

Source Water Information

If you want to learn more about the City of Effingham water supply your welcome to attend the next city council meeting scheduled for the first and third Tuesdays of each month at City Hall at 6:30pm. We want our valued customers to be informed about their water quality. The source water assessment for our supply has been completed by the Illinois EPA. If you would like a copy of this information, please stop by City Hall or call our water operator at [217-347-5056](tel:217-347-5056). To view a summary version of the completed Source Water Assessments, including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts, you may access the Illinois EPA website at <http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl>.

Drinking water for the City of Effingham, Illinois (Facility NO. 0490250) is supplied by the Effingham Community Water Supply (CWS). CIPS Lake serves as the primary source of this drinking water and Lake Sara as a secondary source. Water is obtained from one surface water intake in each Lake (IEPA #01460 and #45170, respectively). In addition, an intake is maintained on The Little Wabash River (IEPS #10459) which can pump to CIPS Lake or directly to the water treatment plant. As of Dec. 13, 2007 The City of Effingham is capable of obtaining water from the Kaskaskia River as a third source of water supply. Average water pumped is 2.3 million gallons per day to approximately 7,088 service connections and an estimate population of 18,065 people. Connected facilities that purchase water from Effingham includes Snake Trail PWD (0495350), Lake Sara Co-op (0495150), and Heartville PWD (0495200). Two facilities, EJ Water Corp. (0790010) and Teutopolis (0490450) purchase a portion of their water from Effingham. 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 text sections of this fact sheet.

Illinois EPA considers all surface water sources of public water supply to be susceptible to potential pollution problems. Hence the reason for mandatory treatment of all public water supplies in Illinois. Mandatory treatment includes coagulation, sedimentation, filtration and disinfection. Primary sources of pollution in Illinois lakes can include agricultural runoff, land disposal (septic systems) and shoreline erosion.

2011 Regulated Contaminants Detected

Lead and Copper

Definitions:

Action Level Goal (ALG): The level of a contaminant in drinking water below which there is no known or expected risk to health. ALGs allow for a margin of safety.

Action Level: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

— If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. We are responsible for providing high quality drinking water, but we cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using water for drinking or cooking. If you are concerned about lead in your water, you may wish to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at <http://www.epa.gov/safewater/lead>. —

Lead and Copper	Date Sampled	MCLG	Action Level (AL)	90th Percentile	# Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	06/2011	1.3	1.3	0.054	0	Ppm	N	Erosion of natural deposits; Leaching from wood preservatives; Corrosion of household plumbing systems.
Lead	06/2011	0	15	1	0	Ppb	N	Corrosion of household plumbing systems, Erosion of natural deposits.

Water Quality Test Results

Maximum Contaminant Level Goal or MCLG: The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

Maximum Contaminant Level or MCL: The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum residual disinfectant level goal or MRDLG: The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum residual disinfectant level or MRDL: The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

Definitions:

The following tables contain scientific terms and measures, some of which may require explanation.

ppb: micrograms per liter or parts per billion - or one ounce in 7,350,000 gallons of water.

na: not applicable.

Avg: Regulatory compliance with some MCLs are based on running annual average of monthly samples.

ppm: milligrams per liter or parts per million - or one ounce in 7,350 gallons of water.

TT: a required process intended to reduce the level of a contaminant in drinking water.

NTU: Nephelometric Turbidity Units.

pCi/L: picocuries per liter (a measure of radioactivity).

Regulated Contaminants.

Disinfectants & Disinfection By-Products	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Chloramines	2011	2.4	1.89 - 2.63	MRDLG = 4	MRDL = 4	ppm	N	Water additive used to control microbes.
Haloacetic Acids (HAA5)*	2011	18	14 - 22	No goal for the total	60	ppb	N	By-product of drinking water chlorination.

Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future

Total Trihalomethanes (TTHm)*	2011	31	25 - 38	No goal for the total	80	ppb	N	By-product of drinking water chlorination.
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Not all sample results may have been used for calculating the Highest Level Detected because some results may be part of an evaluation to determine where compliance sampling should occur in the future

Inorganic Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2011	0.016	0.016 - 0.016	2	2	ppm	N	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits.
Fluoride	2011	0.9	0.9 - 0.9	4	4.0	ppm	N	Erosion of natural deposits; Water additive which promotes strong teeth; Discharge from fertilizer and aluminum factories.
Nitrate (measured as Nitrogen)	2011	0.32	0.032 - 0.032	10	10	ppm	N	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Sodium	2011	25	25 - 25			ppm	N	Erosion from naturally occurring deposits; Used in water softener regeneration.

Note: The state requires monitoring of certain contaminants less than once per year because the concentrations of these contaminants do not change frequently. Therefore, some of this data may be more than one year old.

Radioactive Contaminants	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	07/08/2008	0.9	0.9 - 0.9	0	5	pCi/L	N	Erosion of natural deposits.
Gross alpha excluding radon and uranium	07/08/2008	3	3 - 3	0	15	pCi/L	N	Erosion of natural deposits.

Synthetic Organic Contaminants Including Pesticides & Herbicides	Collection Date	Highest Level Detected	Range of Levels Detected	MCLG	MCL	Units	Violation	Likely Source of Contamination
Simazine	2011	1	0 - 0.53	4	4	ppb	N	Herbicide runoff.

Turbidity	Limit (Treatment Technique)	Level Detected	Violation	Likely Sources of Contamination
	Highest single measurement	1 NTU	0.27 NTU	N
Lowest monthly % meeting limit	0.3 NTU	100%	N	Soil runoff.

Information Statement: Turbidity is a measurement of the cloudiness of the water caused by suspended particles. We monitor it because it is a good indicator of water quality and the effectiveness of our filtration system and disinfectants.

Total Organic Carbon

The percentage of Total Organic Carbon (TOC) removal was measured each month and the system met all TOC removal requirements set by IEPA, unless a TOC violation is noted in the violations section.