Readme.pdf for EPA Urban Streams SP & EE Data Files

To replicate the stated preference and expert elicitation results reported in the final report, run the master.do file in Stata, Version 16 or later. The master.do file sequentially calls the following four files:

- 1-impute.do – imputes missing income and demographic data.
- 2-weights.do – creates sampling weights that account for non-response bias and sample non-representativeness relative to Census data.
- 3-analysis.do – restructures data to estimate logit models and welfare measures. File also exports survey data to text files that can be read into GAUSS.
- 4-case_study.do – pulls together water quality predictions under alternative management scenarios, expert elicitation data and models, and stated preference data and models to execute Upper Neuse River Watershed case study.

Raw survey data is found in data\streams_sp_data_final.dta.

Expert elicitation data found in data\ee_data.dta.

Summary statistics for Upper Neuse River Watershed case study found in data\case_study_scenarios.xlsx.

6-digit codes for 12,500 households invited to complete the survey found in data\invited_sample.dta.

Information on returned mailings (i.e., invitation letter, postcards) found in data\returned_mail.xlsx.

The following files are created when master.do is executed:

- imputed_data.dta – this is estimation_data.dta file with income and demographics imputed.
- weights_final.dta – this file includes the sampling weights.
- estimation_data.dta – this is the survey data reformatted for estimation in Stata.

The *log* directory contains log output files for the various do files. Virtually all quantitative estimates contained in the final report can be found in these files.

The *gauss* directory contains input files and executable GAUSS files to run fixed coefficient logit models (logit1.g), random coefficient logit models (logit2.g), and latent class logit models (logit3.g). To run these files, you will need GAUSS, version 18, or more recent and the maximum likelihood module.

Questions? Contact Roger von Haefen at roger_von_haefen@ncsu.edu.