Texas Water Development Board (TWDB) Contract Number 1600011947

Identification of Potential Brackish Groundwater Production Areas – Gulf Coast Aquifer

Raw data deliverables

December 16, 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 Gulf Coast 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:

- BRACS_database
- GIS_final
- Report_figure_pngs
- Report_mxd_files
- Volume_calculator

The raw final data provided by the contractor does 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 sets of countywide 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 96 GB of disk space and can be requested using the instructions on the BRACS Geophysical Well Logs website.

Water well reports 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.

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

List of the folder structure and files provided by INTERA, INCORORATED:

- BRACS_Database folder
  - DrillerWellLogs
    - 82 folders of .pdf files
  - GeophysicalWellLogs
    - 71 folders of .tif and .las files
  - NotUsed_LAS
    - 41 folders of .tif and .las files

- o NotUsed_Porosity_Logs
  - 281 .tif files
- o NotUsed_Tif_Files
  - 255 .tif files
- o GulfCoast_Brackish_New_Additions_Deliverable_PostComments.xlsx
- o HydroChem_ZoneBottoms.xlsx
- Gulf_Coast_Brackish folder
  - o Gulf_Coast_Brakcish.gdb
    - Boundaries
      - 28 files
    - Fishnets
      - 9 files
    - Geology
      - 3 files
    - Hydraulic_Properties
      - 2 files
    - Points_Log_Coverage
      - 11 files
    - Salinity_Zones
      - 12 files
    - Water_Quality_Data
      - 8 files
    - Wells_Lines_Zones
      - 10 files
    - Bottom_Elevation
      - 10 files
    - Brackish_Thickness
      - 7 files
    - Formation_Thickness
      - 10 files
    - Ground_Surface
      - 1 file
    - Max_Sand_Interval
      - 10 files
    - PPA_Formation_Bottoms
      - 20 files
    - PPA_Formation_Tops
      - 20 files
    - PPA_Unified_Bottoms
      - 6 files
    - PPA_Unified_Tops
      - 6 files
    - Previous_Investigations
      - 3 files
    - Salinity_Zones_Rasters
      - 12 files
    - Sand_Percentage
      - 10 files
    - Sand_Thickness
      - 10 files
    - Snap_Raster
      - 1 file

- ▪ Thermal_Data
  - 4 files
- ▪ Top_Elevation
  - 10 files
- report_figure_pngs
  - o 87 figures
- report_mxd_files
  - o 88 figures
- modeling folder
  - o cross_section4_usg
    - ▪ 2 folders
  - o cross_section5_usg
    - ▪ 2 folders
  - o Gc
    - ▪ 3 folders
- volume_calculator folder
  - o Shapes folder
    - ▪ glfchalf_ctygma_hdsfix.shp
  - o 20160727_SandLayerStats.csv
  - o GulfCoastSandPicksABandDP.csv
  - o Sand_Zone_Pick_Results_07212016_sheet_lith.csv
  - o Sand_Zone_Pick_Results_07212016_sheet_valid.csv
  - o TERS Tools.tbx
  - o Volume Calculator.docx