

GIS Inclusions/Exclusions Guidelines - April 2008, Revised October 2011

North Carolina Board of Examiners for Engineers and Surveyors

This chart, while not all inclusive, assists in determining items of GIS data that are included or excluded from the definition of Land Surveying in G.S. 89C-3(7). The definition includes all location data that is issued for an authoritative purpose. Authoritative shall mean presented as trustworthy and competent for reliance upon by the public or if provided to a stated accuracy.

<u>Board Description</u>	<u>GICC Data Layer Description</u>	<u>Land Surveying Committee Responses</u>
Orthophotography	Large-scale scanned and rectified aerial photographs	Inclusion
Cadastral	County-based private and public property boundaries including easements	Inclusion
Roads	Centerlines, including rights-of-way	Inclusion
Municipal Boundaries	City/town boundaries	Inclusion
County Boundaries	County borders	Inclusion
ETJs	Extra-territorial jurisdictions – areas not in a municipality, but under authority of the city or town	Inclusion
Surface Waters	Locations and names of streams, rivers, lakes, ponds, etc., including mean high water marks	Inclusion - Locations and names of streams, rivers, lakes, ponds, etc., including mean high water marks and when the survey is done to determine authoritative location of stream, waterway or location of mean high water.
Geodetic Control	Horizontal and vertical survey control locations	Inclusion
Elevation	Ground elevations (depicted as contours, X/Y/Z points, elevation models, TINs?)	Inclusion
Land Use	Cadastral-based land use	Exclusion
Land Cover	Statewide land cover - 1996	Exclusion
Flood Zones	Areas inundated by flood waters (1% annual chance, .2% annual chance, flood ways)	Inclusion
Soils	Soil Survey Geographic (SSURGO) database produced by US Dept. of Agriculture, Natural Resources Conservation Service	Inclusion if used to determine authoritative location of soils. Determination of soils to be done by Soil Scientists.
Public Lands	Non-taxable lands maintained in county cadastral databases	Inclusion
Railroads	Locations of railroad lines including rights-of-way	Inclusion
Airports	Airport/airfield property boundaries and easements	Inclusion
Schools	Point locations of public and non-public grade schools	Exclusion
Colleges/Universities	Point locations of state universities and private colleges and universities	Exclusion
Hospitals	Point locations of hospitals	Exclusion
Storm Surge Inundation	Estimated coastal areas inundated by hurricane storm surge	Inclusion for PEs and PLSs. Models are developed by PEs using data collected by PLS.
Surface Water Intakes	Point locations where communities draw raw water from a lake, river, or stream, treat it, and distribute treated water to customers	Exclusion
NPDES	National Pollutant Discharge Elimination System -locations of individually permitted wastewater discharged into surface waters	Exclusion unless federal, state or local authority requires survey.
Police Stations	Point locations of police stations	Exclusion
Fire Stations	Point locations of fire stations	Exclusion
Landfills	Point locations of municipal/county landfills	Exclusion
Watersheds	Water supply watersheds	Inclusion
Wetlands	Wetlands areas from the US Fish and Wildlife Service, National Wetlands Inventory	Inclusion

Hazardous Disposal Sites	Areas identifying locations of uncontrolled and unregulated, hazardous waste sites (formerly called superfund sites).	Inclusion
Building Footprints	Perimeter outlines of buildings	Inclusion when authoritative location is required, such as Land Title Surveys, Brownfield Surveys, etc.
Future Land Use	Cadastral-based, potential land use based on current zoning	Exclusion
Water Lines	Water pipe distribution network and accompanying features	Inclusion
Sewer Lines	Sanitary sewer pipe network and accompanying features	Inclusion
Stormwater Lines	Stormwater network and accompanying features	Inclusion
NC House Districts	Boundaries of NC House Districts	Exclusion
NC Senate Districts	Boundaries of NC Senate Districts	Exclusion
US Congressional Districts	Boundaries of US Congressional Districts	Exclusion
Census Boundaries	2000 US Census boundaries for tracts, blocks, and block groups	Exclusion
Power Transmission Lines	Transmission network and accompanying features	Exclusion for inventory applications. Inclusion where survey is for authoritative location or a stated accuracy.
Natural Gas Pipelines	Transmission network and accompanying features	Exclusion for inventory applications. Inclusion where survey is for authoritative location or a stated accuracy.
Septic Tanks	Point locations of septic features	Exclusion for inventory applications. Inclusion where survey is for authoritative location or a stated accuracy.
Telecommunication Lines	Telephone, cable television, and other communication features such as towers	Exclusion for inventory applications. Inclusion where survey is for authoritative location or a stated accuracy.
Wells	Point locations	Exclusion for inventory applications. Inclusion where survey is for authoritative location or a stated accuracy.
Mineral Rights Boundaries		Inclusion if for authoritative location or stated accuracy of the boundary.
Mining Resources		Exclusion
Greenways		Inclusion when the survey is to determine the fee simple or easement corridor of the greenway.
Sidewalks		Exclusion
Cemeteries		Exclusion if general point location for inventory purpose of locating cemetery. Inclusion if the boundaries of the cemeteries are being determined or established.
Archaeological Sites		Exclusion
Historic Sites and Structures		Exclusion