

# **Northern Trinity Groundwater Conservation District**

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## **Hydrogeologic Report Guidelines:**

These guidelines were developed by Northern Trinity Groundwater Conservation District to guide completion of Hydrogeologic Reports required under District Rule 5.10. All Hydrogeologic Reports must contain the following items:

- The location of the well or wells associated with the new or amended operating permit
- The actual or proposed diameter, depth and completion interval of each well
- A description of the geologic and hydrologic conditions at the site, including:
  - the depths and thicknesses of each aquifer at the site (Woodbine, Paluxy Aquifer, Glen Rose, Twin Mountains, etc.)
  - the current measured or estimated water levels in each aquifer
  - the estimated horizontal and vertical hydraulic conductivity of each aquifer
  - the estimated storativity and, if applicable, specific yield of each aquifer
  - the data sources and methods used to develop each of the items above. For example, include any drillers reports, geophysical logs and aquifer test data used.
- An analysis of the estimated drawdown after 1 year and 10 years of production in the well or wells associated with the operating permit and any registered wells within a 1-mile radius. The analysis must include a description of the methods and tools used to develop the estimated drawdowns. Drawdown estimates should only reflect impacts from the wells associated with the new or amended operating permit. It is not necessary to evaluate impacts due to pumping from wells not associated with the permit. Upon request, the District will provide information on the locations and depths of nearby registered wells for this item.
- The seal and signature of the Texas licensed professional engineer or geoscientist responsible for the above analyses.

The District encourages all applicants to notify and work with the District throughout the completion of any Hydrogeologic Reports. If you have any questions about these guidelines, please contact Northern Trinity Groundwater Conservation District at (817) 249-2062.