

Texas Water Development Board (TWDB) Contract Number 1600011948

Identification of Potential Brackish Groundwater Production Areas – Blaine Aquifer

Raw data deliverables

December 14, 2016

In 2015, the 84th Texas Legislature passed House Bill 30, directing the TWDB to identify and designate brackish groundwater production zones in four aquifers and to report to the legislature by December 1, 2016. To meet one of those legislated requirements, the TWDB contracted a project to map the brackish groundwater in the Blaine Aquifer. This folder contains instructions on how to obtain the data associated with the project.

For more information on House Bill 30, visit the following TWDB website: <http://www.twdb.texas.gov/innovativewater/bracs/HB30.asp>

Data files in this folder include:

- [_Notes_About_This_Data_Blaine.pdf](#)
- GIS_Final folder
- GIS_File_names.xlsx
- Blaine 3D Geologic Model Viewer.Ifview

The raw final data provided by the contractor does not contain known errors. The TWDB has not reviewed or refined the data in this folder and is providing it as a public service. Well logs and stratigraphic picks have been incorporated into the BRACS Database. The most recent version of the BRACS database can be downloaded from <http://www.twdb.texas.gov/innovativewater/bracs/database.asp>.

Geophysical well logs used for the project are available for download from the TWDB Water Data Interactive Groundwater Viewer Brackish Groundwater well markers. If larger sets of well logs are needed, they may be provided by request using the instructions on the BRACS Geophysical Well Logs website (<http://www.twdb.texas.gov/innovativewater/bracs/WellLogs.asp>).

Model files take up approximately 1.5 GB of disk space and can be requested using the instructions on the BRACS Geophysical Well Logs website.

Driller Well Logs with an American Petroleum Institute number are available upon request using the instructions on the BRACS Geophysical Well Log website (<http://www.twdb.texas.gov/innovativewater/bracs/WellLogs.asp>).

Submitted Drillers Report with a Texas Department of Licensing and Regulation tracking number are available on the TWDB Water Data Interactive Groundwater Viewer via the well report markers (<http://www2.twdb.texas.gov/apps/waterdatainteractive/groundwaterdataviewer#>). If there is a TWDB state well number (SWN) then the report is available through the TWDB Groundwater markers. If the water well report you are looking for does not have a tracking number or a state well number, then the record may be provided by request using the instructions on the BRACS Geophysical Well Log website.

Blaine 3D Geologic Model Viewer Key geologic and hydrologic surfaces and associated data were also implemented in the three-dimensional visualization and analysis software Leapfrog; these files can be viewed using a free viewer also available for download from the Leapfrog website (<http://www.leapfrog3d.com/products/leapfrog-viewer/downloads>).

Additionally, **stratigraphic picks** made by the contractor have been incorporated in the BRACS database.

Finch, S.T., Standen, A.R., Blandford, T.N., 2016, Brackish Groundwater in the Blaine Aquifer System, North-Central Texas: Daniel B. Stevens & Associates, Inc., contract report to Texas Water Development Board, 107 p.

List of the delivered folder structure and files.

- Final_Deliverables folder
 - DrillerWellLogs folder
 - 318 driller logs in portable document format (.pdf) in 16 folders organized by county
 - OtherReports Folder
 - Memo63-02.pdf
 - OFR82908_report.pdf
 - GIS_Files
 - Georeferenced_maps folder
 - 10 georeferenced map images
 - Grids folder
 - 11 rasters
 - Leapfrog Folder
 - Blaine Aquifer System 3D Geologic Model (Blaine 3D Geologic Model 08-30-2016.lfview)
 - Blaine Aquifer System 3D Geologic Model Data files (Blaine 3D Geologic Model - Leapfrog GEO.zip)
 - MXDs folder
 - 38 ESRI map documents
 - shapefiles folder
 - 34 shapefiles
 - Cross_section_files
 - 8 shapefiles
 - Drawdown_files
 - 21 shapefiles
 - Exclusion_Areas
 - 8 shapefiles
 - GIS_File_names.xlsx
 - Modeling folder
 - Analytical folder
 - ReadMe.docx
 - Area4_Cottle folder
 - Theismanual.pdf
 - Wells.xlsx
 - Shapefiles folder
 - 12 shapefiles
 - Area6_Dickens folder
 - Theismanual.pdf
 - Wells.xlsx
 - Shapefiles folder
 - 12 shapefiles
 - Area8_Kent folder
 - Theismanual.pdf
 - Wells.xlsx
 - Shapefiles folder
 - 12 shapefiles
 - TDLR_SDRs folder
 - 646 Submitted Driller's Reports on 28 folders
 - Brackish Groundwater in Blaine Aquifer System_8-31-2016.pdf
 - Brackish Groundwater in Blaine Aquifer System_9-30-2016.pdf
 - TWDBBracsDeliverable.mdb