ILLINOIS
DEPARTMENT OF
NATURAL RESOURCES
Office Of Water Resources

Illinois Department of Natural Resources
Office of Water Resources
36 S Wabash Avenue/Suite 1415
Chicago Il 60603

7.789

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 January 4, 2009

Section I- General Information

Name, address and phone number of Permittee:

ILLINOIS - AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630-739-8854

WEST SUBURBAN DVN

County : WILL & DUPAGE

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

MR. STEVEN PHILLIPS
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630-739-8854

Authorized Official: MR STEVEN PHILLIPS

Title: OPERATIONS MANAGER

Date: 20-Nov-08

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 62,199 Number of existing households 20,733 x 3.0

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	9.851	MGD
2 Shallow Aquifer Pumpage		MGD
3 Deep Aquifer Pumpage		MGD
4 Total Pumpage (Add lines 1, 2, & 3)	9.851	MGD
5 Water Treatment Use		MGD
6 Gross Annual Percentage (subtract line 5 from line 4)	9.851	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 requ attach an additional sheet listing each system and amount.

7			
8 Village of Plainfield		3.278	MGD
9			MGD
10			MGD
11			MGD
12			MGD
13 Total (add lines 7-12 and any additional amounts)		3.278	MGD
14 Net Annual Pumpage (subtract line 13 from line 6)		6.573	MGD

B. USES	METERED	UNMETERED		
15 Residential	3.999		3.999	MGD
16 Commercial and Manufacturin	1.547		1.547	MGD
17 Municipal	0.156		0.156	MGD
18 Construction	0.001		0.001	MGD
19 Total Uses (add Total lines 15 through 18)			5.703	MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)			87	%

C. HYDRANT USES		
21 Firefighting and Training	0.001	MGD
22 Water Main Flushing	0.003	MGD
23 Sewer Cleaning	0.001	MGD
24 Street Cleaning	0	MGD
25 Construction	0.002	MGD
26 Other (attach explanation)	0	MGD
27 Total Hydrant Use (add lines 21 through 26	0.007	MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)	0.11	%
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)]	-0.89	%

D. Unavoidable Leakage and Unaccounted for Flow

31	Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.448 MGD
32	Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	6.82 %
33	Total Accounted for Flow (add lines 19, 27 and 31)	6.158 MGD
34	Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	93.69 %
35	Total Unaccounted for Flow (subtract amount on line 33 from line 14)	0.415 MGD
36	Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line14 and multiply by 100)	6.31 %

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		x 3000 g/d/mi =	0 g/d
2	40-60 yrs.		x 2500 g/d/mi =	0 g/d
3	20-40 yrs.		x 2000 g/d/mi =	0 g/d
4	20 yrs. or less		x 1500 g/d/mi =	0 g/d

B All Other Types of Pipes and Joints

5	60 yrs. or greater		x 2500 g/d/mi =	0 g/d
6	40-60 yrs.		x 2000 g/d/mi	0 g/d
7	20-40 yrs.	165.54	x 1500 g/d/mi =	248310 g/d
8	20 yrs. or less	199.74	x 1000 g/d/mi =	199740 g/d
9	Total Miles	358.78	Total Leakage	448050 g/d

10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000 ..... 0.44805 MGD
(Enter this amount on line 31 of "Section II - Water Use Audit")

Section IV - Conversion Table

Below are conversion calculations to convert the most commonly used units to units of millions gallons per day (MGD).

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

cf x 7.48 ÷ 1,000,000 ÷ 365 = MGD

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

g ÷ 1,000,000 ÷ 365 = MGD

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

g/d ÷ 1,000,000 = MGD

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

mg ÷ 365 = MGD