

Constituent	NC DHHS		DENR GeoChemical Atlas*	EPA
	Fact Sheet	Treatment Option	Groundwater	
Arsenic	Yes	Yes		Info
Chromium vi	Yes	Yes		Info
Cobalt				
Coliform	Yes			Info
Iron		Yes		Info
Lead	Yes	Yes		Info
Manganese	Yes	Yes	Map	Info
Mercury	Yes	Yes		Info
Nitrates	Yes	Yes		Info
Thallium	Yes			Info
Vanadium	Yes		Map	

***GeoChemical Atlas of North Carolina**

- A geochemical atlas of North Carolina, was prepared from North Carolina Geological Survey bulletins and open-file reports using National Uranium Resource Evaluation (NURE) stream-sediment, groundwater, and surface water data. The NURE data were collected as part of a national exploration program conducted by the United States Geological Survey. Before termination of the NURE program, sampling of nearly the entire state (48,666 square miles of land area) was completed and geochemical analyses were obtained.
- The data are displayed in image maps using inflection points in order to effectively show ranges of data. An inflection point is a color style that provides interpolation of data by displaying colors at the top and bottom ranges of a data set.
- The North Carolina NURE database consists of stream-sediment samples, groundwater samples, and stream-water analyses. The statewide database consists of 6,744 stream sediment sites, **5,778 groundwater sample sites**, and 295 stream-water sites.
- The atlas provides general indications of geochemical distribution patterns and should not be used for site-specific studies. Limitations of the NURE database are found in Reid (1991, 1993b,c).
- Groundwater analytical results are shown as parts per billion in the NURE data maps, which is equivalent to micrograms per liter. Groundwater results are typically reported as micrograms per liter.