Hydrogeologic framework status, POD well data, & NY Canal seepage data, Treasure Valley, Idaho

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December 5, 2019
HYDROGEOLOGIC-FRAMEWORK REPORT STATUS
The hydrogeologic framework report is through supervisory, colleague, and editorial review and has been approved; will go to layout in the next several days.

Furlough, retirements, hiring freezes have caused a backlog for the USGS editors.

Will be released in January.

The data release is approved and will be released concurrently with the report.
Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Datasets

Model, well data, and model animation datasets

Dates
Publication Date: 2019-01-01

Citation

Summary
A three-dimensional hydrogeologic framework model (3D HFM) of the westernmost western Snake River Plain (WSRP) aquifer system was prepared to represent the subsurface distribution and thickness of four hydrogeologic units. The primary source of data for the 3D HFM was hydrologic data from a total of 291 well-driller reports. These data were then processed using Rockware Rockworks 17 three-dimensional modeling software. The data released here are grouped into three datasets: (1) An ASCII text file of the 3D HFM containing XYZ data, (2) Command-line CSV files containing well information including lithology, (3) An MP4 video file showing the 3D HFM model as it is revealed by slices and then rotated.

Child Items (3)
- Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Hydrogeologic Framework Model
- Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Hydrogeologic Framework Model Animation
- Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Well Data

Contacts
Point of Contact: James R. Bartolino, Water Resources
Originator: James R. Bartolino
Metadata Contact: James R. Bartolino
Publisher: U.S. Geological Survey
Data Owner: Idaho Water Science Center
Distributor: U.S. Geological Survey - ScienceBase

Attached Files
- Attached file(s) described in detail in attached metadata

Spatial Services
ScienceBase WMS: https://www.sciencebase.gov/catalog [Edit] [Lock]

Communities
- USGS Idaho Water Science Center

Associated Items
% Associate an Item

Tags
Categories: Data, Data Release - In Progress
ScienceBase: Model

Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Hydrogeologic Framework Model

Dates
Publication Date: 2019
Start Date: 2004-01-01
End Date: 2016-10-19

Citation
http://dx.doi.org/10.3133/P9CGC069.

Summary
A three-dimensional hydrogeologic framework model (3D HFIM) of the westernmost western Snake River Plain (WRP) aquifer system was prepared to represent the subsurface distribution and thickness of four hydrogeologic units. The primary sources of data for the 3D HFIM was lithologic data from a total of 291 well-driller reports. These data were then processed using Rockware Rockworks17 three-dimensional modeling software. This dataset is an ASCII text file of the 3D HFIM containing XYZ data. It is one of three related datasets.

Contacts
Point of Contact: U.S. Geological Survey, Idaho Water Science Center, James R. Bartolino
Originator: James R. Bartolino
Metadata Contact: James R. Bartolino, U.S. Geological Survey, Idaho Water Science Center
Publisher: U.S. Geological Survey
Distributor: U.S. Geological Survey

Attached Files
Click on title to download individual files attached to this item or download all files listed below as a compressed file.

- TV-HFIM_Model_Draft.xml
  Metadata: Original ROCOD Metadata
  View: 2019-10-10 15:55
  jbartolino@usgs.gov
  19.27 KB

- TV-HFIM_Model_Thmb.jpg
  "Thumbnail Image"
  View: 2019-10-10 15:55
  jbartolino@usgs.gov
  47.45 KB

- TV-HFIM_Model.txt
  "Data file"
  View: 2019-10-10 15:52
  jbartolino@usgs.gov
  29.34 MB
ScienceBase: Animation

Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Hydrogeologic Framework Model Animation

Dates
Publication Date: 2018
Start Date: 1904-01-01
End Date: 2016-10-19

Citation

Summary
A three-dimensional hydrogeologic framework model (3D HFM) of the westernmost western Snake River Plain (WRSP) aquifer system was prepared to represent the subsurface distribution and thickness of four hydrogeologic units. The primary source of data for the 3D HFM was lithologic data from a total of 291 well-drill reports. These data were then processed using Rockware Rockworks17 three-dimensional modelling software. This dataset consists of a MP4 video file showing the 3D HFM model as it is revealed by slices and then rotated. It is one of three related datasets.

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Spatial Services
ScienceBase WMS:
https://www.sciencebase.gov/cas

Communities
• USGS Idaho Water Science Center

Associated Items
% Associate an Item
Tags
Categories: Data
Theme: Geology, animations, environment, geoscientificformation, geospatial datasets, groundwater, groundwaterflow, hydrogeology.
ScienceBase: Wells

Hydrogeologic Framework of the Treasure Valley and Surrounding Area, Idaho and Oregon; Well Data

Dates
Publication Date: 2019
Start Date: 1920-01-01
End Date: 2010-10-19

Citation

Summary
A three-dimensional hydrogeologic framework model (3D HFM) of the westernmost western Snake River Plain (WRP) aquifer system was prepared to represent the subsurface distribution and thickness of four hydrogeologic units. The primary source of data for the 3D HFM was lithologic data from a total of 201 well-driller reports. These data were then processed using Rockware Rockworks3D three-dimensional modeling software. This dataset consists of five comma-delimited CSV files containing well information: location, lithology, well construction, aquifer, and comments. It is one of three related datasets.

Contacts
Point of Contact: U.S. Geological Survey, Idaho Water Science Center, James R. Bartolino
Originator: James R. Bartolino
Metadata Contact: James R. Bartolino, U.S. Geological Survey, Idaho Water Science Center
Publisher: U.S. Geological Survey

Attached Files

Spatial Services
ScienceBase WMS:
https://www.sciencebase.gov/wms

Communities
- USGS Idaho Water Science Center

Associated Items
% Associate an Item

Tags
Categories: Data
Theme: Geology, hydrology, location, geospatial datasets, natural resource exploration, and datasets, scientific interventions, water resource management
GROUNDWATER PODS
POD Wells: Domestic (1)

- Difficult to match water rights to wells; entered screen intervals for two wells per section for uniform coverage
- 1,873 wells
- Wells have discrete locations and are not aggregated by section
POD Wells: Domestic (2)

- Difficult to match water rights to wells; entered screen intervals for two wells per section for uniform coverage
- 1,873 wells
- Wells have discrete locations and are not aggregated by section
POD Wells: Industrial (1)

- Matched 193 water rights to wells; entered screen intervals
- Many of these wells are essentially domestic/commercial wells (office, store, etc)
POD Wells: Industrial (2)

- Matched 193 water rights to wells; entered screen intervals
- Many of these wells are essentially domestic/commercial wells (office, store, etc)
POD Wells: Municipal (1)

- Matched 4,973 water rights to wells; entered screen intervals
- Water rights may be transferred to younger wells
- A well may have multiple water rights
POD Wells: Municipal (2)

- Matched 4,973 water rights to wells; entered screen intervals
- Water rights may be transferred to younger wells
- A well may have multiple water rights
POD Wells: Irrigation (1)

- Difficult to match water rights to wells; entered screen intervals for two wells per section
- Wells have discrete locations and are not aggregated by section
- In progress: 829 wells done (about half)
Difficult to match water rights to wells; entered screen intervals for two wells per section.

Wells have discrete locations and are not aggregated by section.

In progress: 829 wells done (about half)
NEW YORK CANAL SEEPAGE STUDIES
Seepage measurements

  - 19 sites: Head to Lake Lowell (Lake Shore Dr)
  - Mostly losses
  - Berenbrock (1999) WRIR-99-4105; USGS letter to BuRec

- January 28-29, 2004
  - 24 sites: Head to Lake Lowell (Lake Shore Dr)
  - Split between gains and losses
  - USGS annual report

- October 15-19, 1998
  - Head to Lake Lowell (Lake Shore Dr)
  - Tributary inflow and gate-leak losses
Data needs

- Do BPBC irrigation divisions correspond to the districts? Shapefiles?
- NYC lining history

Schmidt and others, 2008; fig. 2-1