



Illinois Department of Natural Resources

One Natural Resources Way Springfield, Illinois 62702-1271
<http://dnr.state.il.us>

Pat Quinn, Governor
Marc Miller, Director

LAKE MICHIGAN WATER ALLOCATION – APPLICATION FOR PERMIT

Office of Water Resources, Michael A. Bilandic Building, 160 N. LaSalle Street, Suite S-700, Chicago, Illinois 60601

Office: 312/793-3123

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Completing this Application for Permit for a Lake Michigan Water allocation is required under Illinois law (615 ILCS 50/5) and is the first step in the Department's Lake Michigan water allocation process. All water demand/usage amounts should be shown in units of million gallons per day (mgd). Our water year begins October 1 and ends on September 30. Do not include any water which is sold or transferred to any other water distribution system unless expressly indicated otherwise in this application. Please complete/answer all of the questions in this application form. The completed application can be submitted to the Illinois Department of Natural Resources, Office of Water Resources, Michael A. Bilandic Building, 160 N. LaSalle Street, Suite S-700, Chicago, Illinois 60601.

SECTION I – GENERAL INFORMATION

Name, address, phone number and email of applicant:

Names, address, phone number and email of the contact person for the applicant:

Authorized Official

Name: _____

Title: _____

Date _____

Subscribed and sworn to before me this
_____ day of _____, 20

Notary Public

(Seal)

SECTION V – BREAKDOWN OF LATEST ANNUAL WATER USE

WATER YEAR _____

Enter the amount of water pumped and utilized for each item shown below. All amounts entered in this section must be in units of million gallons per day (MGD) rounded off to 3 decimal places to the right of the decimal. Conversion calculations are provided for your use in Section VII to convert other commonly used units to MGD.

A. Pumpage Data

Water bought or received from the following distribution systems:

1. Lake Michigan Pumpage	_____	MGD
2. Shallow Aquifer Pumpage	_____	MGD
3. Deep Aquifer Pumpage	_____	MGD
4. Total Pumpage (Add lines 1-3)	_____	MGD
5. Water Treatment Use	_____	MGD
6. Gross Annual Pumpage (subtract line 5 from line 4)	_____	MGD

Water sold or provided to any other distribution systems (enter the name of each system and the amount sold or provided to that system on lines 7-12). If additional lines are required, attach an additional sheet listing each system and amount.

7.	_____	MGD
8.	_____	MGD
9.	_____	MGD
10.	_____	MGD
11.	_____	MGD
12.	_____	MGD
13. Total (add lines 7-12 and any additional amounts)	_____	MGD
14. Net Annual Pumpage (subtract line 13 from line 5)	_____	MGD

B. Uses	Metered	Unmetered	Total	
15. Residential	_____	_____	_____	MGD
16. Commercial/Manufacturing	_____	_____	_____	MGD
17. Municipal	_____	_____	_____	MGD
18. Construction	_____	_____	_____	MGD
19. Total Uses (add Total lines 15-18)	_____	_____	_____	MGD
20. Percentage of Total Uses to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)	_____	_____	_____	%

C. Hydrant Uses			
21. Firefighting and Training	_____	_____	MGD
22. Water Main Flushing	_____	_____	MGD
23. Sewer Cleaning	_____	_____	MGD
24. Street Cleaning	_____	_____	MGD
25. Construction	_____	_____	MGD
26. Other (attach explanation)	_____	_____	MGD
27. Total Hydrant Uses (add lines 21-26)	_____	_____	MGD
28. Percentage of Hydrant Uses to Net annual Pumpage (divide line 27 by line 14 and multiply by 100)	_____	_____	%
29. Department Requirement for Hydrant Uses	_____	1.0	%
30. Excessive Hydrant Use (subtract line 29 from line 28). If the percentage is greater than 0.0, attach explanation. [See Rule 730.307(e)]	_____	_____	%

D. Unavoidable Leakage and Unaccounted for Flow

- 31. Maximum Unavoidable Leakage (Do Worksheet in Section VI; Enter amount from line 10 of the worksheet) MGD
- 32. Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100) %
- 33. Total Accounted for Flow (add lines 19, 27 and 31) MGD
- 34. Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100) %
- 35. Total Unaccounted for Flow (subtract line 33 from line 14) MGD
- 36. Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100) %

Please Check Your Calculations

The sum of lines 33 and 35 should equal the amount reported on line 14. If they do not equal, recheck your calculations.

The sum of lines 34 and 36 should equal approximately 100%. If not, check your calculations.

Section VI - Maximum Unavoidable Leakage Worksheet

Complete the following calculations to determine your maximum unavoidable leakage. Enter the appropriate amounts in the spaces provided.

A. Cast Iron Pipes with Lead Joints

	Age of Pipe	Miles of Pipe	Leakage Rate	Max. Unavoidable Leakage	
1.	60 yrs. or greater	_____	X 3,000 g/d/mi =	_____	g/d
2.	40-60 yrs.	_____	X 2,500 g/d/mi =	_____	g/d
3.	20-40 yrs.	_____	X 2,000 g/d/mi =	_____	g/d
4.	20 yrs. or less	_____	X 1,500 g/d/mi =	_____	g/d

B. All Other Types of Pipes and Joints

5.	60 yrs. or greater	_____	X 2,500 g/d/mi =	_____	
6.	40-60 yrs.	_____	X 2,000 g/d/mi =	_____	g/d
7.	20-40 yrs.	_____	X 1,500 g/d/mi =	_____	g/d
8.	20 yrs. or less	_____	X 1,000 g/d/mi =	_____	g/d
9.	Total Miles	_____	Total Leakage	_____	g/d
10.	Total Maximum Unavoidable Leakage, in MGD (divide Total Leakage on line 9 by 1,000,000) (Enter this amount on line 31)			MGD

* Leakage Rate expressed in gallons per day per mile (g/d/mi)

** Maximum Unavoidable Leakage expressed in gallons per day (g/d)

Section VII - Conversion Table

To convert cubic feet per year (cf) to (MGD) use:

$$cf \times 7.48 \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per year (g) to (MGD) use:

$$g \div 1,000,000 \div 365 = \text{MGD}$$

To convert gallons per day (g/d) to (MGD) use:

$$g/d \div 1,000,000 = \text{MGD}$$

To convert million gallons per year (mg) to (MGD) use:

$$mg \div 365 = \text{MGD}$$

SECTION VIII – ADDITIONAL INFORMATION

A. Indicate Well Data and Production for the latest 12 month period as shown below:

Well No. & Location	Depth Of Well	Capacity Gallons/minute	Total Water Production	Quality*
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*If any wells violate State standards, mark yes and include a current water quality analysis report.

B. Do any of the wells interfere with each other during simultaneous pumping? If yes, please describe.

C. What problems do you anticipate with your well supply between now and 2030?

D. If an allocation of Lake Michigan water is granted, what is the earliest date that Lake Michigan water could be used (month and year)? _____

E. Specify present and/or proposed point(s) of withdrawal from Lake Michigan.

F. Provide a map of your water service area. Include any projected service areas (annexations, well locations, and Lake Michigan water supply locations).

G. Specify the location of discharge after the water is used (how it is treated) and describe the route the discharge will follow to reach an identifiable stream.

H. Include with this application a copy of any approved water conservation ordinance.

I. Provide additional data and/or information you may have to further justify your water allocation on a separate sheet.