

# NGWMN Fiscal Year 2017 Cooperative Agreements

## Colorado Natural Resources

This is a two-year project become a new data provider of water-level data. Water-levels measured annually in the High Plains and Colorado Plateaus aquifer will be included in the initial selection of wells.

## Illinois State Geological Survey

The Illinois SGS is working with the Illinois SWS who is a current water-level data provider. The proposal is for work to install new monitoring wells under objective 5. The proposed work is to install a minimum of 5 new observation wells in the Sand and Gravel Principal aquifer. Locations are proposed in Kane County.

## Iowa Geological Survey

This is a two-year project become a data provider of water-level data in the first year and provide persistent data support in the second year. The project will provide water level, well construction, and lithology data to the Portal. Will select and classify sites. The project will be done in conjunction with Iowa DNR project to serve WQ data. Well construction and lithology data for the Iowa DNR wells will be served by the Iowa GS.

## Iowa Department of Natural Resources

This is a one-year project to become a new data provider of water-quality data. Data is available from a network of 137 public water supply wells where raw water is sampled. They will select and classify sites and make the data available either through web services or by loading the data into EPA Storet. Well construction and lithology data for their sites will be provided under the Iowa Geological Survey project.

## Kansas Geological Survey

This is a two-year project to provide persistent data services and drill new wells for the NGWMN. Five new wells will be drilled in the Kansas River Alluvial aquifer system. Limited monitoring is currently being done in this aquifer which supplies large amounts of water in Northeast Kansas.

## Minnesota Department of Natural Resources

This is a two-year project become a water-level data provider to the NGWMN in the first year and provide persistent data support in the second year. The DNR was one of the original Pilot projects (with the MN PCA), but subsequent updates to their database requires new web services. Also, the pilot they only focused on a single Principal Aquifer within the state of Minnesota. This project will complete well selection and classification for the rest of Minnesota water-level sites.

## Mississippi Department of Environmental Quality

This is a one-year project to provide persistent data support to an existing NGWMN data provider.

## Missouri Department of Natural Resources

The Missouri DNR is a data provider through a Cooperative agreement with the USGS Missouri WSC. This is a one-year project to remediate three wells that have been identified as having shallow groundwater enter the wells. The wells were examined using a borehole camera. The wells will be reconstructed by installing a shallow diameter liner and packers and grouting the well above the screen.

#### Montana Bureau of Mines and Geology

This is a one-year project to do well rehabilitation and repair on three wells in Northwest Montana.

#### Nebraska Conservation and Survey Division

This is a two-year project to provide wells maintenance and drill replacement wells for the NGWMN. Well maintenance work is to replace fences at 17 wells located in cattle fields to protect the equipment. Well drilling work is proposed to replace 8 aging wells with depths range from 45 to 318 feet.

#### New Hampshire Geological Survey

This project includes persistent data services work, site information gap filling, and well maintenance. Persistent data service includes work to update existing web services. Site information will be updated from a GPS survey of the wells. Well integrity testing (slug tests) will be done at 17 wells.

#### New Jersey Department of Environmental Protection

The New Jersey DEP is a data provider through a Cooperative agreement with the USGS New Jersey WSC. This project is drill three replacement wells for the water-quality monitoring network to resolve well performance issues.

#### New Mexico Bureau of Geology and Mineral Resources

This is a one-year project become a water-level data provider. They will select about 40 sites from the Rio Grande aquifer system. NGWMN contributions in other Principal aquifers will be done in future years.

#### North Carolina Department of Environmental Quality

This project is for well drilling in the Northern Atlantic Coastal Plain. They will drill 2 nested wells with located along the NC/VA border and the NC/SC border. Seven trend wells will be drilled at the NC/VA site and 4 wells will be drilled at the NC/S site. Wells at 17 additional nested sites are being drilled as in-kind services for the project and will be added to the NGWMN also.

#### Oregon Water Resources Division

This project is to provide persistent data services, do site-information gap filling, and drill a replacement NGMWN well. The work for persistent data services is for two years. Work under site information gap filling consists of 3 parts. Lithologic and well construction information will be entered from paper files, historic continuous water-level data will be entered into new database so that it is available to the NGWMN, and a GPS survey will be conducted at 63 wells to get more accurate locations and altitudes. The final part of the project is drilling a replacement well in the Columbia Plateau basaltic-rock aquifer. The new installation will have wells at 300, 600, and 900 feet.

#### South Carolina Department of Natural Resources

This project is to drill wells for the NGWMN. Two wells deep wells will be drilled in the Northern Atlantic Coastal Plain. In addition, 10 shallow wells throughout the state will be drilled to monitor water-table aquifers. Monitoring equipment for the new sites is provided as in-kind services match.

#### Texas Water Development Board

This is a one-year project for providing persistent data services and site information gap filling. Lithology data for 900 wells will be entered into their new database from paper files as part of the site information gap filling work.

#### Utah Geological Survey

This project is a two-year project to add additional wells to the NGWMN, support persistent data service, and do well maintenance. Additional wells from their Snake Valley Network will be added to the NGWMN. Well maintenance work involves pumping 8 dedicated monitoring wells to clear sediment.

#### Wyoming Department of Environmental Quality

This is a two-year project become a water-quality data provider to the NGWMN. They become a new data provider to the NGWMN by connecting their RDBMS database to the NGWMN data portal and selecting and classifying a subset of their wells to be sampled every 5 years.