

# Progress Report

## 9<sup>th</sup> Quarterly Report February 1, 2017 – April 30, 2017

**Project Title:** *Cape May County NFWF BESCCH Grant*

**Institution:** *Cape May County Planning Department*

**Project Investigator:** *Brian O'Connor*

**NFWF Award #:** *42279*

**Award period:** *March 1, 2015 – March 1, 2018*

**Reporting Period:** *February 1, 2017 – April 30, 2017*

### Result/Progress to Date:

- Task 1- Surveying
  - Survey data field collection effort has been completed. Gibson also finished processing of the data and provided two signed and sealed copies of the drawing deliverables as per the survey scope. Gibson also provided hardcopies of title searches for 12 parcels within the marsh. This data was submitted to Cape May County. This task is complete.
  
- Task 2. Hydrology Study
  - Gathered and compensated water elevation data from tidal gages onsite. Gathered and analyzed Gibson onsite survey data. Performed tidal datum analysis on local data using Cape May NOAA gage to build reconstructed epoch. Established tidal boundary conditions. Constructed and ran Green Creek watershed model using ArcSWAT to establish fluvial boundary conditions. Prepared bathymetry raster files for SMS. Merged datasets on SMS. Prepared scatter data for model - checked/cleaned up data and added cross sectional data. Generated CMS-Flow telescoping grid - define resolution with polygons. Added CMS-Wave wind and wave boundary conditions from local NOAA buoy. Performed model calibration runs and analysis. Refined existing conditions model based on input from Dr. Alan Blumberg. Met with Cape May County to develop alternatives that were then modeled. Developed grids for each and performed model runs for each looking at morphological changes in the channels. Held internal model review calls with Dr. Alan Blumberg to review modeling results and discuss preferred alternative. Summarized and presented modeling results to Cape May County. Compiling results into technical memo.
  
- Task 3. Engineering Design of Selected Alternatives
  - Processed base map obtained from surveyor. Advanced preferred alternative, including water control structure designs and reinforced dune designs. Advanced plan set development.
  
- Task 4 – Coastal Ecology
  - Advanced NJDEP and USACE permit documents.
  
- Task 5 – Attend Three Public Meetings
  - 2 meetings have been completed and a third meeting will be schedule after the JPP meeting on June 14, 2017.

Current progress is in agreement with the original project schedule and milestone chart, attached to this report.

### Other Tasks completed but not listed in Milestone/Timeline Schedule Chart:

No activities conducted within the reporting period are outside of the original scope.

**Changes to budget and project plan:**

Although the project is currently operating within budget, the project is at risk to evolve beyond the defined scope and allocated budget if not closely managed. Specifically, stakeholder coordination and integration of external input into the process could evolve the project scope. Louis Berger will work closely with Cape May County to continue managing this risk.

Due to ongoing coordination with USFWS, Louis Berger has suspended advancing the permit application until this coordination is complete.

**Upcoming Activities:**

The following activities are planned for the upcoming project period.

- Advance preferred alternative and permit applications.
- Attend the JPP meeting on June 14<sup>th</sup>.
- Meet with USFWS on June 8<sup>th</sup>.

**Status of Financial Reports:**

Total in-kind expenditures for this quarter came to \$3,241.03 (see this Quarter In Kind attachment”) bringing the total “in kind” to \$50,525.71 One (1) invoice from Louis Berger was paid in this quarter in the amount of \$1,869.45. Attached find this quarter’s financial report and attachment C (February 1, 2017 – April 30, 2017) “Cape May County NFWF BESCCH Grant” as well as a State of New Jersey Payment Voucher in the amount of \$1,869.45 with all supporting documentation. I hope this satisfies your needs. Please call this office if you have any questions.

**Expenditure Report:**

Attachments Cs and the expenditure report included.

**Extension Requirement:**

No additional extension is foreseen at this time.

**Appendices (optional):**

**Other Tasks completed but not funded by the NFWF BESCCH project:**

None

Thank You,

  
Brian O’Connor