

# Raytown Water Co.

## Computerized Leak Detection Survey

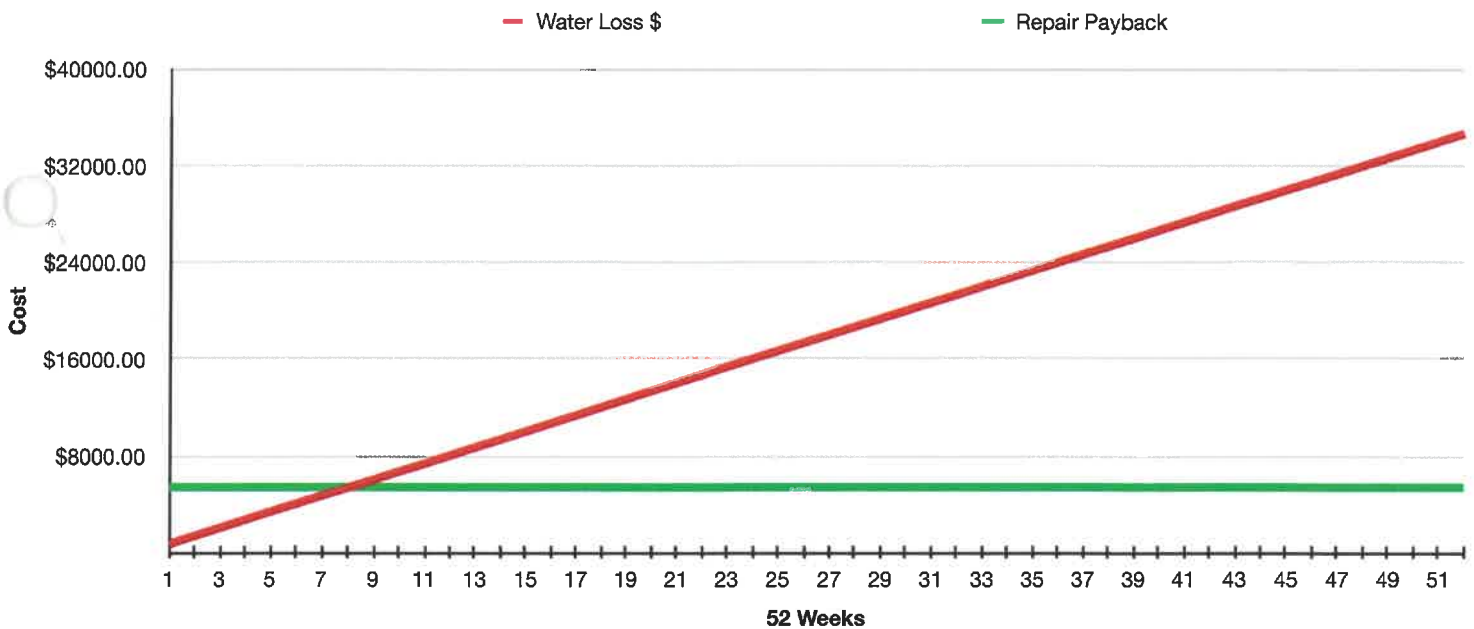
10/22/21

Cost Analysis

This survey was conducted by Westrum Leak Detection utilizing the latest leak detection correlation technology to pinpoint suspected leakage in the system. The following leaks were located.

Leak Chart is \$1 per 1,000 gallons lost




	No. of Leaks	GPD (per leak)	Millions per year	Dollars per year
Main leaks	10	6,000	21.9	\$21,900
Abandoned leaks	0	0	0	\$0
Service line leaks	5	6,000	10.95	\$10,950
Valve leaks	1	1,000	0.365	\$365
Hydrant leaks	4	1,000	1.46	\$1,460
<b>Total</b>	<b>20</b>	<b>14,000</b>	<b>34.675</b>	<b>\$34,675</b>



Survey Cost	\$5,400.00
Leak cost per week:	\$667
<b>Estimated payback period in weeks:</b>	<b>8</b>

As you know, because of increased production and test and maintenance costs, operation and maintaining an efficient water distribution system has become a necessity. The most effective method to reach and maintain that goal is with an annual leak detection program. We appreciate the opportunity to serve you.

WESTRUM LEAK DETECTION	3226 360th St Stratford, IA 50249	515-838-2222 (24-7) 888-500-4433 (24-7)	Cell 515-231-0122
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- Manhole 
- Stop Box 
- Hydrant 
- Valve 

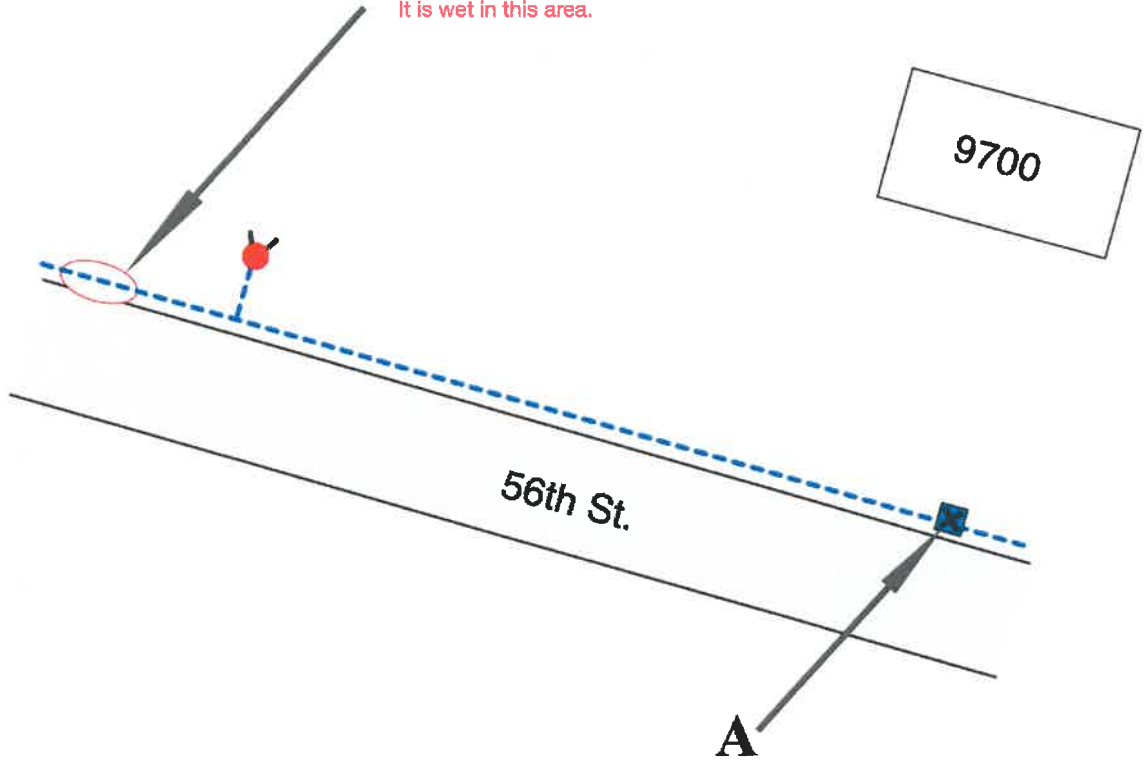
<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

Leak #  
1



### Leak Indication

Main leak approximately 130'  
west of valve **A**. Leak area is  
marked at the edge of the street.  
It is wet in this area.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES      NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ●
- Valve ⊠

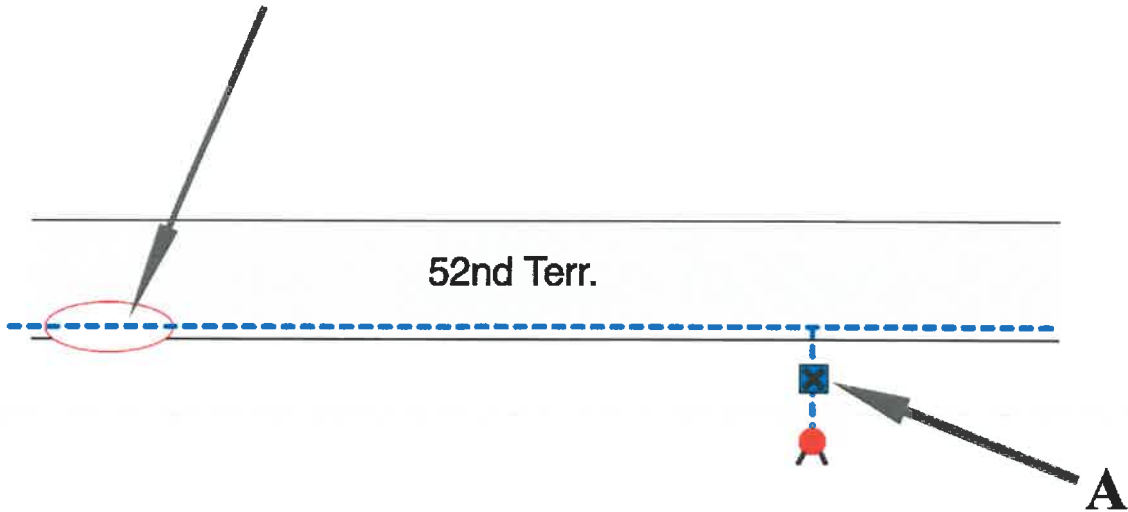
<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

Leak #  
2



### Leak Indication

Main leak approximately 90' from hydrant valve **A**. Leak area is marked in the street.



8871

### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

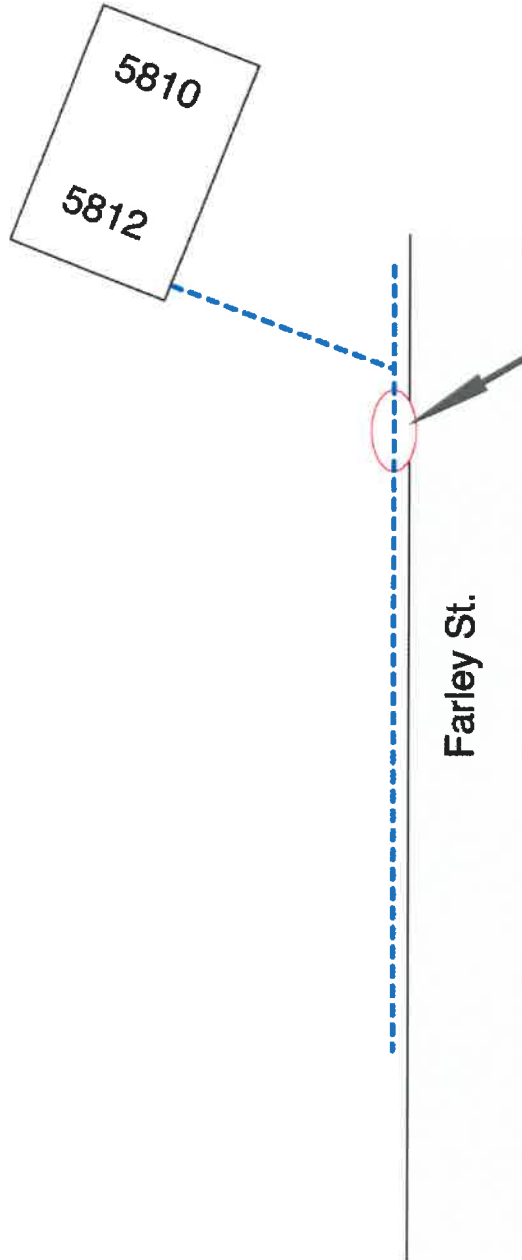
YES     NO

Description of Repair

- Manhole
- Stop Box
- Hydrant
- Valve

<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

**Leak #**  
3



**Leak Indication**

Main leak  
approximately 5'-10' south of  
the corporation tap to  
#5810-5812. Leak area is  
marked in driveway to house  
#5816.

**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

**Date Repaired**

**Operate stop box**

YES     NO

**Description of Repair**

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

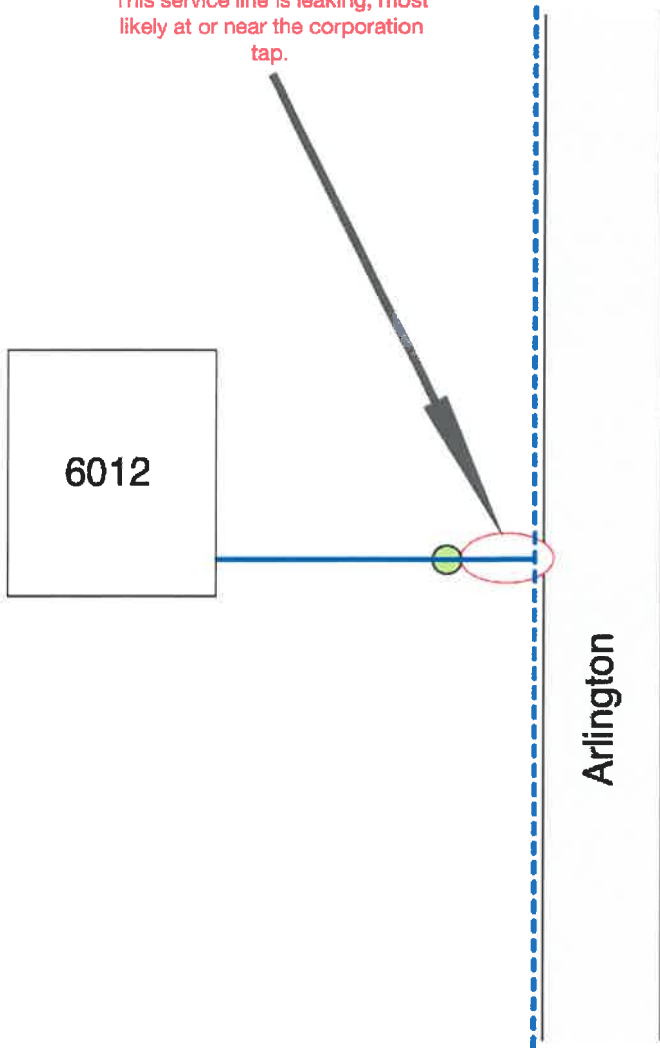
Survey 
Service 
Date - 10/22/21

Leak #  
4



### Leak Indication

This service line is leaking, most likely at or near the corporation tap.



### Westrum Leak Detection

3226 360th St  
 Stratford, IA 50249  
 1-888-500-4433 - 24/7

Date Repaired

Operate stop box

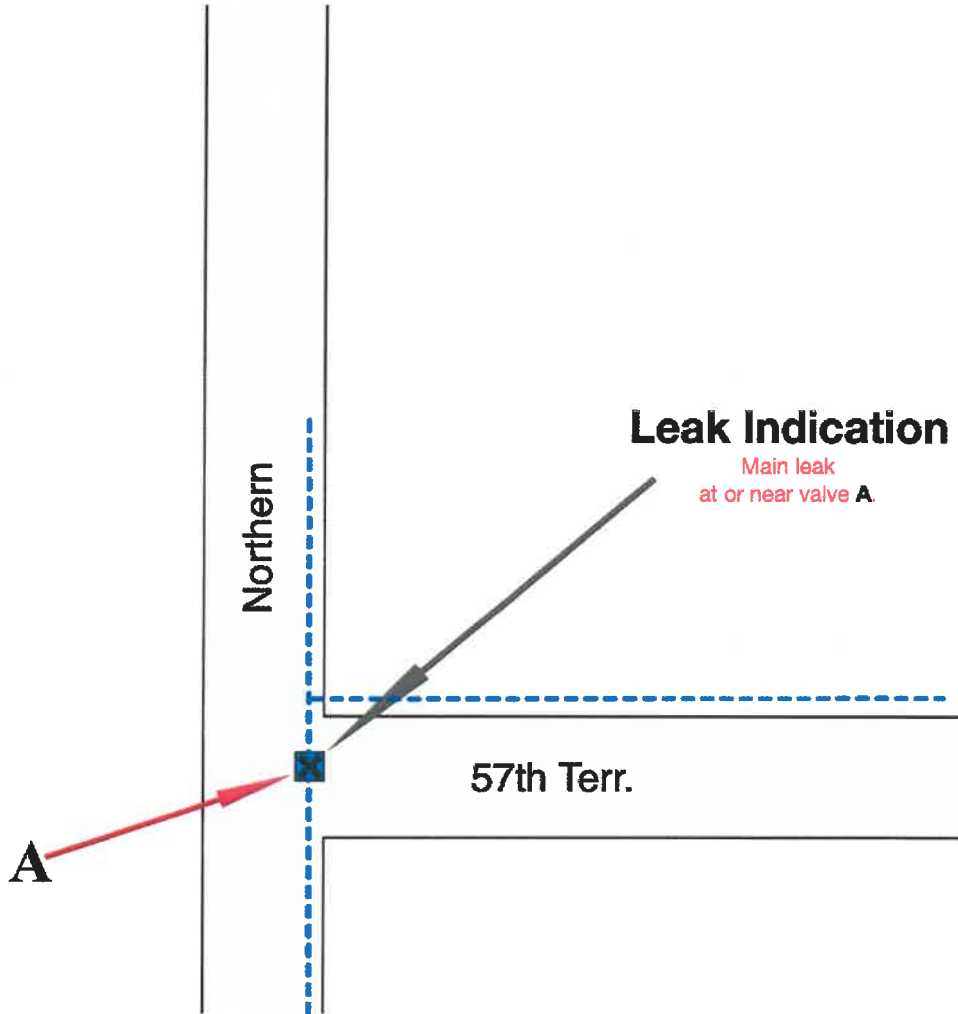
YES
  NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ⦿
- Valve ⊠

<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

Leak #  
5





**Westrum Leak Detection**  
 3226 360th St  
 Stratford, IA 50249  
 1-888-500-4433 - 24/7

**Date Repaired**

**Operate stop box**

YES     NO

**Description of Repair**

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

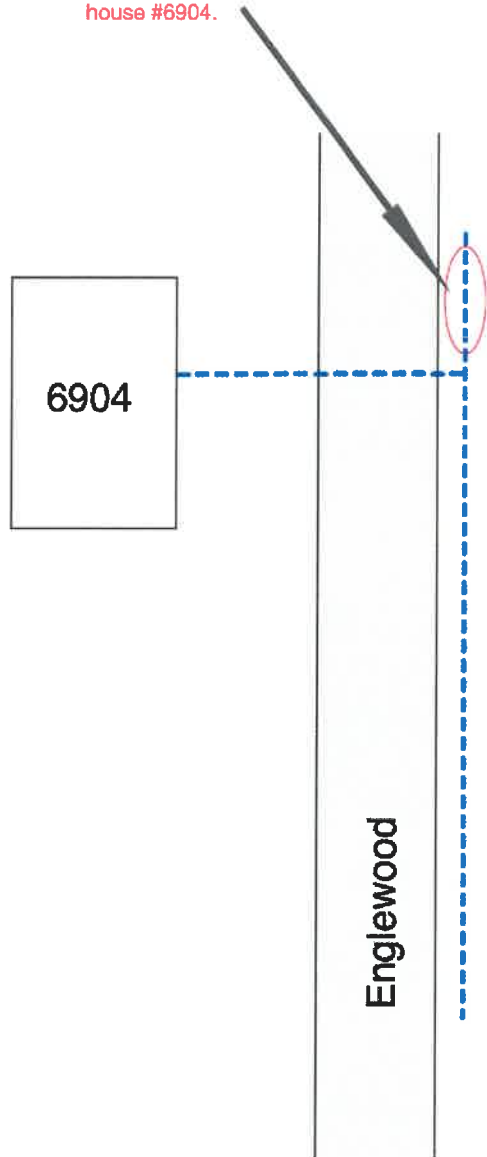
<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

Leak #  
**6**



### Leak Indication

Main leak approximately 5'-10' north of the corporation tap to house #6904.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

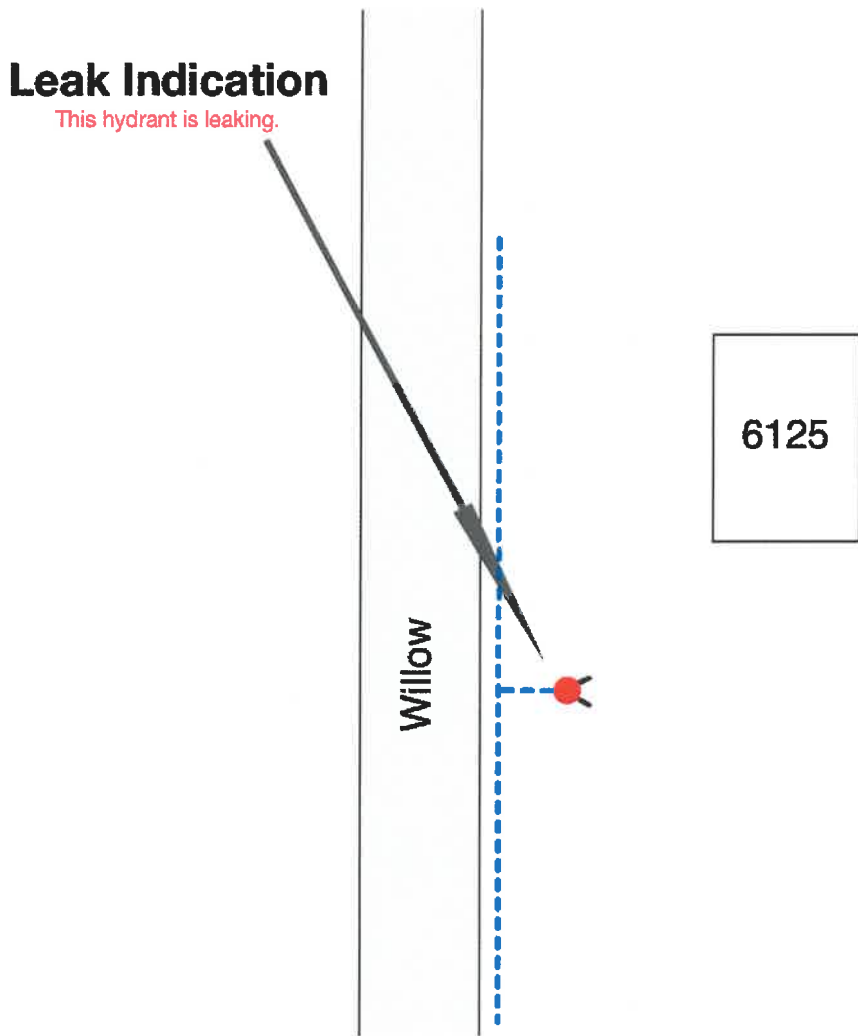
Leak #  
7

Survey       Service       Date -10/22/21



## Leak Indication

This hydrant is leaking.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

#### Date Repaired

#### Operate stop box

     
 YES    NO

#### Description of Repair

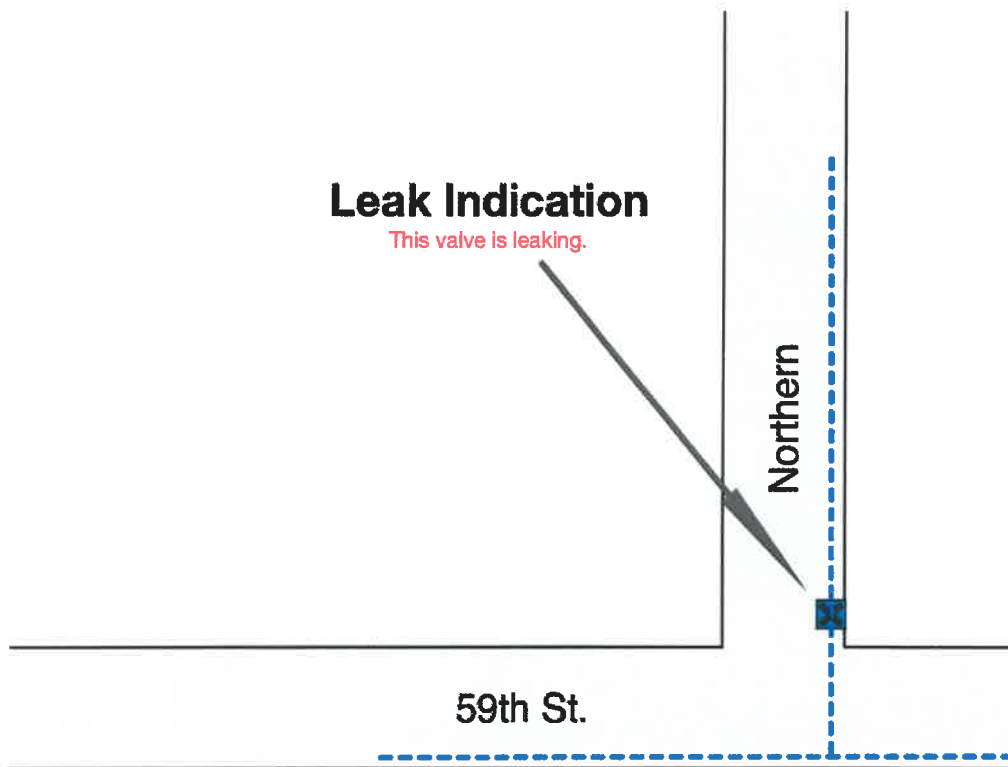


- Manhole
- Stop Box
- Hydrant
- Valve

## Raytown Water Co.

Survey 
Service 
Date - 10/22/21

Leak #  
**8**



**Westrum Leak Detection**





3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

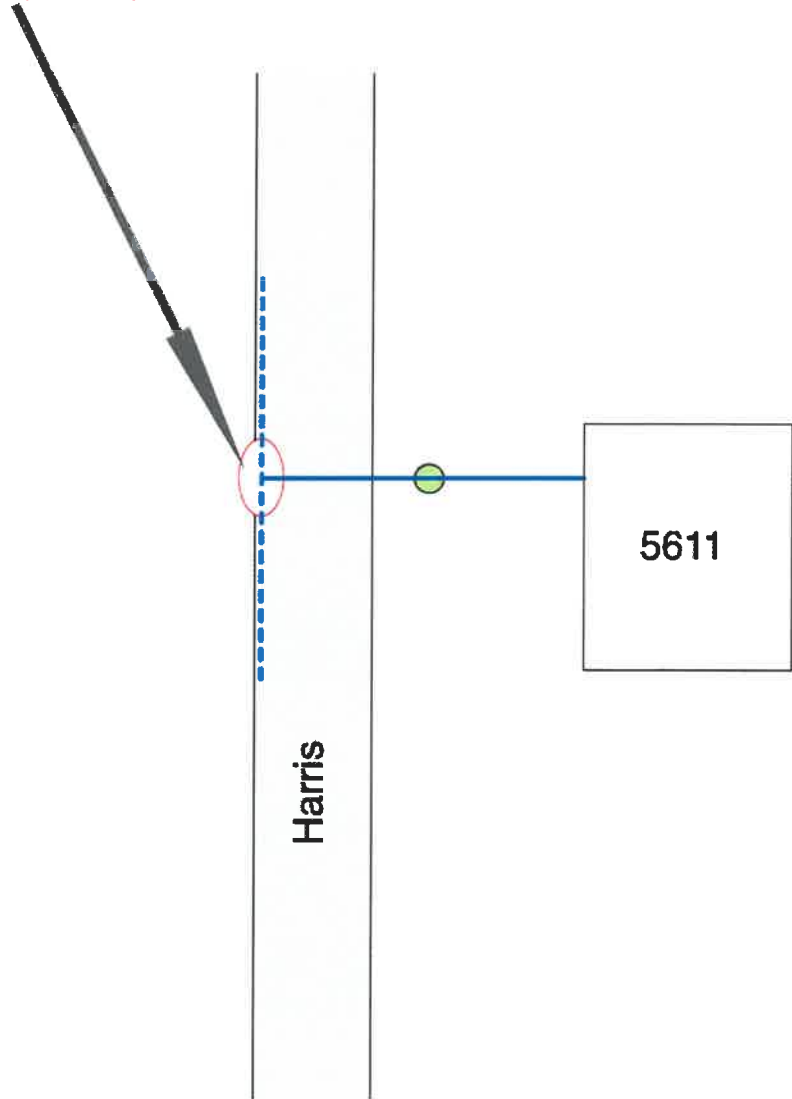
Survey 
Service 
Date - 10/22/21

Leak #  
9



**Leak Indication**

This service line is leaking at or near the corporation tap.



**Westrum Leak Detection**

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

**Date Repaired**

**Operate stop box**

YES     NO

**Description of Repair**

- Manhole ●
- Stop Box ■
- Hydrant ●
- Valve ■

# Raytown Water Co.

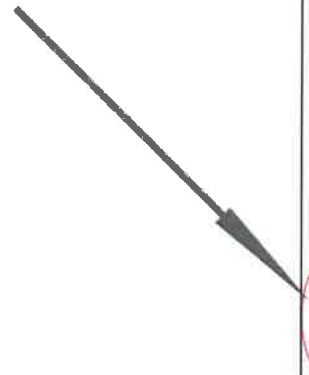
Survey 
Service 
Date - 10/22/21

Leak #  
10



### Leak Indication

This service line is leaking  
between the corporation tap.  
Observed water running in this  
area.



5601

### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES     NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Company

Survey 
Service 
Date -10/22/21

Leak #  
**11**

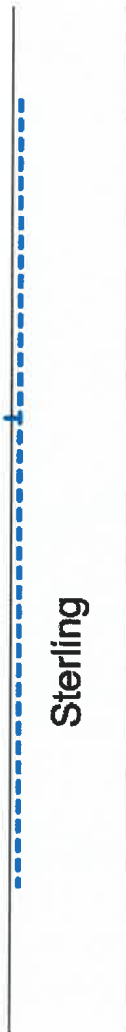


### Leak Indication

This hydrant is leaking.



5208



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

#### Date Repaired

#### Operate stop box

YES      NO

#### Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

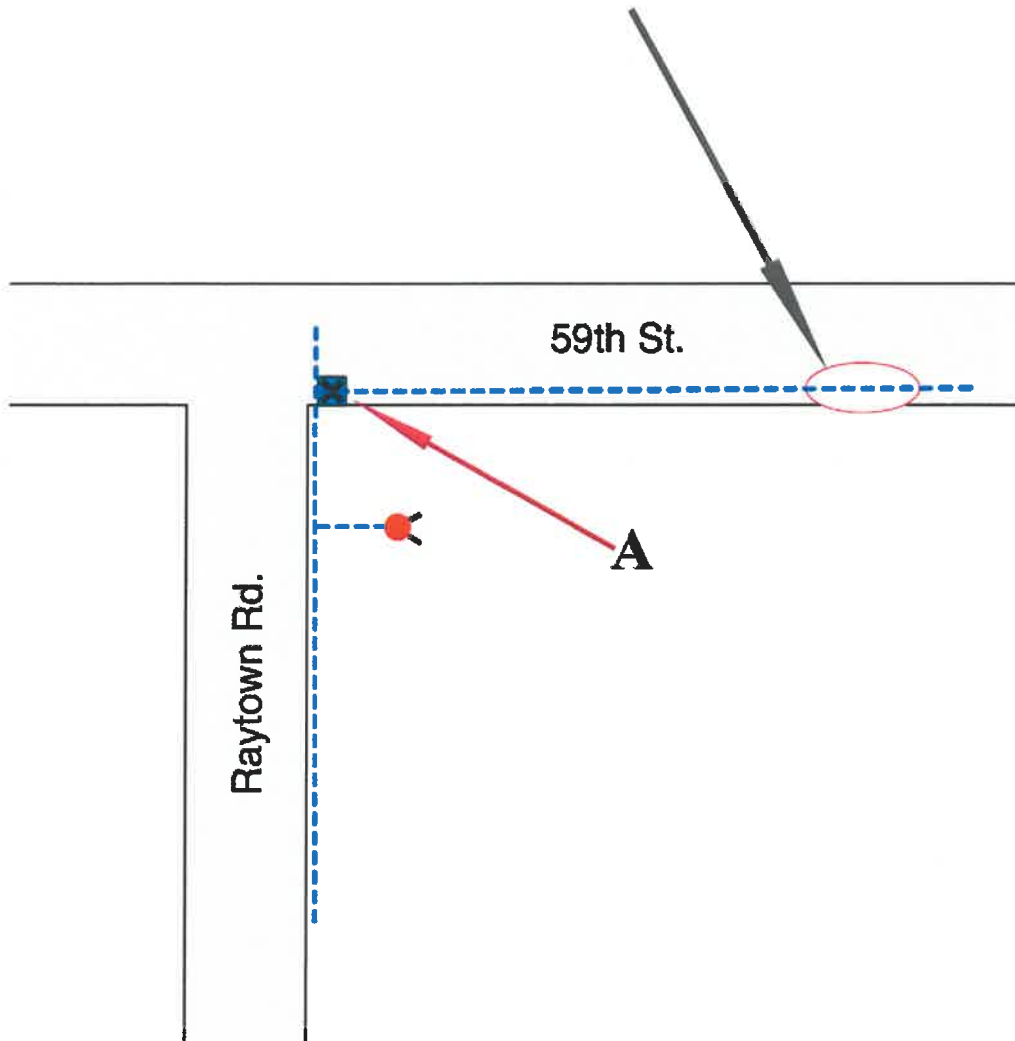
<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date -10/22/21

Leak #  
12



### Leak Indication

Main leak approximately 80'-85'  
east of valve A. Leak area is  
marked in the street.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES      NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

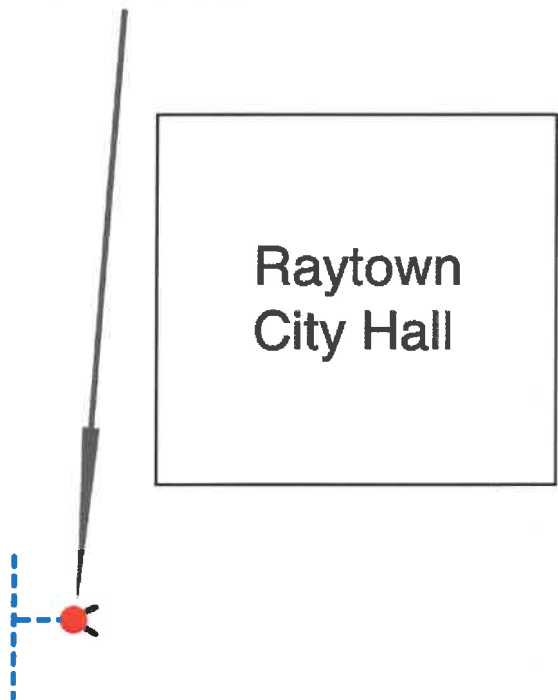
<h1>Raytown Water Company</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date -10/22/21

Leak #  
13



### Leak Indication

This hydrant is leaking.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

#### Date Repaired

#### Operate stop box

YES      NO

#### Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

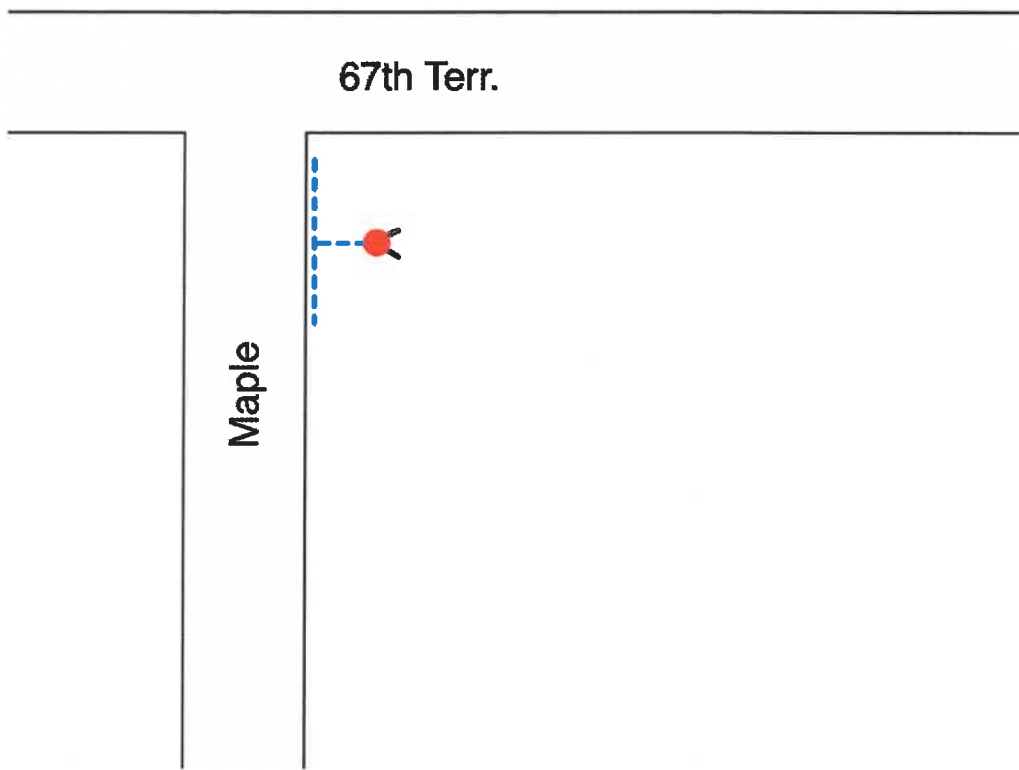
<h1>Raytown Water Company</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

Leak #  
14



### Leak Indication

This hydrant is leaking.  
Observed water running in the ditch.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES      NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Co.

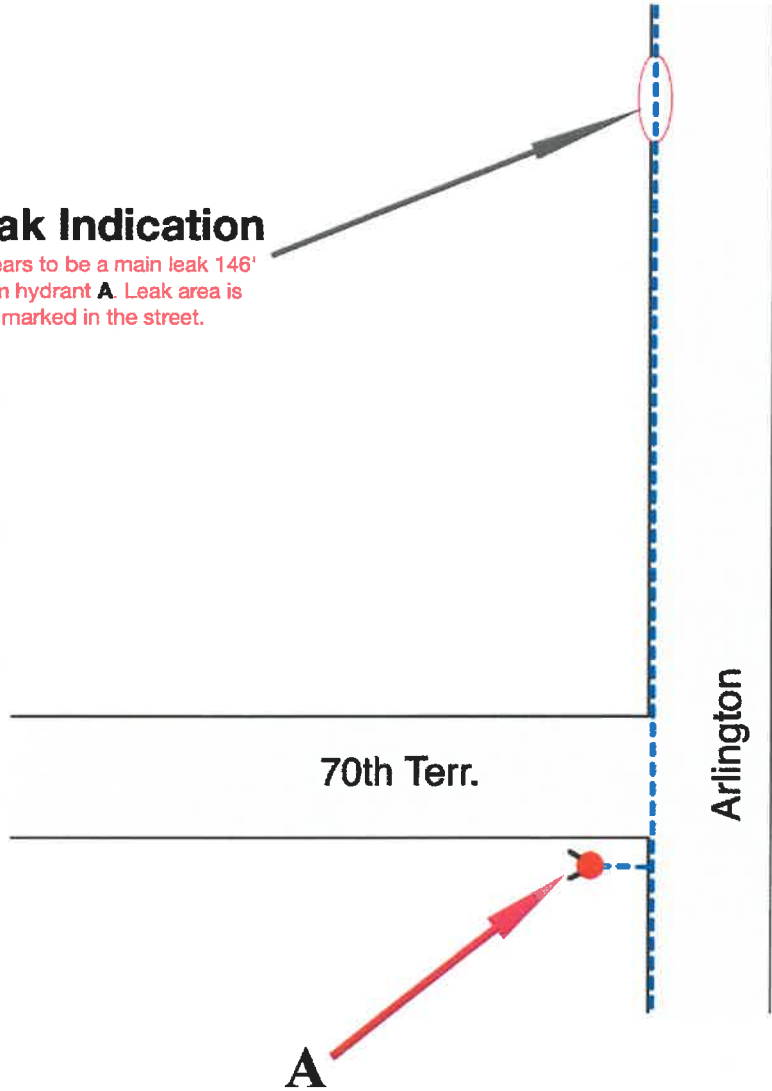
Leak #  
15

Survey       Service       Date - 10/22/21



### Leak Indication

Appears to be a main leak 146' from hydrant **A**. Leak area is marked in the street.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair



- Manhole ●
- Stop Box ■
- Hydrant ●
- Valve ■

# Raytown Water Company

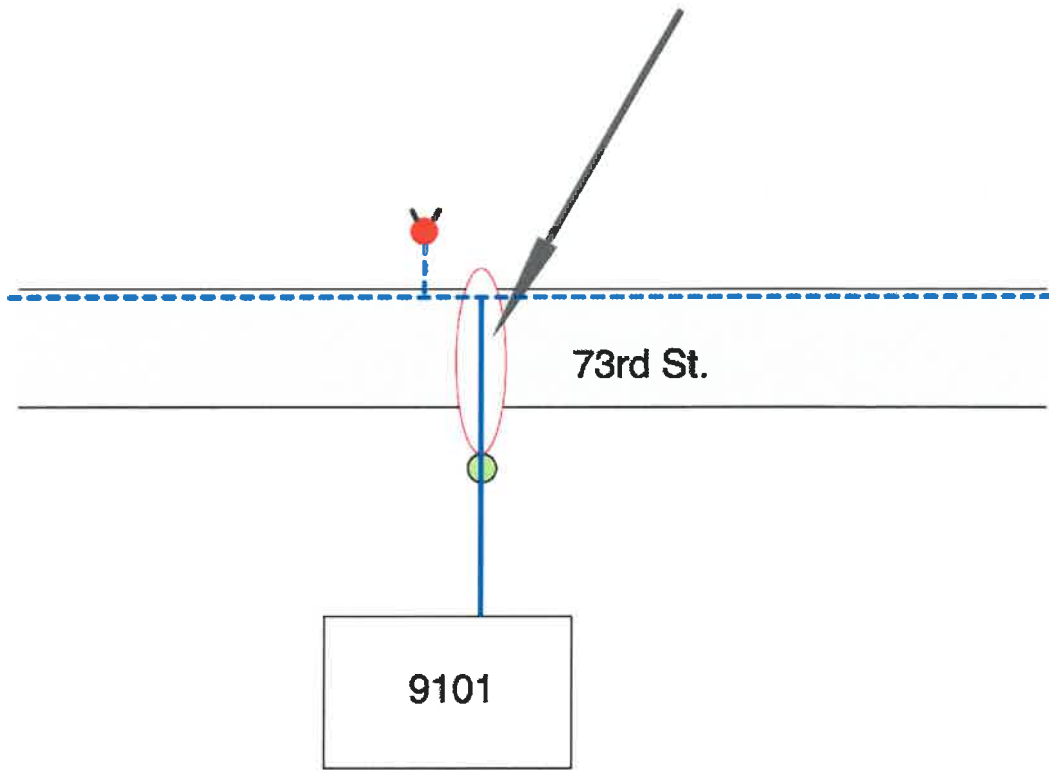
Survey 
Service 
Date - 10/22/21

Leak #  
16



### Leak Indication

This service line is leaking  
between the meter pit & the  
main.



### Westrum Leak Detection




3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES
 NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Co.

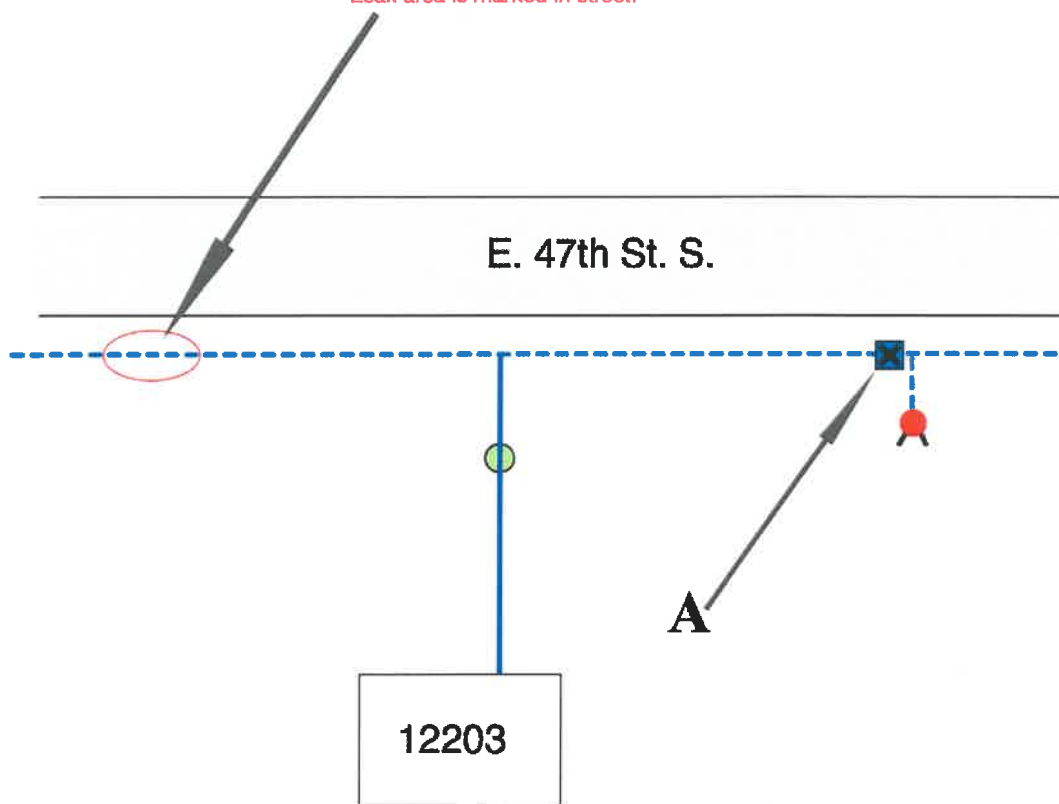
Leak #  
17

Survey       Service       Date - 10/22/21



### Leak Indication

Main leak approximately  
120'-125'  
west of valve **A**. Observed water  
running in culvert in this area.  
Leak area is marked in street.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

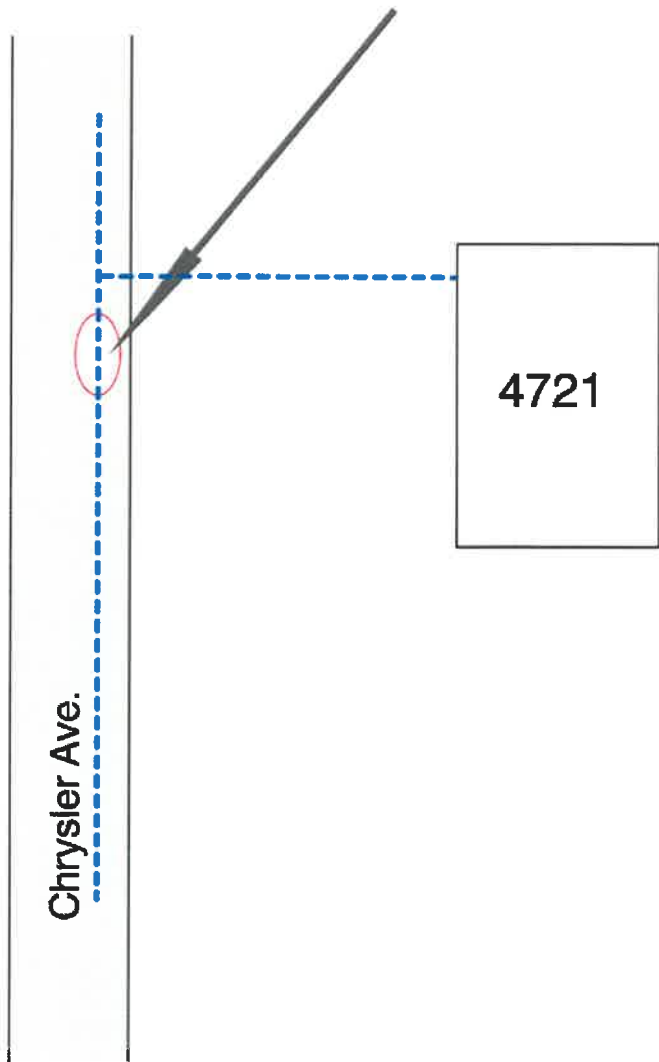
<h1>Raytown Water Co.</h1>		
Survey <input checked="" type="checkbox"/>	Service <input type="checkbox"/>	Date - 10/22/21

Leak #  
18



### Leak Indication

Main leak  
approximately 17' south of the  
corporation tap to house #4721.  
Leak area is marked in the street.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES      NO

Description of Repair

- Manhole ●
- Stop Box ■
- Hydrant ●
- Valve ■

# Raytown Water Company

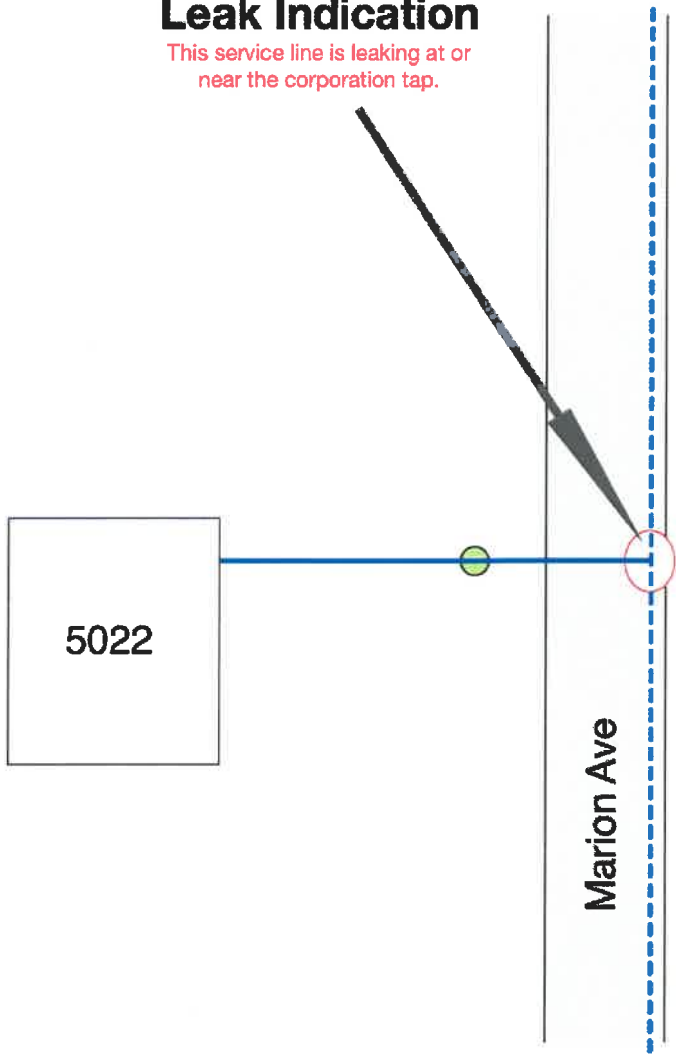
Leak #  
19

Survey       Service       Date - 10/22/21



### Leak Indication

This service line is leaking at or near the corporation tap.



### Westrum Leak Detection

3226 360th St  
 Stratford, IA 50249  
 1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair

- Manhole 
- Stop Box 
- Hydrant 
- Valve 

# Raytown Water Co.

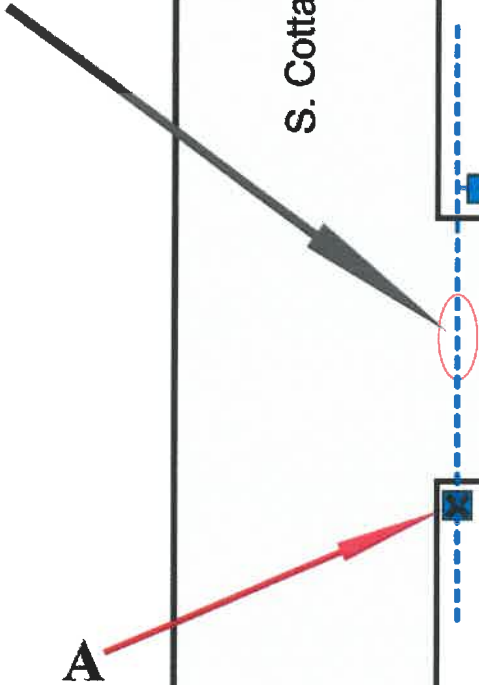
Leak #  
20

Survey       Service       Date -10/22/21



### Leak Indication

Main leak 25' north of valve A.  
Leak area is marked in the street.



### Westrum Leak Detection

3226 360th St  
Stratford, IA 50249  
1-888-500-4433 - 24/7

Date Repaired

Operate stop box

YES       NO

Description of Repair