

**ILLINOIS
DEPARTMENT OF
NATURAL RESOURCES**
Office Of Water Resources

Illinois Department of Natural Resources
Office of Water Resources
One Natural Resources Way
Springfield, Illinois 62702-1271

36 S. Wabash Avenue, Room 1415 Chicago, Illinois 60603-2921 312.796.3123 Fax 312.7935968

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2008 Annual Water Use Audit Form (LMO-2)

This form must be completed by all Category IA and IIB Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by December 31, '2008.

Section I- General Information

Name, address and phone number of Permittee:

ILLINOIS - AMERICAN WATER COMPANY Arrowhead
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630-739-8810

County : DUPAGE

Name, address and phone number of the contact person for the Permittee:

MR. STEVE PHILLIPS
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

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FEB 03 2009

OFFICE OF WATER RESOURCES
DIVISION OF WATER RESOURCES

Authorized Official: Steve Phillips

Title: Production Superintendent

Date: 12/8/2008

Please provide the following leak survey information and population estimates for the last year.

Results and recommendations of leak surveys conducted on the water distribution system including progress made in leak repair. (attach to back of form)

Population 1,824 Number of existing households 608

The Illinois Department of Natural Resources is requesting disclosure of information that is necessary to accomplish the statutory purpose as outlined under Chapter 19, Section 120.2 of the Illinois Revised Statutes. Disclosure of this information is required. Failure to provide any information will result in this form not being processed. This form has been approved by the Forms Management Center, Central Management Services.

Section II - Water Use Audit

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 IV to convert other commonly used units to MGD.

A. PUMPAGE DATA

1 Lake Michigan Pumpage	_____	0.146 MGD
2 Shallow Aquifer Pumpage	_____	_____ MGD
3 Deep Aquifer Pumpage	_____	_____ MGD
4 Total Pumpage (Add lines 1, 2, & 3).....	_____	0.146 MGD
5 Water Treatment Use	_____	_____ MGD
6 Gross Annual Percentage (subtract line 5 from line 4).....	_____	0.146 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 through 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)	_____	0 MGD
14 Net Annual Pumpage (subtract line 13 from line 6)	_____	0.146 MGD

B. USES

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15 Residential	608	_____	0.138 MGD
16 Commercial and Manufacturing	1	_____	0.001 MGD
17 Municipal	_____	_____	_____ MGD
18 Construction	_____	_____	_____ MGD
19 Total Uses (add Total lines 15 through 18)	_____	_____	0.139 MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)	_____	_____	95 %

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 Use (add lines 21 through 26)	_____	0.0005 MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)	_____	0.34 %
29 Department Requirement for Hydrant Use	_____	1.0 %
30 Excessive hydrant use (subtract line 29 from line 28). If the percentage is greater than 0.0, attach explanation. [see Rule 730307(e)]	_____	-0.66 %

D. Unavoidable Leakage and Unaccounted for Flow

31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	<u>0.014</u> MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	<u>9.53</u> %
33 Total Accounted for Flow (add lines 19, 27 and 31)	<u>0.153</u> MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	<u>105.08</u> %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14) ...	<u>-0.007</u> MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	<u>-5.08</u> %

Please Check Your Calculations

The sum of lines 33 and 35 should equal 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 III - 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*	Unavoidable Leakage**
1 60 yrs. or greater	<u> </u>	x 3000 g/d/mi =	<u> </u> 0 g/d
2 40-60 yrs.	<u> </u>	x 2500 g/d/mi =	<u> </u> 0 g/d
3 20-40 yrs.	<u> </u>	x 2000 g/d/mi =	<u> </u> 0 g/d
4 20 yrs. or less	<u> </u>	x 1500 g/d/mi =	<u> </u> 0 g/d

B All Other Types of Pipes and Joints

5 60 yrs. or greater	<u> </u>	x 2500 g/d/mi =	<u> </u> 0 g/d
6 40-60 yrs.	<u>0</u>	x 2000 g/d/mi =	<u> </u> 0 g/d
7 20-40 yrs.	<u>8.53</u>	x 1500 g/d/mi =	<u>12795</u> g/d
8 20 yrs. or less	<u>1.12</u>	x 1000 g/d/mi =	<u>1120</u> g/d
9 Total Miles	<u>9.65</u>	Total Leakage	<u>13915</u> g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000			<u>0.013915</u> MGD

(Enter this amount on line 31 of "Section II - Water Use Audit")