

**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

2010 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 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

FERNWAY

County : COOK

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 5,853 Number of existing households: 1951
Commercial: 31

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		0.501 MGD
2 Shallow Aquifer Pumpage		MGD
3 Deep Aquifer Pumpage		MGD
4 Total Pumpage (Add lines 1, 2, & 3)		0.501 MGD
5 Water Treatment Use		MGD
6 Gross Annual Percentage (subtract line 5 from line 4)		0.501 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)		0.501 MGD

B. USES

	METERED	UNMETERED	
15 Residential	1951		0.426 MGD
16 Commercial and Manufacturing	31		0.039 MGD
17 Municipal			MGD
18 Construction			MGD
19 Total Uses (add Total lines 15 through 18)			0.465 MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)			93 %

C. HYDRANT USES

21 Firefighting and Training		MGD
22 Water Main Flushing		0.0032 MGD
23 Sewer Cleaning		0.00008 MGD
24 Street Cleaning		MGD
25 Construction		MGD
26 Other (attach explanation)		MGD
27 Total Hydrant Use (add lines 21 through 26)		0.00 MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)		0.65 %
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)]		-0.35 %

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.037 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	7.40 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	0.506 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	100.94 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	-0.005 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	-0.94 %

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.	13	x 2000 g/d/mi	26000 g/d
7 20-40 yrs.	2.4	x 1500 g/d/mi =	3600 g/d
8 20 yrs. or less	7.47	x 1000 g/d/mi =	7470 g/d
9 Total Miles	22.87	Total Leakage	37070 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			0.03707 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:

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

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:

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

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2010 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 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

HOMER TOWNSHIP

County : COOK and WILL

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 21,558 Number of existing households: 7186
Commercial: 160

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		<u>1.828</u>	MGD
2 Shallow Aquifer Pumpage			MGD
3 Deep Aquifer Pumpage			MGD
4 Total Pumpage (Add lines 1, 2, & 3)		<u>1.828</u>	MGD
5 Water Treatment Use			MGD
6 Gross Annual Percentage (subtract line 5 from line 4)		<u>1.828</u>	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)		<u>0</u>	MGD
14 Net Annual Pumpage (subtract line 13 from line 6)		<u>1.828</u>	MGD

B. USES

	METERED	UNMETERED	
15 Residential	<u>7186</u>		<u>1.386</u> MGD
16 Commercial and Manufacturing	<u>160</u>		<u>0.203</u> MGD
17 Municipal			MGD
18 Construction			MGD
19 Total Uses (add Total lines 15 through 18)			<u>1.589</u> MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)			<u>87</u> %

C. HYDRANT USES

21 Firefighting and Training			MGD
22 Water Main Flushing		<u>0.022</u>	MGD
23 Sewer Cleaning		<u>0.0011</u>	MGD
24 Street Cleaning			MGD
25 Construction			MGD
26 Other (attach explanation)			MGD
27 Total Hydrant Use (add lines 21 through 26)		<u>0.02</u>	MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)		<u>1.26</u>	%
29 Department Requirement for Hydrant Use		<u>1.0</u>	%
30 Excessive hydrant use (subtract line 29 from line 28). If the percentage is greater than 0.0, attach explanation. [see Rule 730307(c)]		<u>0.26</u>	%

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.175 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	9.55 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	1,787 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	97.75 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	0.041 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	2.25 %

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.	82.65	x 1500 g/d/mi =	123975 g/d
8 20 yrs. or less	50.671	x 1000 g/d/mi =	50671 g/d
9 Total Miles	133.321	Total Leakage	174646 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			0.175 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:

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

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:

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

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2010 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 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

LIBERTY RIDGE WEST

County : DUPAGE

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 3,627 Number of existing households: 1209
Commercial: 0

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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		0.247	MGD
2 Shallow Aquifer Pumpage			MGD
3 Deep Aquifer Pumpage			MGD
4 Total Pumpage (Add lines 1, 2, & 3)		0.247	MGD
5 Water Treatment Use			MGD
6 Gross Annual Percentage (subtract line 5 from line 4)		0.247	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)		0.247	MGD

B. USES

	METERED	UNMETERED	
15 Residential	1209		0.235 MGD
16 Commercial and Manufacturing	0		0.000 MGD
17 Municipal			MGD
18 Construction			MGD
19 Total Uses (add Total lines 15 through 18)			0.235 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		0.002	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)		0.00	MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)		0.81	%
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)]		-0.19	%

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.022 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	8.71 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	0.259 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	104.66 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	-0.012 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	-4.66 %

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.	1.396	x 2000 g/d/mi =	2792 g/d
7 20-40 yrs.	8.65	x 1500 g/d/mi =	12975 g/d
8 20 yrs. or less	5.737	x 1000 g/d/mi =	5737 g/d
9 Total Miles	15.783	Total Leakage	21504 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			0.021504 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:

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

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

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

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

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

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

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

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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 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

LIBERTY RIDGE EAST

County : DUPAGE

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 357 Number of existing households: 119
Commercial: 0

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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		0.023	MGD
2 Shallow Aquifer Pumpage			MGD
3 Deep Aquifer Pumpage			MGD
4 Total Pumpage (Add lines 1, 2, & 3)		0.023	MGD
5 Water Treatment Use			MGD
6 Gross Annual Percentage (subtract line 5 from line 4)		0.023	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)		0.023	MGD

B. USES

	METERED	UNMETERED	
15 Residential	119		0.024 MGD
16 Commercial and Manufacturing	0		0.000 MGD
17 Municipal			MGD
18 Construction			MGD
19 Total Uses (add Total lines 15 through 18)			0.024 MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)			104 %

C. HYDRANT USES

21 Firefighting and Training			MGD
22 Water Main Flushing		0.0002	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)		0.00	MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)		0.87	%
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)]		-0.13	%

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	_____ 0.003 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	_____ 10.87 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	_____ 0.027 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	_____ 116.09 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	_____ -0.004 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	_____ -16.09 %

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.	_____	x 1500 g/d/mi =	_____ 0 g/d
8 20 yrs. or less	_____ 2.5	x 1000 g/d/mi =	_____ 2500 g/d
9 Total Miles	_____ 2.5	Total Leakage	_____ 2500 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			_____ 0.0025 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:

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

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

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

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

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

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

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

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Section I- General Information

Name, address and phone number of Permittee:

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

LOMBARD HEIGHTS

County : DUPAGE

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739,8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 741 Number of existing households: 247
Commercial: 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		<u>0.047</u>	MGD
2 Shallow Aquifer Pumpage			MGD
3 Deep Aquifer Pumpage			MGD
4 Total Pumpage (Add lines 1, 2, & 3)		<u>0.047</u>	MGD
5 Water Treatment Use			MGD
6 Gross Annual Percentage (subtract line 5 from line 4)		<u>0.047</u>	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)		<u>0</u>	MGD
14 Net Annual Pumpage (subtract line 13 from line 6)		<u>0.047</u>	MGD

B. USES

	METERED	UNMETERED	
15 Residential	<u>247</u>		<u>0.044</u> MGD
16 Commercial and Manufacturing	<u>0</u>		<u>0.000</u> MGD
17 Municipal			MGD
18 Construction			MGD
19 Total Uses (add Total lines 15 through 18)			<u>0.044</u> MGD
20 Percentage of Total Use to Net Annual Pumpage (divide line 19 by line 14 and multiply by 100)			<u>94</u> %

C. HYDRANT USES

21 Firefighting and Training			MGD
22 Water Main Flushing		<u>0.0003</u>	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)		<u>0.00</u>	MGD
28 Percentage of Hydrant Use to Net Pumpage (divide line 27 by line 14 and multiply by 100)		<u>0.64</u>	%
29 Department Requirement for Hydrant Use		<u>1.0</u>	%
30 Excessive hydrant use (subtract line 29 from line 28). If the percentage is greater than 0.0, attach explanation. [see Rule 730307(e)]		<u>-0.36</u>	%

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.004 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	9.56 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	0.049 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	103.81 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	-0.002 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	-3.81 %

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.	2.08	x 2000 g/d/mi =	_____ 4160 g/d
7 20-40 yrs.	0.021	x 1500 g/d/mi =	_____ 31.5 g/d
8 20 yrs. or less	0.301	x 1000 g/d/mi =	_____ 301 g/d
9 Total Miles	2,402	Total Leakage	_____ 4492.5 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			_____ 0.0044925 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:

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

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

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

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

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

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

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

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

2010 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 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

MORELAND

County : COOK

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 519 Number of existing households: 173
Commercial: 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.

D. Unavoidable Leakage and Unaccounted for Flow	
31 Maximum Unavoidable Leakage (Do worksheet in Section III; enter amount from line 10 of the worksheet)	0.004 MGD
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	6.90 %
33 Total Accounted for Flow (add lines 19, 27 and 31)	0.051 MGD
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	99.45 %
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	0.000 MGD
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	0.55 %

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.	2.345	x 1500 g/d/mi =	3517.5 g/d
8 20 yrs. or less	_____	x 1000 g/d/mi =	_____ 0 g/d
9 Total Miles	2.345	Total Leakage	3517.5 g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			0.0035175 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:

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

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

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

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

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

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

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

**ILLINOIS
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Office Of Water Resources

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2010 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 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

VALLEY VIEW

County : DUPAGE

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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: 7,869 Number of existing households: 2623
Commercial: 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 Front Management Center, Central Management Services

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>0.066 MGD</u>
32 Percentage of Maximum Unavoidable Leakage to Net Annual Pumpage (divide line 31 by line 14 and multiply by 100)	<u>11.99 %</u>
33 Total Accounted for Flow (add lines 19, 27 and 31)	<u>0.541 MGD</u>
34 Percentage of Total Accounted for Flow to Net Annual Pumpage (divide line 33 by line 14 and multiply by 100)	<u>98.51 %</u>
35 Total Unaccounted for Flow (subtract amount on line 33 from line 14)	<u>0.008 MGD</u>
36 Percentage of Total Unaccounted for Flow to Net Annual Pumpage (divide line 35 by line 14 and multiply by 100)	<u>1.49 %</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>31.15</u>	x 2000 g/d/mi =	<u>62300</u> g/d
7 20-40 yrs.	<u>2.338</u>	x 1500 g/d/mi =	<u>3507</u> g/d
8 20 yrs. or less	<u>0</u>	x 1000 g/d/mi =	<u>0</u> g/d
9 Total Miles	<u>33.488</u>	Total Leakage	<u>65807</u> g/d
10 Total Maximum Unavoidable Leakage, in MGD (divide total leakage on line 9 by 1,000,000)			<u>0.065807</u> 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:

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

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

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

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

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

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

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

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2010 Annual Water Use Audit Form (LMO-2)

This form must be completed by all Category 1A and 11B Permittees for each annual water use accounting year running from October 1st through September 30th. This form must be submitted to Department by December 31st, 2010

Section I- General Information

Name, address and phone number of Permittee:

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

WEST SUBURBAN

County : WILL

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

MR. KEVIN HILLEN
ILLINOIS-AMERICAN WATER COMPANY
1000 INTERNATIONALE PARKWAY
WOODRIDGE, IL 60517
630.739.8845

Authorized Official: KEVIN HILLEN

Title: OPERATIONS SUPERINTENDENT FIELD SERVICES

Date: 12/30/2010

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 63,915 Number of existing households: 21,305

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