

ORDINANCE

CLOSED LOOP WELL AND WATER WELL PERMIT AND WATER SUPPLY

Preamble

This ordinance is established to eliminate disease transmission and chemical poisons through provision of a safe, portable, adequate supply of water for drinking, culinary and sanitary purposes for every individual within the health jurisdiction.

DEFINITIONS

County Health Department means the McDonough County Health Department.

Closed Loop Well means a sealed, watertight loop of pipe buried outside of a building foundation intended to re-circulate a liquid solution through a heat exchanger but is limited to the construction of the borehole and the grouting of the borehole and does not include the piping and appurtenances used in any other capacity. "Closed loop well" does not include any horizontal closed loop well systems where grouting is not necessary by law or standard industry practice.(Section 3(h) of the Act) "Closed Loop Heat Pump Well" means the same as Closed Loop Well."

Public Water System means a system for the provision to the public of piped water for human consumption, if the system has at least 15 connections or regularly serves an average of at least 25 individuals daily at least 60 days per year. The term Public Water System includes any collection, treatment, storage and distribution facilities under control of the operator of such system and used primarily in connection with such system and any collection or pretreatment storage facilities not under such control which are used primarily in connection with such system.

Community Water System means a public water system which serves at least 15 service connections used by residents or regularly serves at least 25 residents at least 60 days a year.

Non-Community Water System means a public water system that is not a community water system, that has at least 15 service connections used by non-resident individuals, or regularly serves 25 or more non-resident individuals daily for at least 60 days a year.

Semi-Private Water System means a water supply which is not a public water system, yet which serves a segment of the public other than an owner-occupied single family dwelling.

Water Well means any excavation that is drilled, cored, bored, washed, driven, dug, jetted or otherwise constructed when the intended use of such excavation is for the location, diversion, artificial recharge, or acquisition of ground water, but such term does not include an excavation made for the purpose of obtaining or prospecting for oil, natural gas, minerals or products of mining or quarrying or for inserting media to re-pressure an oil or natural gas bearing formation or for storing petroleum, natural gas or other products or for observation or any other purpose in connection with the development or operation of a gas storage project.

Adoption by Reference

In addition to those provisions set forth, this Ordinance shall be interpreted and enforced in accordance with provisions set forth in the following statutes, rules, and regulations of the State of Illinois, Department of Public Health and any subsequent amendments or revisions thereto, of which publications are incorporated herein and adopted by reference as part of this Ordinance.

- 1) "Illinois Water Well Construction Code." (77 Ill. Adm. Code 920)
- 2) "Illinois Water Well Pump Installation Code." (77Ill.Adm.Code 925)
- 3) "Public Area Sanitary Practice Code." (77 Ill .Adm. Code 895)
- 4) "Drinking Water Systems Code." (77 Ill. Adm. Code 900)
- 5) "Surface Source Water Treatment Code." (77 Ill. Adm. Code 930)
- 6) "Illinois Plumbing Code." (77 Ill. Adm. Code 890)

SECTION I

WATER SUPPLY LOCATION, CONSTRUCTION, AND REPAIR

A. Water Wells. Except as otherwise herein provided, the location, construction, repair and disinfection of water wells, and the installation of water well pumps, shall be in accordance with the requirements set forth by the Illinois Department of Public Health Illinois Water Well Construction Code (77 Ill. Adm. Code 920) and Illinois Water Well Pump Installation Code (77 Ill. Adm. Code 925), which are hereby made part of this ordinance by reference. Copies of said Regulations shall be available at the County Health Department office. Wells that are abandoned shall be sealed in a manner prescribed by the Illinois Water Well Construction Code.

B. Surface Water Supplies. All water systems which receive their source of water from ponds, lakes, streams, rivers or other surface collectors of water shall be designed, constructed, and operated in accordance with the Illinois Department of Public Health Surface Source Water Treatment Code (77 Ill. Adm. Code 930).

C. Cisterns. Cisterns shall not be used for a water supply except where adequate groundwater resources are not available. Cistern water and surface water supplies shall receive treatment in accordance with the Illinois Department of Public Health Surface Source Water Treatment Code (77 Ill. Adm. Code 930).

Whereas, unused cisterns shall pose environmental safety hazards in the same manner as an abandoned well. Abandoned cistern shall be plugged or filled in the same manner as unused septic tanks or drywells in accordance with the Illinois Private Sewage Disposal System Licensing Act and Code, Sec. 905.40.

SECTION II
DISINFECTION AND ANALYSIS

All components of a new water well construction and /or modification shall be thoroughly disinfected with a strong chlorine solution which will yield a dosage of at least 100 parts per million to the water in the well and piping system. After purging the water system of any chlorine residual, a water sample shall be taken and analyzed by a certified laboratory and satisfactory results obtained prior to utilizing the water system for drinking and culinary purposes. A copy of the analysis shall be filed with the McDonough County Health Department. The water obtained from a semi-private water supply shall meet the nitrate/nitrite, chemical and bacteriological requirements of the Primary Drinking Water Standards (35 Ill. Adm. Code 611), and the water obtained from a private water well shall meet the bacteriological and nitrate/nitrite requirements of the Primary Drinking Water Standards (35 Ill. Adm. Code 611). The water from a private water system, having surface water as its source, shall meet the nitrate/nitrite, bacteriological and turbidity requirements of the Primary Drinking Water Standards (35 Ill. Adm. Code 611).

SECTION III
EXEMPTIONS

The requirements for permit in this ordinance shall not be applicable to wells intended to serve a community public water supply system, and to monitoring wells.

SECTION IV
STORAGE AND WATER LINES

A minimum pressure of 20 pounds per square inch, shall be provided for all storage capacity within the private water system. Systems serving more than one household shall be sized accordingly.

SECTION V
WATER WELL CONSTRUCTION PERMIT REQUIRED

No closed loop well or water well shall be constructed or deepened within McDonough County in the State of Illinois, except in accordance with this ordinance and it shall be unlawful to proceed with the construction or deepening of a potable water well without first obtaining a Water Well Construction Permit from McDonough County Health Department. All wells and pumps shall be maintained in a safe condition by the owner. Only a person who complies with the requirements of this ordinance shall be entitled to receive such a permit. The fees for permits and inspections for water well, water supply system installations, closed loop geothermal wells, repairs, replacements and alterations and for surveys of private water supplies for real estate transactions are available in the McDonough County Health Department Fee Schedule as authorized and approved by the McDonough County Board of Health.

A permit to construct or deepen a water well, is valid for a period of twelve (12) months from the date of issuance. If construction has not started within this period, the permit is void. A request for extension of the permit may be made to the McDonough County Health Department if construction will be delayed.

Location of the well and well supply lines shall be recorded on the application by the contractor upon completion in order to better identify the utilities in the future.

SECTION VI
NON-COMMUNITY REGISTRATION PERMIT

Non-Community Public Water Supply must obtain a Non-community Registration Permit from the McDonough County Health Department. All Non-community Public Water Supplies are subject to original surveys and upon satisfactory completion, are subject to surveys every 2 years.

SECTION VII
APPLICATION FOR PERMIT

Application for a Closed Loop Well or Water Well Construction permit and/or Non-Community Registration Permit shall be in writing and in such form that shall be prescribed by the McDonough County Health Department.

SECTION VIII
NON-COMMUNITY WATER SAMPLE COLLECTION

Routine water samples shall be collected on a schedule as determined by the McDonough County Health Department. If the water analysis results indicate that the water contains coliform bacteria or high concentrations of nitrates on 2 consecutive samples, the Non-Community Public Water Supply shall post signs furnished by the McDonough County Health Department warning the public of the potential health risk.

SECTION IX
VIOLATIONS

Any person violating any provision of this ordinance, upon conviction, shall be fined not less than one hundred dollars (\$100.00) nor more than seven hundred and fifty dollars (\$750.00). Each day the violation continues shall constitute a distinct and separate offense.

SECTION X
LICENSING OF WELL DRILLERS AND PUMP INSTALLERS

All individuals who construct water well and install well pumps shall be licensed by the Illinois Department of Public Health in accordance with the Water Well and Pump Installation Contractor's License Act (225 ILCS 345/).

SECTION XI
REPEAL AND DATE OF EFFECT

All ordinances and parts of ordinances in conflict with this ordinance are hereby repealed, and these rules and regulations shall be in full force and effect immediately upon its adoption and publication as provided by law.

SECTION XII
UNCONSTITUTIONALITY CLAUSE

Should any section, paragraph, sentence, clause or phrase of this ordinance be declared unconstitutional or invalid for any reason, the remainder of the ordinance shall not be affected thereby.

SECTION XIII
EFFECTIVE DATE

This ordinance shall become effective after April 15, 2015