**Methodology: Characterization of Sampling Site Catchments (StreamStats)**

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1. Go to the StreamStats website: <https://streamstats.usgs.gov/ss/>
2. Open the ‘Sampling\_Sites.csv’ file in Box
   1. PFAS Collaboratory Project 🡪 Aim 1 Hydrology & Water sampling 🡪 Data 🡪 Sampling\_Sites.csv
3. Copy and paste the latitude, longitude in the ‘Search for a place’ bar to the left of the map. Select the coordinates that pop up below the search bar.
4. In order to delineate a catchment area, a study area needs to be defined. Select North Carolina as the Study Area by clicking the blue ‘North Carolina’ button in the panel on the left side of the map.
5. Click the blue ‘Delineate’ button in the panel on the left side of the map.
   1. Pixelated blue lines will appear on the map, representing streams
6. Select a blue pixel with your cursor that is nearest to the sampling site, represented by a red circle.
   1. After selecting a pixel, StreamStats will define the catchment for the selected pixel
7. In the panel on the left side of the map, click the dropdown arrow next to ‘Basin Characteristics.’
8. Select the following Basin Characteristics:
   1. DRNAREA
   2. LC11BARE
   3. LC11CRPHAY
   4. LC11DEV
   5. LC11FOREST
   6. LC11GRASS
   7. LC11IMP
   8. LC11SHRUB
   9. LC11WATER
   10. LC11WETLND
9. Click the blue ‘Continue’ button at the bottom of the list.
   1. If parameters fail to upload, click the ‘Calculate Missing Parameters’ button above the list of selected parameters.
10. When all the values for the basin characteristics are calculated, scroll to the bottom of the panel to the left of the map, find the box next to ‘Basin Characteristics Report’ and ensure that it is checked. Click the blue ‘Continue’ button.
11. Open the ‘Sampling\_Site\_Catchment\_Characteristics.csv’ file in Box
    1. PFAS Collaboratory Project 🡪 Aim 1 Hydrology & Water sampling 🡪 Data 🡪 Sampling\_Site\_Catchment\_Characteristics.csv
12. Use the information in the report to fill out the missing fields in the ‘Sampling\_Site\_Catchment\_Characteristics.csv’ file.

\*To ensure reproducibility, confirm that the coordinates of the selected blue pixel (step 6) match the ‘Selected Coordinates’ field in the ‘Sampling\_Site\_Catchment\_Characteristics.csv’ file.