Trinity Aquifer GAM Refinement-Medina Lake Area

Owner:
Medina County Groundwater Conservation District
1613 Avenue K, Suite 105
Hondo, Texas 78861
Ms. Luana Buckner
(830) 741-3162

Client:
Same as above

Location:
Northeast Medina County, Texas

Services:
Groundwater Availability Modeling

Performance Period:
2003-2004

Project Cost:
$20K

Key Personnel:
Craig Pedersen
Project Principal

Grant Snyder, P.G.
Senior Hydrogeologist
Project Manager

Dr. Steven C. Young, P.E., P.G.
Senior Hydrogeologist

Project Background

The Trinity Aquifer in northeast Medina County, Texas in the vicinity of Medina Lake is currently undergoing significant land and real estate development with a burgeoning population. This increased population is creating significant stress upon the groundwater resources of the Trinity Aquifer in that area. The Medina County Groundwater Conservation District tasked URS Corporation to conduct a refinement of the Texas Water Development Board (TWDB) Trinity Aquifer Groundwater Availability Model (GAM) in that area. This model will serve the MCGCD as a planning tool in the development of rules for the management of groundwater resources in that area.

The MCGCD has requested that URS to conduct groundwater modeling using the Trinity GAM as base model. Specific services provided in the investigations were:

- Assimilation of groundwater wells data;
- Assessment and refinement of existing geological and hydrogeological model.
- Trinity GAM refinement; and
- GAM runs simulating projected groundwater use in the Medina Lake area.

The project deliverable was a comprehensive report that contained a refined Trinity GAM. This model was reviewed by the TWDB and presented by them as an exemplary use the GAM program products..

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