

AGENDA
SUSTAINABILITY COMMISSION
March 24 2022
7:00 P.M.
Remote Meeting via Zoom

Please click the link below to join the webinar:

<https://deerfieldil.zoom.us/j/87524869534?pwd=R21DVnNtR2d3bXVYb2E4NnQ2b3pGUT09>

Passcode: C3wXe+F@12

Or Telephone:

US: (312) 626-6799

Webinar ID: 875 2486 9534

Passcode: 95992477

1. Call to Order
2. Roll Call
3. Moment of Silence – Brian Wolkenberg
4. Consideration and Approval of January 20, 2022 Meeting Minutes
5. Public Comment

Village residents wishing to respectfully share thoughts about any matter concerning the Village may do so by submitting an email to sustainabilitycomment@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. Pursuant to Restore Illinois Phase 4, the opportunity to view the virtual meeting at Village Hall is available on a “first come, first-served” basis due to limited capacity.

6. Green Region Compact 2
 - Self-Assessment Framework: WATER (Potable, Waste, Storm)
 - i. Review of possible water related programs and initiatives

7. GHG Working Group Update

- Recap – Focus Area: Energy
- ICLEI Membership
- 2021 IECC

8. Other Items for Discussion:

- Water Reclamation Facility Tour –June 11
- Paper Shredding Event – April 23
- Public Works Open House – May 21
- Farmer’s Market Dates?
- Possible Return to In-Person Meetings

9. Public Comment

10. Next Meeting Date – May 12

**MEETING MINUTES
SUSTAINABLE COMMISSION
JANUARY 20, 2022**

A meeting of the Sustainability Commission was held on Thursday, January 20, 2022 at 7:00 p.m. via Zoom. The meeting was called to order at 7:00 p.m.

In attendance were:

Present:

Maria Albulescu
Don Anderson, Chairman
Amy Call
Dick Heller
Bill Mertes
Michael Shalen
Deborah Tometz
Brian Wolkenberg

Absent:

Karrah Krakoviak

Also present:

Andrew Lichterman, Assistant Village Manager (at Village Hall)

Consideration of Minutes

Commissioner Mertes moved, seconded by Commissioner Heller to approve the minutes from the November 4, 2021 Sustainability Commission. The motion passed by the following vote:

AYES: Albulescu, Call, Heller, Mertes, Shalen, Tometz, Wolkenberg, Anderson (7)

NAYS: None (0)

Public Comment

There was no public comment received by email. There was no one present at Village Hall or on Zoom wishing to make a public comment.

Commissioner Albulescu noted she has enjoyed the Commission over the past three years, but is very busy as she is pursuing her MBA. She suggested filling her spot with a Deerfield resident that works at Walgreens.

Business:

1. Green Region Compact 2

- **Self-Assessment Framework – Water (Potable, Waste, Storm)**
 - **Q & A with Director of Public Works and Engineering, Robert Phillips**

Mr. Phillips provided an overview of the Public Works and Engineering departments. He explained 90% of what the public works department does is underground. The Village has two pumping stations that just pump storm water. The water reclamation facility is unique, as most municipalities feed into regional facilities. There are seven satellite pumping stations which flow via gravity to a wastewater treatment plant.

When the Village repairs or builds a roadway, they look at a number of factors including the material, the thickness of the various layers of pavement, whether the Village can just grind off the top layer, the traffic load, etc. The Village also looks at the infrastructure, how many water main breaks there have been, and the condition of the roads, sewers and utilities to determine whether they can resurface the road or if they have to reconstruct the road. The Village hires an infrastructure management service every three years to provide a surface rating on every road in the Village, so there is documented scientific data on the condition of each road. Mr. Phillips noted most streets in Deerfield have to be reconstructed after 20 years before they need to be resurfaced. Aside from the resurfacing or reconstruction costs, the Village has to consider the roadwork utility costs as well.

Commissioner Call asked whether the Village is using any permeable surfaces. Mr. Phillips explained permeable surfaces are cost prohibitive at this time due to the amount of excavation required. The Village is testing one permeable pavement parking lot on East River Road. Over the past 15 years, the Village has revised some of the reconstruction methodology to be more sustainable and less disruptive to the neighborhoods. They have used recycled materials, installed energy efficient lighting and have reduced the amount of fluoride and salt used for snow and ice control.

Mr. Phillips discussed the water reservoirs in the Village. The water from the Richfield reservoir pushes water directly into the distribution system and boosts pressure for the North Trail subdivision. The Hawthorn reservoir is used to fill the pumping station as well as provides additional storage. In 2020 and 2021, the Village completed the water system model based on where the pipes are located as well as the size and condition of the pipes. The Village also gathers information from fire flow analysis and uses all of the information for capital project planning.

All of the water comes in from Highland Park. If Highland Park were to have an issue with their pumping station or treatment plant, the Village still has plenty of storage. Mr. Phillips explained his department also analyzes water and sewer rates to ensure the rates are appropriate. They also look at system wide risk and resiliency as well as cyber terrorism. The Village is also in process of planning an emergency water connection from Northbrook.

Mr. Phillips noted the major things that cause the Village to replace a water main or install a new water main is the age of the pipe. The life cycle is about 100 years. Sometimes, the Village has a pipe that wasn't made with the best material or the materials are too small, which causes more frequent main breaks. The Village replaces about 1 percent of the water mains each year. The

EPA will require the Village to have a plan to replace all 900 lead services at a cost of \$9 – 10 million within the next 15 years.

The Village has a storm water master plan which helps determine the frequency of flooding to help with questions from residents as well as provides solutions to some of the front and backyard flooding issues, based on a 10-year storm. The storm water master plan studied 42 areas and the Village developed a capital plan. They encourage residents to reduce clutter risks which could help alleviate flooding.

Commissioner Call asked about outreach and public education. Mr. Phillips explained people need to understand more about storm water. He noted backyards are not intended to be dry after a storm. Mr. Phillips indicated people are no longer drinking tap water and bottled water is not good for the environment. Ch. Anderson noted the Commission held a Pepsi challenge in the past and could consider it for the future as well. The Village also has buckthorn removal programs.

Ch. Anderson suggested the Commission spend time at the next meeting prioritizing the various topics discussed and developing programming around them. Mr. Wolkenberg suggested forming sub-committees to take advantage in member's strengths and interests. Commissioner Tometz suggested creating a brochure about the GRC2 for distribution at the Farmer's Market.

2. Other Items for Discussion

- **WRF Reclamation Facility Tour – Spring Date?**

The commissioners discussed a spring tour of the facility. The Commission decided that late morning on June 11 is the preferred date.

Public Comment

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

Adjournment

There being no further business or discussion, Commissioner Heller moved to adjourn the meeting. Commissioner Mertes seconded the motion. The motion passed by the following vote:

AYES: Albulesco, Call, Heller, Mertes, Shalen, Wolkenberg, Anderson (7)

NAYS: None (0)

The next scheduled Sustainability Commission meeting will take place on Thursday, February 24, 2022 at 7:00 p.m.

The meeting was adjourned at 8:32 pm.

Sustainability Commission


January 20, 2022

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Respectfully submitted,

Jeri Cotton

Secretary

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	Use and distribute water efficiently	W1	Reduce community water consumption per capita					X					
			W1a	>Implement water efficiency measures at all municipal facilities				X						
			W1b	>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				
			W+5	Provide customer incentives to retrofit using high efficiency, Water Sense appliances and fixtures						X				Y
			W+6	Provide water use audits to customers					X					
	W+7	Collaborate with energy utilities to integrate water conservation into energy audits for residential customers		X										
	W+8	Collaborate to encourage commercial, industrial and institutional customers to conserve water					X					Y		
	Water Quality	Protect and improve water quality	W9	Protect surface and groundwater from runoff and contamination		X							ILLICIT DISCHARGE	
			W9a	>Avoid the use of coal tar sealants on municipal property	X								BANNED VILLAG	Y
			W9b	>Resolve to eliminate unnecessary landscape pesticides and fertilizer use on municipal property	X									Y
			W9c	>Use sensible salting strategies to reduce chloride contamination		X								Y
W10			Collaborate to identify sensitive aquifer recharge areas					X					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			
W14	Label storm drains indicating the destination of discharge		X								SOME			
WATER	Water Infrastructure	Manage water system assets sustainably	W15	Operate an efficient water utility that delivers clean, healthful, water	X									
			W15a	>Control water loss by auditing water supply system using AWWA protocols	X									Y
			W15b	>Periodically detect system leaks and develop a strategic plan for repair	X									Y
			W16	Comprehensively and sustainably manage water infrastructure	X									
			W16a	>Develop a water infrastructure asset management plan to sustain the system	X									Y
			W16b	>Implement the water infrastructure asset management plan to sustain the system		X								
			W16c	>Meter 100% of customers with automated reading technology		X								
			W16d	>Implement sub-metering for multi-family housing customers						X				
			W16e	>Detect and repair water system leaks		X								
			W16f	>Repair and replace inefficient water supply infrastructure		X								
			W16g	>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					
			W23a	>Build or retrofit paved surfaces with permeable materials						X				
			W23b	>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											
WATER	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
	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												
	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		
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						