



SYSTEM MAP SUBMISSION GUIDELINES

North Carolina General Statute 143-355(l) requires that an up-to-date system map be submitted at least every five years. If you have an existing system map on file with the Division of Water Resources, review the map to ensure it is satisfactory. If an update is necessary, use the following submission guidelines:

The Local Water Supply System is transitioning to GIS based maps. The Division of Water Resources is requesting that systems provide a geographic information system (GIS) shapefile, Keyhole Markup Language (kml) file, or geodatabase of their current service area. This information will be used to develop a statewide dataset of service areas. Having a dataset of this type will have the following benefits:

- Identification of potential interconnections for emergency situations including drought, mechanical failure, and contamination,
- Help identify opportunities for financing or technical support, and
- Simplifying future revisions to service area and public water systems facilities maps.
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If a GIS shapefile is to be submitted, please combine the seven shapefile components, .shp, .shx and .dbf, .prj, .xml, .sbn and .sbx into a zipfile for uploading.

The map of the water system should show:

- 1) the water system service area boundary,
- 2) points of intake and discharge,
- 3) wells,
- 4) water and wastewater treatment facilities, and
- 5) water and wastewater interconnections with other systems.

Also, show any future points of intake or discharge, wells, water and wastewater facilities, water and wastewater interconnections, and planned service area boundary extensions.

Use the symbols and colors listed below to label points of interest on the map.

System Map Legend

					
Water Treatment Plants	Surface Water Intakes	Ground Water Well	Finished Water Connection	Wastewater Connection	Wastewater Discharge
Blue	Blue	Green	Black	Black	Red

If a GIS file is not available, system maps may be submitted in the following formats:

- .pdf files
- .gif, .jpg, or .bmp files

If the size of the file(s) is larger than 5MB, please contact us for other submission options.

If submitting the system map by U.S. Mail, be sure to include:

- A paper copy of the map printed on 8-1/2" x 11" or 11" x 17" paper only.
- A CD containing the system map in one of the above listed formats.

Cut out the address below and affix it to the envelope.

Division of Water Resources
Water Supply Planning – LWSP
1611 Mail Service Center
Raleigh, NC 27699-1611

If you have any questions regarding the system map requirements, please contact the Division of Water Resources at lwsp@deq.nc.gov or (919) 707-9000.