VILLAGE OF ALLOUEZ

Allouez Village Hall ◦ 1900 Libal Street ◦ Green Bay, Wisconsin 54301-2453
Phone No.: (920) 448-2800 ◦ Fax No.: (920) 448-2850

Department of Public Works

Date: 08/28/2025

2025 Leak Detection Survey

From July 21st through the 6th of August, WaterWise Utility Solutions completed a leak detection survey of the Village's water distribution system.

In total there were nine (11) leaks pinpointed of which one (1) was discovered at a watermain valve, two at hydrants and eight (8) involved water services. In total, the estimated gallon per minute loss associated with the leaks is 54 GPM. The estimated daily and annual loss of water is roughly 78,000 and 28,000,000 gallons respectively.

This year's cost to purchase water from Central Brown County Water Authority (CBCWA) is $4.42 per 1000 gallons. The estimated minimum yearly financial loss if undetected and unfixed is approximately $125,000.

$4.42 (per thousand gallons) *28,000= $123,760.

The Village Water Utility is currently addressing and repairing leaks.

The Village's cost to perform the leak detection survey was approximately $23,425.70.

Water Usage Update

Monthly water loss from the Village's water distribution system remains above normal levels. Recently discovered leaks and an unusual number of watermain breaks this summer have contributed to the higher-than-normal levels of water loss.

The impact of the recent and planned repairs to leaks and to watermain breaks will take time to determine. That coupled with the water loss associated with replacement of old watermain under this year's Street Reconstruction Project will hamper our ability to determine now if recent efforts have corrected water loss problem. The Water Department staff is hoping to know more by November billing.

Sean J. Gehin, P.E.
Allouez DPW

2025 Leak Detection Data

Leak ID	Location	Description	Leak Estimate *(gpm)*	Gallons/Day	Notes	Repair Date	Repair Notes
##	3224 Vista Rd	Service Leak	10	14,400	Leak on public side behind curb discovered after leak detection.	8/27/2025	Replaced 3/4" Copper line from S of Driveway to curb stop
#1	3230 Tam O'Shanter Ct	Hydrant Leak	2	2,880		8/11/2025	Hydrant operated and reclosed. Leak stopped.
#2	Lebrun Easement	Hydrant Leak	0.5	720	Remove hydrant. Not needed.		
#3	1485 Boyd St	Service Connection	5	7,200	Loud by main. Possibly sleeve.		
#4	1419 S Irwin Ave	Curb Stop	5	7,200	Louder at stop. Start at stop.		
#5	607 Ridgeview Ct	Curb Stop	10	14,400	Main couple feet behind curb near stop.	8/27/2025	Leak at connection to curb stop.
#6	362 Orchard Ln	Curb Stop	5	7,200	Loud at stop.		
#7	310 Briar Ln	Service Connection	10	14,400	Saddle on main.	8/27/2025	Hole in bottom of Corp. Replaced Corp.
#8	E River/Green Valley	Dist Valve	1	1,440		8/4/2025	Leaking Packing on valve. Opened valve fully and leak stopped.
#9	2514 Beaumont St	Consumer Side	0.5	720	Pressure test in house.		
#10	500 Brookridge St	Curb Stop	5	7,200	Leak likely at stop in driveway. Possibly on main under driveway across the road.		
#11	2301 Greenwald St	Service Connection	10	14,400	Loud at saddle on main.		
			54	**92,160**			

Legend

Leaks highlighted green have been repaired.

Remaining leaks to be repaired the week of September 1st

Project Report

Water Leak Detection Survey for the Village of Allouez, WI

July 21 – August 6, 2025

Prepared by:

WaterWise Utility Solutions, LLC

3601 E Oak Trail
Granbury, TX 76048
1(866)-797-5192
info@waterwiseus
www.waterwiseus.com

August 8, 2025
Village of Allouez
Attn: Sean Gehin
1900 Libal St.
Green Bay, WI 54301

Re: **2025 Water Leak Detection Survey**

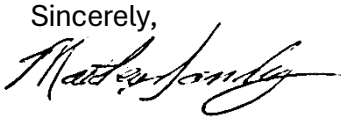
Dear Mr. Gehin:

WaterWise Utility Solutions, LLC, (WWUS) is pleased to submit the enclosed Project Report for the recently completed 2025 leak detection survey for the Village of Allouez, WI.

The information in this report details the procedures, results, field observations, and recommendations specific to this project.

Please pay close attention to all details and concerns when viewing field observations, leak reports, and recommendations as they will assist in prioritizing repairs, as well as determining the best course of action for observed system anomalies and action items.

Sincerely,



Matthew Sanchez
President

WaterWise Utility Solutions, LLC
3601 E Oak Trl
Granbury, TX, 76048
1(866)797-5192
www.waterwisueus.com
info@waterwisueus

PROJECT SUMMARY

Leak Detection Survey at a Glance

Time Spent on Project

Surveying	92 hours
Leak Pinpointing	9 hours
Total Time	**101 hours**

Total Distance Surveyed

Miles	**64.18**
Feet	**338,900**

Distance was estimated by technician and may not match maps precisely

Access Points Contacted

Hydrants	644
Valves	1,007
Services	3,422
Other	5
Total	**5,078**

Leak Type Noises Detected

Hydrants	5
Valves	7
Services	22
Other	0
Total	**34**

Leaks Pinpointed

Main	
Valve	1
Service Line	
Hydrant	2
Curb Stop	4
Service Connection	3
Other	
Consumer	1
Total	**11**

Total Estimated Water Loss

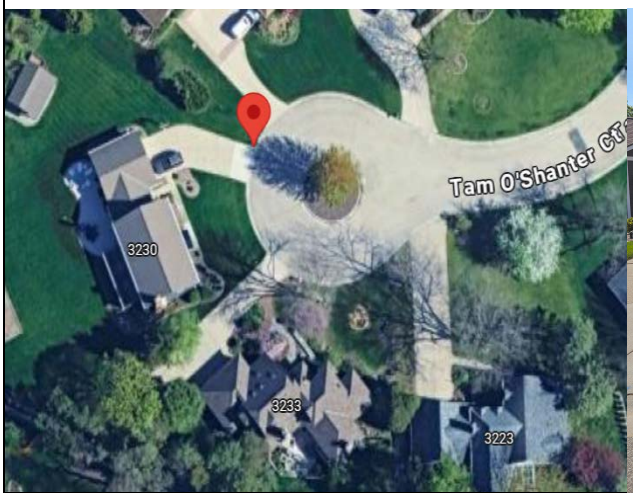
Gallons Per Minute (GPM)	**54**
Gallons Per Day	**77,760**
Gallons Per Month	**2,332,800**
Gallons Per Year	**27,993,600**

LEAK REPORTS

LEAK REPORT 1

Project/Client	Village of Allouez		
Leak Location	3230 Tam O'Shanter Ct		
Date	8/5/2025	**Leak Type**	Hydrant
Surface Material	Soil	**Leak Visible?**	No
Equipment	Aquascope 3		
Gallons Per Minute		2	**Priority:**
Gallons Per Day		2,880	Medium
Gallons Per Month		86,400	
Gallons Per Year		1,036,800	
Leak Description & Comments:			

Leak at hydrant. Recommend flush and re-sounding of hydrant with leak noise amplification equipment.





LEAK REPORT 2

Project/Client	Village of Allouez		
Leak Location	Lebrun St (Easement) / 44°26'55.7"N 88°01'38.0"W		
Date	8/5/2025	**Leak Type**	Hydrant
Surface Material	Soil	**Leak Visible?**	No
Equipment	Aquascope 3		
Gallons Per Minute		0.5	**Priority:**
Gallons Per Day		720	Low
Gallons Per Month		21,600	
Gallons Per Year		259,200	
Leak Description & Comments:			

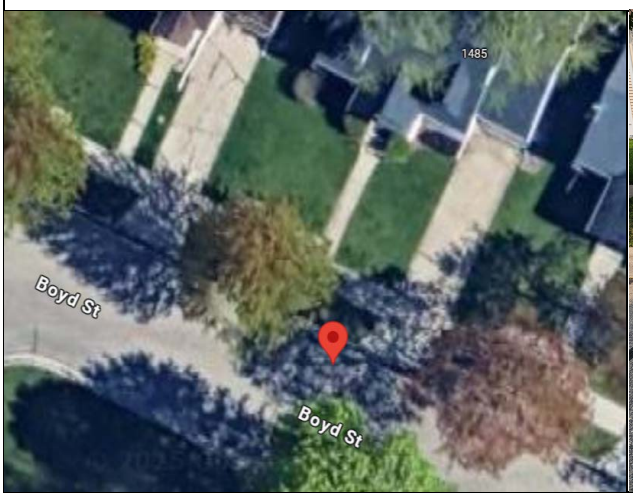
Small leak at hydrant. Recommend flush and re-sounding with leak noise amplification equipment.





LEAK REPORT 3

Project/Client	Village of Allouez		
Leak Location	1485 Boyd St		
Date	8/5/2025	**Leak Type**	Service Connection
Surface Material	Asphalt	**Leak Visible?**	No
Equipment	Aquascope 3, Ground Microphone		
Gallons Per Minute		5	**Priority:**
Gallons Per Day		7,200	High
Gallons Per Month		216,000	
Gallons Per Year		2,592,000	
Leak Description & Comments:			
Leak at service connection area (saddle). Verified with ground mic.			



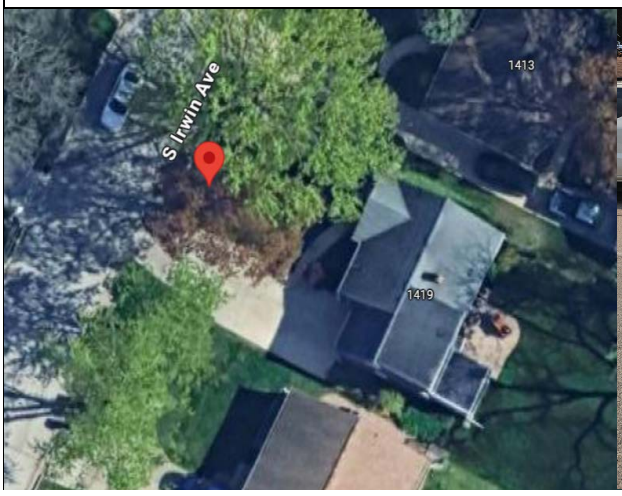


LEAK REPORT 4

Project/Client	Village of Allouez		
Leak Location	1419 S Irwin Ave		
Date	8/5/2025	**Leak Type**	Curb Stop
Surface Material	Soil	**Leak Visible?**	No
Equipment	Aquascope 3, Ground Mic		
Gallons Per Minute		5	**Priority:**
Gallons Per Day		7,200	High
Gallons Per Month		216,000	
Gallons Per Year		2,592,000	

Leak Description & Comments:

Leak noise was detected along the entire length of the service line with the ground mic. Leak noise was particularly strong with the surveyor tool at the curb box area with water also present in the curb box. Recommend excavating at curb box area for leak before replacing service line.



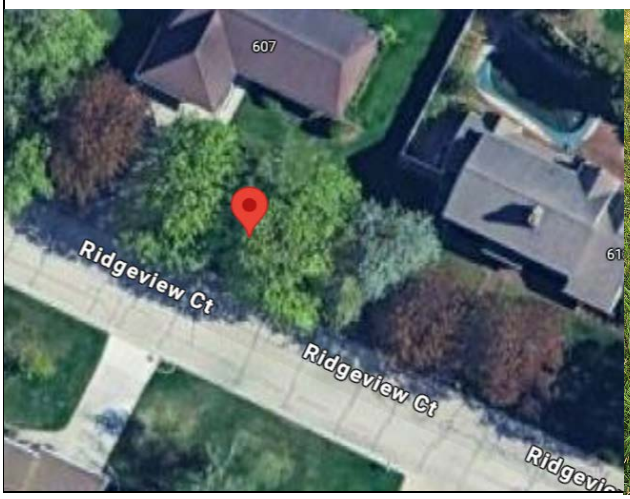


LEAK REPORT 5

Project/Client	Village of Allouez		
Leak Location	607 Ridgeview Ct		
Date	8/5/2025	**Leak Type**	Curb Stop
Surface Material	Soil	**Leak Visible?**	No
Equipment	Aquascope 3, Aquascan 610, Probe Rod		
Gallons Per Minute		10	**Priority:**
Gallons Per Day		14,400	High
Gallons Per Month		432,000	
Gallons Per Year		5,184,000	

Leak Description & Comments:

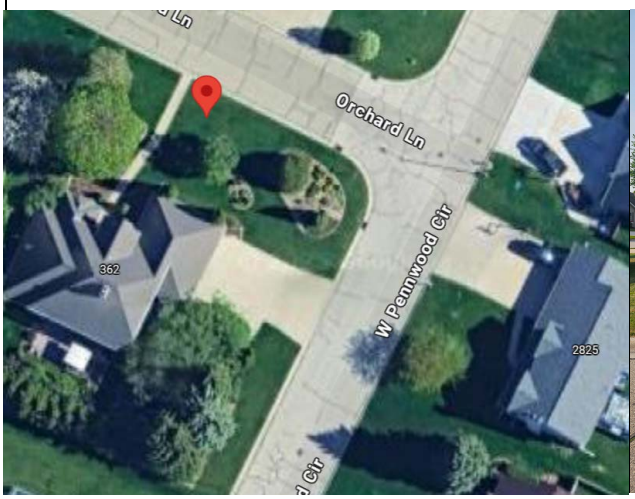
Leak at curb stop area. Leak may also be at service connection, however service line is only 4 ft in length. An excavation over this area will locate leak. Leak is surfacing.





LEAK REPORT 6

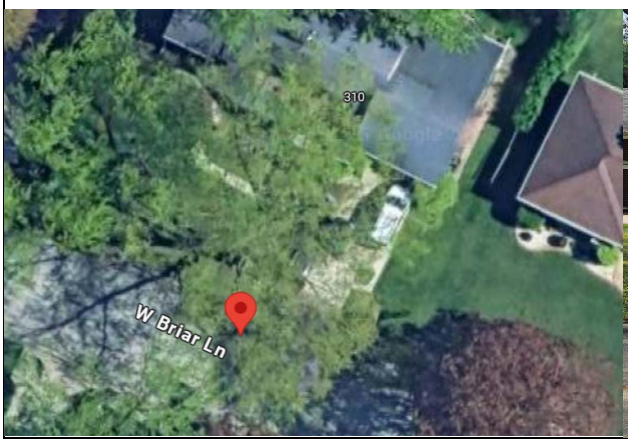
Project/Client	Village of Allouez		
Leak Location	362 Orchard Ln		
Date	8/5/2025	**Leak Type**	Curb Stop
Surface Material	Soil	**Leak Visible?**	No
Equipment	Aquascope 3, Ground Mic, Probe Rod		
Gallons Per Minute		5	**Priority:**
Gallons Per Day		7,200	High
Gallons Per Month		216,600	
Gallons Per Year		2,592,000	
Leak Description & Comments:			
Leak at curb stop area.			





LEAK REPORT 7

Project/Client	Village of Allouez		
Leak Location	310 Briar Ln		
Date	8/5/2025	**Leak Type**	Service Connection
Surface Material	Asphalt	**Leak Visible?**	No
Equipment	Aquascope 3, Ground Microphone		
Gallons Per Minute		10	**Priority:**
Gallons Per Day		14,400	High
Gallons Per Month		432,000	
Gallons Per Year		5,184,000	
Leak Description & Comments:			
Leak at service connection area (saddle). Verified with ground mic.			

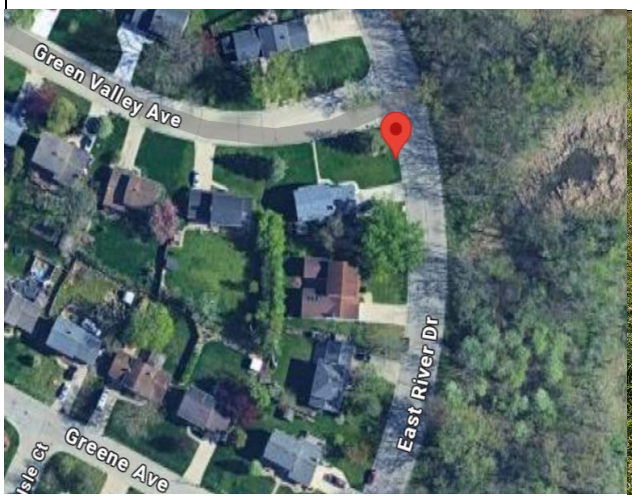




LEAK REPORT 8

Project/Client	Village of Allouez		
Leak Location	E River Dr & Green Valley Ave		
Date	8/5/2025	**Leak Type**	Valve
Surface Material	Soil	**Leak Visible?**	No
Equipment	Aquascope 3, Probe Rod		
Gallons Per Minute		1	**Priority:**
Gallons Per Day		1,440	NA
Gallons Per Month		43,200	
Gallons Per Year		518,400	
Leak Description & Comments:			

Leak at valve. Operated valve and leak noise ceased. **Leak Repaired**.
Note: Valve likely needs to be fully opened (or replaced) to prevent leakage.





LEAK REPORT 9

Project/Client	Village of Allouez		
Leak Location	2514 Beaumont St		
Date	8/5/2025	**Leak Type**	Consumer Side
Surface Material	NA	**Leak Visible?**	No
Equipment	Aquascope 3		
Gallons Per Minute		0.5	**Priority:**
Gallons Per Day		720	Low
Gallons Per Month		21,600	
Gallons Per Year		259,200	

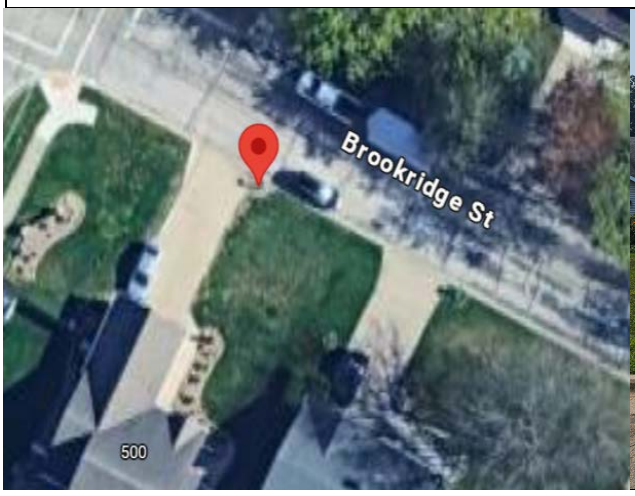
Leak Description & Comments:

Leak type noise detected on service with the same decibel level after two soundings. Curb stop was shut off. Leak type noise ceased. It's recommended that the Village verify if leak is upstream or downstream from meter to catch possible non-revenue water loss.

No Photo Available	**No Photo Available**

LEAK REPORT 10

Project/Client	Village of Allouez		
Leak Location	500 Brookridge St		
Date	8/5/2025	**Leak Type**	Curb Stop
Surface Material	Concrete	**Leak Visible?**	No
Equipment	Aquascope 3, Ground Microphone		
Gallons Per Minute		5	**Priority:**
Gallons Per Day		7,200	High
Gallons Per Month		216,000	
Gallons Per Year		2,592,000	
Leak Description & Comments:			
Leak at curb box area. Service line was isolated at curb stop and leak noise did not cease. Leak is at or very close to curb stop. Note: Leak is under driveway.			





LEAK REPORT 11

Project/Client	Village of Allouez		
Leak Location	2301 Greenwald St		
Date	8/5/2025	**Leak Type**	Service Connection
Surface Material	Concrete	**Leak Visible?**	No
Equipment	Aquascope 3, Ground Microphone		
Gallons Per Minute		10	**Priority:**
Gallons Per Day		14,400	High
Gallons Per Month		432,000	
Gallons Per Year		5,184,000	

Leak Description & Comments:

Leak at service connection (saddle). Verified with ground microphone. Note: Address is on Greenwald. Leak is on E Allouez Ave, where service for 2301 is located.





Conclusion

Overall, the project was a success. Survey and leak pinpoint efforts were carried out efficiently and without incident. Utilizing both advanced leak detection technology and a thorough survey method, WWUS is confident in the results achieved from this year's leak detection project.

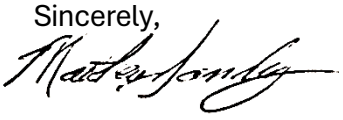
WWUS appreciates the Village's efforts in marking service locations which helped immeasurably in carrying out a thorough and efficient survey. Assistance with pinpointing from John Deuchert was also greatly appreciated.

WaterWise Utility Solutions is proud to have served the Village of Allouez in helping to protect its vital infrastructure assets.

It's recommended that the Village of Allouez continue to be proactive with its approach to keeping real water loss to a minimum with regularly scheduled leak detection surveys as part of routine maintenance. Such efforts are and have been proven to be effective at identifying and reducing real water loss.

If you or other Village staff have any questions regarding this project report, please feel free to reach out to (682)260-7452.

Sincerely,



Matthew Sanchez
President

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