

**Data Sharing Plan for Project:
Linking Improvements in Water Quality and Migratory Fish Passage to Economic Benefits of
Fisheries and Water Use in the Cape Fear River**

The project “Linking Improvements in Water Quality and Migratory Fish Passage to Economic Benefits of Fisheries and Water Use in the Cape Fear River” (award # NA13NMF4630239), implemented by The Nature Conservancy (TNC) North Carolina chapter and the North Carolina Division of Marine Fisheries (NCDMF) will generate environmental data and information, including information on recreational and commercial economic impact and valuation of striped bass, american shad, and hickory shad in the Cape Fear River, GIS files that include data about soils, nutrients, and other information, summary information about financial and economic benefits to drinking utility authorities from investments in conservation, and summary research about impacts to fish health from nutrient pollution in rivers.

Datasets will provide:

- **Recreational and Commercial Economic Impact:** recreational angler values and expenditure information as well as commercial landings for fishing trips targeting these anadromous species in 2013 and 2014. Data will be collected by the NCDMF Recreational Statistics Program and Commercial Trip Ticket Program according to the procedures described in the 2012 NCDMF License and Statistics Annual Report (available at <http://portal.ncdenr.org/web/mf/commercial-fishing-annual-reports>). Data will initially be collected on recreational creel survey sheets or commercial trip tickets, and transferred to electronic media for storage and analysis. To maintain confidentiality, participants’ contact, identifying, or personal information may not be released. The study’s non-confidential data, calculations, and collection methods will be available to the public upon request starting on December 1, 2014. Summarized versions will also be available in the project’s outreach documents. Contact John Hadley at 252-808-8107 or john.hadley@ncdenr.gov for more information or to make a data request.
- **GIS files:** data and information on nutrient load and retention within the river basin which is generated by the following input data – rainfall, soils, elevation, evapotranspiration, and land cover along with estimates of nutrient loading for various land cover types. This data will be collected from September 1, 2013 through June 30, 2014. This data will be collected by The Nature Conservancy. All data collected is public record and not proprietary. This data will be stored on hard drives at the central TNC office in Durham, North Carolina. Analyses will be done with this data also by TNC according to the model protocols established by The Natural Capital Project (the makers of the InVEST model that TNC will be using). The output from the model will include quantitative nutrient retention and discharge data for the hydrologic units in the Cape Fear. The data can be readily distributed upon request as TNC has a cloud server and will be available anytime throughout the project period and beyond. Contact for this data: Margaret Fields; mfields@tnc.org; 919-794-4376.
- **Financial and economic benefits to drinking water authorities:** This data and information will be collected by the Environmental Finance Center (EFC) at the University of North Carolina as a sub-awardee of this grant. Their results and reports will be given to TNC and it is TNC that will make available the results of the analyses. The detailed data of the utility spending budgets and analyses will only be available to co-PIs and NOAA unless it is determined appropriate to share more widely. Summary information will be made available to the public upon request by TNC starting on

January 15, 2014. Contact for this information: Rebecca Benner; rbenner@tnc.org; 919-794-4369.

- **Summary research on fish health:** This data will be collected by a graduate student researcher from the University of North Carolina, Wilmington working with Professor Susanne Brander. The data will be a summary of published data – both scientific and grey literature – as well as potential conversations with experts. TNC and UNCW will determine the best location to store any data but all information and final report will be delivered to TNC. TNC will be responsible for sharing this information and will share it with the public through communications and outreach documents before the end of this grant and more detailed information after the student has the opportunity to publish any relevant findings or within two years of the project. Contact for this information: Rebecca Benner; rbenner@tnc.org; 919-794-4369.

All future sub-awardees not identified in this plan will have as a condition of their contract acceptance of this data sharing plan. Any additional data sharing stipulations for future sub-awardees may be outlined at that time and described in their contract.