

— PUBLIC WORKS DEPARTMENT — ANNUAL REPORT



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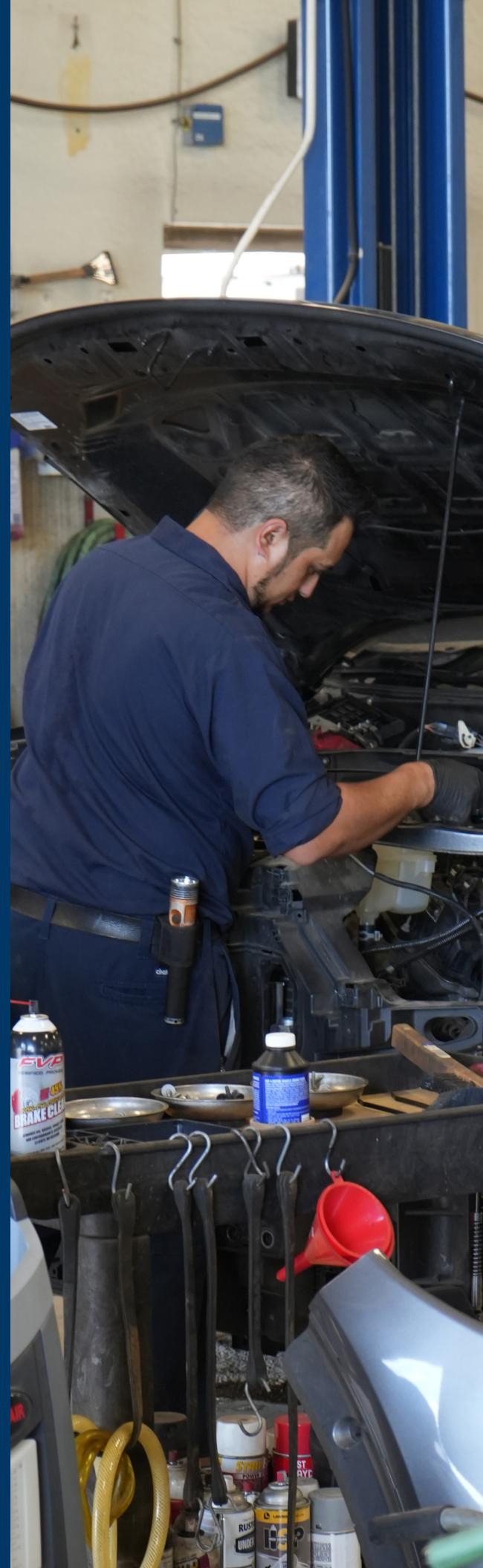
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MESSAGE FROM THE DIRECTOR



I am pleased to submit the Department of Public Works' 2024 Annual Report. This annual report shares the Department's organizational structure, core operations, and service levels by summarizing the organized efforts and diverse functions of the Department. Our Department strives to inform the public of all that we do to beautify, maintain, and enhance the functionality of the City.

A few highlights of accomplishments from 2024 include:

- Through the efforts of the Forestry Division, the City was named Tree City USA for the 38th consecutive year and named Monarch City USA. The Division also planted 194 trees through the City's Shared Cost Tree Planting Program.
- The Street Division replaced 164 HSP streetlight fixtures with LED fixtures; replaced 510 faded, deteriorated, or damaged street and traffic signs; and replaced 900 squares of failed sidewalk. The City's snow and ice control operations responded to 12 snow events totaling 14 inches of snow and used 1,310 tons of road salt.
- The Water Division in coordination with the Engineering Department replaced 3,200 feet of deteriorating water main pipe with ductile iron pipe. Crews removed and replaced 95 public lead services lines with copper pipe. In addition, crews inspected over 950 valves, replaced five valves, and painted 268 fire hydrants.
- The Sewer Division operations and maintenance crews accomplished and exceeded their operational goals for cleaning and inspection. Additionally, the crews installed 1,311 linear feet of new storm sewer pipe.
- The Fleet Division Superintendent facilitated the addition of four hybrid vehicles across all City Departments.

On behalf of the Department, we thank the community, elected officials, City Manager, and other City Departments and their staff for their support. The City of Wheaton Department of Public Works is truly dedicated to fulfilling our mission to "...practice integrity, tolerance, and respect to enhance the quality of life for the entire community by efficient management of infrastructure and resources through innovation and best practices."

Vincent-Jay G. Laoang, PE
Public Works Director



MISSION STATEMENT

The City of Wheaton Department of Public Works pledges to practice integrity, tolerance, and respect to enhance the quality of life for the entire community by efficient management of infrastructure and resources through innovation and best practices.

VISION

To uphold and accomplish our mission with dignity, humility, and transparency so that the citizens of Wheaton and professional peers view our Department as a model for premier and industry-leading municipal service.

CORE VALUES

Teamwork

We value our workforce and strive to ensure that they are well-trained and well-informed, respect our customers and fellow workers, and display commitment and professionalism.

Flexibility and Creativity

We seek innovative means to accomplish our mission, vision, and goals.

Communication

We practice active listening and encourage diverse points of view.

Accountability

We are dedicated to fiscal responsibility and transparency in the use of public funds and the delivery of municipal services.

1 TEAM 6 DIVISIONS



The City of Wheaton Public Works Department is responsible for providing public services to citizens in a variety of areas to ensure that Wheaton is a clean, safe, and enjoyable place to live.

To help maintain public safety during emergency situations, the Department also provides resources, heavy equipment, snowplows, barricades, pumps, generators, and personnel as needed.

The Department is divided into six divisions in order to efficiently deliver these services: the Administrative Division, the Street Division, the Forestry Division, the Sewer Division, the Water Division, and the Fleet Services Division.

ORGANIZATIONAL CHART

KEY PERSONNEL

Vince Laoang

Public Works Director

Sean Walsh

Assistant Director of Public Works & Utility Manager

Jason Ackerlund

Forestry Superintendent

Nathan Plunkett

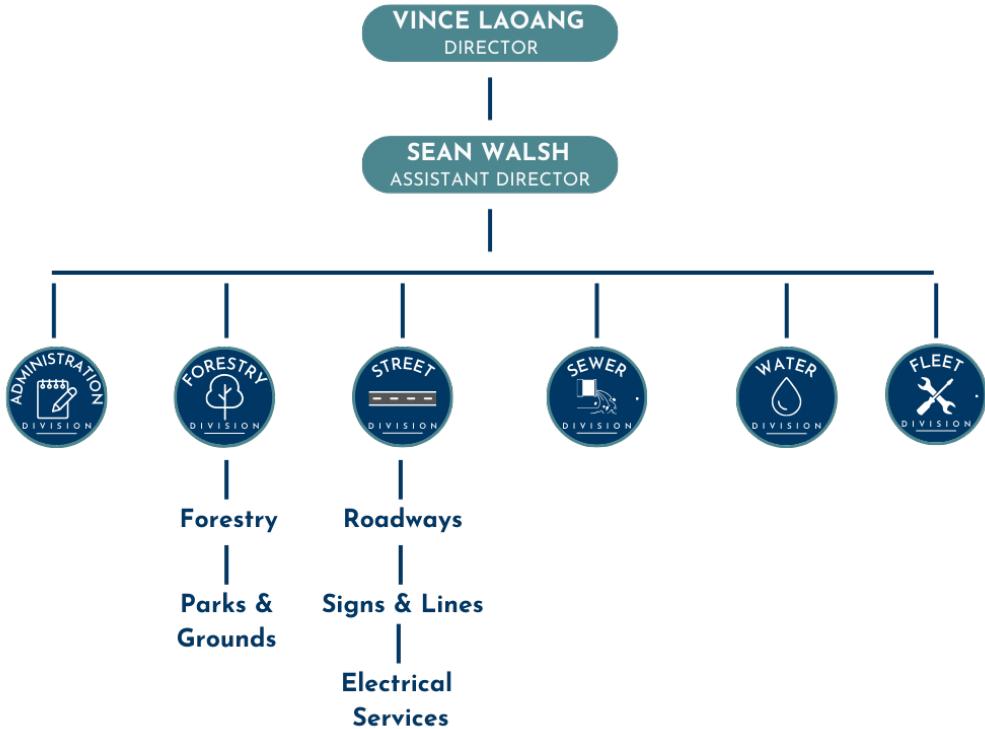
Street Superintendent

Al McMillen

Water Superintendent

Sam Webb

Fleet Services Superintendent



EMPLOYEE OVERVIEW & HIGHLIGHTS

56

FULL-TIME
UNION
EMPLOYEES

9

FULL-TIME
NON-UNION
EMPLOYEES

1

PART-TIME
EMPLOYEE

19

SEASONAL
EMPLOYEES

ANNIVERSARIES:

5 Years of Service

- Mike Lockett
- Nathan Plunkett
- Melissa Roberts
- Tim Snow

10 Years of Service

- Jason Hardtke
- Mark Johnson
- Jeff Vertucci
- Sam Webb

25 Years of Service

- Jason Douglas

30 Years of Service

- Ray Catala
- Jim Kersten
- Jim Mixa

NEW HIRES:

- Eric Carrasco-Rios
- Gideon Miller
- TJ Stembridge
- Ian Minicz
- Orlando Flores Jr.
- Kyle Yocum
- Yohan Garcia
- Drew Vandenbrink

RETIREMENTS:

- Terry Armstrong
- Bill Minerly
- Scott McClain
- Al Owens
- Jim Palumbo
- Rick Swanson



CITY OF WHEATON

2020-2025

STRATEGIC PLAN

The City's Strategic Plan serves as a roadmap to guide decision-making by the City Council. It is comprised of priorities that reflect the desires of Wheaton residents and property owners and highlights the areas of focus that have been determined essential to preserving the City as a premier community in the region. Wheaton's plan for the future is based on the following five strategic priorities:

Financial Stability

- Control expenditure increases over a five-year period.
- Maintain structurally balanced budgets, striking balance between operating expenditures and infrastructure investment.
- Effectively communicate information about City finances to the community.
- Maintain fund balance reserves based on established policy targets.

Enhanced Infrastructure

- Decrease overland flooding into primary structures.
- Decrease sanitary sewer backups.
- Establish annual investment and operating targets to maintain City's infrastructure.

Responsive & Efficient Service

- Prioritize essential services for the City of Wheaton.
- Identify key performance indicators to track service delivery levels for operating departments.

Community Safety

- Continue to prioritize the health, safety and welfare of the community.
- Increase partnerships that focus on the health, welfare and safety of Wheaton residents.
- Increase community outreach concerning safety and security issues.

Environmental Sustainability

- Develop policies and create programs that preserve the natural environment.



DEPARTMENT OPERATING BUDGET

The Public Works Department's operating budget for 2024 totaled \$30,286,278 with capital improvement projects included.

The City's General Fund finances the Administration, Street, and Forestry Divisions. The Water and Sewer Divisions are funded by revenue generated from metered water sales. Various departments fund the Fleet Services Division through vehicle usage fees.

FLEET: \$6,837,128

SEWER (STORM): \$1,829,491

SEWER (SANITARY): \$2,317,976

WATER: \$12,502,236

ADMINISTRATION: \$446,257

STREET: \$5,128,973

FORESTRY: \$1,224,217

TOTAL: \$30,286,278



Admin
Forestry
Sewer (Storm)
Sewer (Sanitary)
Street
Fleet
Water

CAPITAL IMPROVEMENT PROJECT BUDGET

Capital improvement projects include scheduled maintenance activities, design and implementation of upgrades and improvements for optimum infrastructure sustainability.

FLEET: \$362,100

SEWER (STORM): \$1,442,000

SEWER (SANITARY): \$2,160,000

WATER: \$3,849,160

ADMINISTRATION: \$0

STREET: \$650,692

FORESTRY: \$0

TOTAL: \$8,463,952



Water
Sewer (Sanitary)
Sewer (Storm)
Street
Fleet



29

training sessions provided

11,831

invoices processed

4,668

service requests answered

The Administrative Division of Public Works oversees the administrative functions, long-range planning and resources allocation of the Public Works Department.

2024 ACCOMPLISHMENTS

Goal: Review existing processes for using the Lucity software to identify more efficient use.

Status: Launched a time management tracking program within Lucity to categorize and calculate time on task for the Sewer Division.

Goal: Monitor Tier II employee development and cross-training requirements toward promotion.

Status: Several Tier II employees conducted specialized training in OSHA, Class A CDL, and Forklift training. Furthermore, several Tier II employees received cross training within the Public Works Divisions.

ORGANIZATIONAL CHART



VINCE LAOANG
DIRECTOR

SEAN WALSH
ASSISTANT DIRECTOR

Administrative
Coordinator

Administrative
Assistant
(Part-Time)





20,000+

trees maintained
in City's rights-of-way

24

acres of open spaces,
parks, & rights-of-way
routinely mowed

1,600+

street furniture
assets maintained

300+

seasonal flowerpots
& beds maintained in
downtown & gateways

The Forestry Division's staff of certified arborists (Forestry) and horticulturalists (Parks & Grounds) take pride in keeping Wheaton a safe and attractive place to live. Forestry crew maintains more than 20,000 trees in the City rights-of-ways and other public open spaces. They are responsible for planting, pruning, and scheduled removals of the urban tree canopy.

The Parks & Grounds crew cares for planting areas, flower pots, bushes, and turf in all City rights-of-way, public grounds and parking lots. Approximately 24 acres of landscaped areas require mowing, trimming, and planting. Many sites have landscape features to maintain. Adams Park is the only park owned and maintained by City crews.

Other areas maintained include the Central Business District amenities, street furniture, planters, seasonal holiday lightings and decorations. The Division crews respond to storm-damaged trees after inclement weather and support the City-wide snow removal operations.

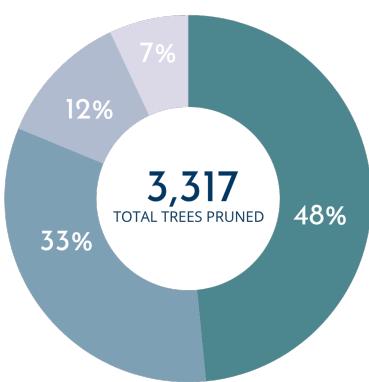
ORGANIZATIONAL CHART



TREE PRUNING

A total of 3,317 trees were pruned in 2024, including 622 trees were pruned by request, either by residents or other City Departments. 2,695 trees were addressed through a cyclical pruning cycle. It is the goal of the Forestry Division to inspect and prune all City-owned trees on a seven-year trim cycle. Routine pruning promotes proper growth habits and future development of the tree. Regular pruning ensures a healthier, safer urban forest.

1,607 REGULAR TREES	1,088 YOUNG TREES	391 INTERNAL REQUESTS	231 EXTERNAL REQUESTS
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TREE REMOVAL

Staff removed 347 trees in 2024 that were either dead or diseased. A total of 10 infected Ash trees were removed through Public Works. The 183 remaining Ash trees may have been treated by the property owner or are considered healthy and will be monitored to determine if removal is warranted.



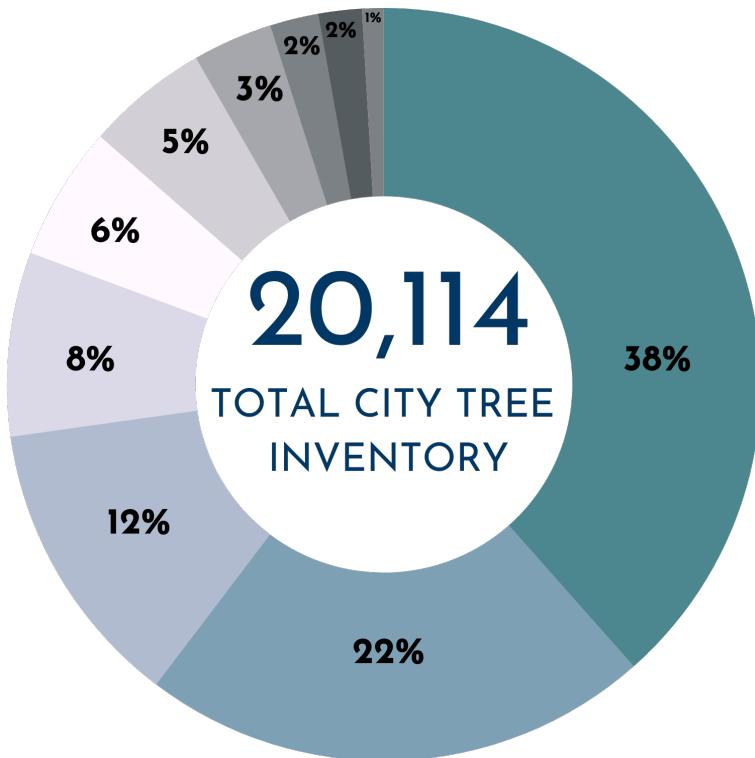
PARKS & GROUNDS

Staff maintains and enhances City owned properties to be both safe and aesthetically pleasing. In addition to the landscapes surrounding City parking lots, the Division maintains 24.6 acres of open space and public rights-of-way. These areas include the Central Business District (CBD) and Adams Park. Crews also provide the following services:

- Monitor and maintain the streetscape inventory of plants and trees.
- Provide mulching.
- Apply pesticide & herbicide at Adams Park, municipal owned parking lots, sewer lift stations and other areas.
- Pick up trash and water plants in the CBD and city-wide.
- Mow lawns in Adams park, the CBD and City rights-of-ways.



20,114
TOTAL CITY TREE
INVENTORY

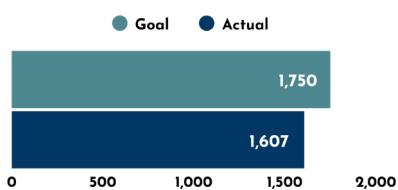


Maple: 7,572	Elm: 1,033
Other: 4,303	Linden: 675
Honeylocust: 2,451	Callery Pear: 410
Oak: 1,555	Gingko: 367
Crabapple: 1,134	Ash: 183

2024 ACCOMPLISHMENTS

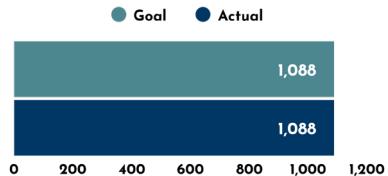
Goal: Tree Cycle Pruning Program established on a seven-year cycle for mature trees with an annual goal is to prune 1,750 trees.

Status: Pruned 1,607 trees in the cycle pruning programs. Contractor Services pruned 645 trees.



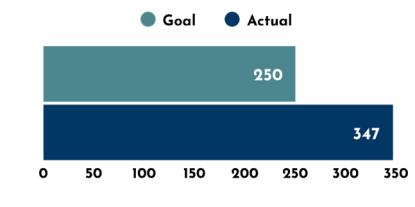
Goal: Young Tree Cycle Pruning established on a three-year cycle. Prune trees planted in 2018 and 2021 – estimate 1,088 trees.

Status: Young Tree Cycle Pruning reached 1,088 trees pruned.



Goal: Tree Removal Program to address dead, diseased, or hazardous trees from the City rights-of-way – estimate 250 trees to be removed.

Status: Removed 347 dead, diseased, or hazardous trees from City rights-of-way.



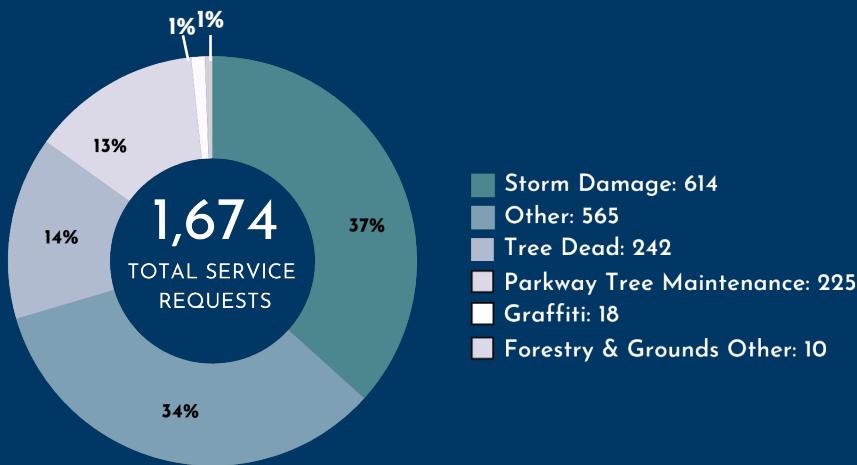
*The Forestry Division
annually hauls
approximately 2,200
yards of mulch and
700 yards of logs.*

OTHER ACCOMPLISHMENTS

- Planted 194 trees through Shared Cost Tree Planting Program.
- Address maintenance and restoration needs in Public Works facility, parking lots, lift stations, generator areas, and open spaces.
- Holiday tree lighting installation completed by City crews.
- Named Tree City USA for the 38th consecutive year.
- Continued certification training for certified arborists on staff (six). All staff are now certified.
- 252 new trees were planted throughout the City.
- 636 storm damage calls were addressed.
- 38 storm damaged tree removals were completed.



FORESTRY DIVISION: SERVICE REQUESTS



42%

OF TOTAL PUBLIC
WORKS DEPARTMENT
SERVICE REQUESTS
WERE FOR THE
FORESTRY DIVISION



166.31

centerline miles of roadways maintained

10,000+

miles of roadways swept annually

2,508

potholes repaired annually

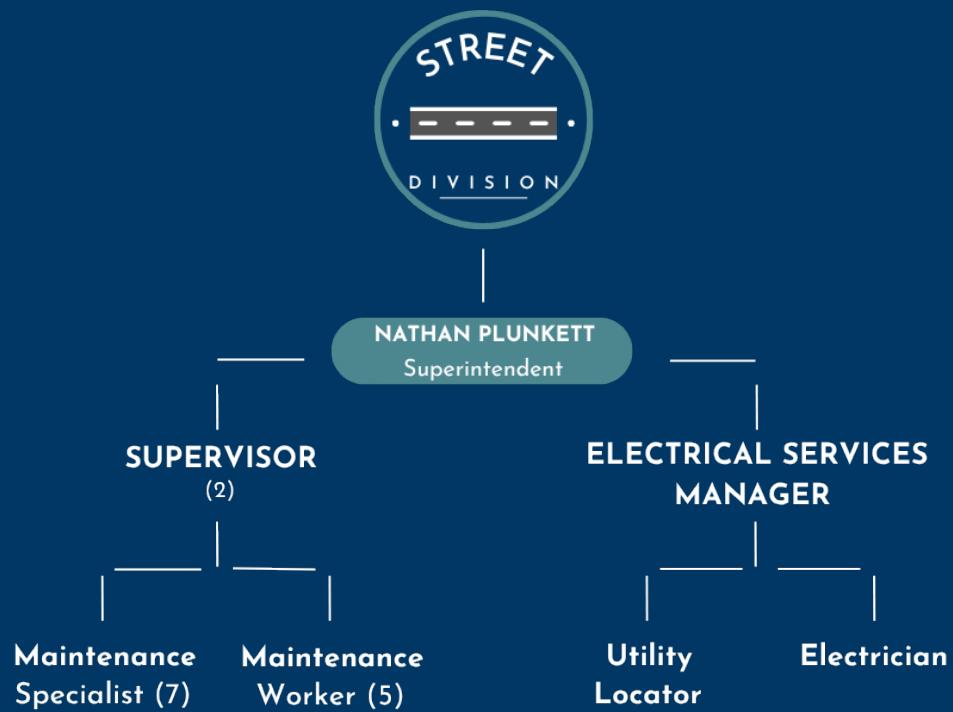
130+

residential & commercial driveway inspections

The Street Division is responsible for many maintenance activities related to the City's streets, rights-of-way, and public facilities. The City of Wheaton has 166.3 centerline miles of roadways. The Division also ensures compliance with federal, state and local regulations in all three of its sub-sections: Roadways, Signs and Lines, and Electrical.

The Roadways Section is charged with pavement maintenance, street sweeping, snow and ice control, alley maintenance, and miscellaneous waste disposal. The Signs and Lines Section installs and maintains all signs, pavement markings, and special event barricading. The Electrical Section maintains all pumps, generators, streetlights, civil defense sirens, and traffic signals. The Street Division also conducted inspections for 136 residential and commercial driveways in 2024.

ORGANIZATIONAL CHART



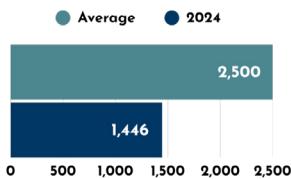
ROADWAY MAINTENANCE

Roadway maintenance in the City of Wheaton is truly a collaborative effort between Public Works and the City's Engineering Department. The Engineering Department evaluates and monitors the condition of the City's infrastructure, including streets, to then plan construction and capital improvement projects. The City's in-house Roadways Maintenance Program aims to maintain or increase the overall condition of City streets. Staff implements the recommendations from the Engineering Department and sets them into action. This is done by developing and implementing project management tools and allocating in-house resources to complete projects.

MAINTENANCE METHODS

Maintenance procedures are used to repair and prolong the life of the City's roadways.

Cold Patches: Potholes are filled in year-round both proactively and in response to resident reporting. The cold patch method is a temporary fix until a more extensive form of repair is scheduled for that portion of the street. An average of up to 2,500 potholes are repaired annually. In 2024, the Streets Division repaired 1,446 potholes with over 13 tons of cold patch.



Crack Fills: Filling or sealing cracks is important to roadway maintenance because it reduces the ability of water and other incompressible materials to enter the pavement surface that would otherwise accelerate deterioration. The application of hot-applied crack fill can extend pavement life from six months to four years.

Surface Sealing & Restoration: Gilsonite sealer-binder (GSB) is a sealing agent applied to roadways after they are constructed or repaired. Treating a roadway with GSB extends the life of the

pavement by reintroducing oils and resins lost to UV Rays, oxidization, temperature swings, and precipitation. Crews initially treat pavement one year after installation, and ideally reapply every five years.

Resurfacing/Overlay: From early May until late fall, a major component of street maintenance includes resurfacing roads throughout the City, which includes milling (grinding) street segments and re-paving them. The following criteria are used to prioritize streets for resurfacing each year.

- Date of last major rehabilitation.
- Trends and observations of past roads maintenance.
- Location proximity to arterials, collectors, or school-adjacent streets.
- PCI score.
- Areas identified by staff and/or residents.
- Conflicts with the Water Main Replacement Program.

PROACTIVE PAVEMENT MANAGEMENT

Wheaton's roadways are assessed every three years to determine their, and the total street system's, pavement condition index (PCI). PCI scores provide an approximation of a street's physical condition and help to prioritize road maintenance. In 2024, the Streets Division performed 3.3 miles of asphalt overlays, and performed 0.8 miles of asphalt patching.

3.3
miles of
asphalt
overlays

0.8
miles of
asphalt
patching

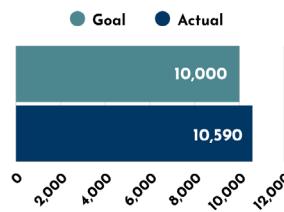
STREET SWEEPING

All City streets are swept monthly between May and September to control litter, leaves, and any environmental contaminants found in the gutter line. Concentrated sweeping occurs during the leaf season to address falling leaves and early spring to remove any debris buildup caused by snow removal efforts.

Street sweeping serves three important functions:

- Removes leaves and tree debris that naturally fall into the public right-of-way.
- Improves water quality by reducing the pollutants that accumulate in the street and infiltrate stormwater.
- Improves the appearance of streets and parking lots and contributes to the overall appearance of the City.

The City's two mechanical sweepers perform all regularly scheduled street sweeping, while the vacuum sweeper is used primarily to clear millings during pavement resurfacing and reconstruction. The Division maintains an aggressive sweeping program to ensure a minimum of 10,000 miles is swept each year. In 2024, the Streets Division swept 10,590 miles of the City's streets.



SNOW AND ICE CONTROL

The City of Wheaton maintains approximately 166 miles of streets along with 270 dead-end streets and cul-de-sacs divided into 16 specific snow plow routes as part of its snow removal operations.

In 2024, the Division responded to 12 snow events that produced a total of 14 inches of snow. A total of 1,310 tons of treated salt was used on the City's streets.

12
snow events

14
inches of
snow

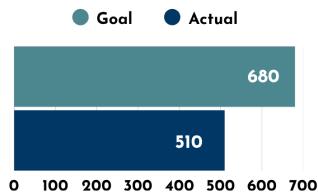
1,310
tons of salt
used

The Street Superintendent and five supervisors from the Street, Sewer, and Forestry Divisions coordinate to ensure that snow is efficiently removed from roadways, parking lots, sidewalks, and facilities. Sidewalks and parking lots are cleaned with assistance from private contractors.

Staff utilize several salt reduction practices and annually calibrate vehicle salt spreaders to distribute the compounds efficiently. These materials and practices allow staff to respond effectively to the variety of weather conditions winter brings and use less salt overall.

SIGNS

The City maintains a total of 10,719 signs, which include roughly 6,054 regulatory signs, 1,392 warning signs, 2,017 guide signs, and 1,256 other signs. Maintenance includes the design and fabrication; installation; assessment of condition and reflectivity; and sign removal. In response to FHWA regulations requiring all municipalities develop a sign maintenance plan that maintains the minimum requirements for sign retro reflectivity, staff have implemented a 15-year cycle sign replacement program that aims to replace 680 signs annually. In 2024, the Streets Division replaced 510 signs.



PAVEMENT MARKINGS AND STRIPING

The City maintains approximately 78 miles of traffic lines, and more than 1,916 pavement markings. City crews and contractors maintain the traffic lines and

pavement markings. Pavement markings include arrows, stop bars, crosswalks, handicap parking, and text that are applied to the roadway. Roadway striping is typically replaced on either an annual or two-year cycle. These markings include roadway edge lines, lane lines, parking spaces, turning lanes, and centerlines that use a water-based, retroreflective latex paint.

SIDEWALK REPLACEMENT PROGRAM

The City of Wheaton is responsible for the maintenance and replacement of public sidewalks. The City systematically surveys public sidewalks to identify defective and deteriorated sections that create a potential hazard. These surveys are conducted in a different geographic area of the City each year to determine which portions of sidewalk in each area will be addressed with the funds available each year.

ELECTRICAL SERVICES

Staff maintains 2,872 streetlights, nine civil and defense and weather sirens, traffic signals at 14 intersections, six school zone warning flashers. Staff also inspect or maintain key electrical components of the City's emergency generators, sewer lift stations, and transfer switches. Staff are also responsible for replacing faulty underground cable, repairing controller issues, repairing damaged or knocked down streetlights, conducting JULIE

locates, and performing monthly testing of the City's generators, pumps, and civil defense sirens.

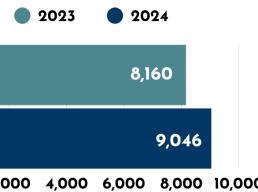
In 2024, Electrical Services re-lamped 142 streetlights, replaced 164 high pressure sodium (HPS) streetlight fixtures with energy efficient LED lights, and replaced 10 streetlight poles that were knocked down.



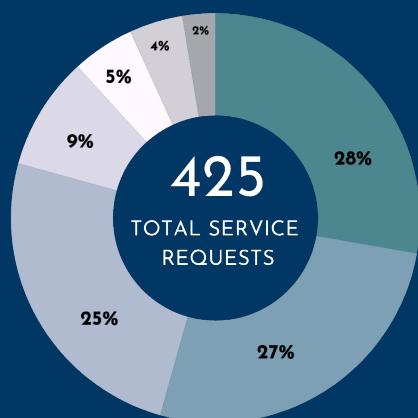
JULIE LOCATES

Performing JULIE (Joint Utility Locating Information for Excavators) locates is an essential customer service function. Locates are undertaken by Electrical with assistance from both Water and Sewer. When area residents or service providers plan to dig in Wheaton, they are required to call JULIE.

In 2024, staff responded to 9,046 JULIE requests by locating and marking underground City utilities in the right-of-way before excavation or other digging activities commence. The quantity of locates performed are dependent on annual construction and utility provider activity.



STREET DIVISION: SERVICE REQUESTS



- Signshop: 118
- Sidewalk Problems: 113
- Streetlight Out: 106
- Potholes: 38
- Accident w/ Damage to City Property: 21
- Other: 18
- Repair: 11

11%

OF TOTAL PUBLIC WORKS DEPARTMENT SERVICE REQUESTS WERE FOR THE STREET DIVISION



166.39

miles of sanitary
sewers maintained

174.36

miles of storm
sewers maintained

200

retention ponds
maintained

5,456

catch basins
maintained

The Sewer Division is responsible for providing uninterrupted service to all residents served by the City's sanitary and storm sewer systems via proactive maintenance and repair programs. These services are maintained through investigation, inspection, evaluation, and analysis of the systems' long and short-term needs. The Division maintains 168.3 miles of sanitary sewer, 174.36 miles of storm sewer, more than 200 retention ponds, six sanitary lift stations, two storm lift stations and 5,456 catch basins, and over seven miles of creek channel. The Division performs limited maintenance of the creek channels within the City limits. The City is only responsible for maintaining the creek sections within public right of ways and drainage easements. The Division responded to over 157 emergency locates called into JULIE during the calendar year. In conjunction with the Road Program, the Division also inspects, repairs, and replaces manholes. Sewer personnel assist with snow removal operations, storm events, and other cross-divisional.

ORGANIZATIONAL CHART



OPERATIONS & MAINTENANCE

The Wheaton Sewer Division conducts sewer cleaning and CCTV inspections to ensure the efficient operation and maintenance of the City's sanitary and stormwater management system. Regular sewer cleaning is essential to prevent blockages and backups that can lead to significant environmental and public health issues. Over time, sewer lines can accumulate debris, grease, roots, and other materials that restrict flow and cause clogs. By systematically cleaning the sewer lines, the Division helps maintain the proper functioning of the sewer system, reducing the risk of overflows and the subsequent contamination of local water bodies and residential areas.

CCTV (Closed-Circuit Television) inspections are a critical component of the Division's preventive maintenance

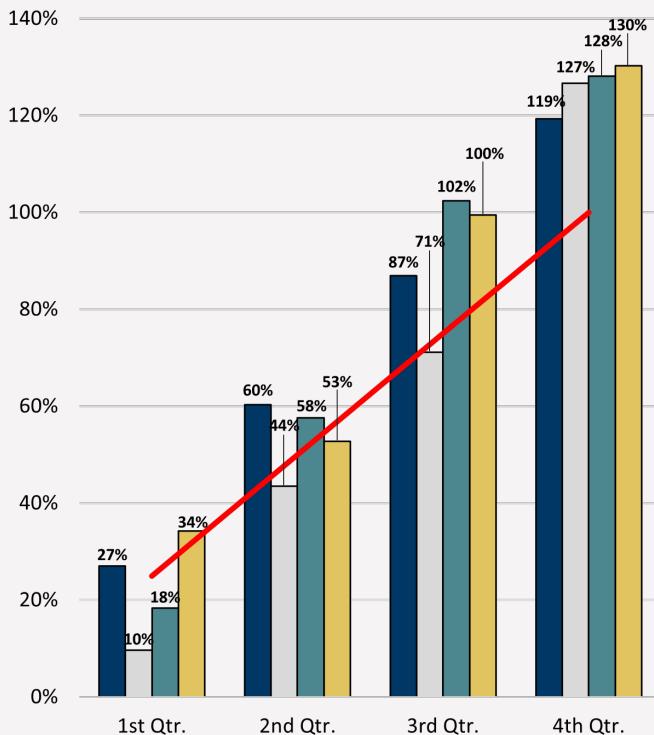
strategy. Using high-resolution cameras, the Division can visually inspect the interior of sewer pipes to identify potential problems that are not visible from the surface. These inspections allow for the early detection of issues such as cracks, corrosion, joint displacements, and blockages caused by roots or debris. By identifying these problems early, the Division can schedule timely repairs, which are often less costly and disruptive than emergency responses to system failures.

The combination of cleaning and CCTV inspections also supports the City's commitment Strategic Priority of Enhanced Infrastructure. Data collected from these activities helps the Division to prioritize areas needing immediate attention and to develop comprehensive maintenance schedules. Our proactive approach ensures the longevity and

reliability of the sewer system, thereby safeguarding public health and protecting the environment. Additionally, routine sewer maintenance and inspections help the Division comply with regulatory requirements and environmental standards set forth by the Illinois Environmental Protection Agency.

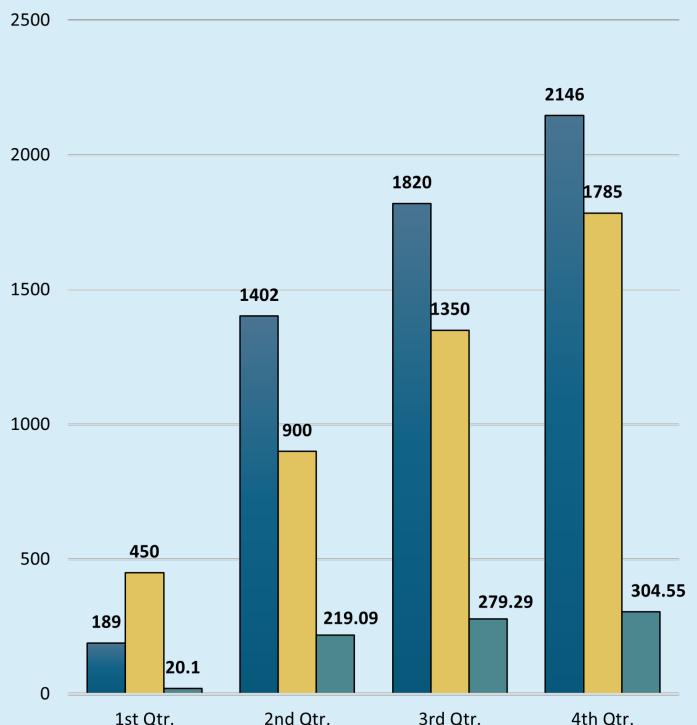
Moreover, maintaining a clean and well-inspected sewer system can enhance community confidence in local public services. Residents and businesses rely on the efficient removal of wastewater for daily activities, and disruptions can have significant economic and social impacts. Effective sewer management demonstrates the Division's commitment to providing essential services, contributing to the overall well-being and quality of life in the community and Wheaton's Strategic Priority of Responsive and Efficient Services.

SEWER CLEANING & INSPECTION PROGRESS



- Sanitary Cleaning (25% of the system annually)
- Sanitary CCTV (5% of the system annually)
- Storm Cleaning (15% of the system annually)
- Storm CCTV (5% of the system annually)
- 2024 Quarterly Goals

CATCH BASIN CLEANING



- 2024 Catch Basins Cleaning Progress
- Expected Annual Service Level (33% of the system cleaned annually)
- Debris Removed (Tons)

SANITARY SEWER IMPROVEMENT PROGRAM

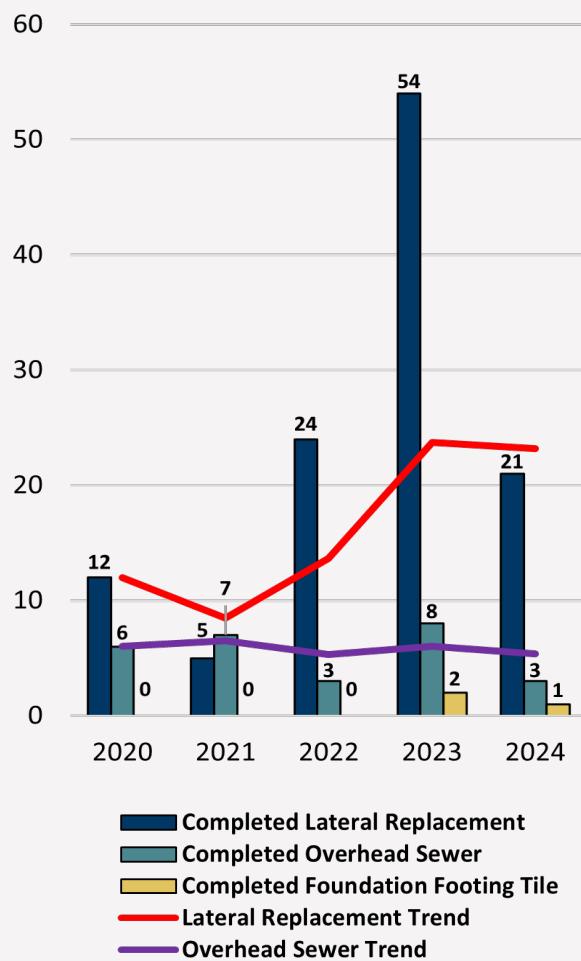
The City of Wheaton's Overhead Sewer Reimbursement Program and the Sanitary Sewer Service Replacement Program provide significant benefits to both the City and its residents. These programs aim to mitigate flooding, reduce private sewer backups, and enhance the overall resilience of the City's wastewater infrastructure.

The Overhead Sewer Reimbursement Program offers financial assistance to homeowners for installing overhead sewers, which are designed to prevent basement flooding during heavy rainfalls or sewer backups. By encouraging residents to upgrade to overhead sewers, the City reduces the likelihood of basement flooding, which can cause extensive property damage, health hazards, and financial strain on residents. For the City, fewer instances of sewer backups translate to reduced emergency response costs and less strain on the municipal sewer system during peak flow events.

The Sanitary Sewer Service Replacement Program focuses on replacing aging or deteriorating sewer service lines that connect individual properties to the City's main sewer lines. Over time, these service lines can develop cracks, leaks, or blockages, leading to sewer backups and potential environmental contamination. By replacing these old lines, the program helps ensure a more reliable and efficient sewer system. For residents, the program reduces the risk of sewer backups and the resulting property damage and health concerns. It also alleviates the financial burden of replacing these lines, which can be costly for individual homeowners.

From the City's perspective, upgrading service lines reduces the inflow and infiltration of groundwater into the sewer system, which can overwhelm the sanitary sewer system and lead to overflows. This proactive maintenance helps the City manage wastewater more effectively, ensuring compliance with environmental regulations and reducing the potential for costly repairs and fines.

SANITARY SEWER SERVICE LINE REIMBURSEMENT PROGRAM



CONSTRUCTION & CIP

In 2024, the City of Wheaton's Sewer Division replaced 1,311 feet of storm sewer and 47 assorted structures to address aging infrastructure and reduce overland flooding. The replacement of storm sewers and structures is critical to managing stormwater effectively, ensuring that water flows properly through the drainage system, and reducing the risk of localized flooding during heavy rain events.

Replacing these elements also helps mitigate potential failures that could lead to costly emergency repairs and service disruptions. By proactively addressing infrastructure needs, the City ensures the long-term reliability and efficiency

of its stormwater management system, ultimately safeguarding the community's well-being and reducing the financial burden on both the City and its residents.

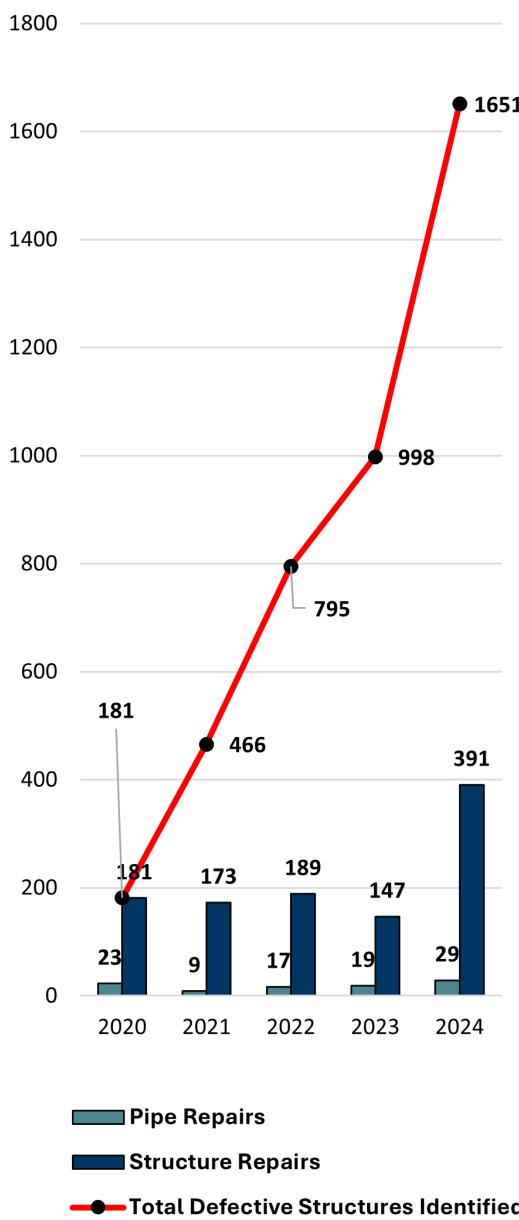
Additionally, the construction crew's repair of over 391 structures and 29 pipes identified with defects during CCTV inspections highlights the City's commitment to maintaining its sewer system in optimal condition. CCTV inspections are an integral part of the City's preventive maintenance strategy, allowing for the detailed examination of sewer lines and structures to detect issues such as cracks, blockages, and structural weaknesses that are not visible from the surface.

When defects are found, timely repairs

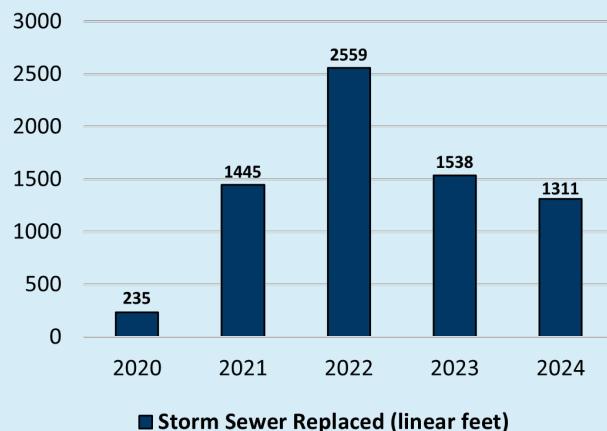
are crucial to preventing minor issues from escalating into major problems that can disrupt service and require more extensive and expensive fixes. By addressing these defects promptly, the construction crew helps to maintain the functionality and safety of the sewer system, ensuring continuous and efficient service for the community.

This comprehensive approach to infrastructure maintenance, encompassing both proactive replacements and timely repairs, reflects the City's dedication to providing reliable and resilient public utilities. It minimizes the risk of sewer and stormwater system failures, enhances public safety, and promotes environmental stewardship by preventing untreated water discharges.

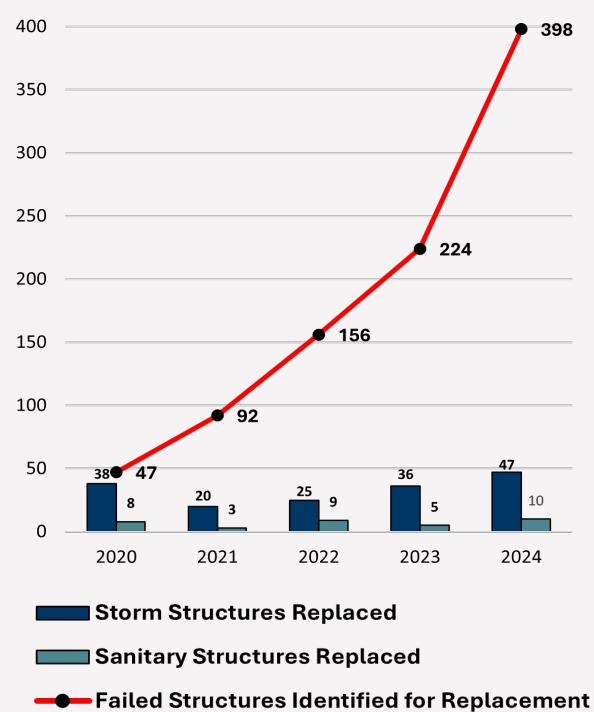
SEWER INFRASTRUCTURE REPAIRS



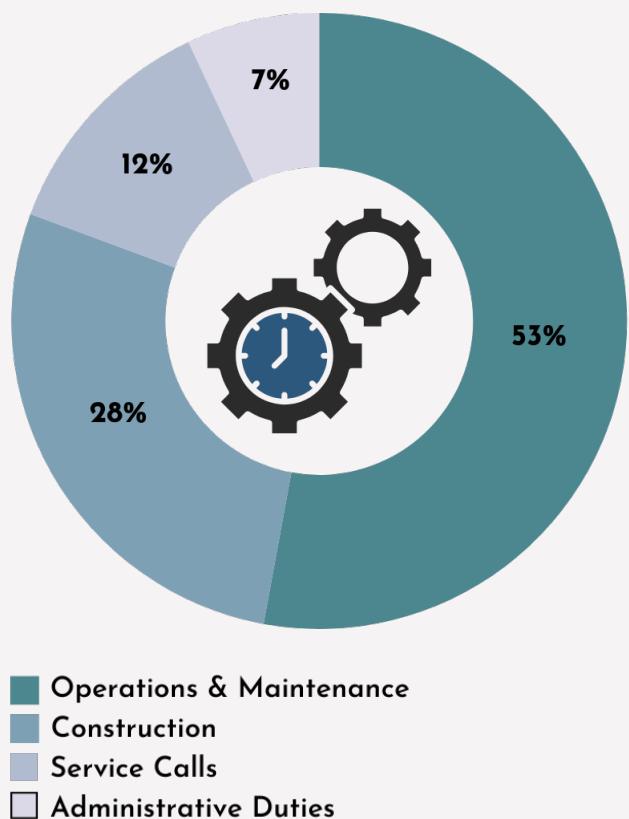
STORM SEWER PIPE REPLACEMENT



SEWER STRUCTURE REPLACEMENT



SEWER DIVISION TIME ALLOCATIONS



SEWER DIVISION: SERVICE REQUESTS



14%

OF TOTAL PUBLIC
WORKS DEPARTMENT
SERVICE REQUESTS
WERE FOR THE
SEWER DIVISION



230

miles of water lines maintained

4.5

million gallons of water supplied per day

53,000+

residents, businesses, and visitors

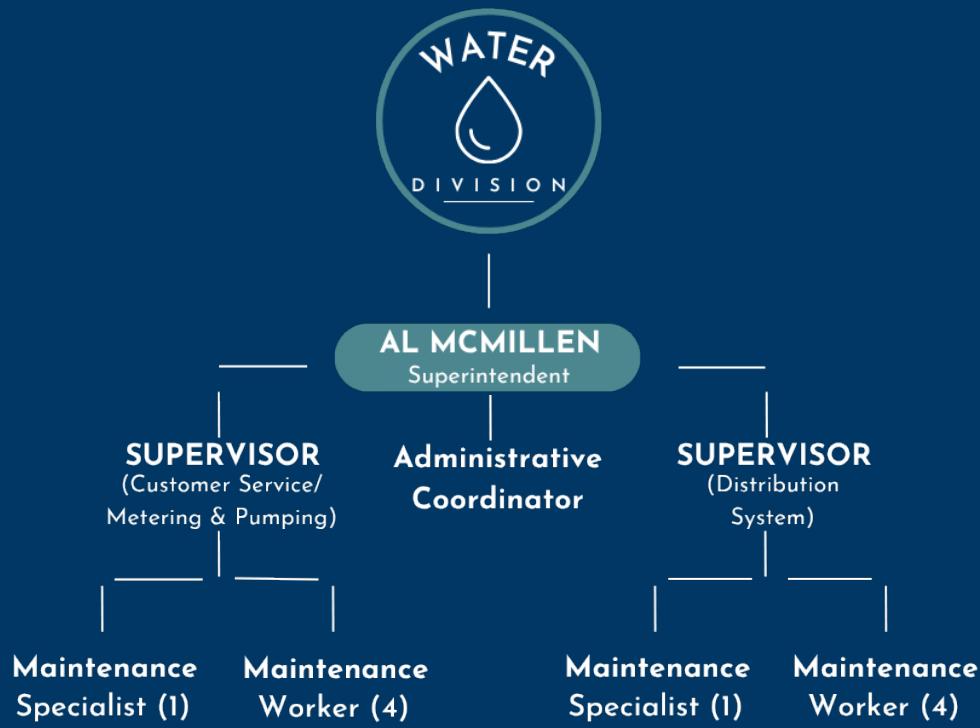
24/7

Water Division staff are available 24/7 for emergencies

The Water Division ensures the reliable operation of the City's waterworks system and provides a high-quality supply of drinking water at sufficient pressure and affordable prices. This is done by balancing cost-effective services with sound environmental responsibility.

The Water Division is responsible for the operation, maintenance, and repair of City-owned waterworks infrastructure and the supply, treatment, storage, distribution, and testing of the drinking water. The City supplies an average of 4.5 million gallons of water per day to more than 53,000 residents, businesses, and visitors. The Water Division staff is available 24 hours a day, 7 days a week for emergency response to water main breaks, emergency utility locates, and any other water-related emergencies.

ORGANIZATIONAL CHART



WATER DISTRIBUTION

Staff are responsible for the maintenance and repair of the water distribution system. There are approximately 230 miles of water main, 2,600 fire hydrants, 3,100 valves, and 16,800 services in the system.



- Inspected 956 valves
- Repaired two valves
- Replaced five valves



- Flushed 2,600 fire hydrants
- Replaced three fire hydrants
- Painted 268 fire hydrants



- Replaced 116 curb stops

PUMPING & STORAGE

Staff are responsible for the operation and maintenance of the pumping and storage systems. Staff maintains two elevated tanks that each have a capacity of 1.5 million gallons of water, five ground storage reservoirs that have a total capacity of 4.27 million gallons, three pumping stations with 21 high-service pumps, six emergency backup wells, and three standby electrical generators. Staff also performs monthly testing, preventative maintenance, and repairs on this equipment.

In 2024, a total of 1,639,129,000 gallons of metered water was pumped through the system. In 2019, the Illinois Department of Natural Resources reduced the allowable nonrevenue water from 12% to 10%. In 2024, Wheaton was at 10.4% non-revenue water.

WATER QUALITY

The Water Division must meet specific guidelines for drinking water quality as established by the United States and Illinois Environmental Protection Agencies (EPA) and the Safe Drinking Water Act (SDWA).

In 2024, the Division collected the following samples:

Distribution System Samples:

- 720 Coliform
- 78 Entry Point Water Quality
- 40 Distribution Water Quality
- 32 Stage II Disinfectant By-Product Rule
- 13 lead/copper samples

Emergency Back-up Well Samples:

- 72 Coliform
- Three Volatile Organic Compound
- Two Synthetic Organic Compound
- Two Nitrate and Nitrite
- One Radiological Element
- One Inorganic Compound

WATER MAIN BREAKS

The City experienced an average of 58.4 water main breaks annually from 2015 to 2024. In 2024, Water Division crews repaired 75 water main breaks. 12 water service leaks were repaired.



2024 ACCOMPLISHMENTS

Maintain Water Quality and Comply with Regulatory Agency Requirements

Goal: Continue to improve upon leak detection programs to comply with the IDNR's Lake Michigan water allocation requirement of maintaining non-revenue water below 10%.

Status: Through in-house leak detection survey of 1,364 fire hydrants and 1,054 valves, two leaks were found and repaired, saving 11,037,600 gallons annually. Non-revenue water loss for 2024 was 10.4%.

Goal: To protect water consumers through the Cross-Connection Control Program, check for cross-connections in an effective manner.

Status: Maintained records for over 1,750 backflow prevention device tests in 2024.

Ensure Fairness, Accuracy, and Consistency of Billing for Water Use

Goal: Field test and calibrate 100%

of 2-inch and larger non-disc meters according to an annual schedule. Field test and calibrate 50% of 2-inch and larger non-disc meters according to a two-year schedule. non-disc meters according to a two-year schedule.

Status: Field testing was completed on 76 large meters. Repairs were completed on six large meters.

Goal: Increase the number of public and private lead service lines replaced.

Status: Lead Service Line Replacement Program implemented in 2023. Replaced 95 lead service lines.

Maintain Quality Infrastructure

Goal: Continue on-going program of fire hydrant inspection, pressure-testing, and replacement to ensure adequate availability of water for firefighting purposes.

Status: Inspected and pressure-tested 360 fire hydrants, repaired 13 fire hydrants

and replaced three fire hydrants.

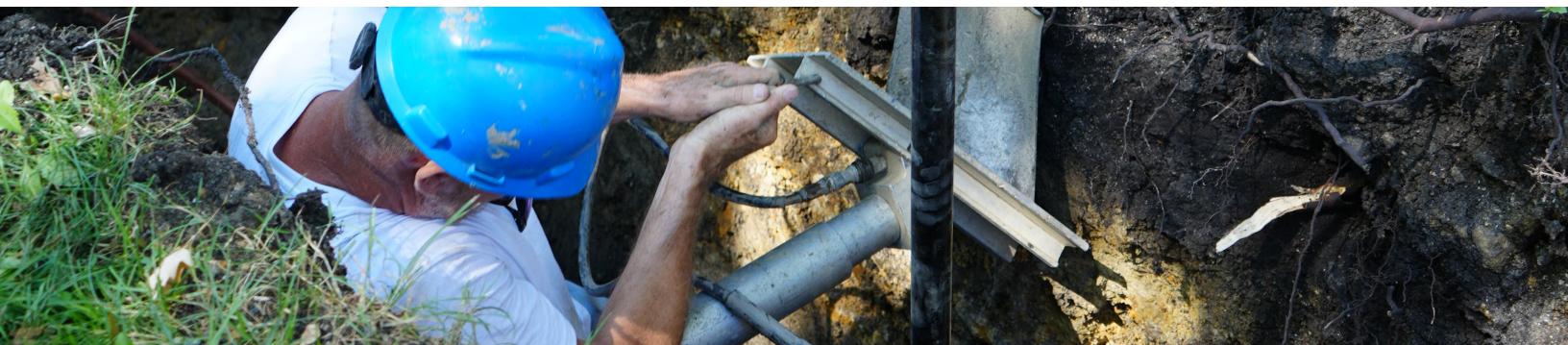
Goal: Replace water mains in accordance with the recommended replacement schedule of the 2013 Water Distribution System Hydraulic Analysis.

Status: Replaced 3,200 feet of deteriorating water main.

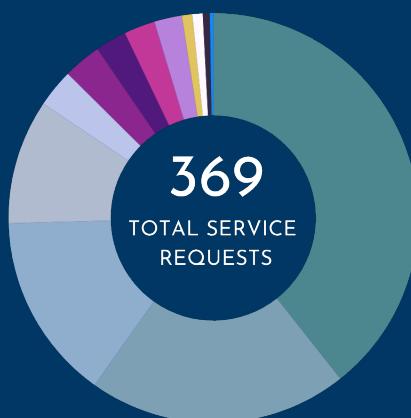
Efficient and Effective Services

Goal: Continue staff education at training courses, conferences, and seminars.

Status: Two employees attended the ISAWWA Annual Conference. Two received OSHA 10 certification, three renewed flagger certification, three attended the ISAWWA Water Distribution Conference, and six attended Trench Safety/Confined Space Entry training. One employee attained a Cross-Connection Control Device Inspector license. One employee completed the three-year Illinois Public Service Institute.



WATER DIVISION: SERVICE REQUESTS



Other: 144
Turn Off Water: 75
Check for Dead Meter: 54
Possible Leak: 36
Fire Hydrant Concern: 11
Turn-On Water: 11
Sinkhole/Settling: 9
Check for Leaks: 9
Water Quality Complaint: 8
Accident with Damage to City Property: 3
Emergency Locate: 3
Read Meter: 2
No Water: 1

9%

OF TOTAL PUBLIC WORKS DEPARTMENT SERVICE REQUESTS WERE FOR THE WATER DIVISION



160

City-owned vehicles maintained

88

large pieces of primary & ancillary equipment maintained

17

stationary power generators maintained

141

smaller pieces of ancillary equipment maintained

The Fleet Services Division is charged with providing maintenance, repair, and fueling services to all City-owned vehicles and equipment. City-owned assets include 160 licensed vehicles, 88 large pieces of primary and ancillary equipment, including 17 stationary power generators, and 141 smaller pieces of ancillary equipment. Ancillary equipment includes salt spreaders, snowplows, de-icing and anti-icing equipment, mowers, asphalt pavers, and rollers among other items. The Fleet Division also specifies and acquires replacement vehicles and equipment; disposes of retired assets; administers a central parts and supplies inventory; ensures that National Fire Protection Agency (NFPA) and Public Works safety standards are met for various equipment.

Division personnel utilize Computerized Fleet Analysis (CFA) software to track and manage these assets. To stay up to date with best practices and safety standards, Division staff maintain the following specialty certifications:

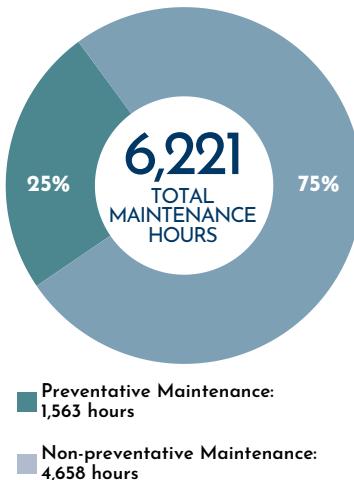
- Automotive Service Excellence (ASE)
- Emergency Vehicle Technician (EVT) IL
- Underground Storage Tank (UST)
- IL DOT Certified Safety Tester

ORGANIZATIONAL CHART



PREVENTATIVE & NON-PREVENTATIVE VEHICLE MAINTENANCE

To ensure the continued operation of City vehicles, staff perform both preventative and non-preventative maintenance on City vehicles and equipment. Staff performed 4,658 hours of non-preventative maintenance and 1,563 hours on preventative maintenance in 2024.



Staff responded to 946 service requests for mechanical jobs in 2024. Much of Fleet's mechanical jobs addressed Public Works equipment with the remaining addressing Police, Fire, and other equipment in that order.

VEHICLE REPLACEMENT PROGRAM

Fleet oversees the City's Vehicle Replacement Program, using equipment life expectancy data and internal usage statistics to plan for the acquisition, reassignment, and resale of City vehicles and large equipment. Vehicles sold by the Division in 2024 created \$68,082 in revenue, and there was \$178,900 generated in vehicles traded in 2024.

FUEL CONSUMPTION

Wheaton implemented a Green Fleet policy in 2012 with the goal of reducing the carbon footprint of its vehicles over time. The City's 160 licensed vehicles used 119,234 gallons of fuel in 2024, a 1% decrease from 2023. In 2024, City

vehicles logged 925,523 miles and 22,959 fleet engine hours, a 12% increase in miles from 2023.

\$68,082 | \$178,900

vehicles sold in 2024

vehicles traded in 2024

HYBRID VEHICLES

There were four hybrid vehicles added to the City's fleet in 2024.

- The non-hybrid Police SUV averaged 8.9 miles per gallon, and the hybrid Police SUV averages 13.5 miles per gallon.
- The City's other hybrids average 27 miles per gallon, with the lowest vehicle averaging 16 miles per gallon, and the highest being 49.5 miles per gallon.

2024 ACCOMPLISHMENTS

Strategic Priority 1: Financial Stability

Goal: Reduce costs while maintaining service levels.

Action Item: Reduce costs where possible through extending the service life of vehicles and equipment.

Status: All vehicles that were requested for replacement during 2024 had surpassed age and/or usage requirements.

Strategic Priority 3: Responsive and Efficient Services

Goal: Provide comprehensive vehicle, equipment, and standby power services to support operations.

Action Item: Provide safe, reliable, and

efficient transportation and equipment for City personnel and operations.

Status: Implemented thorough preventative maintenance procedures, safety inspections, and developed new vehicle specifications, provided safe, reliable, and efficient transportation and equipment for City personnel and operations.

Action Item: Continue to perform Department of Transportation safety inspections in house to save staff time and reduce inspection costs.

Status: Training and certification have been maintained by four Fleet staff members. The in-house Safety Lane was re-certified by the State of Illinois during 2024.

Action Item: Manage compliance with NFPA 1911-1914 standards for Fire Pumper. Comply with Illinois Department of Transportation safety inspection requirements, aerial equipment testing and certification.

Status: Complied with all applicable regulations.

Action Item: Manage the replacement of Public Works Generator 7.

Status: New Generator 7 was placed into service in September 2024.

Action Item: Manage the construction and installation of two heavy vehicle lifts in the Fleet facility which will support other department's services.

Status: Two new heavy truck lifts were

2024 ACCOMPLISHMENTS

placed into service in October 2024.

Action Item: Manage the construction of a new fueling facility at Public Works.

Status: The project was in the engineering design phase in 2024. Construction will begin in 2025 if approved.

Action Item: Manage the development of engineering specifications for the replacement of the Police Department generator.

Status: Engineering services were awarded during 2024 and the project is in the design phase.

Strategic Priority 5: Environmental Sustainability

Goal: Reduce vehicle emissions and comply with regulations without compromising service levels.

Action Item: Purchase vehicles and equipment with increased emphasis on fuel savings and environmental impact.

Status: Fuel savings and environmental impact influenced all vehicle replacement decisions.

Action Item: Develop specifications, assist in applying for grant funding, and manage

construction of electric vehicle charging stations if the City is awarded grant funding.

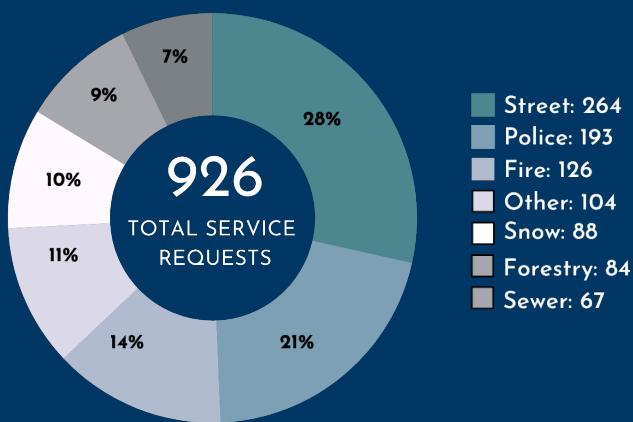
Status: No funding was available for the proposed projects. Seeking funding opportunities is ongoing through the Finance Department.

Action Item: Manage compliance with EPA emissions inspections and State Fire Marshal fuel dispensing and storage requirements and regulations for two locations. Properly dispose of shop waste.

Status: Complied with all applicable regulations.



FLEET DIVISION: SERVICE REQUESTS



23%

OF TOTAL PUBLIC WORKS DEPARTMENT SERVICE REQUESTS WERE FOR THE FLEET DIVISION



ADMINISTRATIVE DIVISION

- Continually work on improving operations through identifying opportunities to enhance performance and reduce costs.
- Enhance department effectiveness through the development of personnel.

FORESTRY DIVISION

- Continually work on improving operations through identifying opportunities to enhance performance and reduce costs.
- Enhance department effectiveness through the development of personnel.
- Tree Cycle Pruning Program established on a seven-year cycle for mature trees with an annual goal is to prune 1,900 trees.
- Young Tree Cycle Pruning established on a three-year cycle. Prune trees planted in 2019 and 2022 – estimate 945 trees.
- Tree Removal Program to address dead, diseased, or hazardous trees from the City rights-of-way – estimate 250 trees to be removed.
- Address maintenance and restoration needs in public works facility, parking lots, lift stations, generator areas, and open spaces.
- To reduce the City's carbon footprint.

SEWER DIVISION (SANITARY)

- Maintain sanitary sewer infrastructure to meet expected and appropriate level of service and comply with State and Federal EPA regulations
- Continue to track participation in

both the Overhead Sewer Private Property Protection Program and Sanitary Sewer Service Line Reimbursement Program to acquire data to understand the magnitude and locations of residential sewer backups in order to assess program effectiveness and provide supporting data for potential capital improvement projects. Maintain sanitary sewer system capacity, reduce infiltration and inflow.

- Continue to identify and quantify infiltration and inflow sources using structure inspection, dyed water flooding, lateral TV inspection with dye flooding, and flow monitoring to identify and develop strategies to remediate the private sector extraneous flows caused by illegal connections and their associated sewer back-up problems within the City and their associated costs and liabilities. Continue on-going inspections, evaluation, and repair of the public sector, City-owned sanitary sewers.
- Continue efforts to comply with Federal EPA regulations regarding sanitary sewer overflows and NPDES Phase II Storm water requirements

Maintain Quality Infrastructure

- Maintain public infrastructure including ongoing cleaning, repairing, and inspecting sanitary sewers.
- Televise 60,000 feet of sanitary sewer.
- Clean 240,000 feet of sanitary sewers system annually.
- Continue to maintain and make structural improvements to sanitary sewer system, repair and replace manholes, laterals, and sewers where appropriate and necessary.
- Operate at peak efficiency employing state-of-the-art energy efficient technology, and sound mechanical

practices to provide uninterrupted service.

- Continue to contract rehabilitate deep manholes with epoxy lining to restore structural and watertight integrity.
- Purchase new equipment and tools to increase our work quality and limit maintenance in future years.

Efficient and Effective Services

- Conduct employee training in areas such as trench safety, IDOT Flagger Training, and other industry specific topics that provide needed skills for safe effective operations. Attend locally sponsored workshops and seminars.

Implement "Green Practices" when possible

- Investigate environmentally neutral technologies for sewer system maintenance "Green Practices," and Best Management Practices.

SEWER DIVISION (STORM)

- Maintain Storm Sewer infrastructure to meet expected and appropriate level of service
- Continue to ensure compliance with Stormwater National Pollutant Discharge Elimination System (NPDES) | US EPA NPDES permit requirements and periodic IEPA inspections.
- Maintain public infrastructure including cleaning, repair, and inspection of storm sewers.
- Continue efforts to comply with Federal EPA regulations regarding NPDES Phase II Storm water requirements.
- Televise 64,712 feet of storm sewer annually.
- Clean 10% of storm sewers system

and catch basins on a 7-year cycle and 1,800 catch basins annually.

- Continue efforts to comply with Federal EPA regulations regarding MS4 Permit ad directed by the City's Stormwater Engineer.
- Identify structural issues within the system and tag them for lining or replacement.
- Identify obstructions and pipe failures in order to reduce flooding.

Efficient and Effective Services

- Maintain and report storm cleaning quantities, debris removed, and system repairs, maintaining and updating the database and the GIS system atlases.
- Continue to update inventory records to accurately establish supply and material quantities.
- Follow the cleaning plan to eliminate cleaning redundancy.

Implement "Green Practices" when possible

- Investigate environmentally neutral technologies for sewer system maintenance "Green Practices," and Best Management Practices.

FLEET DIVISION

Financial Stability

- Goal: Reduce costs while maintaining service levels.
- Action Item: Reduce costs where possible through extending the service life of vehicles and equipment.
- Action Item: Maintain Illinois Department of Transportation certification and continue to perform vehicle safety inspections in house to save staff time and reduce inspection costs.
- Action Item: Evaluate the chargeback formula for vehicle replacement funding.

Responsive and Efficient Services

- Goal: Provide comprehensive vehicle, equipment, and standby power services to support operations.
- Action Item: Provide safe, reliable, and efficient transportation and equipment for City personnel and

operations.

- Action Item: Manage compliance with NFPA 1911-1914 standards for Fire Pumpers. Comply with Illinois Department of Transportation safety inspection requirements, aerial equipment testing and certification.

Environmental Sustainability

- Goal: Reduce vehicle emissions and comply with regulations without compromising service levels.
- Action Item: Purchase vehicles and equipment with continued emphasis on fuel savings and environmental impact.
- Action Item: Comply with EPA emissions inspections and State Fire Marshal fuel dispensing and storage requirements and regulations for two locations. Properly dispose of shop waste.

Enhanced Infrastructure

- Goal: Maintain existing infrastructure and develop projects for future needs.
- Action Item: Manage the construction of a new fueling facility at Public Works.
- Action Item: If grant funding becomes available, manage a site study for electric vehicle charging stations.
- Action Item: Manage the replacement of Generator 2 at the Police Department.

WATER DIVISION

Financial Stability

- Goal: Ensure fairness, accuracy, and consistency of billing for water use.
- Action Item: Field test and calibrate 2-inch and larger non-disc meters according to testing schedules.
- Action Item: Read customers' water meters on a consistent monthly cycle.

Enhanced Infrastructure

- Action Item: Replace water mains in accordance with the recommended replacement schedule of the 2013 Water Distribution System Hydraulic Analysis.
- Action Item: Replace flow control valves at the Pressure-Adjusting Stations to maintain pumping

operations.

- Action Item: Continue on-going program of fire hydrant inspection, pressure-testing, and replacement to ensure adequate availability of water for firefighting purposes.

- Goal: Remove lead public and private water services.

- Action Item: Increase the number of public and private lead service lines replaced.

Responsive and Efficient Services

- Action Item: Continue to collect GPS information and develop GIS maps to improve efficiency of water distribution system maintenance activities.
- Action Item: Continue staff education at training courses, conferences, and seminars.

Community Safety

- Goal: Continue to prioritize the health, safety, and welfare of the community
- Action Item: Evaluate successful programs, methods, and technologies to reduce non-revenue water to comply with the Illinois Department of Natural Resources' Lake Michigan water allocation requirement of maintaining non-revenue water below 10%.
- Action Item: Compile information and publish Water Quality Report by July 1, in accordance with Illinois Environmental Protection Agency requirements.
- Action Item: To protect water consumers through the Cross-Connection Control Program, check for crossconnections in an effective manner.
- Action Item: Maintain 100% of distribution water samples reported bacteriologically safe to comply with Illinois Environmental Protection Agency Coliform Rule requirements.

Environmental Sustainability

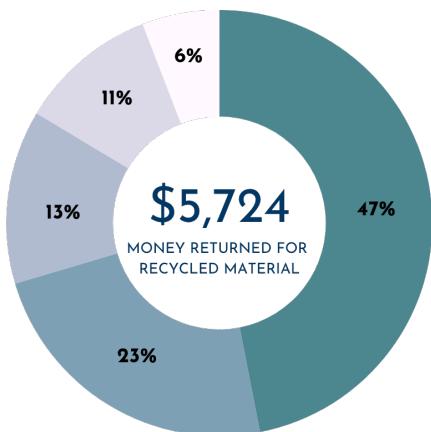
- Action Item: Investigate green initiatives/alternatives and implement if feasible.
- Action Item: Continue recycling of used cast iron, steel, and brass materials.

SUSTAINABILITY INITIATIVES



SCRAP METALS RECYCLING

The Public Works Department tries to recycle any materials that are able to be recycled. In 2024, the Department was able to recycle 75,880 lbs of scrap metal 6,046 lbs of aluminum, 349 lbs of brass/yellow brass, 336 lbs of steel, and 273 lbs of copper. In total the Department was able to acquire \$5,724 in reimbursement funds.



SCRAP METAL: 75,880 LBS
ALUMINUM: 6,046 LBS
BRASS/YELLOW BRASS: 349 LBS
STEEL: 336 LBS
COPPER: 273 LBS
TOTAL: 82,884 LBS



Scrap Metal: \$2,932.20
Aluminum: \$1,343
Copper: \$755
Yellow Brass/Brass: \$603
Steel: \$336

OTHER RECYCLABLES

Apart from scrap metal, the Public Works Department also does its part to recycle other items that can be recycled including light bulbs, holiday lights, tires, and used vehicle oil.

550 pounds of crushed bulbs	2,090 pounds of holiday lights
500 gallons of vegetable oil	190 vehicle tires

