



# **WARRENVILLE**

## Climate Action Initiatives Annual Report

PUBLIC WORKS DEPARTMENT

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## Emerging Projects

### Solar Energy Facility Assessments

In the summer of 2022, staff is working with a third party to evaluate feasibility of installing smaller scale solar projects at city wells (no. 9, 11, and 12), the Public Works garage, and City Hall. The evaluations will assess solar capability and provide an estimate on cost to install, and potential energy savings. An important factor is the City not paying for electricity at Public Works and City Hall. Additionally, the structural integrity and ages of the various roofs will be considered as part of this process. This is an important step toward exploring opportunities to integrate solar energy in community.

Other projects in consideration to pilot solar energy would be for the on Trailhead Building Roof, and public benches.



### Fleet – Efforts to Lower Fuel Emissions

Staff is dedicated to delivering quality, professional services to improve the community, and this includes exploring alternative fuel options to enhance fleet performance and lower emissions, while also being fiscally responsible with City resources.

In 2014, a fleet pickup truck was retrofitted from unleaded gasoline to compressed natural gas (CNG). Commonly referred to as green fuel, natural gas is free of lead and sulphur, and produces less harmful emissions.



In 2018, the City received an American Lung Association grant to install diesel particulate filters (DPFs), an emission control technology, on three of the oldest trucks in the Public Works Fleet, **which removes between 80 to 90% of diesel emissions on these vehicles.** Newer vehicles were subject to stricter emissions requirements than the older vehicles.

Also in 2018, the City entered an intergovernmental agreement with the Forest Preserve District of DuPage County (FPDDC) to utilize the district's fueling facility, which supplies biodiesel fuel. **The Public Works fleet currently has 15 vehicles that consume biodiesel.**

**B20 (Biodiesel) Club – Warrenville is a new member!**

In January 2022, the City of Warrenville became a member of the B20 Club of Illinois, an American Lung Association and Illinois Soybean Association program. By using biodiesel, the City Fleet operation benefits human health and the environment, supports local businesses, and contributes to research in alternative energy sources. Biodiesel is efficient, reliable, and cost-effective.

**Based on USEPA figures, and Warrenville fuel consumption data, it is estimated that by using B20 instead of standard ULSD fuel, every year the City fleet prevents the release of approximately:**

- 2 pounds of particulate matter (PM)
- 10 pounds of hydrocarbons (HC)
- 2 pounds of carbon monoxide (CO), and
- 138 pounds of carbon dioxide

Efforts also provide an estimated \$780 in annual health savings benefits to the residents of Warrenville

Being a B20 Club member also means that the City will receive several customizable benefits throughout the year, including complimentary fuel testing and analysis, technical training, and access to industry experts. The Club also strives to evolve benefits over time to best fit Warrenville’s needs.



### **Fleet Electrification Exploration**

In fiscal year 2023, the City plans to utilize the Capital Maintenance Replacement Fund to replace four police vehicles. One of these replacements will be a hybrid vehicle. This vehicle is in addition to the hybrid vehicle previously ordered, but not received yet due to supply shortages and delays. These vehicles will serve as a pilot to test the functionality of a hybrid as a squad car option.

If a community does not keep up with advances in transportation, it can get left behind. City staff is also exploring opportunities to integrate electric vehicles (EV) and related infrastructure into the community, by attending educational events put on by industry professionals. Staff will continue to engage in opportunities to increase understanding of EV technology and significant costs, and stay up to date on policy and any incentives that may be available, as well as keep an eye on trends in market demand.

### **Water Ambassador Program**

For 2022, the Public Works Utility Division is participating in the Illinois Section of the American Water Works Association (ISAWWA)'s Water Ambassador Program, an initiative created to elevate public perception, knowledge, and consumer education of the water industry. This program aims to accomplish these goals by presenting educational content in a manner that is relevant, engaging, and consistent among participants.

As of June 2022, Warrenville's participation has included:

- Celebrating National Engineers Week, to educate and recognize a profession that plays a key role in water infrastructure and highlight career opportunities in engineering fields.
- Publishing educational information on Warrenville's local drinking water source and local infrastructure, on the City's website, Facebook page, and in Hometown Happenings, during National Drinking Water Week (first week in May).
- Celebrating APWA's National Public Works Week, to provide information to residents on the Public Works Department on City's website, Facebook page, and in Hometown Happenings.
- Holding a Public Works Garage Open House, as a means to connect with residents, staff, and community stakeholders, and provide education on Public Works tasks and current projects.

For the remainder of the year, staff plan to participate by completing the following:

- Provide Elected Officials with a copy of ISAWWA's "Water 1-2-3: A Guide for Local Officials and Community Leaders." This guidebook provides resources to elected officials to help inform their understanding of the industry, and learn more of the details in the operations of a public utility.



- Provide consumer education on the City’s website, Facebook, and Hometown Happenings on the value of water, such as how to conserve water and detect leaks, groundwater and how to protect it.
- Provide consumer education on the City’s website, Facebook, and Hometown Happenings on the water industry, such as information on the processes taken to provide safe drinking water to residents, and capital investments that are necessary to operate and maintain City infrastructure.
- Use the City’s website, Facebook, and Hometown Happenings, to recognize and celebrate industry related events to help bring more context and understanding to multiple factors that impact a successful water system.

The Water Ambassador Program offers educational resources on multiple topics related to the water system that are designed to be shared with the community. It is staff’s intent to continue to disseminate information on a regular basis, to provide City decision makers and residents with current information on the local water system and best practices that can be used to protect, and sufficiently maintain it.



## City Advisory Commissions

In 2006, the City Council established two advisory commissions that address issues related to climate change; the Bicycle and Pedestrian Advisory Commission (BPAC), and the Environmental Advisory Commission (EAC). Both organizations hold various events and programs throughout the year that reflect the City's commitment to green initiatives.

BPAC encourages bicycle commuting and walking in lieu of motorized transportation. The City is designated a Bicycle Friendly Community (BFC) by the League of American Bicyclists. The BFC certification provides a roadmap to promote and improve bicycling issues in the community. Renewal of the designation will be pursued in the fall of 2022. BPAC has been involved with the promotion of bike and walk to school events, in April and October, and has routinely organized an annual Bike Rodeo in May to provide education on bicycle safety and encourage bicycling for commuting as well as recreation.



EAC promotes programs and initiatives geared towards enhancing environmental awareness within the city, among other things. EAC holds an Arbor Day event in late April, at which free tree saplings are given away to encourage tree planting around the community.

Number and Type of Saplings Distributed at Arbor Day
2022 – 300 (50 Highbush Cranberry, 100 Redbud, 50 Red Oak, 50 Serviceberry, 50 White Spruce)
2021 – 200 (50 American Linden, 50 Eastern Redbud, 50 American Plum, 50 White Pine)
2020 – Cancelled due to the pandemic
2019 – 400 (100 Red Oak, 100 Swamp White Oak, 50 American Plum, 50 Eastern White Pine, 50 River Birch, 50 Serviceberry)

The City of Warrenville is designated as a Tree City USA by the Arbor Day Foundation and has held that designation for the past 30 years. The certification provides recognition of the City's efforts in promoting a healthy, sustainable urban forestry program. EAC has been involved with numerous initiatives, such as river clean-ups, battery recycling programs, storm drain markers, and education campaigns.



## Energy

### **Municipal Electrical Aggregation Program**

Since August 2012, the City has implemented an electrical aggregation program. The program allows the City to buy electricity from suppliers other than ComEd by soliciting competitive bids from suppliers on behalf of the entire community. Since 2012, the City has received 100% renewable energy, from a supplier, for the entire community, and all Warrenville residents and small business are automatically enrolled into the program, unless they opt-out.



At the July 6, 2020, City Council meeting, Council approved a one-year agreement with renewable energy supplier Eligo, for electric aggregation while staff evaluate an alternative energy program. The alternative program included a rate match with ComEd, the option to elect 100% green energy, and an option to receive an annual civic contribution during the term of the agreement. This alternative energy program would not offer savings on the rate to the consumer, but it would remove the risk of paying more than the ComEd rate for supply.

In the fall of 2021, the City decided to continue its electric aggregation program with Eligo Energy, for a 12 month term, which ends in October 2022. With the program renewal, residents and small business owners are assured a rate match with ComEd and will continue to receive the benefit of 100% Green Renewable Energy. The current program uses renewable energy certificates. This means, some participants are supplied by Eligo, and others are supplied by ComEd, but all customers receive billing and service through ComEd and the net effect is identical for



all: same rate, no added fees, and 100% Renewable Energy Credits representing all power consumed within the program. Updates and further information on the aggregate program are provided on the city website under Utility information (<https://il-warrenville2.civicplus.com/431/Utilities>).

### **Solar Projects**

The City has two solar projects currently planned. One is at the proposed Well #13 site in TIF#4. Solar will be constructed as part of the iron filtration building, which will be the last component of that site to be constructed. Tentatively, staff anticipates the building to be constructed in calendar year 2025, though this schedule is dependent on the City acquiring the property first, which is taking longer than anticipated.

The other will be a follow-on project to the Trailhead Project. The Trailhead building will be constructed solar ready, with solar to be added as a separate project, because staff and the design team believe it will be more cost effective that way. With the Trailhead Project scheduled for construction in fall of 2022, a separate project to add solar could be completed in 2023, likely overlapping the FY 2023 and FY 2024 budgets. The Trailhead project was delayed by a year due to issues with a restrictive ComEd easement.

Additionally, the Public Works Department FY 2023 Work Program includes staff researching solar opportunities on other City facilities, and reporting back to City Council on the feasibility with cost / benefit information. The Public Works building, City Hall, and three of the four existing City well sites will be considered as part of that research. Physically constructing solar on any of those sites could be coordinated with new roofs and would be dependent on available funding at the time. Additionally, the structural integrity of each roof will need to be evaluated to determine if it can handle additional weight, without expensive reinforcement. Staff does not believe the remaining City sites are feasible for solar, due to lack of space or sunshine at the various sites.

### **Solar Powered Light for Signs**

The Public Works Department installed solar-powered lighting for specific signage, and will continue to do so, when applicable. Some examples include the City entrance signs (north and south Illinois Route 59), the Batavia Road and Williams Road pedestrian crossing signs, and the various school speed limit signs around the community. The Warrenville Police Department purchased solar-powered speed trailers, equipped with solar panels to supplement its energy usage.

### **Private Solar Permit and Development Prioritization**

In 2018, the City Council endorsed the prioritized review and processing of development applications that include solar installations. The policy statement is as follows, “In support of the goals of its 2015 Strategic Plan and 2016 Climate Action Plan, the City Council hereby directs the Community Development Department staff to allocate their time and direct their efforts in a manner whereby they prioritize the review and processing of those building permits and development applications that are most likely to result in the construction of solar installations in the City of Warrenville.”

### **SolSmart Designation**

In 2019, Community Development staff participated in a SolSmart permitting and inspection webinar designed to help local municipalities make solar energy production more affordable and accessible. Participation in the webinar earned the City 10 credits toward a Gold, Silver, or Bronze designation in the SolSmart Certification. Staff also participated in a SolSmart planning and zoning training session, that also earned the City 10 credits towards a designation in the SolSmart Certification. Warrenville received the Gold level designation.

## Community Development

### Citgo Remediation and Old Town Redevelopment Plan

In July of 2020, the City Council acquired the property formerly known as Pride/Phillips 66/Citgo gas station at 28W244 Warrenville Road. Professional services provided were due diligence site investigation, delivering a scope of hazardous materials and subsurface contamination on the property, and an estimate of cost and timeline to “clean up” the Property so it can support private mixed-use redevelopment and public open space/park use. The structures on the site were removed in 2021, with proper disposal of hazardous materials such as asbestos.



The City’s ultimate goal is to replace the contaminated and dilapidated gas station with uses that would enhance, rather than detract from, the character of the Old Town historical heart of the community and attract desirable private investment into the area. The contamination that has existed on the Site for more than 30 years must be properly remediated before it can be redeveloped. Updates on the redevelopment of this area can be reviewed on the City website.

### Building Code Updates

In 2017, the City of Warrenville adopted the 2015 International Building Codes published by the International Code Council (ICC), which includes updated provisions for renewable energy, including solar photo voltaic (SPV) and solar thermal systems (STS) which reduce overall energy consumption. The codes streamline and encourage the adoption of alternative energy usage. The 2015 codes also includes the Energy Conservation Code with Illinois amendments.

### Utilization of Natural Plantings

The City has promoted the use of natural plantings (plant species), along with rain gardens and bioswales, to help improve water quality, reduce runoff, beautify the community, and help local wildlife. The City’s Climate Action Plan promotes the planting of native trees, prairie plants, and grasses to promote biodiversity.

Three rain gardens are located along 2nd Street, near Leone Schmidt Park and the Warrenville Historical Society City Museum.



## Public Works

### Lighting Upgrades

The City began upgrading street lighting to LED in 2007.

In 2010, grant funding was received to retrofit approximately 144 florescent lights to T-8 lights at the Public Works Building and Community Development Department at City Hall. T-8 lights use approximately 35% less energy than standard fluorescent lights.

The same grant funding also paid for the upgrading of 39 high-bay light fixtures in the Public Works garage area to more efficient fluorescent fixtures.



### Public Works Exterior Building and Parking LED Lighting

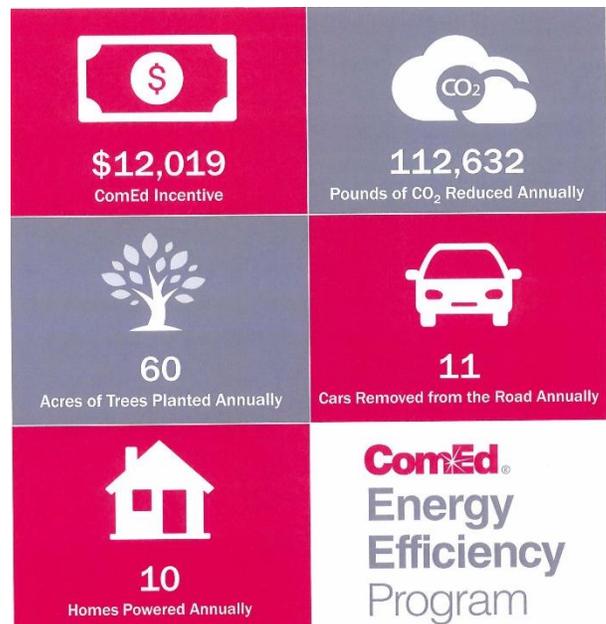
Beginning in fiscal year 2019, and as the fixtures become deficient, the conversion of additional exterior and parking lot lighting will be converted to LED.

### 2019 LED Street lights Upgrade Project

In 2019, Street Division staff participated in the ComEd Energy Efficiency Program. This involved retrofitting 89 existing decorative streetlights with energy and cost efficient LED lamps. The new retrofits use 78% less energy and save the City money in electricity costs. The City received a reimbursement incentive from ComEd.

In addition to this project, 240 LED street light installations were completed with ComEd incentives applied at point of sale. The energy savings were so significant that ComEd sent a crew to investigate why!

According to the City's Geographic Information System (GIS) inventory of city-owned street lights, over 900 street lights are equipped with LED lights since the 2019 project began, over three-quarters of the City's total inventory. Current practice when a City street light becomes inoperable, is to upgrade it to an LED fixture. Also, new street lights installed by the City and developers, are equipped with LED fixtures. As future grant funding becomes available, the City will determine if additional street lights can be upgraded to LED fixtures.



The new LED lights require less power to run, which overtime results in a savings to the City. For instance, the cost to buy and install the new light fixtures in Cantera Village was paid off in about two years. The new light bulbs cost about \$7 each in comparison to the old lights that were \$150 when purchased. Along with cost and energy savings, the new efficient light fixtures are more durable, and should last longer.



Pictured above, from left to right, is an old street light taken into the Public Works Garage to be retrofitted. The structures are cleaned (second from left) and repainted, and then are retrofitted with an LED bulb (far right).

### **Mosquito Larvicide Program**

The City ceased a mosquito abatement program in 2000, following an advisory referendum on raising property taxes to pay for the spraying. City also was responding to some residential concerns about the potential health risks posed by the chemicals that are used during the spraying process. Further, the effectiveness of spraying pesticides is very limited since Warrenville is surrounded by very large open spaces, including several forest preserves and Fermi lab. In 2018 the City began a city-wide larviciding program in the summer of 2018. The program involved larviciding catch basins in the public right of way.

Public Works staff continue to stay informed on abatement best practices recommended by industry professionals, as well as provide education on what residents can do to reduce breeding sites on personal property through articles in Hometown Happenings, as well as posting resources on the City website.

### **Herbicide Application Reduction**

In 2003, the City decided to stop using herbicide (weed killers) on City-owned properties. An exception is made when specific applications are needed to kill invasive weeds prior to the installation of new natural plants, rain gardens, or other natural features. The reduction in herbicide usage creates cleaner air, reduces water pollution and benefits wildlife. It also creates child safe parks and public grounds for the community to enjoy.

### **Permeable Pavers**

In 2007, the City installed permeable pavers along a one mile section of Warrenville Road, between Butterfield and Batavia Roads in order to direct rainfall away from storm sewer systems and back into the natural ecosystem. Unfortunately, the Warrenville Road permeable paver system did not function as originally presented due to the compaction of the underlying supporting layers beneath the pavers, causing drainage and ponding issues, and was resurfaced in 2019.



The project also included permeable paver parking along Warrenville Road. Utilizing permeable pavers for parking, has been an effective utilization of the permeable paver system for the City. In summer 2018, the City completed the conversion of parking along Warren Avenue, in proximity of the Police Station, from asphalt to permeable paver parking.

## Facilities

### **HVAC and Building Equipment Installations**

In 2020 and 2021, the Facility Maintenance Supervisor coordinated several HVAC and equipment installations, which improve energy efficiency of City buildings.

In the winter of 2020, a makeup air system was installed in the Public Works garage. Installation of this system was covered by CARES Act money.

In the spring of 2021, a high efficiency HVAC system was installed at the Police Station, replacing a 20 year old system, and in the fall, an HVAC installation for the City Hall A/V room was completed. Programmable thermostats were installed in the City Hall, Police Station, and Public Works Buildings, and allow the City to reduce energy usage during non-work hours. Purchases also included high-efficiency water heaters at Cerny Park, City Hall, the Public Works Building, and Police Station. The new units circulate fresh air needed to control the room temperature and prevent equipment from overheating, and in general improve climate control for staff work environments. Updating and maintaining an HVAC system minimizes energy usage, and reduces the building's overall carbon footprint.



Other upgrades from prior years the installation of energy-efficient insulation at Cerny Park and the Police Station, and a cool (white membrane) roof at the Police Station (completed in 2017). According to the US Department of Energy, “A cool roof is one that has been designed to reflect more sunlight and absorb less heat than a standard roof.” (<https://www.energy.gov/energysaver/energy-efficient-home-design/cool-roofs>).

### **Energy Audits of City Buildings**

Energy audits were conducted for the City Hall, Police Station, and Public Works Building by the Smart Energy Design Assistance Center (SEDAC) in conjunction with City staff. The audits measure current energy usage in each building, identify possible energy reduction measures and provide rough cost estimates to implement the reduction measures. According to the audit results, all three of the City's buildings were more energy efficient than other municipal buildings of comparable design. The majority of the audit recommendations, for all three buildings, involved continued lighting upgrades.

### **Energy Efficient Appliances and Equipment**

As a policy, the City prioritizes purchase of items bearing the *Energy Star* Certification, which indicates that equipment reduces greenhouse gas emissions through efficient energy usage (<https://www.energystar.gov/products/how-product-earns-energy-star-label>). Recent purchases have included energy efficient copiers and technology. The City has also moved away from purchasing equipment powered by two-stroke, gasoline engines, including snow throwers and weed trimmers. According to the Environmental Protection Agency (EPA), "A typical string-trimmer is powered by a two-stroke gasoline engine that has a hydrocarbon (HC) emission rate approximately six times that of the typical four-stroke mower engine." (<https://nepis.epa.gov/Exe/ZyPURL.cgi?Dockkey=P100GDP7.TXT>).

### **Interior and Exterior LED Lighting in City Buildings**

The City has prioritized retrofitting high-wattage lighting to energy efficient LED lighting. Interior lighting projects completed to date include the upgrades of the vehicle storage and salt shed areas at the Public Works Building, the records office and the sergeant/detective areas at the Police Station, Warrenville City Museum, and the Gallery Conference Room at City Hall. Additional exterior lighting projects to reduce energy usage include upgrades at Cerny Park, Veterans Memorial, Bob Walters Commons, City Gazebo, Warrenville City Museum, Public Works Building, and City Hall.



### **Occupancy Sensors**

Occupancy sensors have been installed in City Hall, Police Station, and Public Works building. The sensors save electricity by turning off lighting in unoccupied areas of the building. In 2010, grant funding was received for the installation of the sensors in the Public Works Building and Community Development Department (City Hall).

## Trees

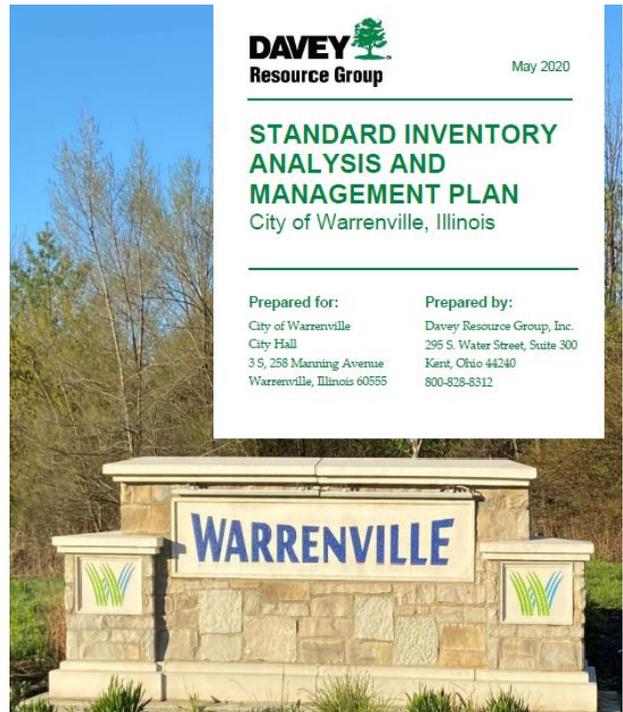
### Tree Management Plan

Davey Resource Group completed a Tree Inventory and Management Plan for the City, which includes a recommended 5-year budget. The inventory is in the City's GIS and staff is currently working with its GIS consultant to make the inventory map available on the City's website, with other GIS maps.

Staff is in the process of evaluating the recommended 5-year budget. One recommendation in the plan was to conduct routine pruning, to help keep trees healthy and limit instances of risk or need to do emergency maintenance. In the winter of 2021 to 2022, staff pruned as many City trees as possible, to evaluate whether annual pruning of 20% of the City trees is something staff should take on, or if the City should contract out that important task. The City already contracts for the trees along Route 56 to be pruned, because of the complexity of performing this work in a busy IDOT right-of-way. Staff anticipates those trees will still be pruned by a contractor.

The 5-year budget prepared by Davey includes some annual tree planting. Under the City's current tree planting program, the resident can purchase a tree, the City has it planted, and the resident cares for it, which mainly involves watering. At this point, staff is not prepared to implement a new tree planting program. Currently, there is no dedicated source of funding or an organized plan for planting new trees.

The City does not automatically replace existing trees when they are removed. There is currently no funding or program in place to have staff plant and care for newly planted trees. Staff will include evaluation of a management plan for the City's existing trees and evaluation of the City's existing tree planting program in the Public Works Department FY 2023 Work Program. The intent is to present options to City Council for a tree planting program. The options will include City costs and impact on staff time, for Council consideration. Tree removals, new trees, and tree pruning will be regularly updated in the inventory. Public Works staff will work with the City's GIS Technician to verify it is being done correctly.



## Tree Planting

In the fall of 2021, the City participated in Morton Arboretum's "Plant Trees for Communities" campaign. The campaign asked all 340 communities in the seven county Chicago region to plant one tree in 2021. Warrenville's tree was planted in the right of way on the west side of Warren Avenue in between the Police Department and Park District.

The City maintains a Parkway Tree Program, which gives residents the opportunity to purchase a parkway tree as part of its commitment to reforestation in Warrenville.



Also, in the past ash trees in the City's right of way, which are damaged by the Emerald Ash Borer, were replaced, free of charge, for residents.

The City of Warrenville is designated as a Tree City USA by the Arbor Day Foundation and has held that designation for the past 35 years, since 1986. The certification provides recognition of the City's efforts in promoting a healthy, sustainable urban forestry program.



## Water

### **Efforts to Reduce Usage in City Buildings**

The City has continued to reduce water usage across the entire organization. Public Works staff have installed low-flow plumbing fixtures and faucet sensors in restrooms in Public Works, City Hall, and the Police Station. The City has also installed a water bottle filling station, at the Public Works Building, to help reduce water usage and waste from discarded plastic bottles.

### **Water Ambassador Program**

As mentioned in emerging projects, the ISAWWA Water Ambassador Program is an initiative created to elevate public perception, knowledge, and consumer education of the water industry. In the spring of 2022, the Utility Division began to participate in the program.

### **Inflow and Infiltration (I/I) Program**

Storm water entering the sanitary sewer system during heavy rainstorms could cause sewer backups. In addition, storm water entering our sanitary sewer that should be going to the storm sewer ends up costing all residents more money because the City pays Naperville for the treatment of that water that would otherwise be untreated. There are many ways in which rainwater enters the sanitary sewer system, including: directly – by connections from sump pumps, downspouts, and area drains (inflow) – and indirectly – by cracks and failures of the sewer pipes (infiltration).

To help identify the sources of rainwater inflow and infiltration (I/I), the City sometimes uses an investigation program using smoke testing of the sanitary sewer system.



## Hydrant Flushing

Twice a year, in the spring and fall, Utility Division staff flush all city fire hydrants (just over 1,000), as a part of their routine maintenance, to ensure quality of water.



## Transportation

### Bikeway Implementation Plan

In 2009, a Bikeway Implementation Plan (BIP) was developed as a guide to direct development of pathways for bicyclists, and pedestrians, in increase the number of routes and safety to commute about and through the city using alternate means aside from vehicles, and to overall encourage recreation on the local trail system. Staff plan to provide a status update report in the fall of 2022.

### Complete Streets Implementation Plan

City Council adopted a Complete Streets Policy in November 2019. Complete Streets are defined as a safe, connected, comfortable, accessible, and inclusive network of transportation infrastructure that supports people walking, bicycling, driving, delivering goods, services, people using transit, emergency responders, and equestrians.

The follow up implementation steps for the policy are:

- The City will develop a methodology to review projects for the inclusion of Complete Streets elements, and use this information to inform existing or revised project scoping.

- The City will develop a methodology to receive and document resident requests for the inclusion of Complete Streets elements into future transportation projects where a project scope has not been defined.
- The City will develop methods and a policy for ranking of potential projects.
- The City will develop a Performance Measures process, including report template, to report progress on implementation of the policy.
- The City will prepare an annual report for the City Council and provide a copy to the Bicyclist and Pedestrian Advisory Commission on Performance Measures and the development or revision of Project Selection Criteria.
- The City will develop a long-term funding policy and funding source that supports the design and construction of new complete streets projects, and the long-term maintenance and replacement of the same improvements. The policy and funding levels will be based on the Warrenville Complete Streets Policy Cost Estimate Scenario Planning memo dated November 1, 2019.  
(Go to, <https://www.warrenville.il.us/agendacenter>; view the Community Development Committee of the Whole Meeting agenda dated November 11, 2019).

Incorporating these elements into projects is often expensive, so the biggest key to moving forward is identifying a source and amount of City funding for the implementation. Even when grants are available, nearly all of them require a City contribution of at least 20% of the various phases of engineering and construction.

## Waste Reduction

The City reduces waste and recycles as much as possible. Comprehensive residential solid waste, recycling, and yard waste pickup is provided by Waste Management under the City's franchise agreement.

### **Prescription Drug Recycling Drop Box**

In 2017, the Police Station installed a prescription drug recycling box in the lobby. The box was provided by a grant from the DuPage Foundation and residents may place unwanted medications in the drop box during regular lobby hours.

### **Public Recycling Events**

The Police Department holds a yearly shredding event every May. In 2018, electronics recycling was added as an additional service. The event gives residents the opportunity to recycle items such as computers, modems, routers and office equipment, among other things

## Enterprise Resource Planning (ERP) Program

In 2019, the City began the implementation of an Enterprise Resource Planning (ERP) program. Many processes will become electronic, decreasing the amount of printing, paper, and storage space required by City staff. Processes include permits and licenses, utility billing, payroll, and work orders.



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[Sign-In](#)

## Battery Recycling

In 2011, the City's Environmental Advisory Commission began a battery recycling program, allowing the public to recycle dry-cell type batteries at drop-off boxes located at City Hall. The batteries are disposed of in an environmentally friendly manner, preventing harmful chemicals contained in batteries from polluting the areas around garbage and landfill sites.

**As of December 31<sup>st</sup> 2021, the program had collected and recycled 7,570 pounds of batteries. Over the course of 11-years, this is an average of 688 pounds of batteries recycled per year.**



TOTALS POUNDS OF BATTERIES RECYCLED									
YEAR	Battery Type								Total Lbs
	Alkaline	Ni Cd	Ni MH	Lead	Li Ion	Lithium	eScrap	Other	
2021	630	28	18	9	23	44	1	1	754
2020	507	24	15	29	21	38	2	0	636
2019	964	42	30	39	43	72	4	1	1195
2018	752	27	25	6	24	46	2	2	884
2017	742	23	18	2	23	34	4	0	846
2016	352	29	15	83	33	30	4	1	547
2015	Data not available								630
2014	Data not available								338
2013	Data not available								850
2012	Data not available								450
2011	Data not available								440
Total									7,570
Average									688

### **Salt Reduction Measures**

The Public Works staff implements various practices to reduce the amount of salt used during inclement weather events. Practices to minimize use include: crews primarily responding at the conclusion of an inclement weather event, and utilizing a mix of beet juice and salt brine, to pre-wet the road salt, which helps reduce the volume of salt required to put down on the road. Staff regularly attend an annual deicing workshop that is hosted by the DuPage County. The annual workshop covers approaches and methods for deicing and snow removal on public roads, with the intent to reduce the amount of salt that makes it into area streams and rivers, to improve water quality.



*Updated June 2022*

