

## **WELLOGIC – Electronic Well Record Submittal**

### **What is Wellogic?**

Wellogic is the Internet-based data entry program developed by the Department of Environmental Quality (DEQ) to provide an easy method for water well drilling contractors to submit water well records. Water well and pump records and abandoned well plugging records from January 2000 and later are entered into the database by contractors, local health departments, and the DEQ.

Well records describe the construction details of groundwater wells. Data such as well depths, types, thicknesses of geologic formations penetrated, groundwater pumping rates, and well locations are obtained from well logs. Contractors are required by state law to file the well records after well completion.

After a well record is entered into Wellogic, it is automatically sent to the DEQ server and assigned a Well ID number. Each record is automatically stamped with the date and time of submittal. Local health departments retrieve the records electronically out of Wellogic and print them for review.

### **Why are well records important?**

A well record is the key piece of information that initiates the water supply approval process. Once the well record is received, the local health department can perform a final inspection and ensure water samples are collected.

Approval of new water supplies by local health departments, mortgage closings, and the issuance of building occupancy certificates can all be delayed when well records are not promptly submitted. These delays are costly, disruptive, and detrimental to consumer confidence in the water well industry. Well drillers who fail to submit well records needlessly waste the resources of local and state agencies.

### **Benefits of Wellogic**

Besides the obvious benefits of transfer and storage of electronic records and more accurate data available at the click of the mouse, Wellogic provides Michigan users:

- ✓ Contractor data entry facilitating the best information and the best reporting in an efficient manner.
- ✓ Standardized geology picklists which greatly facilitate future data mining efforts.
- ✓ BING mapping which allows for the most accurate positioning of wells – by latitude and longitude – absolutely necessary for accurate data.
- ✓ Mapping of geology and well construction attributes so that all contractors have the best information to make accurate estimates of drilling projects.
- ✓ Data to create water level maps, bedrock and drift area maps.
- ✓ Electronic renewal and electronic payment of a contractor's annual registration.
- ✓ Several specialized reports

### **Wellogic & Global Positioning System (GPS)**

Obtaining exact locations on wells drilled in Michigan is extremely valuable. It allows users to map geologic characteristics like depth to bedrock and water well characteristics like static water level, well depth, or flowing well areas. Wellogic allows the user to check the latitude and longitude accuracy and correct it, if needed, before submitting the well record. Wellogic also has a "Coordinate Accuracy Report" which will provide users with a list of wells where the well location is not accurate and needs to be corrected.

## **Wellogig and water well contractor registration**

As of 2013, Wellogig allows registered water well contractors to renew their certificate of registration electronically. Contractors simply log into Wellogig, and click on the “Registration Renewal” tab. They then update their personal information, enter the number of wells drilled and pumps installed, update their equipment, if needed, and click “Submit Renewal”. Renewing in Wellogig eliminates the need to send the paper renewal form to the DEQ

Contractors also have the ability to pay their registration electronically via e-check, debit or credit card using the payment link on the Registration Renewal screen.

## **Getting access to Wellogig data**

Wellogig data is extracted every 30 days and posted for download to the general public. There is a link to download the data on the Wellogig homepage. The link will take users to the Center for Shared Solutions and Technology Partnerships (CSSTP), <http://www.mcgi.state.mi.us/mgdl/>. The CSSTP houses all of the spatial data for the state of Michigan. To download the Wellogig data in ArcView shape file format, click on theme and download the Drinking Water Wells file under the Geology heading for the desired county. The file contains the lithological data, locational (XY coordinates) data, and select well construction data.

## **How is Wellogig data used?**

Data gathered with Wellogig is currently being used in many other applications throughout Michigan. The data was an integral part of the Groundwater Inventory and Mapping Project (GWIM). The data is also used for Michigan Groundwater Management Tool (MGMT), Drinking Water GIS (DWGIS), the Water Withdrawal Assessment Tool (WWAT), and WaterTrack. Having standardized data in Wellogig is an important part of developing programs to protect our water supplies from potential sources of contamination.

The DEQ has used the Wellogig data for water withdrawal legislation, groundwater conflict resolution, statistical data, contamination investigations, well construction specifications, public water supply protection efforts, and well code compliance assessment. The data is also used by other state and federal agencies, local health departments, consultants, geologists, universities, realtors, well drilling supply houses, and other groups such as Michigan Rural Water Association and Michigan Ground Water Association.

## **Wellogig access**

All of the Wellogig records are viewable by the general public and can be searched for by using 22 different search fields. However, those users entering or modifying data are required to have an account. To register for a Wellogig account, go to the Wellogig website <https://secure1.state.mi.us/wellogig/Login.aspx> and click on “Request an Account.” The account request is submitted electronically, and the account information is emailed back to the user electronically.

For additional information on Wellogig or water well records, contact the Wellogig Helpdesk at [wellogig@michigan.gov](mailto:wellogig@michigan.gov).

*For information or assistance on this publication, please contact the Office of Drinking Water and Municipal Assistance, through the DEQ's Environmental Assistance Center at 800-662-9278. This publication is available in alternative formats upon request.*

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