitted for consideration. This invoice includes time applied by Stantec staff, as well as one (1) subconsultant invoice from the Mannik & Smith Group (\$72,406.25).

## **II. Major Issues and Decisions**

### **Data Collection & Analysis**

- New hydrological information is continuing to be integrated into the hydraulic model. Additional QA and calibration is also underway.
- Bi-weekly coordination conference calls are being held with Jack Faucett Associates (Faucett) for their review and update of the BCR for the proposed program of improvements. Faucett is currently in process of creating an updated BCR utilizing a regional economic development (RED) model, versus the national economic development (NED) model utilized by the USACE. Local meetings and interviews will occur in the coming months to complete this process.
- Provided a progress update presentation to the MWCD Board on January 17<sup>th</sup>.
- Supporting District staff in the development of a response to a freedom of information act (FOIA) due February 23<sup>rd</sup>.

### **Concept Refinement**

- Continuing analysis and refinements being made for technically feasible alternatives, as presented on January 17<sup>th</sup>.
- Prepared draft Hancock County Flood Risk Reduction Plan report that has been submitted for District review and consideration.

### **Permitting**

- Continued coordination with Mannik & Smith Group (MSG) for Section 106 consultation with SHPO.
- MSG has submitted a draft Phase I Archaeological Study for the field work east of I-75. Stantec staff are in the process of reviewing and providing comments.
- MSG and Stantec staff are collaborating on the development of a formal work plan for permit coordination to follow the steps necessary to provide permitting for the preferred alternative/recommended plan once selected.
- Stantec staff are preparing the draft report for the previously completed wetland delineations and threatened and endangered species investigations. This report will be amended later to correspond to the final recommended plan.
- The invoice provide by MSG primarily includes the hourly rates and expenses for the initial field work east of I-75.

**Aerial Survey**

- Low-level flights for aerial mapping are complete. No additional activity occurred in this billing period.

**III. Schedule**

<b>Task</b>	<b>Proposed Timeline</b>	<b>Current Status</b>	<b>Anticipated Timeline</b>
<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	Complete	N/A
A.3 – Geotechnical Borings	10/28/2016	Complete	N/A
A.4 – Surveying	9/23/2016	Complete	N/A
A.5 – Pre-Permitting, Mussel Recon, Cultural	10/28/2016	Complete	N/A
A.6 – Transportation	9/30/2016	Complete	N/A
A.7 – Precipitation Modeling	10/31/2016	Complete	N/A
A.8.A – Wetland Delineations & Habitat Assessment (Supplemental Task)	1/31/2017	On Hold	4/15/17
A.8.B – Archaeological Survey	1/31/2017	On Hold	4/15/17
A.9 – Aerial Survey	12/31/2016	Complete	N/A
<b>B. - Concept Refinement</b>			
B.1 – Project Adjustments & Improvements	10/14/2016	Nearly Complete	2/28/17
B.2 – Model Refinement	10/14/2016	Nearly complete	2/28/17
B.3 – Estimating & BCR Analysis	10/14/2016	Underway / Estimating Nearly Complete for the Draft Report / Formal BCR to be Completed in March 2017	3/31/17
B.4 – Permitting Coordination	10/31/2016	Complete	N/A
B.5 – Report & Presentation	10/31/2016	Draft Report Submitted February 3 <sup>rd</sup> . Final report to be provided in March 2017	3/31/17

Respectfully Submitted

**STANTEC CONSULTING SERVICES INC.**



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**APPROVAL OF PAYMENT:**

On behalf of the Maumee Watershed Conservancy District and in accordance with the Memorandum of Agreement, I hereby recommend payment in favor of Stantec Consulting Services Inc. by the Hancock County Commissioners in the amount of \$ 252,482.25.

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Clark Lynn Army, General Manager

Date