Western Travis County Hydrogeology Studies

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Travis County: Vicky Kennedy

Southwest Travis County GCD
August 8, 2018
Scope of Study

- Characterize the groundwater resources in western Travis County.
  - Collect hydrogeologic data and well information
  - Sampling and mapping activities

- Provide educational and technical information for the public.
  - Digital databases of information
  - Publications and presentations
Study Area
Continuation of Collaborative studies with Travis County

- Multiport well
- Monitor wells
- Water sampling
- Geophysical logging
- Flow measurements

Travis County Multiport Monitor Well (2017)
Multiport Monitor Well

Long-term data collection:
• Fluid pressure (water levels)
• Hydraulic conductivity (slug testing)
• Sampling (geochemistry)
Borehole Drilling

Completed 2/16/2017
Total depth 717 ft
Multiport Well Design

Drill cuttings

Geophysical Log
Multiport Well Design

Drill cuttings

Geophysical Log
Installation of Multiport System

Multiport design

Installing into borehole
Multiport
Completed

February 23, 2017

14 Zones: Upper, Middle, and Lower Trinity Aquifer units
2019 Project Deliverable: Hydrogeologic Atlas of Western Travis County

Model and example from 2010 Atlas
Geologic Mapping
Geologic Cross Sections

7-1 STRATIGRAPHIC CROSS SECTION A-A'
Hwy 290 Dip Cross Section
Alex G. Brook, P.E., Douglas A. Haynes, P.E.,
and William B. Lightner.

7-2 STRUCTURE CROSS SECTION A-A'

[Detailed geological cross sections and annotations]
Groundwater Flow
Groundwater Quality
Project Deliverable

Provide educational and technical information for the public (August 2019)

- Digital databases of information
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Model and example from 2010 Atlas
Questions?

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