

**Indian Creek Homeowners & Water Association of McLean County, Inc. (IL 1135250)
Source Water Protection Plan (SWPP) - 2024**

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Vision Statement (Section 604.310)

- a) Community water supply's policy and commitment to protecting source water.

Indian Creek Homeowners & Water Association of McLean County, Inc. (ICHWA) was incorporated in Illinois on October 28, 1986. ICHWA's covenants require the election of five directors including a President, Secretary and Treasurer. The ICHWA covenants require the Board of Directors to charge water assessment rates to Indian Creek residents "...sufficient to provide for the continuous operation of water supply purposes and any emergency that may arise to ensure that all water wells, equipment, machinery, mains, pipes, or otherwise used for the providing of the distribution of water shall at all times be adequate." (Article VII, Section 6.) The covenants also require all funds collected for the water system be kept in a separate fund to be "...expended for only such purpose or purposes as are directly connected with the producing and supplying water to persons entitled thereto." (Article VII, Section 7.)

The ICHWA Board of Directors is committed to providing a dependable, safe water supply to all residents of Indian Creek subdivision and meeting all requirements of the ICHWA covenants as well as EPA and other county, state and federal regulatory requirements.

- b) Explanation of community water supply's resources to protect source water.

The ICHWA Board has designated a director position as the Water Chairperson (Jim Larson) and employs a licensed water operator (Brett Lueschen). The Water Chairperson is primarily responsible for the operation and maintenance of the water supply system including planning for capital expenditures and supervising the licensed water operator to be sure the water supply system is functioning as intended and that all legal requirements including EPA regulations are met. The licensed water operator under the supervision of the Water Chairperson is responsible for daily water operations, chemical treatment, testing, EPA reporting, emergency response and other aspects of operating and maintaining the water supply system.

The ICHWA Board of Directors provides information about the water system to Indian Creek subdivision residents through a website, a monthly newsletter and emails to residents. The website address is www.IndianCreekSubdivision.org. The website provides detailed information about the water supply, emergency contacts, the annual Consumer Confidence Reports (which are also provided by email and postal mail to residents) and other pertinent information.

An Indian Creek subdivision newsletter is emailed to residents monthly. Information about the water system such as flushing schedules, planned maintenance, etc. is provided in the newsletters which are also maintained on the website.

An emergency contact plan is in place for notifying residents about any issues impacting the water supply system. The Indian Creek subdivision email contact list is used to send email notices to all residents in case of a water emergency. Multiple Board members and Indian Creek residents can send emails to residents. Signs are posted at each of the two entrances to the subdivision when there is a disruption in the water supply or a boil order is in effect. There is a password protected phone/address/email directory of all residents maintained on the subdivision's website including emergency contact information. This directory is accessible by all Indian Creek residents. ICHWA Board members and the water operator have a list of vendor contacts to be used in an emergency including phone numbers and addresses of our electrician, plumber, engineering firm, well pump/drilling company and electricity supplier.

c) Explanation of the barriers to protecting source water.

The ICHWA Board recognizes the need for following the multi-barrier approach to maintain, safeguard, and/or improve our source water. The following sections provide information about how the ICHWA Board and licensed water operator address each barrier which are also expanded on in other sections of the SWPP.

High-quality water source selection:

Indian Creek's water supply comes from a well located within the Indian Creek subdivision on the "common grounds" owned by ICHWA. Water from the well is pumped to a water tower also located on ICHWA owned property within the subdivision boundaries. The Indian Creek subdivision has 88 residences with all available lots within the subdivision having completed residential housing. The "common grounds" owned by ICHWA cannot be subdivided for other uses. No changes in setbacks, building or other activities can take place within the "common areas" without ICHWA Board approval and in compliance with ICHWA covenants as well as county, state and federal regulations. Additional detailed information about the water source is contained in the "Source Water Assessment" section of this document.

Optimizing water treatment as necessary:

The water supply is tested daily per EPA required standards. EPA water testing, reporting and other compliance activities are completed by the licensed water operator under the supervision of the ICHWA Board Water Chairperson. The water supply is treated with chlorine before entering the water supply in a chemical treatment building located adjacent to the water tower. Water supply treatment is adjusted as needed to meet all applicable standards.

Distribution system management:

The Water Chairperson is primarily responsible for the operation and maintenance of the water supply system including planning for capital expenditures and supervising the licensed water operator to be sure the water supply system is functioning as intended and that all legal requirements including EPA regulations are met. The licensed water operator under the supervision of the Water Chairperson is responsible for daily water operations, chemical treatment, testing, EPA reporting, emergency response and other aspects of operating and maintaining the water supply system.

Relationships have been established with vendors for maintenance and repairs of the water system. ICHWA Board members and the licensed water operator have a list of vendor contacts including phone numbers and addresses of our electrician, plumber, engineering firm, well pump/drilling company and electricity supplier.

The water tower, wellhead and chemical treatment building are secured by locks. The Water Chairperson, licensed water operator, ICHWA Board members and key vendors have keys to these facilities.

Water quality monitoring:

The licensed water operator tests the water supply chlorine level daily and is responsible for all water quality tests and reporting required by the EPA and other regulatory bodies. Monthly samples are taken at two different locations within the water tower. One sample is taken before any treatment and the other one is taken after treatment. The sample site ID #'s are as follows: raw water is GENRAW and the finished site is TP01. A Bacterial coliform sample is collected monthly and sent to the Illinois EPA in Springfield, IL for analysis.

An example of monitoring activities is the Annual Consumer Confidence Report (CCR) which is submitted to the EPA and distributed to residents. **Copies of the last ten years of CCR's are attached to the SWPP.**

d) Names of the individuals who developed the vision statement.

The vision statement was developed by ICHWA Board member and designated Water Chairperson Jim Larson with input from the licensed water operator, Brett Lueschen. The other four ICHWA Board members reviewed the vision statement as well as other parts of the SWPP providing comments and input.

Source Water Assessment (Section 604.315)

- a) 1) Statement of the importance of the source water

ICHWA (Facility Number 1135250) obtains its water from one community water supply well. Well #1 (Illinois EPA #40035) provides an average of 19,344 gallons per day to 88 residential services with a population of approximately 240.

- a) 2) A list of water supplies that obtain water from this community water supply of all sources of water used by the community water supply including:

No connected water supplies exist.

- a) 3) A) Surface water – Not Applicable

- a) 3)B) Groundwater – the identification number, well description, well status and depth; a description of the aquifer for each well.

The well is located east of Money Creek. Well #1 produces at a rate of 65 gallons per minute and is 121 feet deep. The well utilizes a sand and gravel aquifer overlain by layers of alluvial sediments of moderate to high permeability and clay materials of low permeability. Permeability is a measurement of the capability of a soil or sediment to transmit fluids. The Illinois EPA does not consider this well to be geologically sensitive.

The Illinois Environmental Protection Act provides minimum protection zones of 200 feet for the ICHWA well. These minimum protection zones are regulated by the Illinois EPA. Because the facility has proceeded with source water protection efforts, the facility has received a monitoring waiver for its well.

- a) 4) A report on the quality of the source water for all sources of water delineated in subsection (a)(3), including:
 - a) 4)A) When and where samples used to determine the quality of the source water were taken. These samples must be tested by a certified laboratory.

The licensed water operator tests the water supply chlorine level daily and is responsible for all water quality tests and reporting required by the EPA and other regulatory bodies. Monthly

samples are taken at two different locations within the water tower. One sample is taken before any treatment and the other one is taken after treatment. The sample site ID #'s are as follows: raw water is GENRAW and the finished site is TP01. A Bacterial coliform sample is collected monthly and sent to the Illinois EPA in Springfield, IL for analysis.

We have not identified any changes in quality of the water supply. All testing results have been consistently positive over at least the past ten years as documented in the annual Consumer Confidence Reports and IEPA Laboratory Results.

Copies of the monthly Distribution System Operating Reports for 2023 are provided as an attachment to this report.

- a) 4) B) The certified laboratory's results.

Copies of the 2022, 2023 and most recent three months (April, May and June 2024) IEPA Laboratory Results are provided as an attachment to this report.

- a) 5) A report on the quality of the finished water.

Copies of the past ten years Consumer Confidence Reports are provided as an attachment to this report.

- a) 6) Identification of potential sources of contamination to the source water.

No potential sources of contamination were identified by the Illinois EPA in the SWA Fact Sheet. The Fact Sheet cited the Illinois EPA's Well Site Survey and Hazard Review Programs as a resource used to make this determination. **A copy of the Fact Sheet is provided as an attachment to this report.**

- a) 7) Analysis of the source water's susceptibility to contamination.

The ICHWA SWA Fact Sheet stated the Illinois EPA reviewed a Well Site Survey published in 1992 by the Illinois EPA and Source Water Protection Plan. Based on the information in those documents, no potential sources of groundwater contamination were identified as being present that could pose a hazard to groundwater pumped by the ICHWA community water supply well.

- a) 8) Explanation of the community water supply's efforts to protect its water source.

The ICHWA Board of Directors is committed to providing a dependable, safe water supply to all residents of Indian Creek subdivision and meeting all requirements of the ICHWA covenants as well as EPA and other county, state and federal regulatory requirements. Primary responsibility for the water supply system is provided by an ICHWA Board member who has been designated as the Water Chairperson and the employment of a licensed water operator.

The ICHWA Board recognizes the need for following the SWPP multi-barrier approach to maintain, safeguard, and/or improve our source water. The ICHWA Board of Directors provides information about the water system to Indian Creek subdivision residents through a website, a monthly newsletter and emails to residents.

- b) Upon request, the Agency will provide technical assistance to a community water supply in conducting the source water assessment.

ICHWA has not identified any technical assistance necessary to complete this report.

- c) A community water supply may use a Source Water Assessment Program (SWA) Fact Sheet prepared by the Agency to fulfill the requirements of this section.

A copy of the SWA Fact Sheet provided by the IEPA is attached to this report.

Source Water Protection Plan Objectives (Section 604.320)

The ICHWA Board of Directors is committed to providing a dependable, safe water supply to all residents of Indian Creek subdivision and meeting all requirements of the ICHWA covenants as well as EPA and other governmental regulatory requirements. The ICHWA Board also is committed to ensuring the water system is financially sound by developing financial forecasts and plans for major capital expenditures as well as making rate adjustments as needed.

The ICHWA Board continues to be proactive in managing our water system. Examples of ongoing objectives include:

- Continuing to utilize the services of our engineering firm, The Farnsworth Group, to identify maintenance needs, manage capital projects and identify current best practices.
- Work closely with our licensed water operator to meet all applicable water quality standards and implement operational efficiencies.
- Communicate water system information effectively to Indian Creek residents through regular articles in the subdivision's monthly newsletter, emails utilizing a subdivision mail list and posting water system information on the subdivision's website.
- Monitor any changes within or surrounding our subdivision that could impact our water source.

Short term objectives which will positively impact our water system include plans to complete the following projects in 2024:

- Replace the well pump and piping to the water system connection and perform maintenance on electrical equipment at the wellhead.
- Perform water flow and draw down tests on the well.
- Work with our electricity provider, Corn Belt Electric, to replace the electrical feed line to the wellhead.

Action Plan (Section 604.325)

The ICHWA Board recognizes the importance of continually monitoring our water source and developing plans to ensure safe, reliable water service is provided to residents of our subdivision. Examples of recently completed projects include:

- The construction in 2023 of a chemical processing building adjacent to our water tower to move chemical processing out of the water tower base.
- A major refurbishing of the water tower completed in 2023/2024 including complete paint stripping and repainting inside and outside the water tower, updates to plumbing and electrical equipment and improved insulation/vapor barriers.
- Working with the IEPA to obtain a loan and grant to facilitate the water tower refurbishing project.
- Gaining resident approval of water rate increases in May 2024 effective October 1, 2024 with rate increases implemented over each of the next three years.

The projects listed above are the result of a significant effort taken over the past 3-5 years by the ICHWA Board to complete key capital projects and maintenance to ensure we are able to deliver a safe and reliable water service and extend the useful life of our water system. Additional short-term objectives are listed in the “Objectives” section of the SWPP which will be completed in 2024.

Long term planning includes reviewing potential capital projects, performing maintenance on a regular schedule and ongoing monitoring of our financial condition including implementing rate changes when needed. Examples include:

- A backup well is being considered for development in the future. In 2024 we will replace our well pump/piping and perform water flow and draw down tests on our well. This work will provide information which will help us determine the need and timing of developing a backup water source.
- Water rate increases have been approved for implementation over each of the next three years to provide a sound financial base to meet both ongoing financial needs and build funds for future capital projects. The ICHWA Board will continue to identify and implement rate needs.
- Inspections of our water system will be performed every five years by our engineering firm, The Farnsworth Group. Recommendations from these inspections will include current and future maintenance needs and capital projects.

The ICHWA Board is committed to ensuring the delivery of a safe, reliable water service to our residents. The Source Water Protection Plan provides an important framework towards accomplishing these goals.

Attachments

Consumer Confidence Reports (10 years)

- Not included in this report because of the high volume of data.

Monthly Distribution System Operating Reports (12 months)

- Not included in this report because of the high volume of data.

IEPA Laboratory Results (2+ years of monthly reports)

- Not included in this report because of the high volume of data.

IEPA Fact Sheet (most recent version)



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Illinois Environmental Protection Agency



Source Water Assessment Program

FACT SHEET

INDIAN CREEK HMOWNRS & WTRASSN

MCLEAN COUNTY

Prepared in cooperation with the U.S. Geological Survey.

Information and data used in the preparation of this Fact Sheet are provided by the Illinois EPA and are subject to revision.

IMPORTANCE OF SOURCE WATER:

Indian Creek Homeowners and Water Association (Facility Number 1135250) obtains its water from one community water supply well. Well #1 (Illinois EPA #40035) provides an average of 26,200 gallons per day to 84 services or a population of 240.

WATER SUPPLIES THAT OBTAIN SOURCE WATER FROM THIS FACILITY:

No connected water supplies existed at the time this Source Water Assessment fact sheet was completed.

SOURCE OF WATER SUPPLY:

The well is located east of Money Creek. Well #1 produces at a rate of 65 gallons per minute and is 121 feet deep. The well utilizes a sand and gravel aquifer overlain by layers of alluvial sediments of moderate to high permeability and clay materials of low permeability. Permeability is a measurement of the capability of a soil or sediment to transmit fluids. The Illinois EPA does not consider this well to be geologically sensitive.

WELL DATA FOR THIS FACILITY:

Well ID	Well Description	Status	Depth (Feet)	Min Setback (Feet)	Aquifer Description
40035	WELL IS EAST ACROSS CREEK O	A	121	200	SAND AND GRAVEL

SOURCE WATER QUALITY:

Indian Creek Homeowners and Water Association Well #1 was sampled beginning in 1982 as part of a Statewide Groundwater Monitoring Program. The samples were analyzed for inorganic chemicals (IOC).

Review of the IOC data collected for these sampling efforts indicated that the parameters were consistent with wells that utilize a sand and gravel aquifer of similar character. IOC results were below the groundwater quality standards established in 35 Illinois Administrative Code Part 620.410.

FINISHED WATER QUALITY:

Further information on finished water quality data tables of monitored parameters, contaminants detected, health advisory information, drinking water standards, and maximum contaminant levels are available at <http://www.epa.gov/ogwdw/>. Similar information also is available in the Consumer Confidence Report supplied by the Indian Creek Homeowners and Water Association to its customers.

POTENTIAL SOURCES OF CONTAMINATION:

No "potential" sources of contamination were identified by the Illinois EPA. Therefore, no potential sources were

identified on the attached Wellhead Protection Planning Map. (Maps and tables are not available in the Visually Impaired Accessible version. However, the information presented in the maps and tables is summarized within the following text sections of this fact sheet.) Identification of potential sources of contamination are predominantly accomplished through the Illinois EPA's Well Site Survey and Hazard Review Programs based on the nature of their activity, the availability of data in electronic databases, and their geographic proximity to the source water protection area. The Illinois EPA made use of the information from its leaking underground storage tank database (<http://epadata.epa.state.il.us/land/ust/search.asp>) and site remediation program database (<http://epadata.epa.state.il.us/land/srp/search.asp>) to further assess potential sources of contamination to the facility's source water. These databases include information from the Illinois EPA Division of Land Pollution Control (LPC) and the Illinois Emergency Management Agency (IEMA). A search of these databases also revealed no additional potential contamination sources within the well assessment area.

SITE DATA FOR THIS FACILITY:

As of January 2001, site data is unavailable or does not exist for this community water supply.

OTHER IDENTIFIED POTENTIAL SOURCES:

For this community water supply, no additional potential sources of contamination have been identified beyond those in Illinois EPA databases.

SUSCEPTIBILITY TO CONTAMINATION:

To determine Indian Creek Homeowner and Water Association's susceptibility to groundwater contamination, a Well Site Survey, published in 1992 by the Illinois EPA, and Source Water Protection Plan were reviewed. Based on the information contained in these documents, no potential sources of groundwater contamination are present that could pose a hazard to groundwater pumped by the Indian Creek Homeowner and Water Association community water supply well.

Based upon this information, the Illinois EPA has determined that Indian Creek Homeowner and Water Association Well #1 is not susceptible to IOC, VOC, or SOC contamination. This determination is based on a number of criteria including: monitoring conducted at the well; monitoring conducted at the entry point to the distribution system; and the available hydrogeologic data for the well.

In anticipation of the U.S. EPA's proposed Ground Water Rule, the Illinois EPA has determined that Indian Creek Homeowner and Water Association's community water supply well is not vulnerable to viral contamination. This determination is based upon the evaluation of the following criteria during the Vulnerability Waiver Process: the community's well is properly constructed with sound integrity and proper site conditions; there is a hydrogeologic barrier that restricts pathogen movement; all potential routes and sanitary defects have been mitigated such that the source water is adequately protected; monitoring data did not indicate a history of disease outbreak; and the sanitary survey of the water supply did not indicate a viral contamination threat. However, having stated this, the U.S. EPA is proposing to require States to identify systems in karst, gravel and fractured rock aquifer systems as sensitive. Water systems utilizing these aquifer types would be required to perform routine source water monitoring. Because the community's well is constructed in a confined aquifer, which should provide an adequate degree of protection to prevent the movement of pathogens into the well, well hydraulics were not considered to be a significant factor in the vulnerability determination.

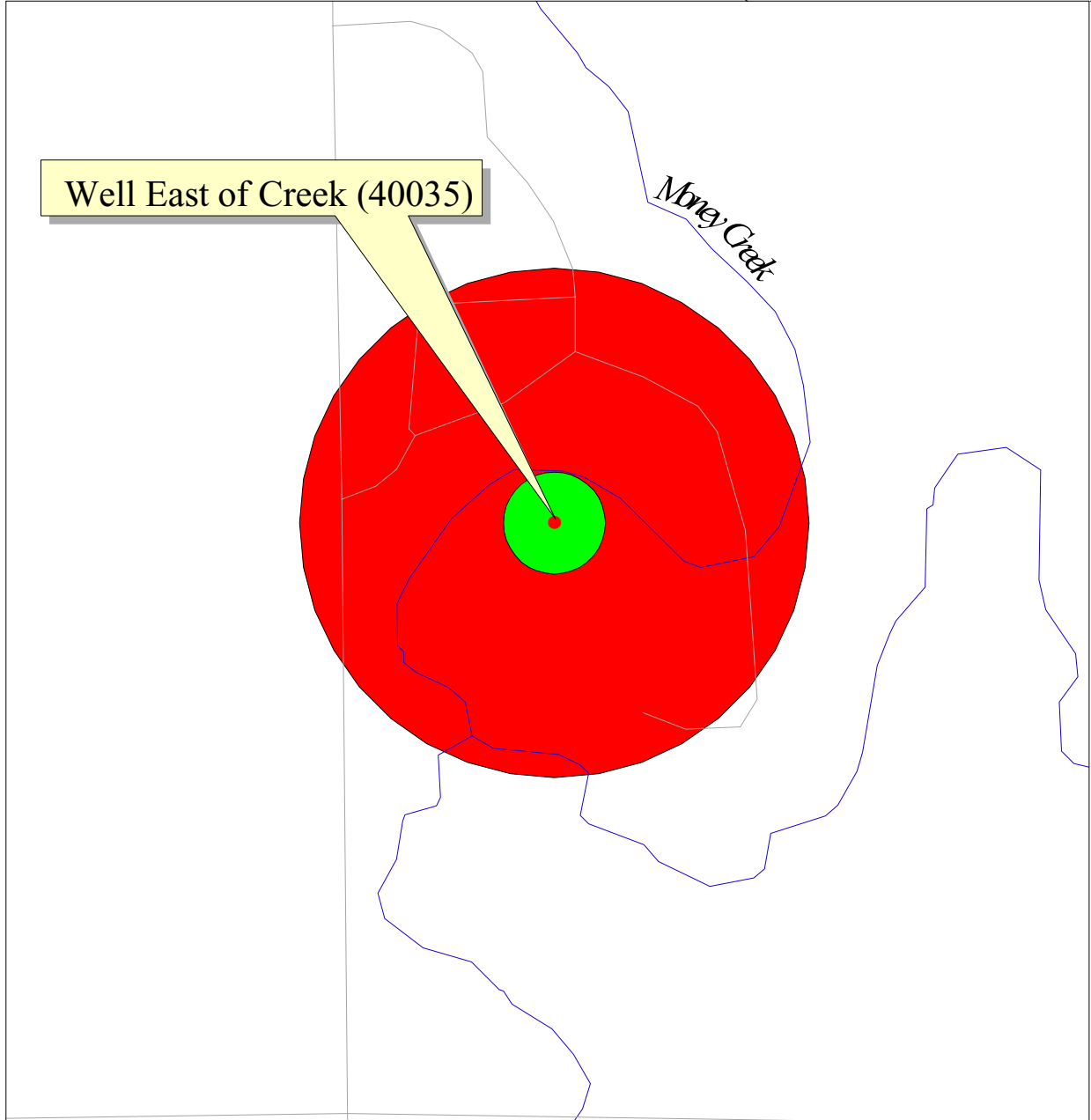
SOURCE WATER PROTECTION EFFORTS:

The Illinois Environmental Protection Act provides minimum protection zones of 200 feet for the Indian Creek Homeowner and Water Association's well. These minimum protection zones are regulated by the Illinois EPA. Because the facility has proceeded with source water protection efforts, the facility has received a monitoring waiver for its well.

To further minimize the risk to the facility's groundwater supply, the Illinois EPA recommends that three additional activities be assessed. First, the facility may wish to have a "maximum setback zone" ordinance enacted. These ordinances are authorized by the Illinois Environmental Protection Act and allow county and municipal officials the opportunity to provide additional protection up to a fixed distance, normally 1,000 feet, from their wells. Second, the water supply staff may wish to revisit their contingency planning documents. Contingency planning documents are a primary means to ensure that, through emergency preparedness, a community will minimize their risk of being

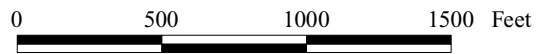
without safe and adequate water. Finally, the water supply staff is encouraged to review their cross connection control program to ensure that it remains current and viable. Cross connections to either the water treatment plant or in the distribution system may negate all of the source water protection initiatives provided by the community and circumvent the natural protection provided to the aquifer.

WELLHEAD PROTECTION PLANNING MAP FOR INDIAN CREEK HMOWNRS WTRASSN (FACILITY #1135250)



Legend

- CWS Wells
- ▲ Potential Sources Of Contamination
- Rails
- Roads
- Streams
- Minimum Setback Zone
- Existing or Potential Maximum Setback Zone



FOR MORE INFORMATION CONTACT:

Groundwater Section, Bureau of Water
 Illinois Environmental Protection Agency
 1021 North Grand Avenue East
 Springfield, IL 62794-9276
 Ph# (217)785-4787

Source Information
 Roads, Rails, and Streams from Illinois DNR.
 CWS Wells and Potential Sources from Illinois EPA.
 Map compiled by Groundwater Section, Illinois EPA.