



# ILLINOIS EPA SOURCE WATER ASSESSMENT PROGRAM and INTERNET MAPSERVER

<http://www.epa.state.il.us/water/groundwater/source-water-assessment/index.html>

A vertical strip on the left side of the slide shows a topographic map of a river valley. The map features contour lines, a river channel, and a yellow line indicating a specific path or boundary. The background of the slide is a dark teal color with faint, light-colored contour lines.

# Requirements of the SWAP

- Delineate Source Water Protection Area
- I.D. Potential and Known Sources of Contamination (To the Extent Practical)
- Conduct Susceptibility Analysis
- Provide Information to the Public

A vertical strip on the left side of the slide shows a topographic map. A yellow vertical line indicates a wellhead. A yellow shaded area around it represents the Wellhead Protection Area. The map shows contour lines and a network of roads.

# Assessment Areas

- Wellhead Protection Area
  - Unconfined CWS Wells will have 5 Year Recharge Area Delineations
  - Confined CWS and Non-CWS Wells will Utilize a 1,000 Foot Area of Concern

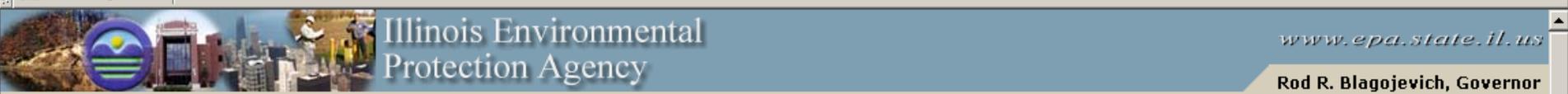


# Assessment Areas

- Non-CWS & CWS (Surface Water)
- Impoundments & Side Channel Reservoirs
  - Watershed Delineations
- Interstate & Major Rivers
  - Critical Areas (25 Mile upstream of Intake or a 5 Hour Time of Travel Buffer Zone)
- Lake Michigan (Critical Areas)
  - Coordinating w/ U.S. EPA Region 5

# Information Sources Used to Complete SWA's

- Local Water Supply Officials
- State & Federal Databases
- Field Surveys
- Historical/On-going Monitoring Data
  - Ambient GW Monitoring Network, and other GW Monitoring Programs
  - Ambient Lake Monitoring
    - Aprox. 30 PWS Reservoirs per Year



Agency Links

Welcome to the Illinois EPA Web Site

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News Releases Highlights

<p> <a href="#">02/03/05 - IEPA issues certification to allow dredging of Waukegan Harbor for next 10 years</a> <i>Agency to review Attorney General Task Force's report before deciding on lake disposal and beach nourishment issues</i></p> <p>CHICAGO --- The Illinois Environmental Protection Agency announced that it has granted a Section 401 Clean Water Act certification to the U.S. Army Corps of Engineers and the Illinois Department of Natural Resources for 10 years of annual maintenance dredging in the Waukegan Harbor Approach Channel and the Advanced Maintenance Area in Lake Michigan. IEPA reached the engineering and scientific judgment that project would not cause water pollution or adversely impact water quality in Lake Michigan.</p>	<p>Gillespie Mayor Dan Fischer (standing) talked to IEPA staffers about a brownfields site cleanup in his community during the first of a series of monthly "brown bag" luncheon programs on Jan. 27. Mayor Fischer was one of the "stars" of an IEPA-produced video shown called "Commitment to Community" that was first screened at the National Brownfields Conference last fall.</p> 
<p> <a href="#">01/31/05 - GOVERNOR'S ENVIRONMENTAL CORPS SUMMER INTERNSHIP APPLICATIONS NOW BEING ACCEPTED</a> <i>Program is Funded Through Corporate Contributions</i></p> <p>SPRINGFIELD---Governor Rod Blagojevich and the Illinois</p>	<p>An ancient "Lake Chicago" shoreline remnant in Calumet City that contains an abundance of rare wild flowers and endangered species is featured in the <a href="#">latest issue of the IEPA's Environmental Progress magazine</a>, now available online. Other articles include reports on used tire</p> 

Features

**State of Illinois BUSINESS PORTAL**

**Burn Barrel Education**

**Environmental Facts Online**

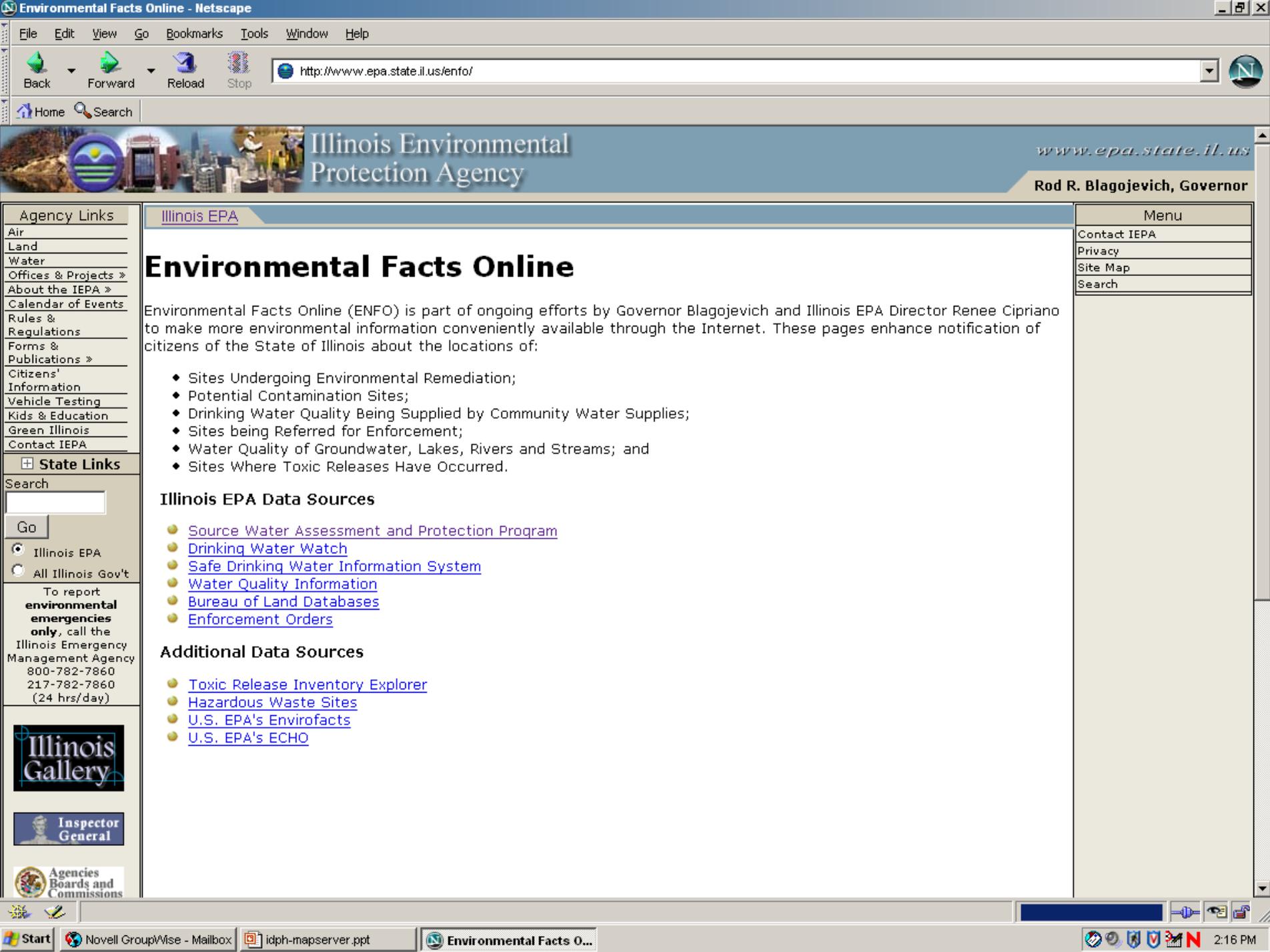
**Citizens' Information Center**

**Earth 911**

To locate your nearest recycling or household hazardous waste collection center, please enter your ZIP Code:

1-800-CLEANUP  
[www.EARTH911.org](http://www.EARTH911.org)  
*Making Every Day Earth Day!*

**Illinois Small Business Advisor** 



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### Illinois EPA

## Environmental Facts Online

Environmental Facts Online (ENFO) is part of ongoing efforts by Governor Blagojevich and Illinois EPA Director Renee Cipriano to make more environmental information conveniently available through the Internet. These pages enhance notification of citizens of the State of Illinois about the locations of:

- ◆ Sites Undergoing Environmental Remediation;
- ◆ Potential Contamination Sites;
- ◆ Drinking Water Quality Being Supplied by Community Water Supplies;
- ◆ Sites being Referred for Enforcement;
- ◆ Water Quality of Groundwater, Lakes, Rivers and Streams; and
- ◆ Sites Where Toxic Releases Have Occurred.

### Illinois EPA Data Sources

- [Source Water Assessment and Protection Program](#)
- [Drinking Water Watch](#)
- [Safe Drinking Water Information System](#)
- [Water Quality Information](#)
- [Bureau of Land Databases](#)
- [Enforcement Orders](#)

### Additional Data Sources

- [Toxic Release Inventory Explorer](#)
- [Hazardous Waste Sites](#)
- [U.S. EPA's Envirofacts](#)
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[Public Water Supply](#)

# Source Water Assessment and Protection Program

**General Public**

- [Source Water Assessment Fact Sheets](#)
- [Guide To Developing a Source Water Protection Plan](#) (258 KB) Flash Player Required

**? Where can I download the Flash Player software?**

**Secure Users Only (Password Required)**

- [Security Sensitive Source Water Assessment Fact Sheets and Interactive Geographic Information System](#)
- [Source Water Assessment Program ArcIMS Mapping Tool](#)

**? How Do I Become a Secure User?**

The 1996 amendments to the federal Safe Drinking Water Act (SDWA) required states to develop and implement a source water assessment program (SWAP). Source water protection (SWP) is a proactive approach to protecting our critical sources of public water supply and assuring that the best source of water is being utilized to serve the public. It involves implementation of pollution prevention practices to protect the water quality in a watershed or wellhead protection area serving a public water supply. Along with treatment, it establishes a multi-barrier approach to assuring clean and safe drinking water to the citizens of Illinois.

Pollution prevention, like preventive medicine, starts with awareness. Thus, source water assessment is the cornerstone essential to the development and implementation of source water protection plans and includes the following:

- ◆ Delineating the source water protection area (e.g., watersheds and wellhead protection areas);
- ◆ Inventorying potential contamination sources;
- ◆ Determining the susceptibility of the source water to contamination
- ◆ Providing recommendations to protect the source water; and
- ◆ Providing this information to the public.

The Illinois EPA has implemented a source water assessment program (SWAP) to assist with wellhead and watershed protection of public drinking water supplies.

More than 11 million people in Illinois rely on public water supplies for drinking water. Assessments have been conducted for all public water supplies in Illinois, including approximately 1,800 community water supplies. In addition, more than 4,100 non-community water supplies have been assessed. Illinois SWAP activities are divided into the following areas: 1) community surface water supplies; 2) non-community surface water supplies; 3) Community groundwater supplies; Great Lakes (Lake Michigan supplies); 4) non-community groundwater supplies; and 5) mixed ground and surface water community water supplies.

The Source Water Assessment Program, as implemented by Illinois EPA, will help communities make important decisions about how to protect their drinking water. By working to ensure safe drinking water supplies, the health and economy of the community, as well as the preservation of natural resources, will be greatly improved. In addition, investments in drinking water treatment will be sustained for a longer time period.

For more information on the SWAP for Illinois contact Anthony Dulka, Illinois EPA, Bureau of Water, Groundwater Section, at 217-785-4787. Questions pertaining to public non-community water supplies should be directed to local health departments or the Illinois Department of Public Health at 217-782-5830.

**Water Menu**

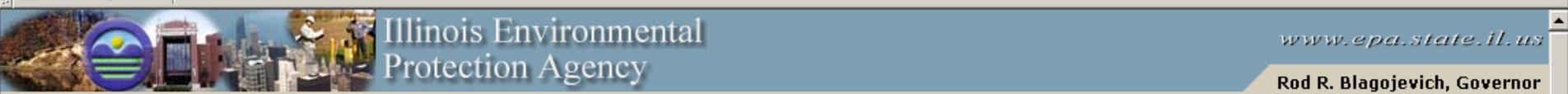
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http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl

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[Bureau of Water](#)

# SWAP Fact Sheets

To view a summary version of the completed Source Water Assessments, you may search our records by county or public water supply name. This summary information describes pertinent sub-sections of each completed assessment including: Importance of Source Water; Susceptibility to Contamination Determination; and documentation/recommendation of Source Water Protection Efforts. However, summaries of Source Water Protection Efforts have not been documented for non-community water supplies. It should be noted that these Source Water Assessment summaries are presented in strict compliance with Illinois EPA's security policy on the release of sensitive information. Therefore, all locational data and maps resulting from these Source Water Assessment summaries have been removed. To obtain a complete version of the Source Water Assessment Report, please contact your local water supply officials.

**By County:** You can list facilities in a particular county by selecting the county from the list below.

**By Name:** Or you can list facilities with names that begin with the letters you enter here (e.g. "Spring").

## Additional Information

- [USEPA's Office of Ground Water and Drinking Water](#)
- [The Groundwater Foundation](#)
- [Illinois Water Supply information at the Illinois State Water Survey](#)
- [Conservation Technology Information Center](#)

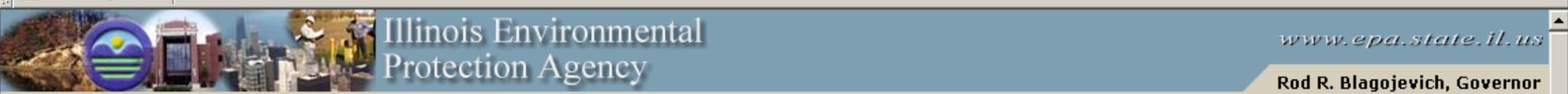
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[SWAP Fact Sheets](#)

# Source Water Assessment Summary

## 0894070 - AURORA

Last Updated on 2003-04-15

### Importance of Source Water

*(A Summary of this section is required in Consumer Confidence Reports)*

Drinking water for the City of Aurora (Facility No. 0894070) is supplied by the Aurora community water supply (CWS). The Fox River and seventeen groundwater wells serve as the primary source of this water. This facility draws water from the Fox River through one surface water intake (IEPA #00679). Combined pumpage from the wells and the Fox River is approximately 17 million gallons per day to 41,900 service connections with an estimated population of 155,000 persons in Kane, DuPage, Kendall, and Will Counties.

### Source Water Quality

*(A Summary of this section is optional in Consumer Confidence Reports)*

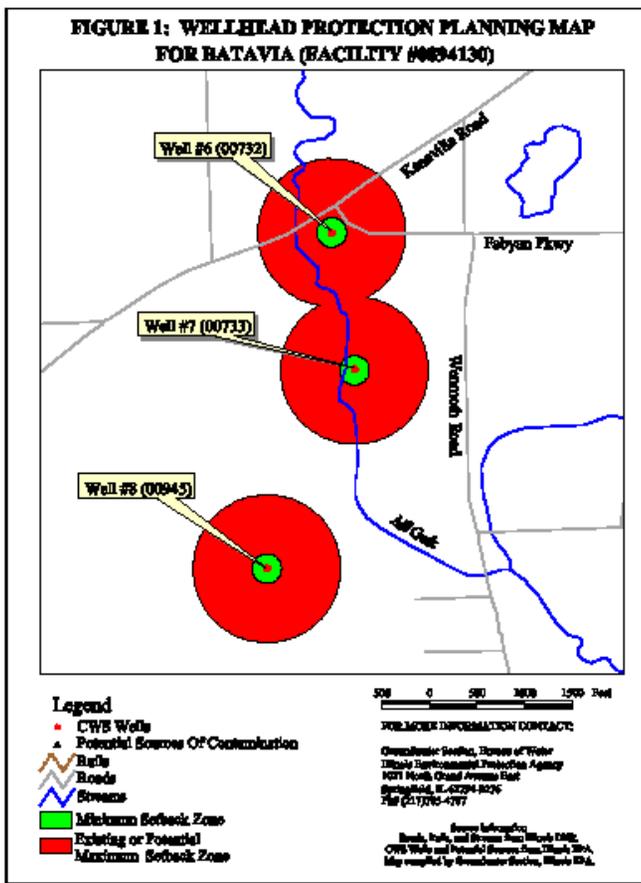
The Illinois EPA annually collects data on rivers, streams, lakes, and groundwater to satisfy reporting requirements found in Section 305(b) of the Federal Clean Water Act (CWA). The primary purpose of the Section 305(b) process is to provide for an assessment of the overall water quality conditions of Illinois waters. Water quality conditions are assessed in terms of the degree to which waters attain "beneficial uses," also called "designated uses." Pollution control programs are designed to protect designated individual uses, including aquatic life, swimming, drinking water, recreation, secondary contact and indigenous aquatic life and fish consumption.

Based on the 2002 Water Quality Report, the overall rating for the Fox River is partial support. Waters not attaining water quality standards with technology-based controls alone (e.g. water quality limited) must be identified in accordance with Section 303(d) of the Federal Clean Water Act (CWA). Other water body segments (streams) within this watershed may be included on the 303(d) list. Results of these assessments made in recent years can be found in a comprehensive Illinois Water Quality Report and the associated Illinois Water Quality Information Mapping Tool available on the Illinois EPA website <http://www.epa.state.il.us/water/water-quality/index.html>.

Waters not attaining water quality standards with technology-based controls alone (e.g. water quality limited) must be identified in accordance with Section 303(d) of the Federal Clean Water Act (CWA). Water body segments (streams) within this watershed are included on the 303(d) list. An explanation of how water body segments are rated can be found in the

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**FIGURE 1: WELLHEAD PROTECTION PLANNING MAP FOR BATAVIA (FACILITY #0894130)**



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## Source Water Assessment Program (SWAP) ArcIMS Mapping Tool

*Information and data presented were obtained from various Federal, State, and local agencies and are subject to revision. The data are released on the condition that neither the Illinois EPA nor the United States Government may be held liable for any damages resulting from their use. The use of firm, trade, and brand names is for identification purposes only and does not constitute endorsement by the Illinois EPA.*

[Start using the SWAP ArcIMS Mapping Tool](#)  
(opens in a new window)

### User Information:

Users of the Source Water Assessment Program (SWAP) ArcIMS Mapping Tool can locate, create, and print maps of any size area within Illinois for use with SWAP issues. Map layers may be added by clicking the "visible" check box next to the layer's name and pressing the **Refresh Map** button. To locate an area of interest, select one of the following methods:

- use the **Zoom** tool to draw a rectangle (left click and drag) over the area of interest, or
- click on the **Query** tool and select an option that displays the area of interest.

When finished, the map can be printed using the **Print** tool. First time users may want to visit the [Introduction and Help page](#) for more detailed instructions (also available through the **Help** tool).

This site was developed using [Environmental Systems Research Institute, Inc \(ESRI\) ArcIMS 4.0](#) Internet map server. Because of the nature of the Internet map server, the following pages are best viewed with [Microsoft Internet Explorer 5.0](#) or later version, or [Netscape Navigator 4.7](#) or later version.

### Definitions:

- Community Water Supply -- a public water supply that serves or is intended to serve at least 15 service connections used by residents or regularly serves at least 25 residents.
- Non-community Water Supply -- a public water supply that is not a community water supply.
- Public Water Supply -- all mains, pipes and structures through which water is obtained and distributed to the public, including wells and well structures, intakes and cribs, pumping stations, treatment plants, reservoirs, storage tanks and appurtenances, collectively or severally, actually used or intended for use for the purpose of furnishing water for drinking or general domestic use and which serve at least 15 service connections or which regularly serve at least 25 persons at least 60 days per year. A public water supply is either a community water supply or a non-community water supply.
- Potential Source of Contamination - the phrase "potential source" is expressly used here to describe sources that possibly are or have the capability of becoming a source of drinking-water contamination.

Start | mapserver.ppt | ILLINOIS SWAP.ppt | Source Water Assess... | Novell GroupWise - Mailbox | 10:07 AM

# Loading Viewer...

**Prompt** [X]

Enter username and password for "ArcIMS Network" at maps.epa.state.il.us

User Name:  
swap

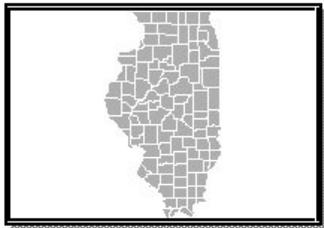
Password:  
XXXXXXXXXX

Use Password Manager to remember these values.

OK Cancel



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Refresh Map

Select Active Layer:  
IEPA Bureau of Water Regional Office Area

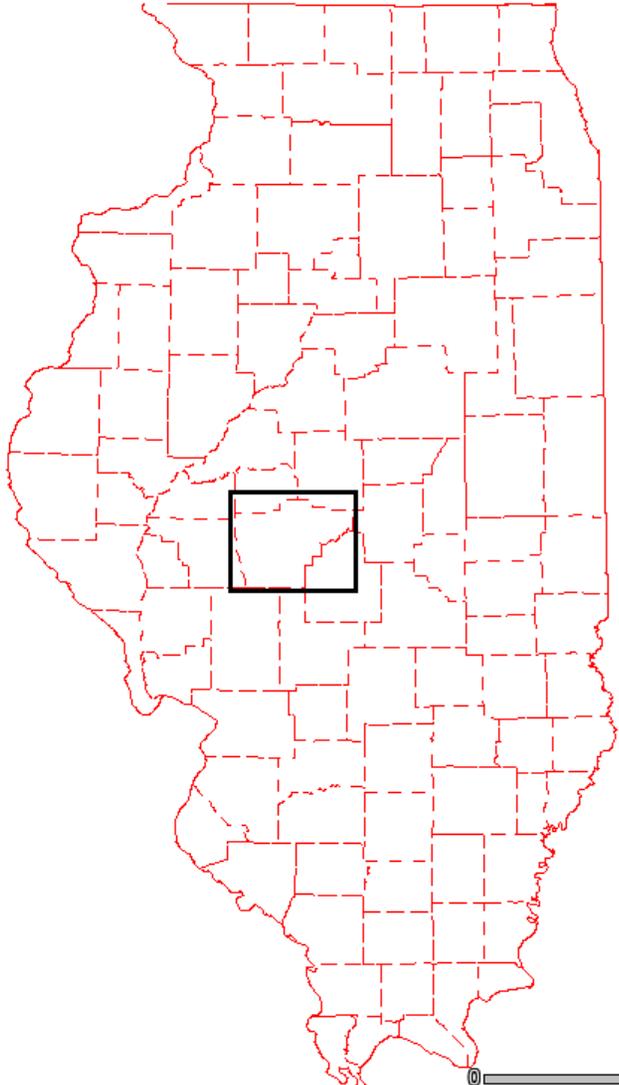
- Available Layers:**
- Admin/PLSS
  - Environmental Concerns
  - Infrastructure
  - Misc
  - Resource
  - Surficial/Bedrock Geology
  - Water Quality
  - Water Resources
  - Water Use/Source Water P
  - Background Images

Refresh Map





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Refresh Map

Select Active Layer:  
IEPA Bureau of Water Regional Office Area

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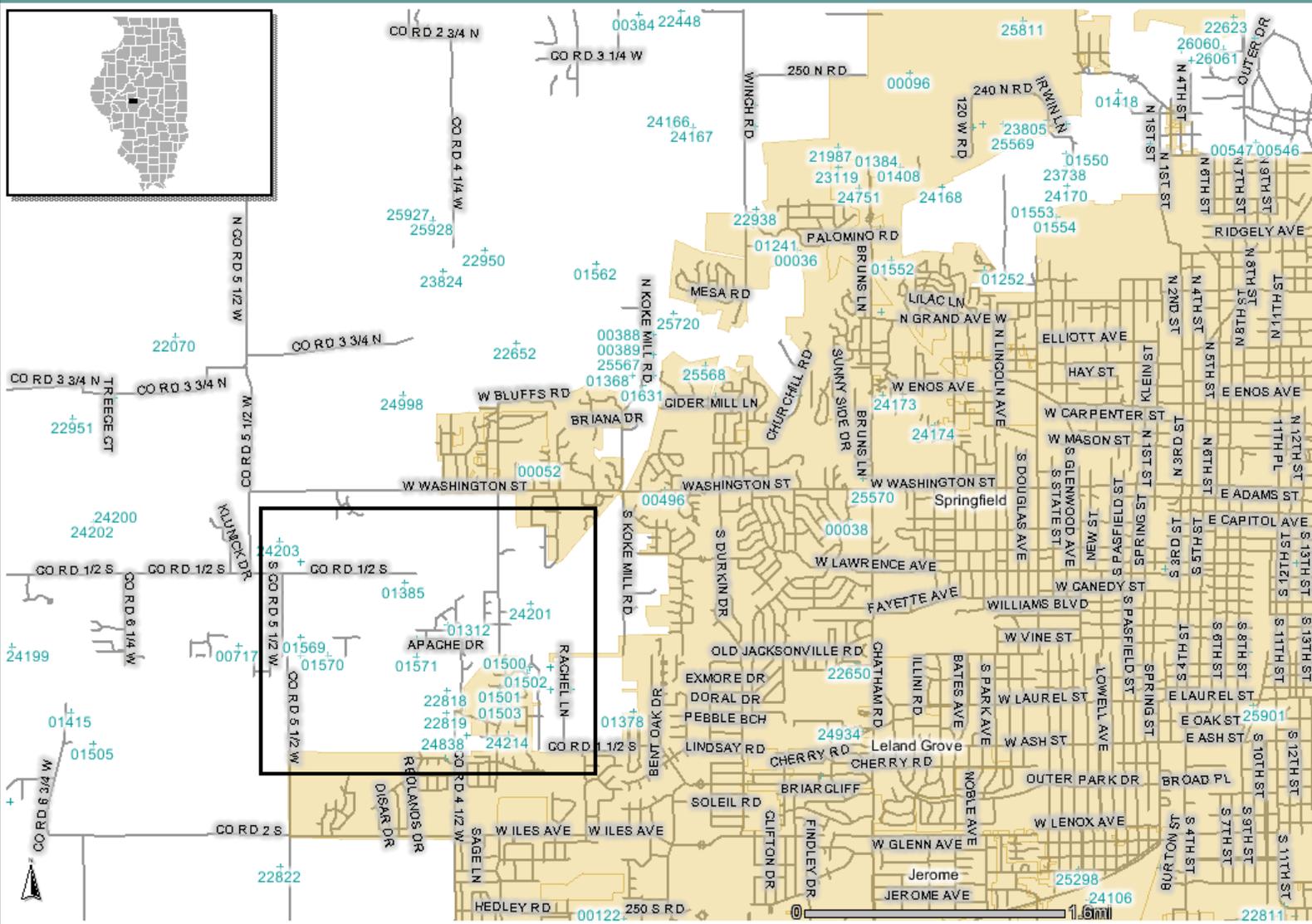
Refresh Map







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**Select Active Layer:**

ISGS Wells

**Available Layers:**

- Admin/PLSS
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- Municipal boundaries
- Quadrangle Boundari
- Township Lines
- Section Lines
- County lines
- State line
- State House Districts
- Congressional District
- Environmental Concerns
- Infrastructure
  - Local Roads
  - Major Roads
  - State Highways
  - U.S. Highways
  - Interstates
  - Railroads
  - Oil & Gas Pipelines
- Misc
- Resource
- Surficial/Bedrock Geology
- Water Quality
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- Water Use/Source Water
  - ISGS Wells
  - Non-CWS Phase I We
  - Non-CWS Surface Wa
  - Non-CWS Wells
  - PWS Watersheds
  - PWS Lakes
  - Zone 1 Source Water
  - Community SW Intake
  - CWS Phase II Wellhea
  - CWS Phase II Wellhea
  - CWS Wells

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Microsoft PowerPoint - [idp...
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20	178497	<a href="#">121670156900</a>	Roberts, Mark O.	97	WTST	01569
21	178641	<a href="#">121670157000</a>	Roberts, Mark O.	82	WTST	01570
22	178642	<a href="#">121670157100</a>	Mangiarocina, Paul	30	WATER	01571
23	178659	<a href="#">121670158900</a>	Bently, Dolores M.	30	WATER	01589
24	178915	<a href="#">121672483800</a>	Kuhn, Terry	47	WATER	24838
25	179398	<a href="#">121672420100</a>	Toolen, Vince	46	WATER	24201

[More Records](#)   [Zoom to these records](#)

query   select   clear   buffer   measure   print   hyperlink   download   overview   legend/layer

### Print Map

Title to display on Map:

ArcIMS HTML Viewer

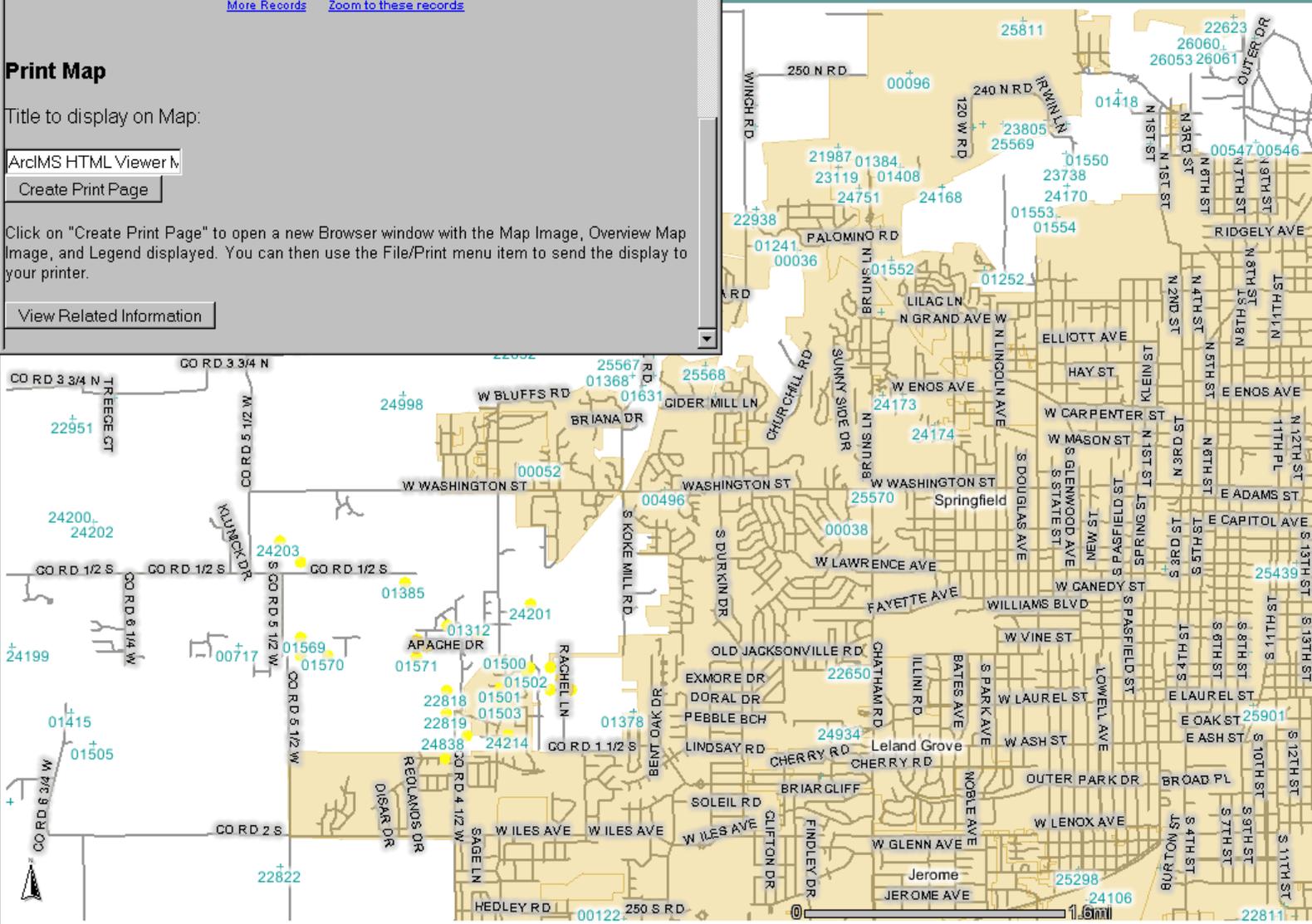
Create Print Page

Click on "Create Print Page" to open a new Browser window with the Map Image, Overview Map Image, and Legend displayed. You can then use the File/Print menu item to send the display to your printer.

[View Related Information](#)

### Select Active Layer:

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  - Quadrangle Boundari
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  - Section Lines
  - County lines
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    - Water Use/Source Water
  - ISGS Wells
    - Non-CWS Phase I We
    - Non-CWS Surface Wa
    - Non-CWS Wells
    - PWS Watersheds
    - PWS Lakes
    - Zone 1 Source Water
    - Community SW Intake
    - CWS Phase II Wellhea
    - CWS Phase I Wellhea
    - CWS Wells



### Well Search

Search for a single well by API number  
API Number:

Search for a single well by county name and county\_no (map #)  
County:   
county\_no:

Search for multiple wells with these search parameters:

Driller Company Name  
Exact Name:  [Search for company names](#)

Depth Range  
Lower:   
Upper:

County:

Rectangular Boundary  
Enter bounds in decimal x and y coordinates.  
Lower X Bound:  Upper X Bound:   
Lower Y Bound:  Upper Y Bound:

Section, Township and Range  
Section:   
Township:  Township Direction:   
Range:  Range Direction:

Select columns to be shown in search results.

Header Data

<input checked="" type="checkbox"/> Driller Name (COMPANY_NAME)	<input checked="" type="checkbox"/> Strat Data Available (Yes/No)	<input type="checkbox"/> Firm Name (FIRM_NAME)
<input type="checkbox"/> Section (SECTION)	<input type="checkbox"/> Township (TWP)	<input type="checkbox"/> Range (RNG)
<input type="checkbox"/> Quarter (QUARTERS)	<input type="checkbox"/> Lambert X (LAM_X)	<input type="checkbox"/> Lambert Y (LAM_Y)
<input type="checkbox"/> WellDepth (TOTAL_DEPTH)		

Stratigraphic Data \*

<input type="checkbox"/> Thickness (TOP)	<input type="checkbox"/> Bottom (BOTTOM)	<input type="checkbox"/> Formation (FORMATION)
--	--	--

\* - Selecting stratigraphic data will limit the search results to wells that have stratigraphic data in the database. The query time will be significantly longer.