

AGENDA
GREENHOUSE GAS WORKING GROUP
February 23, 2022
3:30 P.M.
Remote Meeting via Zoom

Please click the link below to join the webinar:

<https://deerfieldil.zoom.us/j/83403231653?pwd=aU9WOWJ2R2JXeUpqeEx2OERmQW92Zz09>

Passcode: hq=yPj.3

Or Telephone:

US: (312) 626-6799

Webinar ID: 834 0323 1653

Passcode: 88147315

1. Call to Order
2. Roll Call
3. Consideration and Approval of the February 9, 2022 Meeting Minutes
4. Public Comment

Village residents wishing to respectfully share thoughts about any matter concerning the Village may do so by submitting an email to ghgcomment@deerfield.il.us prior to the meeting. Emails received will be read aloud during Public Comment. Any e-mails received during the meeting will be read during the second public comment before the end of the meeting. We ask that you keep your emailed response to under 200 words to allow time for others to be heard and for the Commission to progress through the public meeting agenda. In addition, members of the public may provide oral comments by telephone or web-based video conference during all meetings of the Commission during the time designated for public comment provided that such comments do not exceed three minutes in duration. The Commission typically does not immediately respond to public comments or engage in open dialogue, but we are of course actively listening to your comments.

At least one representative from the Commission will be present at Village Hall and the virtual meeting will be simulcast at Village Hall for members of the public who do not wish to view the virtual meeting from another location. The opportunity to view the virtual meeting at Village Hall is available on a “first come, first-served” basis due to limited capacity.

5. Discussion of Possible Policies, Programs and Resources
 - Focus Area:
 - i. Transportation Review and Wrap-Up
 - ii. Ecosystem Introduction
6. Other Items for Discussion

7. Public Comment

8. Upcoming Meeting Dates – WED March 9

**Greenhouse Gas Reduction Ad Hoc Working Group
Meeting Minutes
February 9, 2022**

A meeting of the Greenhouse Gas Reduction Ad Hoc Working Group was held on Wednesday, February 9, 2022 via Zoom. Chairperson Mary Oppenheim called the meeting to order at 3:00 pm.

Present:

Trustee Mary Oppenheim, Chairperson
Don Anderson, Sustainability Commission Chairperson
Camilla Dadey, Go Green Deerfield
Elaine Jacoby, Village Trustee
Victoria Street, Executive Director, DBR Chamber of Commerce
Art Wilde, Go Green Deerfield

Absent:

Bill Mertes, Sustainability Commission

Also Present:

Dan Nakahara, Village Planner
Robert Phillips, Director of Public Works and Engineering
Andrew Lichterman, Assistant Village Manager / Director of Community Development
Clint Case, Building and Code Enforcement Supervisor

Document Approval

Commissioner Wilde moved to approve the minutes from the January 26, 2022 Greenhouse Gas Working Group meeting. Commissioner Dadey seconded the motion. The minutes were approved unanimously.

Public Comment

There were no Public Comments received via Zoom or email or in person.

Business

Discussion of Possible Policies, Programs and Resources –

1. Focus Area: Waste Wrap-Up

Ch. Oppenheim summarized the waste discussion from the last meeting. She noted there was consensus to reduce our waste footprint by two-thirds by 2030. She noted that while the Village is implementing most of SWALCO's recommendations and are ahead of many communities, we see a need to increase both the recycling and composting rate, especially in the commercial sector. We are working to obtain additional information regarding the largest waste producers and a survey of which businesses are recycling, which are not and why. In addition to education

campaigns, we discussed if there are ways to offer stronger financial incentives to encourage businesses to recycle. The group supported the idea of creating a business recycling recognition program and hosting business-to-business recycling and food scrap forums. There was support for providing another round of free compost kits to residents and to include composting at public events such as the farmers market and Harvestfest. There was support for exploring doorhangers as a way to encourage residents to use the compost bin. There was no support for restricting the use of plastic bags or single-use plastic containers at this time. Staff will continue to monitor and evaluate the construction and demolition recycling ordinance as construction codes and standards change overtime.

Ch. Oppenheim asked if there are other items to include in the recap. Commissioner Wilde noted it was a complete summary but suggested that the group revisit the issue of plastic waste since plastic film is a major landfill contributor. He inquired how we could reduce plastic film and suggested that one day we could possibly have a curbside option to manage that waste stream. Commissioner Dadey noted that SWALCO has signed onto the U.S. Plastic Pact. The Pact identifies specific plastic materials such as straws, stirrers, cutlery and other plastic packaging that industry leaders and material manufacturers are working collaboratively to eliminate from production. These efforts help support the circular economy.

In response to a question from last meeting, Mr. Lichterman reported that the waste hauler indicated that grocery stores are the largest waste producers. Additionally, he noted there were questions about the Village's construction and demolition recycling debris ordinance and confirmed that 75% of the construction debris from any structure 1,500 square feet or larger must be diverted from the landfill, per the ordinance. Mr. Case confirmed that the ordinance is comprehensive, effective and adequate.

Mr. Wilde suggested that variable rate pricing or "pay-as-you-throw" is another waste concept that could serve to incentive the correct behavior and financially incentive people to recycle and compost. The idea is to structure the residential and commercial solid waste contracts to economically advantage recycling and composting. Mr. Lichterman noted that setting up the financial incentives to reward recycling and composting is a great concept but that the "pay-as-you-throw" concept may not be the correct path to achieve that outcome. In recent conversations with SWALCO it has been found that that type of program can also lead to increased contamination since users may choose to place refuse into a recycling bin in order to avoid the fee. For that reason, SWALCO no longer pushes that program as strongly as they used to. Mr. Wilde noted that is a great experience to learn from so we should continue to learn from examples from around the country to establish the correct pricing structure and program to incentivize the behavior change that is most sustainable.

Ch. Oppenheim noted there is a need for large education campaign related to the business community. Commissioner Street noted that one of the challenges with the businesses is that the landlord is the manager of the garbage. The tenants may not even know that recycling is available and they don't pay the solid waste cost because it is built into their rent. This requires a lot of education and there are multiple audiences to reach. She noted sometimes it's the cleaning

service that needs to be educated. Commissioner Street noted that the hotels are a whole separate category and often they do not have recycling in the rooms.

Commissioner Dadey reported that grocery stores often donate large amounts of food and use that as a means of diverting waste from the landfill. She also noted that there could be a fee on certain plastic items at grocery stores such as single use plastic bags or produce bags that could easily be replaced with BPI certified compostable bags. Mr. Wilde noted that some municipalities have fees that can be returned back to the business to support the costs associated with transitioning to a more sustainable option. Commissioner Dadey noted the fee is not to punish the retailer; it is to change the behavior of the consumer. Commissioner Anderson noted that if there is a fee on plastic items such as a single-use bag at a grocery store some consumers will drive to a surrounding town to do their shopping to avoid the fee. Ch. Oppenheim noted that ideally this is something we would do in partnership with other communities and this is something we should keep on our list as we investigate the potential partnership with neighboring municipalities.

Mr. Phillips noted the amount of junk he receives in the mail and all the waste that it generates. Commissioner Dadey noted the FTC has a phone number that people can call to opt-out of junk mail.

2. Focus Area: Transportation Introduction

Ch. Oppenheim asked Mr. Lichterman to summarize the background information provided in the packet on transportation. Mr. Lichterman summarized the materials noting that transportation accounts for 11% of the overall carbon footprint and that it is suggested try and reduce that by half by 2030 to achieve our overall carbon reduction goal. Additionally, the Village sells approximately 11,000 vehicle stickers annually and about 200 of those vehicles are fully electric. The Village's fleet is roughly 50 vehicles and staff is suggesting a goal of converting 30% of the fleet to electric by 2030 and 90% of the fleet to electric by 2050. The Village would start with converting the administrative vehicles because the technology is not reliable yet to convert heavy equipment or police squad cars to fully electric. Relatedly, the Village would endeavor to install at least one public EV charging station and one or two charging stations for the municipal fleet.

Mr. Nakahara summarized the planning initiatives related to transportation and discussed the Village's efforts to adopt and enforce land-use policies that reduce sprawl, preserve open space, and create compact, walkable urban communities. The Village also has policies that promote transportation options such as bicycle trails, commuter rail and bus service. The Comprehensive Plan also includes a section that specifically promotes all relevant modes of transportation, which results in better planning and development. Mr. Nakahara specifically noted the advantageous associated with creating Planned Unit Developments that increase circulation and allows for developments to be constructed in a way that uses complement each other and so that the site plan can be laid out in the safest and most efficient way to move people and vehicles through the site. The PUD concept allows for shared access, shared working and results in more open space. The Village encourages Transit Oriented Development and we require bike storage in all new residential developments.

Mr. Wilde inquired about how we can incentive walking or biking rather than driving to a location and how we can make those benefits clear. He noted Chicago has enhanced their bike lanes with green paint down the center of the road.

Mr. Nakahara noted that the Village has a plan for the Northwest Quadrant that is designed to increase pedestrian connectivity and welcome people to our town that get off the train. Ch. Oppenheim noted that some of the arterial roadways that you might want to see a bike lane on are not our jurisdiction such as Lake Cook Road, Deerfield Road and Waukegan Road. Mr. Phillips concurred with that observation and noted that we have explored the addition of bike lanes at some of these locations and often the roadways are found not to be wide enough to meet federal standards for incorporating bike lanes.

Mr. Phillips discussed the Village's efforts to connect sidewalks and widen sidewalks and often times neighborhoods do not want the installation of new sidewalks because it can change the character of the neighborhood and cause trees to be removed. Mr. Phillips noted that we have a dedicated sidewalk improvement project in addition to the sidewalks that get reconstructed during capital improvement projects. He noted that over the past 10 years the Village has installed 711,000 square feet of sidewalk at a cost of \$4.2 million. This is equivalent to a 5-foot sidewalk stretching for 5.4 miles.

Mr. Phillips also reviewed various funding sources that are used to assist the Village with intermodal transportation projects and other improvements to mitigate traffic congestion. Some key transportation projects that leveraged federal funds include the construction of the Deerfield Road underpass, reconstruction of Deerfield Road and various traffic signal optimization projects. Mr. Phillips also inquired about the school bus transportation companies and how that service can be made more efficient.

Ch. Oppenheim noted that some of this is policy related but a lot of this is culture based and requires large amounts of education. Commissioner Anderson concurred with that assessment and noted that he observes the Pace buses operating in town are often empty. Mr. Lichterman noted that the Pace bus routes do indeed struggle to meet minimum ridership, particularly the 626 route; however, the shuttle bus that services the corporate campuses has been very successful.

Mr. Wilde believes there are things we can influence related to convenience. For example, giving electric vehicles the best parking spaces in a shopping mall are ways we can signal to the community that we value EVs and that can help change people's behavior. Additionally, Mr. Wilde discussed the vehicle sticker program may be another way to reward the use of EVs. Commissioner Dadey noted that many people are driving gas powered vehicles not because they want to but rather because they cannot afford to purchase an electric vehicle.

Mr. Nakahara suggested that the Village could incentive EV charging stations by amending our Zoning Ordinance to allow the stations to be installed as a permitted use, whereas currently they would require special use approval.

Commissioner Anderson reported that a number of years ago the Sustainability Commission evaluated the installation of EV charging stations but there were equity issues since the Village was going to pay for the station but the Commission found the station was going to be utilized by non-residents. Mr. Anderson also noted that implementing a pricing differential on the vehicle stickers for EV versus gas powered vehicles effectively results in residents subsidizing someone that has purchased a \$100,000 Tesla and that is not good optics. He thinks there are better programs and symbols that we can find to support EVs.

Ch. Oppenheim noted there are many good ideas and initiatives included in the GRC2 plan and asked how we can quantify the data. Mr. Lichterman confirmed that many of the programs such as converting gas powered vehicles to electric vehicles can be measured.

Ch. Oppenheim noted that we will capture these ideas on the working document and that we will begin discussing the ecosystem focus area at the next meeting.

Public Comment

Mr. Lichterman read an email submitted by George McClintick. Mr. McClintick's email discussed the C-Pace program which offers Lake County commercial property owners clean energy financing programs and resources. It was noted that Lake County will be hosting a webinar about the program on February 13.

Mr. Lichterman noted that the Village would promote the upcoming webinar in our e-newsletter.

Adjournment

There being no further business or discussion, Trustee Wilde moved to adjourn the meeting. Commissioner Dadey seconded the motion. The motion was approved unanimously.

The meeting was adjourned at 4:51 pm.

Respectfully submitted,

Andrew Lichterman

Assistant Village Manager / Director of Community Development

Overall Goal

Reduce GHG Emissions 45% by 2030

100% Carbon Neutral by 2050

Energy, Waste, Transportation

Source	MTCO2 2017	Percent	2030	2050
Scope 1 (In Boundary)				
Natural Gas	60,185	14%		14%
Transportation	45,750	11%	6%	5%
Scope 2 (Out of Boundary)				
Electricity	153,097	35%	35%	
Municipal Energy	2,184	1%	1%	
Scope 3 (Purchases: Goods & Services)				
Goods/ Services*	117,000	27%		27%
Food	42,185	10%		10%
Waste	11,581	3%	2%	1%
Total	431,982	100%	45%	55%

Possible solution toward 45% Goal:

- Convert 100% of Electricity to renewable sources by 2030.
- Reduce Waste by two-thirds by 2030
- Reduce Transportation by over 50%

Transportation

Deerfield's Current Municipal Fleet - 55 Vehicles:

- 30% Administrative Vehicles (Cars, Vans, Pickup Trucks) – EV models currently available
- 70% Heavy/Specialty (Police, Utility) – EV models not currently available

Goal:

- Convert all administrative vehicles (30% of fleet) to zero emissions by 2030
 - Estimated annual tailpipe emissions reduction: 44.8 metric tons (16 vehicles at 2.8 metric tons)
- Convert 90% of fleet to zero emissions by 2050

Source: [EPA](#)

2021 residential vehicle permits: 11,232 (roughly 200 EV's)

Estimated 2021 tailpipe GHG emissions: 50,747 metric tons (4.6 metric tons/vehicle)

Source: [EPA](#)

Transportation

Goal: Encourage adoption of EV's through improvement of charging infrastructure

- Add municipal Level 2* charging stations at three locations:

- Village Hall
- Public Works Facility
- Public Lot (TBD)

- Encourage the installation of charging stations in commercial locations

- Volta
- Chargepoint



- Adopt building codes that facilitate EV charging

- Amend Zoning Ordinance to allow EV charging as permitted use in PUDs and certain zoning districts
- Require/encourage level 2 charging to be available in all new multi-residence buildings

**Level 2 chargers deliver 6.2 to 7.6 kW – roughly 30miles of driving range/hour of charging*

Ecosystem

- **Land**
 - Impervious surfaces, open space, etc.
- **Water**
 - Potable Water
 - Stormwater
 - Wastewater
- **Trees**
 - Air quality
 - Carbon sequestration
- **Other?**

2020 Baseline

Source: Chicago Region Tree Initiative / Pale Blue Dot Consulting / EPA.gov

Tree Canopy Acreage:	1421
% village-wide ground cover	40%
Estimated annual carbon sequestration (Mt per year)	6,313
Economic value trees provide the municipality	\$572,600
Carbon storage value	\$3,452,100
Grass/Vegetation Acreage:	995
% village-wide ground cover	28%
Estimated annual carbon sequestration (Mt per year)	730
This area is primarily composed of turf grass, exotic invasives, and cultivars	-----
Gasoline powered lawn equipment (GLGE):	995
% village-wide ground cover	28%
Estimated village-wide carbon emissions from GLGE lawn equipment (Mt per year) Source: (epa.gov, Cincy)	431.38
Impervious Surface Acreage	1,066
% village-wide ground cover	30%
Estimated Heat Island Contribution: 3.85 F	3.85 degrees F

Ecosystem Grounding

- Green Infrastructure strategies use trees, vegetation, soils, and natural processes to mimic natural hydrological functions.
- This provides habitats for flora and fauna, air pollutant filtration, flood reduction, and groundwater recharge functions.



Possible Solutions Toward GHG Reduction Goals

- Increase tree canopy diversity & quality 12%
- Increase green infrastructure 25%
 - (native vegetation, reduce turf grass, bioswales, rain gardens)
- Reduce gasoline powered lawn equipment 25%
- Reduce heat island effect 2%

8. SUSTAIN ECOSYSTEMS TO SEQUESTER CARBON

Strategy	Municipal Role	Solution Status	GHG Reduction Potential	Cost	Effort Required	Lead Partners & Resources	Achieve Equity	Outcomes (Co-benefits)
a	Grow and manage public landscapes to optimize ecosystem services and support biodiversity. 	Proven	Sequestration	\$\$	High	IDNR, forest preserve & park districts, property owners, businesses, institutions, nonprofits, MWRD	Maintain accessible open space to invite safe and healthful activity.	Stormwater managed sustainably; pollinator and wildlife habitat supported; quality open space encourages active transportation and lifestyles
b	Encourage property owners to install and maintain sustainable and native landscapes. 	Proven		\$	Med	Constituents, property owners, park districts, IDOT	Sustain tree canopy and gardens for desired cooling benefits in vulnerable communities.	
c	Plant trees and sustain the urban forest. 	Proven		\$	Med			
d	Encourage citizen tree stewardship. 	Proven		c	Med	Nonprofits, public gardens, MWRD, POTW, compost industry	Improved air quality; cooling shade mitigates heat islands; reduced cooling energy demands; enhanced livability	
e	Preserve soil through low-impact development and restore soil integrity. 	Aspirational		\$\$\$	High	Developers, counties, MWRD, POTW, compost industry	Remediate contaminated soils and restore nature to sites in vulnerable communities.	Clean water; healthy ecosystems

7. MANAGE WATER AND WASTE SUSTAINABLY

	Strategy	Municipal Role	Solution Status	GHG Reduction Potential	Cost	Effort Required	Lead Partners & Resources	Achieve Equity	Outcomes (Co-benefits)
a	Capture landfill emissions and eliminate pipeline methane emissions.	 ENCOURAGE	Proven	Medium	\$\$	Med High	Landfill operators, clean energy industry	Reduce exposure of vulnerable residents. Site landfills and waste operations to avoid harm to low-income and communities of color.	Reduced methane gas emissions
b	Capture and convert wastewater biogas to energy.	  LEAD ENCOURAGE	Proven	Medium	\$\$\$	High	MWRD, POTW		Displacement of fossil fuels
c	Increase composting and biological treatment of waste. Utilize compost and biosolids in landscapes.	  LEAD ENCOURAGE	Proven	Low	\$\$\$	High	SWAs, waste industry		Expanded recycling and organic waste industries; value from waste captured
d	Support circular economies.	 ENCOURAGE	Evolving	Combined High	\$\$	High	Economic development organizations, businesses, waste industry	Reduce exposure to litter and illegal dumping. Site landfills and waste operations to avoid harm to low-income and communities of color.	Reduced embedded energy from production, transport, and disposal of materials; reduced persistent waste like plastic; value from waste stream and operations captured; household budgets stretched through smart purchasing
e	Increase the volume of waste that is recycled and composted.	 ENCOURAGE	Contingent		\$\$\$	Med	Constituents, employers, local businesses, institutions, waste industry		
f	Reduce energy needed to deliver safe drinking water and shift operations to clean energy sources.	 LEAD	Proven	Low	\$\$	High	Water supply industry	Eliminate lead pipes. Provide access to safe, clean, and affordable water to all.	Modern, resilient, and efficient water utilities
g	Reduce energy needed to manage wastewater and shift operation to clean energy sources.	 LEAD	Proven	Low	\$\$	High	Utilities, POTW	Provide access to safe, clean and affordable water utilities to all.	
h	Encourage water conservation.	 ENCOURAGE	Proven	Low	\$	Low	Nonprofits, water utilities	Reduce water burden.	Conserve water supply

1. ENGAGE AND EDUCATE THE COMMUNITY ABOUT CLIMATE RESILIENCE AND ADAPTATION

		Overarching resilience	Heat & Health	Flooding & Homes	Stormwater & Infrastructure	Flooding & Transport	Drought & Water	Air Pollution & Health	Municipal Role	Solution Status	Cost	Effort Required	Lead Partners & Resources	Outcomes (Co-benefits)
a	Inform the community about changing weather hazards and risks. Encourage preparation.	x	x	x				x	 ENCOURAGE	Proven	¢	Low	NOAA, GLISA, IEMA, State Climatologist, StR, BRACE, DRSC, APWA, stormwater agencies	Prepared and engaged constituents; community cohesion; positive health outcomes; private assets preserved; safe and healthy constituents
b	Engage the community about services that support health and wellness.		x					x	 ENCOURAGE	Proven	\$	Med	Public health agencies, hospitals, BRACE	
c	Encourage families to prepare an emergency response plan.	x	x	x					 ENCOURAGE	Proven	¢	Med	IEMA, Ready.gov	
d	Foster community spirit to recover, adapt and “bounce forward” from disaster.	x	x	x	x	x			 ENCOURAGE	Proven	¢	Med-High	Constituents, CBO, FBO	
e	Educate the community about air pollution action days and maintaining healthy indoor air quality.							x	 LEAD	Proven	¢	Low	IEPA, IDPH, U.S. EPA	
f	Engage residents and businesses in conserving water.							x	 ENCOURAGE	Proven	\$	Low	AWWA, JAWA, U.S. EPA Water Sense, CMAP, IISG	Reduced water costs, water supply conserved
g	Promote green infrastructure practices.			x				x	 ENCOURAGE	Proven	\$	Med-High	U.S. EPA Water Quality scorecard, IISG, CNT, stormwater agencies, nonprofits	Reduced energy use for processing stormwater, assets preserved, safe and healthy constituents
h	Encourage residents and businesses to disconnect downspouts from sewers.				x				 ENCOURAGE	Proven	\$	Med	Stormwater agencies, POTW	
i	Promote IDPH standards for post-flood clean up.			x				x	 ENCOURAGE	Proven	¢	Low	IDPH	
j	Support and incentivize overhead sewer conversion in basements.			x					 LEAD	Proven	\$\$	Med-High	MWRD, POTW	

2. INCORPORATE EQUITY AND INCLUSION INTO CLIMATE ADAPTATION EFFORTS

		Overarching resilience	Heat & Health	Flooding & Homes	Stormwater & Infrastructure	Flooding & Transport	Drought & Water	Air Pollution & Health	Municipal Role	Solution Status	Cost	Effort Required	Lead Partners & Resources	Outcomes (Co-benefits)
a	Collaborate to ensure residents most vulnerable to heat, air pollution and flooding are connected to relief services.	x	x	x		x	x	x		Proven	\$	Med	CAA, BRACE, public health organizations, CBO, FBO, IEMA	Health & well-being of most vulnerable residents protected; equitable access to health, services, and opportunity; equitable investment; positive health outcomes
b	Include vulnerable populations in planning and prioritize investments to protect them.	x	x	x	x	x	x	x		Proven	\$	Med	CMAP, CBO, public health organizations, BRACE	
c	Ensure that high quality essential human services programs are available and utilized.		x				x	x		Proven	\$\$	Med	CBO, FBO, public health organizations	
d	Assess local air quality and take action to protect vulnerable populations from pollution.							x		Contingent	\$	Med	IEPA, public health agencies, BRACE, RHA	
e	Provide effective and accessible cooling interventions to vulnerable residents.		x							Evolving	\$\$	Med	Park districts, public health agencies, cultural venues, transit services	
f	Assure community education messages are accessible in all languages and formats.	x	x	x	x	x	x	x		Proven	\$	Low	Nonprofits, ADA coordinators	
g	Assure affordable access to safe drinking water for all.						x			Proven	\$\$\$	High	AWWA, JAWA, U.S. EPA, ISWS, CMAP, MPC	Water burden lessened, safe and healthy constituents
h	Assure transit routes serving vulnerable populations are accessible and operable during weather events.					x				Evolving	\$\$	High	RTA, CTA, Metra, Pace, BRACE, public health agencies	Mobility; access to economic opportunity

3. COLLABORATE AND BUILD CAPACITY FOR MORE RESILIENT COMMUNITY

Strategy		Overarching resilience	Heat & Health	Flooding & Homes	Stormwater & Infrastructure	Flooding & Transport	Drought & Water	Air Pollution & Health	Municipal Role	Solution Status	Cost	Effort Required	Lead Partners & Resources	Outcomes (Co-benefits)
a	Coordinate resiliency efforts with federal, state and regional agencies.	x		x	x	x	x			Contingent	\$\$	High	FEMA, IEMA, EMA, MABAS, NIMS, IDNR, IDOT, CMAP, counties, public health agencies, park and forest preserve districts, utilities, StR, DRSC	Shared and leveraged resources, optimized efficiency and outputs; greater adaptive capacity; assets preserved
b	Strengthen emergency and adaptive response skills among staff, civic leaders, and allied organizations.	x	x	x				x		Proven	\$	Med	FEMA, IEMA, NIMS, IAFSM, APWA, AWWA, MABAS, public health agencies	
c	Develop an emergency transportation and logistics plan to move vital resources.					x				Evolving	\$\$	High	IEMA, IDOT, counties, EMA, APWA, public health agencies	Vital services and economy protected
d	Monitor and share real-time roadway conditions.					x				Evolving	\$	Low	IDOT, counties, townships, APWA	Timely and targeted response to climate hazards
e	Access and share timely weather data.	x		x						Proven	C	Low	NOAA, NWS, State Climatologist	
f	Facilitate compliance with federal air quality standards by businesses.		x					x		Contingent	\$	Med-High	IEPA, U.S. EPA	Constituents protected from extreme heat
g	Identify and mitigate urban heat islands.		x							Evolving	\$\$\$	High	U.S. EPA, USFS, GLISA, IEPA, State Climatologist utilities, park & forest preserve districts, public health agencies	
h	Manage public and private landscapes to optimize ecosystem services and support biodiversity.	x						x		Proven	\$\$\$	High	USFS, IDNR, park & forest preserve districts, SWCD, CW, watershed organizations, nonprofits	Natural systems optimized for resiliency and public well-being; air and water quality protected; threats from stormwater and heat islands managed
i	Collaborate to sustainably manage regional water supply.						x			Evolving	\$\$\$	High	ISWS, IDNR, CMAP, MPC	Water supply protected and conserved
j	Monitor and protect water quality in private wells.						x			Evolving	\$\$	Med	BACOG, ISWS	
k	Collaborate to sustainably manage stormwater.				x					Evolving	\$\$\$	High	U.S. EPA, FEMA, IEMA, IAFSM, stormwater agencies, SWCS, IDNR, counties, townships, park & forest preserve districts, IDOT & transportation agencies	Resources shared and leveraged; greater adaptive capacity; flood impacts reduced; assets preserved

4.



ENACT PLANS AND POLICIES FOCUSED ON ADAPTATION AND RESILIENCE

		Overarching resilience	Heat & Health	Flooding & Homes	Stormwater & Infrastructure	Flooding & Transport	Drought & Water	Air Pollution & Health	Municipal Role	Solution Status	Cost	Effort Required	Lead Partners & Resources	Outcomes (Co-benefits)
a	Adopt and integrate county hazard mitigation plan into local plans and policies.	x			x	x				Proven	\$\$	Med-High	FEMA, BRIC, IEMA, ISI, counties, APA, CMAP	Assets and operations prepared; greater adaptive capacity; investments protected; safe and healthy constituents
b	Integrate climate impacts and vulnerability into relevant plans and regulations.	x			x			x		Evolving	\$\$	High	APA, APWA, stormwater agencies, CMAP	
c	Proactively update codes and standards to reflect evolving climate conditions.	x	x					x		Evolving	\$\$	Med	CMAP, ICC, IDNR, ISI, GLISA, stormwater agencies	
d	Incentivize or require resilient building design.	x	x	x						Evolving	\$\$	Med	APA, ISI	
e	Guide future development to conserve land and ecosystem services.	x	x	x	x					Proven	\$\$\$	High	CMAP, APA	Landscapes preserved and optimized for ecosystem services; more pervious surfaces; more sustainable transportation systems; energy and resources conserved; positive health outcomes; greater adaptive capacity; planning for prioritized investment; assets protected; safe and healthy constituents
f	Promote connected, complete, and walkable neighborhoods.		x			x				Evolving	\$\$\$	Med-High	CMAP, APA	
g	Prioritize transit-oriented development and transit-supportive development.	x				x				Evolving	\$\$\$	High	CMAP, APA, RTA	
h	Participate in the Community Rating System and National Flood Insurance Program.	x		x	x					Proven	\$\$	Med-High	FEMA, IEMA, IDNR, CRS, NFIP, IAFSM	Water supply protected and conserved; safe and healthy constituents
i	Protect surface and groundwater from contamination.						x			Proven	\$\$\$	High	IEPA, IDNR, ISWS, counties, watershed organizations	
j	Allow developments flexibility to meet stormwater requirements.				x					Proven	\$\$	Med-High	APA, counties, stormwater agencies	Landscapes conserved for ecosystem services; energy and resources conserved
k	Adopt a water conservation plan.						x			Evolving	\$\$	High	CMAP, AWWA, U.S. EPA WaterSense, IISG	Water supply protected and conserved; energy for water distribution conserved; costs reduced
l	Enact and enforce outdoor watering regulations responsive to drought conditions.						x			Proven	\$	Med	CMAP, NWPA, MPC, IISG	
m	Optimize tree planting and protect existing trees for maximum shading and stormwater benefits.		x	x						Proven	\$\$	High	USFS, IDNR, utilities, public gardens, watershed organizations, stormwater agencies, SWCD, park & forest preserve districts	Heat and flooding hazard lessened; cooling energy demand lessened; air and water quality improved

5. ADAPT OPERATIONS AND INVESTMENTS FOR FUTURE CLIMATE CONDITIONS

Strategy		Overarching resilience	Heat & Health	Flooding & Homes	Stormwater & Infrastructure	Flooding & Transport	Drought & Water	Air Pollution & Health	Municipal Role	Solution Status	Cost	Effort Required	Lead Partners & Resources	Outcomes (Co-benefits)
a	Integrate stormwater management into transportation projects.				x	x				Evolving	\$\$\$	Med-High	IDOT, counties, townships, GLISA, RTA, CTA, Metra, Pace	Assets and operations prepared; greater adaptive capacity; assets protected; services and economy protected; mobility maintained
b	Assess and adapt vulnerable infrastructure to be responsive to changing climate conditions.	x			x	x	x			Evolving	\$\$\$	Med-High	StR, IDOT, counties, townships, ISI, APWA	
c	Acquire and remove floodprone homes			x						Proven	\$\$\$	High	Counties, FEMA, IEMA, IDNR	
d	Respond to weather events to ensure mobility					x				Proven	\$\$	High	IDOT, counties, townships, RTA, CTA, Metra, Pace	
e	Manage public and private landscapes to provide accessible recreation and optimize ecosystem services.	x	x					x		Proven	\$\$\$	High	Park & forest preserve districts, SWCD, watershed organizations, IAFSM	Greater adaptive capacity, community cohesion, natural systems optimized for resiliency and public well-being; air and water quality improved; threats from stormwater and heat islands managed
f	Establish green infrastructure and include maintenance in capital improvement plans.				x					Proven	\$\$\$	High	MWRD, stormwater agencies, IEPA, IISG	Water quality protected; assets protected; flood impacts reduced
g	Assess and adapt stormwater systems to respond to future rainfall projections.				x					Evolving	\$\$\$	High	ISWS, IEPA, state climatologist, IAFSM, stormwater agencies, POTW, APWA	
h	Create resilient water utilities through efficiency, conservation, demand management, technology, and flexible operations.						x			Proven	\$\$\$	High	AWWA, JAWA, U.S. EPA, CMAP, MPC	Water supply protected and conserved; energy conserved



Category	GOAL	OBJECTIVE		Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to Resource	
		> STRATEGY												
		+ ADVANCED STRATEGY												
Greenhouse Gas Emissions	Reduce greenhouse gas emissions	C1	Establish a Greenhouse Gas (GHG) emission reduction target:		X									
		C1a	>Utilize US EPA's Local Climate Action Framework to plan and evaluate climate strategies			X		X						Y
		C2	Measure and monitor GHG emissions			X								Y
		C2a	>Measure and monitor GHG from municipal operations			X								
		C2b	>Measure and monitor GHG community wide			X								
		C+3	+ Verify and report climate action to Carbon Climate Registry					X						Y
		C+4	+ Participate in carbon offset program			X								
		C+5	+ Commit to the Compact of Mayors								X		COMMIT?	Y
Air Quality	Maintain clean and healthful air	C6	Regulate burning of landscape waste	X										
		C7	Facilitate compliance of federal air quality standards by businesses						X					
		C8	Participate in Illinois Partners for Clean Air							X		DEFUNCT	Y	
		C9	Discourage the use of high-emitting small engines, such as for landscaping						X					
		C10	Reduce volatile organic compound (VOC) emissions for municipal operations by using low VOC cleaners, paints, and paving practices	X										
		C11	Establish policies to meet Illinois Dept of Public Health Indoor Air quality standards							X				Y
Resiliency	Develop resiliency to climate change impacts	C12	Coordinate resiliency efforts with federal, state and regional planning agencies		X							ROOM TO IMPROV		
		C12a	>Prepare Pre-Disaster Hazard Mitigation Plan		X							PW/ENG	Y	
		C13	Collaboratively manage urban heat islands						X					
		C+14	+ Assess infrastructure and public safety threats from extreme weather events		X									Y
		C+15	+ Develop a resiliency plan to protect assets, public health, and provide essential services through natural and man-made disasters						X					Y
Education & Outreach	Engage the community in climate change mitigation and adaptation	C16	Educate the public about climate change				X						Y	
		C17	Participate in Cool Communities						X				Y	
		C18	Inform the community about air quality index and air pollution action days					X					Y	

Category	GOAL	OBJECTIVE	Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to Resource	
			> STRATEGY										
			+ ADVANCED STRATEGY										
Sustainable Development	<i>Encourage strategic development that upholds sustainability principles</i>	L1 Reduce sprawl by promoting infill development to reduce adverse impacts on natural resources and infrastructure demands							X			Y	
		<i>L1a</i> >Encourage the development of compact and complete residential neighborhoods	X										
		<i>L1b</i> >Protect greenfields and open space						X					
		<i>L1c</i> >Redevelop underutilized or contaminated properties		X									Y
		L2 Prioritize redevelopment projects and infrastructure investment for transit-served locations		X									Y
		<i>L2a</i> >Pursue transit oriented development and transit-supportive land uses in new development	X									ON-GOING	
		<i>L2b</i> >Seek public-private partnerships to create transit-oriented developments	X									ON-GOING	
		L3 Collaborate with neighboring communities to jointly create sustainable developments							X				
		L4 Encourage conservation design to protect natural resources						X					Y
		L5 Promote Sustainable Sites Certification for commercial and institutional landscapes							X				Y
		L6 Integrate resiliency into land development decisions							X				Y
		L7 Support local food production by assuring access to affordable land								X			
		L8 Evaluate proposed developments for on groundwater levels and water quality.							X				
Land Preservation	<i>Conserve restore and enhance natural features and ecosystems</i>	L9 Using data such as the Green Infrastructure Vision and the Illinois Natural Areas Inventory, watershed plans, identify key natural assets, landscape features, parcels with high value for connectivity and ecosystem function						X				Y	
		L10 Conserve key natural assets and open space		X									
		<i>L10a</i> >Through direct acquisition and management						X				Y	
		<i>L10b</i> >Through collaborations and cooperative agreements such as conservation easements						X				Y	
		L11 Guide future development to conserve natural topography, views, drainage patterns, existing vegetation, and historic or cultural assets		X									
		L12 Prioritize the acquisition, dedication and management of lands to create connected greenways						X				MIDDLE FOI	Y
		L13 Prioritize the acquisition of land to protect groundwater recharge areas							X				
		L14 Manage public and private landscapes to optimize ecosystem services and support biodiversity		X									Y
		<i>L14a</i> >Collaborate to restore prairie, wetland, forest and other important ecosystems in the community		X									
		<i>L14b</i> >Monitor and control invasive species in natural areas and throughout the community		X									Y
		<i>L14c</i> >Ensure long-term maintenance and management of protected natural areas within Conservation Design development							X				
L15 Protect and restore soil integrity		X											
<i>L15a</i> >Enforce soil erosion and sediment control regulations for construction sites		X											
Parks & Open Space	<i>Support networks of accessible, well-used and enjoyable parks</i>	L16 Develop a park and open space master plan							X				
		L17 Maximize the amount of public spaces and parks accessible to residents							X				
		<i>L17a</i> >Collaborate to provide access to under-utilized land (i.e. utility right of ways) for trails, community gardens, and sustainable landscapes						X					
		<i>L17b</i> >Optimize linkages between parks and open spaces					X						
		<i>L17c</i> >Work with developers to integrate and develop open space reserves and trails in developments						X					
		<i>L17d</i> >Collaborate with private property owners to create vibrant public gathering spaces (placemaking)						X				Y	
		L18 Enhance parks, open space, and recreational opportunities accessible to all residents							X				
		<i>L18a</i> >Collaborate with park and forest preserve districts		X									
		<i>L18b</i> >Collaborate to create and maintain hiking, biking, canoe and other recreational trails						X					
		<i>L18c</i> >Collaborate to provide accessible recreational services involving parks and open space						X					
L19 Foster healthy community relationships through the use of open space						X							

Category	GOAL	OBJECTIVE	Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to Resource		
													> STRATEGY	
													+ ADVANCED STRATEGY	
Urban Forestry	Sustain a robust urban forest canopy	L20	Conduct a community wide urban tree canopy assessment or collaborate on a regional study				X							
		L21	Conduct an inventory and assessment of trees on public right of ways	X										
		L22	Develop and implement a management plan to assure a long term vitality of the urban forest		X								Y	
		L23	Maintain the health and integrity of existing trees		X									
		L23a	>Maintain the health of trees on public right of ways		X									
		L23b	>Collaborate with utilities to maintain trees compatible with overhead powerlines		X								Y	
		L23c	>Practice integrated pest management to sustain urban forest health		X								Y	
		L23d	>Assess structural integrity of trees and proactively mitigate risks through strategic removal and other actions		X								Y	
		L24	Plant trees to sustain and renew the urban forest	X								ON-GOING	Y	
		L24a	>Continually plant hardy, site-appropriate trees to meet tree canopy goals		X							ON-GOING	Y	
		L24b	>Engage resident in public stewardship through cost-share planting programs		X							50/50		
		L24c	>Using canopy analysis data, strategically plant trees to optimize public health and stormwater benefits						X					
		L25	Diversify the urban forest for long term resilience		X									
		L26	Earn recognition for urban forest stewardship as a Tree City USA		X									Y
		L27	Harvest and utilize high value wood products from trees that must be removed						X					Y
		L+28	+ Optimize tree planting and protect existing trees for maximum carbon storage/sequestration and energy savings		X									Y
		Landscapes	Sustain beautiful landscapes that provide ecosystem services	L29	Manage traditional, cultivated landscapes sustainably		X							
L29a	>Replace turf with sustainable landscaping alternatives								X					
L29b	>Manage lawns using natural products and low-impact practices				X									
L29c	>Encourage community-wide use of integrated pest management to reduce impacts from fertilizers and pesticides							X						
L29d	>Use integrated pest management strategies for municipal landscapes to reduce impacts from fertilizers and pesticides				X								Y	
L30	Increase the quality and amount of sustainable landscaping in the community				X									
L30a	>Use native and sustainable landscaping on municipal properties				X									
L30b	>Promote native and sustainable landscaping initiatives community wide by connecting residents to plants and information				X								Y	
L30c	>Increase the amount of sustainable landscaping in the community through subdivision and development codes				X									
L30d	>Encourage planting and registering of pollinator gardens through the Million Pollinator Garden Challenge				X								Y	
L30e	>Adopt the Mayors Monarch Pledge		X								Y			
L31	Maintain beautiful landscapes and streetscapes to enhance gateways, business districts and important public spaces		X									Y		
Policy	Achieve greater livability through sustainable land use and housing policies	L32	Adopt codes and incentives that guide sustainable development that maximizes social benefits and minimizes infrastructure demands		X									
		L32a	>Modify zoning and building regulations to allow mixed-use		X									
		L32b	>Use zoning and development regulations in strategic locations to increase walkability		X									
		L32c	>Promote site design that encourages the development of vibrant, walkable, commercial areas		X									
		L33	Enact and enforce land use policies that protect valuable natural assets and support resiliency					X						
		L33a	>Enact and enforce land-use policies that preserve open space						X					
		L33b	>Enact and enforce policies that preserve and restore functioning wetlands		X							RETENTION BASINS		
		L33c	>Enact policies that require conservation design best management practices to protect natural resources						X				Y	
		L33d	>Protect sensitive aquifer areas via land use regulations							X				
L33e	>Protect key natural assets and open space through zoning and planned unit developments								X					
L33f	>Enact and enforce a tree preservation ordinance to protect valuable trees on private property		X											

Category	 GOAL	OBJECTIVE		Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to Resource	
		> STRATEGY												
		+ ADVANCED STRATEGY												
LAND Education, Outreach & Engagement	Cultivate a conservation ethic in the community	L34	Integrate resiliency strategies into development policies and plans					X					Y	
		L35	Facilitate the retention of farms and other working lands							X				
		L36	Enact an ordinance that requires ample sustainable tree and landscape planting for new development and redevelopments					X						
		L37	Collaborate with state and federal partners to prepare for and respond to invasive pest threats							X				Y
	L38	Engage the community in programs and special events to celebrate nature, such as Arbor Day and Earth Day	X										Y	
	L39	Educate the community about the value of trees, native and sustainable landscaping		X										
	L40	Engage community volunteers in land stewardship activities on public and shared landscapes		X									Y	
	L41	Educate city staff about forest, wetlands and prairie best management practices		X										
	L42	Encourage beautiful, sustainable landscaping on private property					X						Y	
	L43	Enlist volunteer groups to help in acquisition and stewardship of public lands		X									Y	
L44	Engage residents through a natural resources, conservation and/ or tree commission								X					
L45	Educate planning commissioners about sustainable development principles and conservation strategies		X											
L46	Engage local farmers to adopt conservation practices									X				

Category	 GOAL	OBJECTIVE		Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to resource	
		> STRATEGY												
		+ ADVANCED STRATEGY												
WATER	Water Conservation <i>Use and distribute water efficiently</i>	W1	Reduce community water consumption per capita						X					
		<i>W1a</i>	>Implement water efficiency measures at all municipal facilities					X						
		<i>W1b</i>	>Encourage residents and businesses to identify and mitigate water loss		X									Y
		W2	Become a US EPA WaterSense Partner					X						Y
		W3	Designate a staff Water Conservation Coordinator to manage water conservation programs							X				
		W4	Participate in regional efforts and programs to conserve water							X				
		<i>W+5</i>	Provide customer incentives to retrofit using high efficiency, Water Sense appliances and fixtures							X				Y
		<i>W+6</i>	Provide water use audits to customers						X					
		<i>W+7</i>	Collaborate with energy utilities to integrate water conservation into energy audits for residential customers		X									
	<i>W+8</i>	Collaborate to encourage commercial, industrial and institutional customers to conserve water						X					Y	
	Water Quality <i>Protect and improve water quality</i>	W9	Protect surface and groundwater from runoff and contamination		X								ILLICIT DISCHARGE	
		<i>W9a</i>	>Avoid the use of coal tar sealants on municipal property		X								BANNED VILLAG	Y
		<i>W9b</i>	>Resolve to eliminate unnecessary landscape pesticides and fertilizer use on municipal property		X									Y
		<i>W9c</i>	>Use sensible salting strategies to reduce chloride contamination		X									Y
		W10	Collaborate to identify sensitive aquifer recharge areas						X	O				Y
		W11	Support post-development runoff reduction and mitigation		X									
		W12	Inventory and inspect septic systems							X				
		W13	Collaborate with regional initiatives to protect Lake Michigan and the Mississippi River		X								NBWS GROUP	
	Water Infrastructure <i>Manage water system assets sustainably</i>	W14	Label storm drains indicating the destination of discharge		X								SOME	
		W15	Operate an efficient water utility that delivers clean, healthful, water		X									
<i>W15a</i>		>Control water loss by auditing water supply system using AWWA protocols		X									Y	
<i>W15b</i>		>Periodically detect system leaks and develop a strategic plan for repair		X									Y	
W16		Comprehensively and sustainably manage water infrastructure		X										
<i>W16a</i>		>Develop a water infrastructure asset management plan to sustain the system		X									Y	
<i>W16b</i>		>Implement the water infrastructure asset management plan to sustain the system		X										
<i>W16c</i>		>Meter 100% of customers with automated reading technology		X										
<i>W16d</i>		>Implement sub-metering for multi-family housing customers							X					
<i>W16e</i>		>Detect and repair water system leaks		X										
<i>W16f</i>		>Repair and replace inefficient water supply infrastructure		X										
<i>W16g</i>		>Support property owners in timely repair of service lines through third-party warranty program							X				Y	
W17		Invest water revenues into sustaining water infrastructure		X										
W18	Coordinate street, utility and water infrastructure projects		X											
W19	Seek both public and private financing partnerships for infrastructure improvements		X											
W20	Riparian communities: Collaborate with other agencies to assess dam performance and support removal when								X			Y		
rastructure	W21	Participate in the Community Rating System for flood mitigation and planning		X									Y	
	W22	Participate in the National Flood Insurance Program allowing residents to access flood insurance		X										
	W23	Implement green infrastructure best management practices on municipal properties						X						
	<i>W23a</i>	>Build or retrofit paved surfaces with permeable materials							X					
	<i>W23b</i>	>Install and maintain bioswales, filter strips, trees, rain gardens, and other functional landscapes		X										

WATER	Category	GOAL	OBJECTIVE	Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to resource		
				> STRATEGY										Notes	Link to resource
				+ ADVANCED STRATEGY											
WATEI	Stormwater Management and Green Infr	Optimize the use of natural and built systems to manage stormwater	W24	Encourage residents and businesses to adopt green infrastructure practices				X							
			W24a	>Collaborate to provide rain barrels, plants and other resources to allow resident to capture and store rainwater	X										
			W25	Encourage residents and businesses to reduce flood risks on their property	X										
			W25a	>Incentive overhead basement sewer conversion					X						
			W25b	>Encourage property owners to disconnect downspouts from sewers and direct flow to landscaping					X						
			W26	Enhance natural features of stormwater detention and retention systems	X										
			W27	Collaborate to enhance wetlands for improved ecosystem services	X									DETENTION BASINS	
			W28	Collaborate with regional and state agencies to sustainably manage stormwater	X										
			W+29	+ Use USEPA Water Quality Scorecard to develop a systems approach to optimize stormwater	X										Y
			W+30	+ Establish a stormwater utility funding mechanism	X										Y
WATE	Policy	Enact policies to protect water resources	W31	Conduct a water rate study to determine sustainable rate structure	X							2021			
			W32	Adopt full-cost pricing policies for water service					X					Y	
			W33	Amend code to require water efficiency and conservation in commercial and residential development				X				2018 IRC		Y	
			W34	Incorporate conservation practices into new development guidelines and incentives				X							
			W35	Adopt a water conservation policy and/or plan inclusive of all customers and municipal operations	X									Y	
			W35a	>Enact and enforce regulation to control of wasteful water practices	X										
			W35b	>Enact and enforce outdoor watering regulations responsive to drought conditions	X										Y
			W35c	>Regulate or incentive water efficiency for customers managing large landscapes						X					
			W36	Update stormwater ordinance to integrate Illinois State Model Local Stormwater Ordinance	X										Y
			W37	Adopt codes that enable rainwater harvesting for non-potable uses					X						
			W38	Adopt a resolution supporting the Great Lakes and St. Lawrence River Basin Water Resources Compact					X						
			W39	Review and adopt codes to eliminate barriers to green infrastructure BMPs including cisterns, green roofs, bioswales, permeable paving					X						
			W40	Allow flexibility (off-site management, payment-in-lieu) to allow developments to meet stormwater management requirements sustainably						X					
W41	Enact codes that protect surface and groundwater from runoff and contamination	X													
WATER	Stewardship	Practice stewardship of water resources	W42	Sustain supply of high-quality public water	X										
			W43	Ensure drinking and wastewater systems are operating efficiently	X										
			W44	Utilize treated effluent as a valuable water resource					X						
			W45	Participate in watershed planning and stewardship efforts	X									Y	
			W46	Implement municipal recommendations from watershed plan					X						
			W46	Allow public access and encourage stewardship of community waterways					X						
			W48	Support regional and statewide water supply planning and stewardship					X					Y	
			W49	Contribute local data on water supply, quality and operations to support state and regional stewardship	X									Y	
			W+50	+ Enact a water offset policy for water neutral community growth					X					Y	
WATER	Outreach	Engage the	W51	Educate and support the community to conserve water	X								Y		
			W52	Educate the community on the value of clean and safe drinking water	X										
			W53	Promote tap water over bottled water	X									Y	
			W54	Educate the community on practices that reduce contamination of water resources	X									Y	
			W55	Support private well-owners in water quality monitoring and stewardship							X			Y	

Category	 GOAL	OBJECTIVE		Already achieved	In Progress	Planned for next 6 months	Planned for next 12-18 months	Interested in pursuing	Not planned	Not relevant	Contact Initials	Notes	Link to resource	
		> STRATEGY												
		+ ADVANCED STRATEGY												
Education and Community	Engage the community in water stewardship	W56	Educate customers about public water supply and wastewater operations through media and events		X									
		W57	Educate the community on benefits and practices of green infrastructure					X						Y
		W58	Educate and support the community in preparing for and managing floods		X									Y
		W59	Collaborate to teach water conservation and stewardship in schools					X						
		W60	Collaborate to raise watershed awareness and foster stewardship					X						