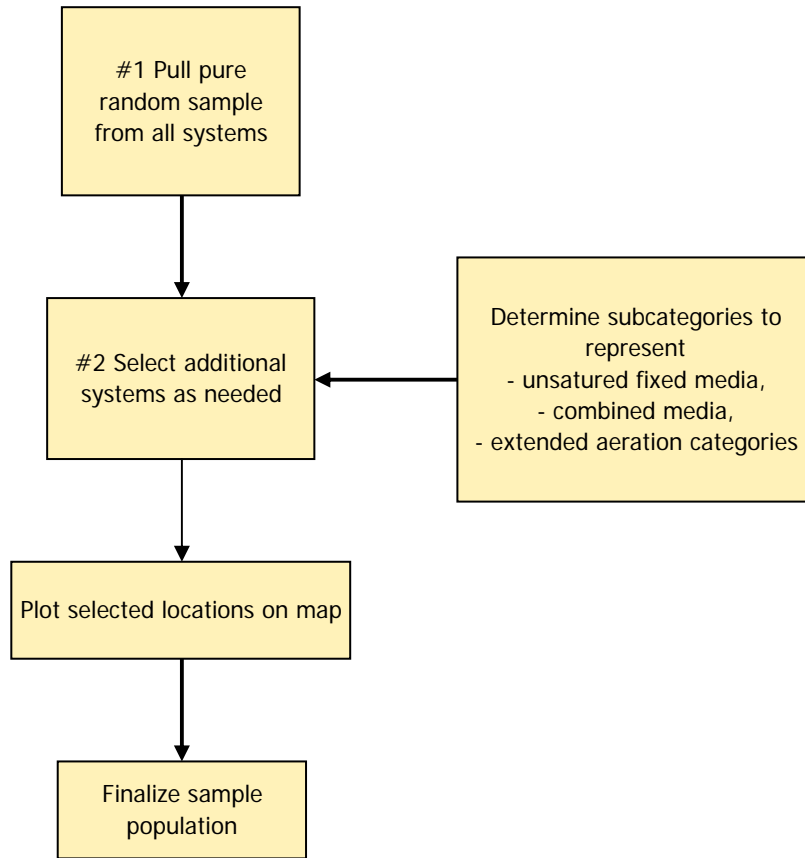


Sample Selection Flowchart

Advanced System Performance Eval.



Process:

#1 Pull random sample: This sample will give a snapshot of operational status and management of all systems. System selection was done in the following manner in Excel: all records with their unique identifier (address) were put into one long list and then create a new column titled "Random Number" with the formula "=RAND()" copied all the way down. The values of the "Random Number" column were used to create an additional column in the list with actual numbers and no formulas, and the formula column deleted. By sorting by random number, and selecting the first xyz systems, a random sample was drawn. xyz was 700 (600 sites and 100 reserve sites (abandoned, inaccessible...))

#2 Amend to ensure treatment comparison samples are included:

Assign a code to each of the three target groups as a separate column (i.e. for the treatment process sub-sample: F (fixed media), C (combined media), and E (extended aeration)). 36 systems (30 systems and 20% reserve) will be selected to represent each approach.

Further subcategorization will be used to ensure representation of several brands and approaches (e.g. aspirator vs. diffuser), to determine how many (x) of a particular brand/technology will be used.

For each subgroup, the first x systems of the random list will be selected. This ensures maximum overlap with the random sample of all systems (first 700 systems on the random list) and minimizes additional sampling.