

DEPARTMENT OF HOMELAND SECURITY  
Federal Emergency Management Agency

OMB Control Number: 1660-0022  
Expiration: 10/31/2023

**CRS COMMUNITY CERTIFICATIONS**

Community Deerfield, Village of State IL CID 170361  
(6-digit NFIP Community Identification Number)

**Note:** Please cross out any incorrect items, below, as needed, and insert the updated information.

**CC-213 Recertification**

Recertification due date	2/1/2023	
	Chief Executive Officer	CRS Coordinator
Name	Kent S. Street	Tyler Dickinson, P.E.
Title	Village Manager	Assistant Director of Public Works and Engineering
Address	850 Waukegan Road Deerfield, IL 60015	465 Elm Street Deerfield, IL 60015
Phone number	(847) 945-5000	(847) 719-7463
E-mail address	kstreet@deerfield.il.us	tdickinson@deerfield.il.us

I hereby certify that Village of Deerfield [community name] is implementing the following activities on the attached pages as credited under the Community Rating System and described in our original application to the CRS and subsequent modifications.

I hereby certify that, to the best of my knowledge and belief, we are in full compliance with the minimum requirements of the NFIP and we understand that we must remain in full compliance with the minimum requirements of the NFIP. We understand that at any time we are not to be in full compliance, we will retrograde to a CRS Class 10.

I hereby certify that we will continue to maintain FEMA Elevation Certificates on all new buildings and substantial improvements constructed in the Special Flood Hazard Area following the date at which we joined the CRS.

I hereby certify that if there are one or more repetitive loss properties in our community that we must take certain actions that include reviewing and updating the list of repetitive loss properties, mapping repetitive loss areas, describing the cause of the losses, and sending an outreach project to those areas each year, and if we have fifty (50) or more unmitigated repetitive loss properties we must earn credit under Activity 510 (Floodplain Management Planning) for either a repetitive loss area analysis (RLAA) or a floodplain management plan (FMP).

I hereby certify that, to the best of my knowledge and belief, we are maintaining in force flood insurance policies for insurable buildings owned by us and located in the Special Flood Hazard Area (SFHA) shown on our Flood Insurance Rate Map. I further understand that disaster assistance for any community-owned building located in the SFHA is reduced by the amount of National Flood Insurance Program (NFIP) flood insurance coverage (structure and contents) that a community should be carrying on the building, regardless of whether the community is carrying a policy.

Signature Kent S. Street, Village Manager (Chief Executive Officer)

Date 1-16-2023

CC-213-1

[continued on next page]

Community Deerfield, Village ofState ILCID 170361

(6-digit NFIP Community Identification Number)

<b>CRS Program Data Table</b>	<b>A. In the SFHA</b>	<b>B. In a regulated floodplain outside the SFHA</b>	<b>C. In the rest of the community</b>
1. Last report's number of buildings in the SFHA (bSF) (line 6, last report)	101		
2. Number of new buildings constructed since last report	+ 0	0	8
3. Number of buildings removed/demolished since last report	- 0	0	
4. Number of buildings affected by map revisions since last report (+ or -)	0	0	
5. Number of buildings affected by corporate limits changes (+ or -)	0	0	
6. Current total number of buildings in the SFHA (bSF) (total lines 1-5)	101		
7. Number of substantial improvement/damage projects since last report	0	0	
8. Number of repetitive loss properties mitigated since last report	0	0	0
9. Number of LOMRs and map revisions (not LOMAs) since last report	0		
10. Acreage of the SFHA (aSFHA) as of the last report (line 13, last report)	237.7		
11. Acreage of area(s) affected by map revisions since last report (+ or -)	0	0	
12. Acreage of area(s) affected by corporate limits changes (+ or -)	0	0	
13. Current acreage of the SFHA (total lines 10-12)	237.7		
14. Primary source for building data:	Building Department		
15. Primary source for area data:	Engineering Department and GIS		
16. Period covered:	January 2022 - December 2022	Current FIRM date	September 18, 2013
<i>If available, the following data would be useful:</i>			
17. Number of new manufactured homes installed since last report	0	0	0
18. Number of other new 1 -4 family buildings constructed since last report	0	0	0
19. Number of all other buildings constructed/installed since last report	0	0	8

## Comments:

*(Please note the number of the line to which the comment refers.)*

9. It should be noted that a LOMR has been submitted for the development at 10 Deerfield Rd however it has not been approved as of 1/16/2023. The development does not propose any new structures within the SFHA. Additional information on this development can be provided as requested.

CC-213-2

*[continued on next page]*

Community Deerfield, Village of

State IL

CID 170361

(6-digit NFIP Community Identification Number)

## Instructions

At the first verification visit after the effective date of the 2013 *CRS Coordinator's Manual*, ONLY LINES 6 AND 13 NEED TO BE COMPLETED. These lines form the baseline data about the number of buildings and area of the SFHA for when the table is completed as part of the next annual recertification. The "period covered" entered in line 16 is the date that lines 6 and 13 are first completed. At all subsequent annual recertifications and cycle verification visits, the entire table is completed. The information in lines 6 and 13 from the last report is transferred to lines 1 and 10 in the next report.

## Instructions for the Columns

Column A numbers are for the SFHA (the A and V Zones shown on the Flood Insurance Rate Map) (FIRM)). Use the FIRM currently in effect, not a draft or pending revision.

Column B is completed only if the community receives CRS credit for regulating floodplain development outside the SFHA under Activity 410 (Floodplain Mapping) or Activity 430 (Higher Regulatory Standards).

Column C numbers help relate what happens in the floodplain to what is happening in the rest of the community.

Enter "0" if there are no numbers to report for this period. Do not leave a cell blank. Do not fill in the shaded boxes.

## Instructions for the Lines

Lines 1-7 deal with buildings.

- o Section 301.a of the *CRS Coordinator's Manual* defines what constitutes a "building" and lists examples of structures that are not counted as "buildings" by the CRS.
- o Section 302.a of the *CRS Coordinator's Manual* describes how the CRS counts buildings. For example, accessory structures are not counted.
- o As noted in Section 302.a, to determine building counts, communities may use any method that yields reasonably good estimates of the number of buildings. Examples of acceptable methods are listed in Section 302.a. Precision is less important for large numbers. For example, the impact of the numbers will not change much if there are 10,000 buildings or 10,100 buildings.
- o If a building is out of the SFHA, but in a parcel that is partly in the SFHA, it is not counted in column A --In the SFHA.
- o In line 14, note how the building counts were obtained or estimated. Use the comments area, if needed.

Line 4 refers to map revisions. These include physical map revisions, Letters of Map Revision (LOMR), and Letters of Map Amendment (LOMA). If a building is removed from the SFHA by FEMA through a LOMA, but the community still administers its floodplain management regulations on the property, the building should not be included in the line 4 count in column A --In the SFHA. However, communities that still regulate areas removed by LOMAs can receive credit under Activities 410 or 430. If the community is receiving such credit, the building should be counted under column B --In a regulated floodplain outside the SFHA.

Line 7 is for the total number of buildings that were substantially improved plus the number of buildings that were substantially damaged during the period covered.

Lines 10 -13 deal with areas.

- o These areas are based on the areas shown on the community's FIRM including LOMRs or LOMAs. Section 403.b discusses those portions of the SFHA that are subtracted from the area of the SFHA to calculate the community's aSFHA used in credit calculations.
- o Section 403.e of the *CRS Coordinator's Manual* discusses calculating areas for CRS purposes.
- o Section 403.e notes that communities "should not spend an inordinate amount of time measuring areas." As with buildings, communities may use any method that yields reasonably good estimates. Examples of acceptable approaches are listed in Section 403.e.
- o Line 13 asks for the current acreage of the SFHA. The best source for this number is a GIS layer that shows the SFHA. If the community does not have GIS, the county, regional agency, or state NFIP mapping office may have SFHA layers and may be able to provide the data. If the community has a relatively recent FIRM, the study contractor or consulting engineer may have the data.
- o In line 15, note how the area calculations were obtained or estimated. Use the comments area, if needed.

Lines 17 -19 are voluntary, if the numbers are readily available.

- o Line 17 includes replacing an existing manufactured home with a new one. The newly placed manufactured home is counted as a new, post-FIRM, building.
- o The total of lines 17 -19 should equal the value entered in line 2.

CC-213-3

## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

Your community has been verified as receiving CRS credit for the following Activities.

- If your community is still implementing these activities the CRS coordinator is required to put his or her initials in the blank (do not use a checkmark or an "X") and **attach** the appropriate items. A blank with no initials indicates you are not implementing that Activity anymore, and will result in loss of points (and possible CRS Class).
- If the word "**attached**" is used you must provide the requested documentation for that Activity. If no documentation has been acquired for that Activity, please explain why there is no documentation from the past year.

JO 310 EC: We are maintaining Elevation Certificates, Floodproofing Certificates, Basement Floodproofing Certificates, V Zone design certificates and engineered opening certificates on all new construction and substantially improved buildings in our Special Flood Hazard Area (SFHA) and make copies of all Certificates available at our present office location. JO Initial here is you have had no new construction or substantial improvement in the SFHA in the last year.

N/A 310 EC: **Attached is the permit list for only new or substantially improved structures in the SFHA that have been completed in the last year.** We have permitted 1 new building and substantial improvements in the SFHA during this reporting period.

N/A 310 EC: **Attached are all the Certificates for new or substantially improved structures that have been completed during this reporting period that are included on the above permit list.** (Note: The total number of Elevation and Floodproofing certificates should match the number of permits issued and completed within the reporting period defined above. All permits issued for new construction or substantial improvement within the V zone should have both an Elevation Certificate and a V Zone Certificate, and all buildings with basements within the basement exemption communities should have both an Elevation Certificate and a Basement Floodproofing Certificate).

JO 320 MI 1: We are providing basic flood information to inquirers. We also continue to provide the following to inquirers:

- MI 2 additional FIRM information
- MI 6 historical flood information
- MI 7 natural floodplain functions

JO 320 MI: **Attached is a copy of the publicity for the credited elements of this service this year.**

### COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

320 MI: **Attached is a copy of one page of the log, a letter, or other record that we kept on this service this year.**

320 MI: We are continuing to keep our FIRM updated and maintain old copies of our FIRM.

330 OP: We continue to conduct or provide all credited outreach projects.

340 ODR: People looking to purchase flood prone property are being advised of the flood hazard through our credited hazard disclosure measures.

350 LIB/LPD: Our public library continues to maintain flood protection materials.

350 WEB: We continue to conduct an annual review and update of the information and links in our flood protection website.

360 PPA: We continue to provide flood protection advice to inquirers.

360 PPV: We continue to provide on-site flood protection assistance to inquirers.

360 PPA/PPV: **Attached is a copy of one page of the log, up to three letters, or other records that we kept on this service this year.**

360 PPA/PPV: **Attached is a copy of the document that told others about these services this year.**

410 MAP: We continue to use our additional regulatory flood data before a new development can proceed in our floodplain.

420 OSP: We continue to preserve our open space in the floodplain.

430: We continue to enforce the floodplain management provisions of our zoning, subdivision and building code ordinances for which we are receiving credit.

*Initial here if you have amended your floodplain regulations. **Attach a copy of the amended regulations, provide a summary of the changes and mark up the regulations indicating what's been changed.***

440 AMD: We continue to use and update our flood data maintenance system on an annual basis as needed.

440 BMM: We continue to maintain our system of Benchmarks.  *Initial here if any Benchmarks were found to be missing or inaccurate. **Attach a copy of the correct elevation or a description of the missing Benchmark(s).***

### COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

70 440 FM: We continue to maintain our historical Flood Hazard Boundary Map, FIRMs and Flood Insurance Studies.

70 450 SMR: We continue to enforce the stormwater management and low impact development provisions of our zoning, subdivision and building code ordinances for new developments in the watershed. [ ] *Initial here if you have amended your stormwater management regulations that will impact your CRS program. **Attach a copy of the amended regulations, provide a summary of the changes and mark up the regulations indicating what's been changed.***

70 450 ESC/WQ: We continue to enforce the provisions of our zoning, subdivision and building codes as they pertain to erosion and sediment control and water quality.

70 502 RL: We currently have 9 <sup>PER FEMA</sup> repetitive loss properties and send our notice to 107 properties in the repetitive loss areas.

70 502 RL: **Attached is a copy of this year's notice on property protection, flood insurance and financial assistance that we sent to our repetitive loss areas.**

70 510 FMP: **Attached is a copy of our floodplain management plan's annual progress report for the action items contained in the plan.** We have included a progress report template for you to use (in the email notification) if you don't have one of your own.

70 510 FMP: We have provided copies of this progress report to our governing board and local media.

70 540 CDR: We continue to implement our drainage system maintenance program.

70 540 CDR: **Attached is one completed copy of a typical inspection report and one completed copy of the record that shows that any needed maintenance was performed on the credited components of our natural drainage system.**

70 540 CIP: We continue to implement the sections of our Capital Improvements Program which pertain to the drainage system maintenance.

70 540 SDR: We continue to enforce our stream dumping regulations.

70 540 SDR: **Attached is a copy of this year's outreach project that explained our stream dumping regulations.**

Community Deerfield, Village of State IL CID 170361  
County Cook, Lake

## COMMUNITY RATING SYSTEM ANNUAL RECERTIFICATION

Additional Comments:

Attachments:



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

RE: Activity 310 - No Development in the Regulatory Floodplain

Dear Mr. Arkens:

Since our last cycle visit on September 24, 2020, there has been no new or substantially improved buildings in our regulatory floodplain and therefore, we have no new construction certificates for our reporting period.

When new or substantially improved structures are permitted, we will require Elevation Certificates as part of our permitting process, will review them for accuracy and completion and will maintain copies of them. We are also making the Elevation Certificates we have on file available to the public.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield



## VILLAGE OF DEERFIELD

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 320 - Map Information

Dear Mr. Arkens:

Each year, the Village of Deerfield Engineering Department receives phone calls from residents, potential residents, and realtors regarding floodplain questions, many of which require mapping assistance. Attached you will find the 2022 map inquiry log. When needed, the Village will send a copy of a customized map from our in-house GIS system. However, residents are typically directed toward the [floodsmart.gov](https://www.floodsmart.gov) website for flood maps that are generated by FEMA, since we feel the best mapping for insurance and mortgage purposes should be provided by the source.

The Village of Deerfield is currently able to provide information to residents for the following:

- MI1 – Basic FIRM Information
- MI2 – Additional FIRM Information
- MI7 – Natural Flood Plain Functions

Although electronic files are generally used nowadays, hard copies of Flood Insurance Rate Maps (FIRM) and Flood Insurance Studies (FIS) are still kept within the offices of the Department of Public Works and Engineering. Copies of annexations and new subdivisions are stored on the server and managed by the Planning Department. Older versions of maps have been scanned into digital format and are kept on the Village server. Copies of the most recent FIRM's and FIS's are kept at the Village of Deerfield Public Library.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

# VILLAGE OF DEERFIELD

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000

Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

## MEETING SCHEDULE

Meeting times/dates subject to change  
For a complete list of meetings, please visit  
[www.deerfield.il.us](http://www.deerfield.il.us)

### July

#### **Board of Trustees**

July 5 & 18, 7:30 p.m.

#### **Community Relations Commission**

July 12, 6:30 p.m.

#### **Plan Commission**

July 14 & 28, 7:30 p.m.

#### **Sustainability Commission**

July 21, 7:00 p.m.

#### **Appearance Review Commission**

July 25, 7:30 p.m.

### August

#### **Board of Trustees**

August 1 & 15, 7:30 p.m.

#### **Plan Commission**

August 11 & 25, 7:30 p.m.

#### **Appearance Review Commission**

August 22, 7:30 p.m.

Have a happy and safe Fourth of July!

# D-TALES

Your Municipal News Source

## VILLAGE BOARD APPROVES CARBON ACTION REPORT TO REDUCE GREENHOUSE GASSES

On June 6, the Village Board approved a Climate Action Report from the Greenhouse Gas Reduction Ad Hoc Working Group to reduce emissions by 45% by 2030 and become carbon neutral by 2050.

The creation of the working group stemmed from a February 18, 2020, Village Board proclamation urging local governments and municipalities to lead the global effort to fight climate change.

The Climate Action Report is the output of several months of analysis by the Working Group and is intended to serve as a guiding document that can inform implementation efforts and future climate/adaptation/resiliency plans for longer-term implementation. The report establishes a greenhouse gas emissions baseline and sets high-level objectives to obtain the Village Board's established greenhouse gas mitigation goals.

The Village Board adopted three specific objectives recommended by the Working Group:

- Convert 100% of electricity to renewable sources by 2030
- Reduce transportation emissions by 55% by 2030
- Reduce waste emissions by 66% by 2030

Implementing strategies and tactics that achieve the three objectives noted above will result in a 45% reduction of GHG emissions by 2030, as compared to the 2017 baseline year. The report organizes the proposed GHG mitigation efforts into four focus areas – energy, transportation, waste and ecosystem/food/goods and services. Along with the discussion of each focus area is an identification of the general resources

*Climate Report Continued on Page 2:*

## DEERFIELD FAMILY DAYS BACK FOR ANOTHER BLAST

Deerfield Family Days will kick off another two days of fun July 3rd and 4th. Join family and friends for a holiday filled with fun and entertainment!

The spectacular fireworks show will be held Sunday, July 3rd, at Brickyards Park with live entertainment and kids' activities. The gates will open at 5 p.m. and food and drink concessions will be available for purchase.

On Monday, July 4th, head on over to the festivities at Jewett Park including breakfast in the park, dog show, the flower show and a variety of games. The parade starts at noon on Monday and will travel from Deerspring Pool, west to Waukegan Road, north to Hazel and end at Jewett Park.

This year's Parade Marshals are Mayor Emeritus Harriet Rosenthal and the League of Women Voters of Deerfield/Lincolnshire. Rosenthal served 12 years as Mayor and 24 years as a Village Trustee. The League of Women Voters was founded in Chicago on February 14, 1920. Since then, the League has worked to register voters, sponsor candidate forums, provide non-partisan election materials about candidates, and study issues on the local, state and national levels in order to create a better-informed electorate.

See the full schedule on Page 10 or visit [www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### CHECK IT OUT!

#### **Page 2:**

- Property Taxes Explained

#### **Page 3:**

- Fireworks Safety

#### **Page 5:**

- Water Quality Report





Climate Report Continued from Page 1:



that are needed to accompany the various strategies. You can read the full report at [www.deerfield.il.us](http://www.deerfield.il.us).

Residents can take actions now to help the Village reach these goals. For the energy goals, this includes switching to renewable energy sources, such as reducing energy usage, participating in the Community Solar Program at [www.northshorecommunitysolar.com](http://www.northshorecommunitysolar.com) and upgrading to energy efficient appliances. To reduce transportation emissions, residents can walk, bike or take public transportation, consider purchasing an electric vehicle and reduce vehicle idling. For the waste reduction goals, residents can improve their recycling literacy and make use of the Village's no-cost compost program at [deerfield.il.us/785/Compost-Program](http://deerfield.il.us/785/Compost-Program).

“Municipalities have an unparalleled opportunity to make changes that can transform local economies and positively impact peoples’ lives both locally, and even globally,” said Mayor Daniel C. Shapiro. “It is time for us to roll up our sleeves and get to work to preserve a future we can all be proud to pass along to our children and grandchildren.”

Members of the Greenhouse Gas Reduction Ad Hoc Working Group include Trustee Mary Oppenheim (Chairperson), Trustee Elaine Jacoby, Sustainability Commission Chairperson Donald Anderson, Sustainability Commissioner William Mertes, Go Green Deerfield Chairperson Art Wilde, Go Green Deerfield Member Camilla Dadey, and Business Community Representative Victoria Street, Executive Director of the DBR Chamber of Commerce.

The Mayor and Village Board thank all of the members of the Working Group for their efforts. 

## YOUR PROPERTY TAX BILL EXPLAINED

Property taxes are used by multiple units of local government for revenue. Every person and business in Illinois is affected by property taxes — whether by paying the tax or receiving services or benefits that are paid for by property taxes.

Anyone who attends public school, drives on roads or streets, uses the local library, has police protection or has fire protection receives services provided in part by property taxes.

The Village of Deerfield is one of more than 10 units of local government that comprise the typical resident’s overall property tax bill including the county, fire protection district, township, park district, school districts and others. **For property taxes due in 2022, the Village accounted for approximately 6.56% of the overall property tax bill.**

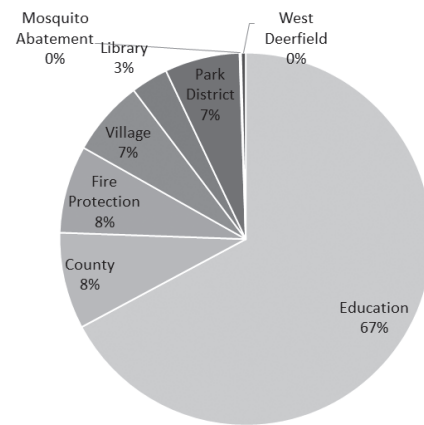
As separate, independent units of government, the Village has no control over the other components of a resident’s property tax bill.

One common question regarding property taxes concerns is how property taxes are calculated. The calculation of property taxes is a multistep process that involves four distinct areas:

### ASSESSMENT

The assessment determines the fair market value of the property. From the assessment, the township assessor determines the equalized assessed value (EAV). The EAV should be approximately 33.33% of the total market value in a given area. In order to ensure that the equalized assessed value of all properties is equal to 33.33% of the market value, the Illinois Department of Revenue may apply an equalization factor to the EAV as determined by the assessor.

## Deerfield Property Tax Allocation



### LEVY

The levy is the official request from a unit of local government for the funds it determines it requires from the property tax.

### EXTENSION

The extension is a determination of the property tax rate. Once the County has received all levy requests, it determines the rate that must be applied in order for the unit of local government to receive its requested levy.

### COLLECTION

Once the rates have been applied, property tax bills are sent to each property owner. The taxes are remitted to the County Clerk or Treasurer and dispersed to the various units of local government who are listed on the property tax bill.

There are several factors that could make your tax bill increase: an increase in the property equalized assessed value, an increase in tax rates, which come from the individual taxing districts, and new referendums approved by voters. Please pay close attention to your total exemptions, these exemptions could lower your current tax bill. Call your Township Assessor to verify that you are receiving the exemptions for which you qualify. They can also answer any questions of your assessed valuation.

For more information about property taxes, visit the Lake County Treasurer's FAQ at [www.lakecountyil.gov/FAQ.aspx?TID=19](http://www.lakecountyil.gov/FAQ.aspx?TID=19).





## FIREWORKS NOT ALLOWED

The Deerfield Police Department reminds residents that fireworks are dangerous and unpredictable by nature. The discharging of fireworks including firecrackers, bottle rockets, and Roman candles is a violation of state law and Village ordinances. Novelty fireworks, such as snakes, sparklers, and party-poppers are not regulated by the state. While sparklers are legal, they are extremely dangerous because they burn at temperatures of up to 1,200 degrees Fahrenheit and remain extremely hot long after the sparks have ceased.

Each July 4th, thousands of people nationwide, most often children and teens, are injured while using consumer fireworks. The best way to protect your family is to not use any fireworks at home. Many professional displays are scheduled on July 3rd and 4th for the enjoyment of all.

Please only call 911 to report illegal fireworks if you can give an exact location and preferably a description of those involved.

Moreover, there are many people, including our veterans, that are alarmed by unexpected fireworks – especially the ones they don't know are coming. Unexpected fireworks can trigger a PTSD reaction. Please be compassionate and safe and do not use illegal fireworks. ~

## THE 100 DEADLIEST DAYS FOR TEEN DRIVERS

For years, motor vehicle crashes were the leading cause of injury-related deaths for youths, although it was recently displaced by deaths from firearm-related injuries. Even so, with Memorial Day Weekend behind us, we are now in the 100 Deadliest Days (the days from Memorial Day to Labor Day) for teen drivers.

According to AAA, new teen drivers ages 16-17 are three times as likely as adults to be involved in a deadly crash, and there are more daily deaths in crashes involving teen

drivers during the summer months than the rest of the year because teens tend to have more unstructured time behind the wheel.

Parents can help their teen driver stay safe by laying down ground rules before handing over the car keys. Talk to your teen about the dangers and consequences of driving too fast, impaired or distracted. You can also be a good role model by practicing safe driving habits. *For more information visit <https://www.nhtsa.gov/road-safety/teen-driving>* ~

## KEEP YOUR DOGS COOL THIS SUMMER

Every year, dogs suffer and die when their guardians make the mistake of leaving them in a parked car – even for “just a minute” – while they run an errand.

Parked cars are deathtraps for dogs; on a 78-degree day, the temperature inside a parked car can soar to between 100 and 120 degrees in just minutes, and on a 90-degree day, the interior temperature can reach as high as 160 degrees in less than 10 minutes.

Animals can sustain brain damage or die from heatstroke in just 15 minutes. Beating the heat is challenging for dogs because they can only cool themselves by panting and by sweating through their paw pads.

If you see a dog left alone in a hot car, take down the car's color, model, make and license plate number and call 9-1-1. If possible, have someone keep an eye on the dog until help arrives. ~

## OVERNIGHT PARKING

By Village Ordinance, vehicles are not allowed to park on the street between the hours of 2 a.m. and 6 a.m. This ordinance helps to reduce crime and improve the overall safety and appearance of our community.

If you require an exception, call the Deerfield Police non-emergency number, 847.945.8636, before 2 a.m. and be prepared to provide the license plates of the

affected vehicles. ~

## 2022 COP ON A ROOFTOP

On Friday, August 19, Deerfield Police Officers will spend 5 a.m. to noon on the roof of our local Dunkin Donuts, 499 Lake Cook Road, not on surveillance, but rather raising awareness and funds for Special Olympics Illinois (SOIL).

This year marks the 20th anniversary of this partnership where, to date, more than \$6.7 million has been raised statewide. This is one of the many events the Police Department participates in annually as part of their commitment to the Law Enforcement Torch Run benefitting SOIL.

Consider a coffee run for your family or office on August 19. In return, you will not only be getting a great cup of coffee, you will also receive a coupon for a free donut and the satisfaction of knowing you have improved the life of an athlete.

The Police Department will also be selling SOIL merchandise and raffle tickets for a Harley Davidson and camper. We are hoping the Chicago Bears “Staley Da Bear” will join us again this year and help us meet our goal of raising \$3,000!

*For more information, please contact: Communications Director Mary Anne Glowacz at [mglowacz@deerfield.il.us](mailto:mglowacz@deerfield.il.us) or Desirae Kuceba at [dkuceba@deerfield.il.us](mailto:dkuceba@deerfield.il.us).*

## BIKE SAFETY BOOTH AT FARMERS MARKET

Join the Deerfield Police Department for a bike and pedestrian safety booth at the Deerfield Farmers Market on July 30 and August 13.

The Bike Safety Event will include bike officers and bike safety advocates who will talk about bike safety, bike maintenance and bike laws.

*For more information, e-mail Commander Oliver Cachola at [ocachola@deerfield.il.us](mailto:ocachola@deerfield.il.us)*



# PUBLICWORKS

## 2022 STREET REHABILITATION PROJECT UPDATE

The 2022 Street Rehabilitation Project was awarded in April and work began in early May. This \$3.3 million project consists of the full reconstruction or the resurfacing of selected streets, as well as the installation of new water main along Price Lane and Rosewood Avenue.

The following roads are associated with this year's project:

- Charing Cross from Pine Street to Indian Hill Road
- Gordon Terrace from Willow Avenue to Pine Street
- Kenmore Avenue from Hackberry Road to the south limits
- Montgomery Road from Wilmot Road to the west limits
- Plum Tree Road from Pine Street to Gordon Terrace
- Price Lane from Osterman Avenue to the north limits
- Rosewood Avenue from Birchwood to Kenmore Avenue
- Poet's Corner Subdivision (Longfellow Avenue, Byron Court, Hermitage Drive, and Whittier Avenue).

Many of the above locations are anticipated to be completed by early August and the remaining locations should be completed by the middle of September. ~

## FLOOD INFORMATION

### NATURAL & BENEFICIAL FUNCTIONS

Floodplains play a valuable role in providing natural and beneficial functions to Deerfield and the surrounding area to both human and natural systems. They provide aesthetic pleasure as well as improving the environment. Parts of both the Middle and West Fork of the North Branch of the Chicago River floodplain help filter chemical run-off so that these areas can maintain bio-diversity and ecosystem sustainability. Both floodplains

also contain historic and archeological sites that provide opportunity for education and study. They enhance waterfowl, fish and other wildlife habitats and provide feeding/breeding grounds. Lastly, both floodplains provide open space and natural erosion control to reduce further flooding damage.

### DRAINAGE SYSTEM MAINTENANCE

As simple as it may sound, keeping smaller ditches and streams free of debris can dramatically improve the run-off capacity of low-lying areas, as well as greatly reduce incidental blockage that significantly contributes to flooding. Drainage districts are charged with this responsibility.

Please note that it is illegal to dump materials into a required waterway and violators may be fined. If you see someone in the act of dumping or see debris in one of our watercourses, please contact the Village Engineering Department at 847.317.2490.

### FLOOD WARNING SYSTEM

Many times, flooding along the West and Middle Forks of the North Branch of the Chicago River within Deerfield can be predicted days in advance, giving ample warning for preparation and evacuation. In the event of a flash flood due to a large rain event, you may be the first to notice the oncoming situation, so please notify the Village Police Department/Fire District. You can also tune your radio to WGN-720 AM and WBBM-780 AM for local and national weather updates. You will also see regular interruption on local radio and television stations advising you of the situation.

### ADDITIONAL INFORMATION

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available

as well as other flood-related information. Contact the Engineering Department with questions at 847.317.2490.

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov](https://www.fema.gov) website
- Engineering Department, 465 Elm Street 847-317-2490
- Flood FAQs page on the Village's website, [www.deerfield.il.us](http://www.deerfield.il.us)
- Deerfield Public Library, 890 Waukegan Road 847.945.3311
- Union Drainage District #1 (West Fork) 847.945.0600
- Union Drainage District #1 (Middle Fork) 773.481.2700
- West Skokie Drainage District 312.782.4780 ~

## SAVE THE DATE: HARVEST FEST SEPTEMBER 17

Let's celebrate! Deerfield's Harvest Fest is back September 17 with fireworks and fun community events for everyone.



- Start the day at the Deerfield Farmers Market between 7 a.m. and 12:30 p.m. with special kids' activities and the popular touch-a-truck.
- Gates open at Shepard Park at 4:30 p.m. for events including live concerts from Maggie Speaks and Rosie and the Rivets, food, a beer tent, carnival games and fireworks.

Harvest Fest is hosted by the Village of Deerfield and the DBR Chamber of Commerce. Watch for an event mailer with more details and a list of sponsors in early September. ~




VILLAGE OF DEERFIELD

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

*This information is being published in accordance with the 1996 Safe Drinking Water Act, as directed by the United States Environmental Protection Agency.*

## INTRODUCTION TO WATER QUALITY REPORT

We are once again pleased and proud to present to you the Annual Water Quality Report. This Consumer Confidence Report (CCR) is designed to inform you about the water we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water. The Village is committed to ensuring the quality and delivery of your water. We hope you find this information useful. If you have any questions about this report or water quality, contact Tyler Dickinson, Responsible Operator In Charge, at 847.719.7463 or [tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us) or visit [www.deerfield.il.us](http://www.deerfield.il.us).

We are also pleased to report that the drinking water provided by the Village meets or exceeds all State of Illinois and United States Environmental Protection Agency (EPA) regulations and that we are not operating under any variance or exemption from the established drinking water regulations or standards. Opportunities for participation in the decision-making process that affects drinking water quality are also available at the Deerfield Village Board meetings on the first and third Mondays of every month. 

## ABOUT THE DATA

On the following pages you will find information regarding:

**Organic Carbon** – The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

**Turbidity (NTU)** – Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of water quality and the effectiveness of the filtration and disinfectants.

**Sodium** – There is no State or Federal maximum contaminant level (MCL) for sodium. Monitoring is performed to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. Those on a sodium-restricted diet should consult a physician about the level of sodium in the water.

**Lead & Copper** – The Village continues to be in compliance with regulations for lead and copper control. (See *Lead and Copper Explanation*).

**Unregulated Contaminants** – An MCL for this has not been established by either State or Federal regulations, nor has mandatory health effects language. The purpose for

monitoring this is to assist the U.S. EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

In addition to the above-mentioned tests, Deerfield continuously monitors and tests your water through our water control system as well as with weekly physical samples. These samples are submitted to the Central Lake County Joint Action Water Agency, an EPA certified laboratory, for analysis. This ensures a rapid response should there ever be a problem.

## GENERAL INFORMATION

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it can dissolve naturally occurring minerals and radioactive material and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

**Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

**Inorganic contaminants**, such as salts and metals, which can be naturally

occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.


**Pesticides and herbicides**, which may come from sources such as agriculture, urban storm water runoff and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.

**Radioactive contaminants**, which may be naturally occurring or the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection to ensure public health.

## Contaminants monitoring results

The Village of Deerfield and City of Highland Park routinely monitor for contaminants in your drinking water according to Federal and State laws. 

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

Containment (units)	EPA MCLG	EPA MCL	High-Level Found	Range of Detection	Violation	Date of Sample	Typical Source of Contamination
<b>Microbial Contaminants</b>							
Turbidity (%<0.3 NTU)*	n/a	0.3 NTU	100%	n/a	NO	2021	Soil runoff
Turbidity (1.0 NTU)* Highest measurement	n/a	1 NTU	0.30 NTU	n/a	NO	2021	Soil runoff
<b>Inorganic Contaminants</b>							
Barium (ppm)*	2	2	.019	.019-.019	NO	2021	Discharge from drilling wastes, metal refineries, erosion of natural deposits.
Fluoride (ppm)*	4	4	.752	.752-.752	NO	2021	
Sodium (ppm)*	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer/aluminum factories.
Nitrate (ppm) Measured as Nitrogen	10.0	10.0	.30	.30-.30	NO	2021	Erosion of natural deposits; Used as water softener. This contaminant is not currently regulated by the USEPA.
Coliform	0	0	0	0	NO	2021	Naturally present in environment
Fecal coliform or E. Coli. MCL: A routine sample and a repeat sample are total coliform and one is also fecal coliform or E Coli positive.							

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

<b>Disinfection / Disinfection Byproducts</b>							
Chlorine (ppm)	4	4	1.54	1.10-1.24	NO	2021	Water additive used to control microbes.
Total Haloacetic Acids [HAAS] (ppb)	n/a	60	27.6	7.8-35.3	NO	2021	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes] (ppb)	n/a	80	55.6	17.0-66.4	NO	2021	By-product of drinking water chlorination.

**Additional Unregulated Contaminants**

In an effort to ensure the safest water possible, the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants, only the ones listed below were found in your water.

Hardness Total (ppm)(as CaCo3)	n/a	n/a	140	140-140	NO	2021	Erosion of natural deposits.
Alkalinity	n/a	n/a	110	110-110	NO	2021	Erosion of natural deposits.
Total Dissolved Solids	n/a	n/a	310	310-310	NO	2021	Erosion of natural deposits.
Sulfate	n/a	n/a	23.0	23.0-23.0	NO	2021	Erosion of natural deposits.
Chloride	n/a	n/a	21.0	21.0-21.0	NO	2021	Erosion of natural deposits.
Calcium	n/a	n/a	35	35-35	NO	2021	Erosion of natural deposits.
Magnesium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.
Sodium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.


**LEAD AND COPPER - JANUARY 1 TO DECEMBER 31, 2021**

Lead MCLG	Lead Action Level (AL)	Lead 90th %-tile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th %-tile	# Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	0 ppb	0	1.3 ppm	1.3 ppm	0.19 ppm	0	Corrosion; erosion

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## LEAD AND COPPER TESTING

The IEPA lead and copper testing program began in 1992. Due to consistent low concentration levels of lead and copper, the Village has been placed on a reduced testing cycle by the IEPA and is only required to test every three years. Currently, a round of testing consists of 30 samples. Our most recent round of lead and copper testing took place in 2021 and Deerfield remains in compliance so as to continue with the IEPA-mandated reduced lead and copper testing cycle. Our next round of testing will occur in 2024.

The Village is in full compliance with all State and Federal regulations governing the control of lead and copper within public drinking water supplies. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When water has been sitting for several hours, minimize potential for lead exposure by flushing the tap for 30 seconds to 2 minutes before using water for drinking or cooking. Those concerned about lead in water, may wish to have their water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800.426.4791 or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead). 

## DEFINITIONS

In the previous tables you will find many terms and abbreviations with which you may not be familiar. To help you better understand these terms, we have provided the following definitions:

**ppm** - Parts per million or milligrams per liter (mg/L) – or one ounce per 7,350 gallons of water.

**ppb** - Parts per billion or micrograms per liter (mcg/L) – or one ounce per 7,350,000 gallons of water.

**ppt** - Parts per trillion or nanograms per liter (nanograms/L) – or one ounce per 7,350,000,000 gallons of water.

**NTU - Nephelometric Turbidity Unit**; used to measure the cloudiness in drinking water.

**% < 0.3 NTU** - Percent samples less than 0.3 NTU.

**Mrem/yr** - Millirems per year, used to measure radiation absorbed by the body.

**pCi/l** - Picocuries per liter; used to measure radioactivity.


**# pos/mo** - Number of positives per month.

**AL - Action Level** or the concentration of a contaminant that, if exceeded, triggers treatment or other requirements which a water system must follow.

**TT - Treatment Technique** or a required process intended to reduce the level of a contaminant in drinking water.

**MCL - Maximum Contaminant Level** or the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible, using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal** or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**n/a** - Not applicable. 

## LAKE MICHIGAN: OUR WATER SOURCE

The Village of Deerfield purchases all of its water from the City of Highland Park. Highland Park draws its raw water from a 54-inch intake pipe located a mile off shore in Lake Michigan at a depth of approximately 30 feet. In addition, there are two smaller pipes used as secondary intakes, which are 16 and 20 inches in diameter.

Lake Michigan, like the other Great Lakes, was formed as glaciers retreated north during the last ice age. Lake Michigan is the largest lake completely within the United States at 118 miles wide and 307 miles long. Lake Michigan averages 279 feet in depth and reaches 925 feet at its deepest point. The lake's drainage basin, which is approximately twice as large as its 22,300 square miles of surface water, includes portions of Illinois, Indiana, Michigan and Wisconsin. The Great Lakes are among the world's most valuable sources of fresh surface water. Almost half of all the liquid fresh water in the world is found in the Great Lakes. Most of the world's surface fresh water is locked away in the ice caps around the North and South Poles, which makes us appreciate the Great Lakes that much more.

All sources of drinking water, including Lake Michigan, are subject to potential contamination by items that are naturally occurring or man made. Those elements may be microbes, organic or inorganic chemicals or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants.

The presence of contaminants does not necessarily indicate that the water poses a health risk. Susceptibility is defined as the likelihood for the source water of a public water system to be contaminated at concentrations that would pose a concern.

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## OUR WATER SOURCE CONTINUED

The Illinois EPA (IEPA) considers all surface sources of the community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection, only dilution, hence the reason for mandatory treatment for all surface water supplies in Illinois.

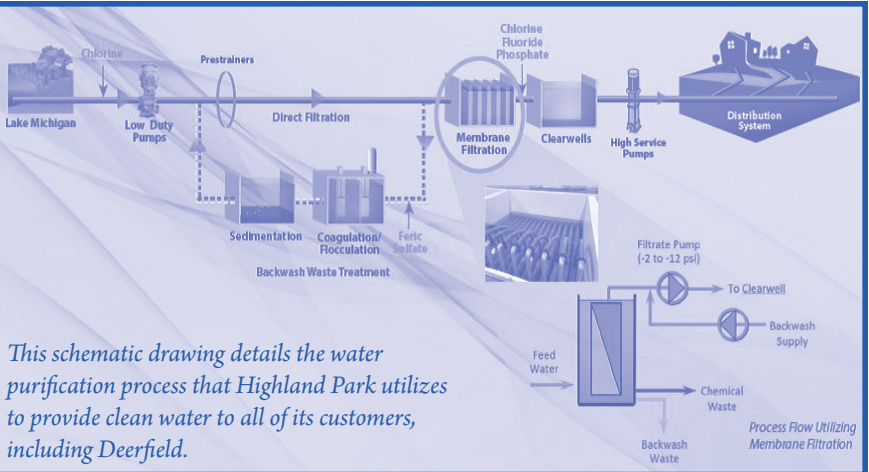
As previously mentioned, Highland Park has three intake lines. The 54-inch intake pipe is normally used alone with the two smaller intakes used to augment high demand or during maintenance of the 54-inch pipe. As these are closer to the shore, they have a greater susceptibility to be influenced by potential sources of contamination. However, regardless of which lines are used, the finished water leaving the Highland Park Water Plant always meets or exceeds all IEPA and EPA regulations.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800.426.4791. To access the Highland Park Water Assessment Summary, visit: [www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show\\_facility\\_detail&facility\\_number=0970500&cws=y](http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show_facility_detail&facility_number=0970500&cws=y).

## TOP 10 WAYS TO CONSERVE WATER

Conserving water is easy if you follow these helpful tips:

1. Test for a leaking toilet by adding food coloring to the tank. If any color appears in the bowl after 30 minutes, your toilet is leaking. Leaking toilets can waste thousands of gallons of water. Flush as soon as the test is done, since food coloring may stain the tank.



2. Use water-conserving plumbing fixtures and water-flow restrictors on sinks and showers. Bathroom facilities typically constitute 75% of the water used in homes.
3. Only run your dishwasher and washing machine when you have a full load.
4. Take a short shower instead of a bath. A bath uses 30 to 50 gallons of water. Showers use about a gallon of water per minute.
5. Store drinking water in the refrigerator instead of letting the tap run when you want a glass of cool water.
6. Never put water down the drain when there may be another use for it such as watering a plant or garden, or doing housework.
7. Be conscientious of the amount of water you use when running your garbage disposal. Have your food scraps cut into small pieces so they can be disposed of quickly, minimizing the amount of time you need to run the faucet. You can also compost instead.
8. For landscaping and gardens, choose plants that are native to the area in which you live or plants that are drought resistant. Native plants are accustomed to the natural amount of precipitation that occurs in the area where they are found and normally

do not require any additional watering. Group plants together based on similar watering needs.

9. Water your lawn and/or garden during the coolest part of the day to minimize evaporation. Apply water slowly, exactly where it is needed. Position sprinklers so that water lands on the lawn and shrubs, not on paved areas. Keep in mind that sprinkling restrictions are in place from May 15 - September 15.

10. Use a bucket of water and a spray head on the hose to wash your car. A running hose can waste hundreds of gallons of water in the time it takes to wash a car. ♻️

## SPECIAL INFORMATION

Some people may be more vulnerable to contaminants in drinking water. Immunocompromised individuals, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 800.426.4791. ♻️



The following is a synopsis of actions taken by the Village Board since the January/February issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved a Resolution to award the Village Hall monopole painting contract
- Approved a Resolution to award the monopole radio equipment contract
- Approved an Ordinance authorizing an amendment to the Deerfield Park Plaza Planned Unit Development for site changes and an amendment to the Goddard Special Use to permit the expansion of the Goddard School into the adjacent 471 Lake Cook Road tenant space in Deerfield Park Plaza Shopping Center
- Approved a Resolution to award chemical phosphorus removal project
- Approved the report and recommendation of the Greenhouse Gas Reduction Working Group regarding a Climate Action Report
- Approved a Resolution approving an intergovernmental agreement by and between the Village of Deerfield and the West Deerfield Township Assessor for access to Village permit and plan tracking system
- Approved a Resolution authorizing a grant to the Lake County Convention and Visitor Bureau

## HONORS AND RECOGNITIONS

- Recognized Rochelle Zell Jewish High School Model U.N. Team for eighth consecutive Team Award of Distinction
- Proclaimed May Mental Health Month
- Recognized Yaokai Yang, EIU Academic Challenge - Computer Science State Champion
- Proclaimed June LGBTQ Pride Month
- Proclaimed June 19, 2022 Juneteenth
- Proclaimed Neurofibromatosis Awareness Day

# COMMUNITYCALENDAR



### DEERFIELD PARK DISTRICT

For more information or to register for Park District programs, call 847.945.0650, or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

We Weekly summer camps are still available! Check out options in our Summer Camp Guide at [deerfieldparks.org/programguide](http://deerfieldparks.org/programguide) or stop by the park district today!

Bring your furry friend to Jaycee Park on July 16 for an afternoon of dog-friendly fun at Woofstock! Enjoy games and activities, music, snacks, and more! Register at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Enjoy Summer Concerts at Floral Park from 5 – 6:30 p.m. in July and August. Join your friends and neighbors, bring a picnic dinner, chair or blanket while different artists perform each week. Dates and artist bios can be found at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Put on your Blue Suede Shoes and get ready to Shake, Rattle and Mix at the Patty Turner Center as Highwood's very own Roger That takes to the stage to perform the jukebox hits of the 50s and 60s. Advanced registrations are required. For details please call: 847-940-4010

Open Pickleball at Sachs Recreation Center for all players no matter their age or ability level. Drop-in and play on one of our seven courts. The summer Open Play schedule runs June 13-August 12. Open Play is rack format M/W/F 8 a.m.-noon \$7R/9NR/Free for SRC Members

Eat to the Beat Concerts at Jewett Park Pavilion from 11:30 a.m. – 12:15 p.m. on July 6, 13, 20 & 27. Bring a picnic lunch, listen to music and play in the park!

Deerfield Family Theater auditions for Big Fish will be held the week of August 24. Visit [deerfieldfamilytheater.com](http://deerfieldfamilytheater.com) to select an audition slot!

### DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Register in advance by phone at 847.945.3311, online at [deerfieldlibrary.org](http://deerfieldlibrary.org), or in person at 920 Waukegan Rd. Online program description notes program platform (online, in-person, or hybrid).

Memory Café  
July 6, August 3, 10-11:30 a.m.  
The Café is offered to support and connect those experiencing memory loss and their care partner.

MakerSpace Open House  
July 8, 3-4 p.m., Grades 5+  
Come learn about amazing equipment and projects!

Blues 101 with Fruteland Jackson  
July 9, 2-3:30 p.m.  
Blues music history through song, lecture, and discussion.

Professor Moptop Presents Paul McCartney  
July 19, 7-8:30 p.m.  
The Professor will share videos, songs, and stories about John and the Fab Four.

Deerfield's Got Talent!  
July 26, 7-8:30 p.m., Students entering Grades 2 and up  
Share your special talent, and just come enjoy the show. All PG talents welcome!

Craftivism 101  
July 27, 4-5 p.m., Students entering Grades 4-8  
Are you creative, and care about the world? Learn how to combine these two things with Craftivism.

PLACE Programs: Community for Everyone

July 30, August 27, 6:30-7:30 p.m.  
PLACE welcomes adults with intellectual and developmental disabilities and their parents and caregivers. Join us for an evening of reading, conversation, and fun. For more info and to register contact Vicki Karlovsky, [vkarlovsky@deerfieldlibrary.org](mailto:vkarlovsky@deerfieldlibrary.org).

Bad Guys Party  
August 4, 4-5:30 p.m., Students entering Grades 1-5  
Call all Bad Guys fans! We'll play trivia, do a craft, and be GOOD.

Jutta & the Hi-Dukes Concert  
August 20, 2-3:30 p.m.  
Experience music from many different cultures and countries, and bring your dancing shoes!.

Unconventional Photography of Chicago  
August 31, 7-8 p.m.  
Learn how to keep your photography spontaneous! Cosponsored by the Village Fine Arts Commission

For more information and a full listing of events, please visit [www.deerfieldlibrary.org](http://www.deerfieldlibrary.org).



# COMMUNITY INFO

## TOWNSHIP UPDATES PARADE COOLING CENTER

West Deerfield Township's lobby will serve as a cooling center during the July 4th parade. Stop in at 601 Deerfield Road to take a break from the heat or grab a refreshing bottle of water.

## ASSESSOR'S OFFICE

Please visit the Assessor's office weekdays between 8:30 a.m. and 4:30 p.m. to meet the new staff that is here to help you. We've been hard at work helping residents file for all the exemptions they qualify for, please stop in to make sure you're getting all the savings available.

Assessment notices for 2022 will be posted

and mailed out mid-August this year. The 30-day window to appeal your assessments begins that day, so don't delay filing once you receive your blue assessment notice. We'll be here to assist you with that too.

Contact the Assessor's Office at 847.945.3020 or [assessor@wdtassessor.org](mailto:assessor@wdtassessor.org).

## "GREEN UP" YOUR PARKWAY WITH THE 50/50 TREE PROGRAM

The Deerfield Public Works Department offers a 50/50 program that allows residents to pay 50% of the cost for a new parkway tree (plus the \$80 planting fee) while the Village pays the remaining 50%.

Your tree is guaranteed for one year and will be planted for you in the fall by the Public Works Department. Trees will be planted in the parkway only and cannot be planted on private property - this program is for residential properties only.

The application for the program is available in person or online at [www.deerfield.il.us](http://www.deerfield.il.us). After making your tree selection, fill out our Tree Order Form and return it to us with a check in the proper amount. The deadline for ordering trees is August 30.

To learn more about the program and to see which trees are available for planting, visit [www.deerfield.il.us](http://www.deerfield.il.us) or contact Public Works at 847.317.7245.

59<sup>th</sup> Annual

# DEERFIELD

## Family Days

[www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### Sunday, July 3rd Brickyards Park

5:00 p.m. Festivities Begin: Concession sales (food and soft drinks available)

5:00 p.m. to 8:00 p.m. Inflatables, Rides and Carnival Games

6:00 p.m. Entertainment by Energy Productions!

7:00 p.m. Raising of the Flag by the American Legion and singing of the National Anthem

Dusk Fireworks

### Monday, July 4th Jewett Park

8:00 a.m. Deerfield Rotary Club 5k Race: Registration from 7:15 a.m. to 7:45 a.m. Starts at Maplewood Park. Register at [www.deerfield.il.us](http://www.deerfield.il.us)

8:00 a.m. to 10:30 a.m. Breakfast in the Park by the Wild Roaster

8:00 a.m. to 3:00 p.m. Arts and Crafts Fair

8:30 a.m. to 9:00 a.m. Bike Parade: Parking lot at Rosemary and Deerfield Bike parade starts at 9:00 a.m. and bikes must be pre-decorated

8:45 a.m. to 10:00 a.m. Dog Show: BYOD (Bring Your Own Dog)

10:00 a.m. to 2:00 p.m. Sensory Friendly Play Area

10:00 a.m. to 3:00 p.m. Inflatables, Rides, Carnival Games, Concessions and Corporate Booths

11:00 a.m. to 3:00 p.m. Flower Show: New Location - Jewett Park Pavilion  
Submit flowers for judging from 8:00 a.m. to 10:00 a.m.

12:00 p.m. SPECTACULAR PARADE  
Parade Marshals: Mayor Emeritus Harriet Rosenthal and The League of Women Voters  
Parade Route: Deerspring Pool to Waukegan Road, Waukegan Road to Hazel Avenue, ending at Jewett Park

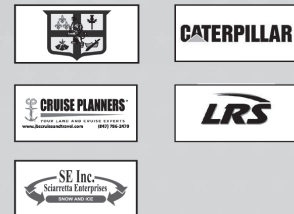
1:00 p.m. to 5:00 p.m. Free Swimming for everyone at Deerspring Pool and Mitchell Pool

*All adults and children going on rides or inflatables must have wristband-no exceptions. Wristband sales are cash only.*

### Food Vendors

- Donut Jester      My Funnel Truck
- Judy's Pizza      Nothing Bundt Cakes
- Mario's Cart      ...and more!

### Thank you to our Gold Sponsors



### Thank you to our Bronze Sponsors



CELEBRATE 59 YEARS OF FIREWORKS, FOOD AND FUN WITH FAMILY AND FRIENDS!  
Thank you to all local partners!





## LAWN IRRIGATION RPZ REGULATIONS

As a reminder, all irrigation systems are required to have a backflow prevention device called a Reduced Pressure Zone Backflow Preventer (RPZ). This must be certified annually by a licensed Cross Connection Device Inspector. This testing and certification must be completed every year prior to the system going into service.

The Village has contracted with Backflow Solutions, Inc. (BSI) to administer the backflow prevention tracking program. The annual backflow assembly test report must be submitted electronically by your inspector via the BSI Online system at [www.BsiOnline.com](http://www.BsiOnline.com).

For more information, contact the Public Works Department at 847.317.7245. ☞

## YARD WASTE REMINDERS

Any yard waste placed in your compost container does not require a sticker. Yard waste can be placed in the compost container year-round and does not require a sticker. Yard waste stickers will be needed for bag service, and may be purchased at Village Hall and retailers that currently sell stickers. Stickers cost \$3.00. ☞

## SPRINKLING RESTRICTIONS

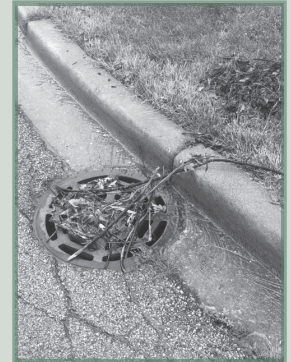
The Illinois Division of Water Resources requires that municipalities using Lake Michigan water restrict lawn sprinkling between May 15th and September 15th. Accordingly Deerfield's restrictions during this period are as follows:

- Even numbered addresses may sprinkle on even numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Odd numbered addresses may sprinkle on odd numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Sprinkling is not allowed for anyone between the hours of noon to 6:00 p.m. ☞

## GRATE KEEPERS PROGRAM PROTECTS WATERWAYS

Become a gate keeper of our waterways by registering for the Village's Grate Keepers Program. Residents and businesses can adopt the storm water inlets near their property and pledge to clean the areas around them to reduce local flooding and keep litter and yard waste from polluting local waterways and impeding proper flow.

Using the Villages GIS mapping program, residents can search their neighborhood to find nearby grates. Then they get to name their grate and show their commitment to reduce trash and organic pollutants.



Rain washes anything that's on streets and paved surfaces down storm drains and into the local branches of the Chicago River, and eventually to the Mississippi River and to the Gulf of Mexico. Dog waste carries harmful bacteria. Leaves, grass and dirt feed algae and turn lakes and rivers green. Trash clogs drains and pipes, causing flooding.

With more than 4,000 individual inlets and catch basins in the Village, this is a task that Public Works cannot tackle all on its own.

Participants will be sent a welcome packet containing instructions on how to properly clean around storm grates, materials needed and safety information. The Village will send emails to participants a few times a year reminding them of their commitment. To register, visit [www.deerfield.il.us/gratekeepers](http://www.deerfield.il.us/gratekeepers).

For more information, contact Communications Coordinator David Fitzgerald-Sullivan at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us) or at 847.719.7400. ☞

## STAY CONNECTED WITH THE VILLAGE ON SOCIAL MEDIA

The Village of Deerfield is on social media and invites residents to connect with us to receive valuable information. Like and follow the Village of Deerfield here:

- [Facebook.com/VillageofDeerfield/](https://www.facebook.com/VillageofDeerfield/)
- [@Deerfield\\_IL](https://twitter.com/Deerfield_IL)
- [Instagram.com/villageofdeerfield/](https://www.instagram.com/villageofdeerfield/)  
(@villageofdeerfield)

You can also register to receive the weekly e-blast with Village news and events at [www.deerfield.il.us](http://www.deerfield.il.us). Simply click the "Notify Me" icon on the homepage.

We encourage you to submit your questions, comments and concerns and look forward to engaging with the community further!

For more information, contact David Fitzgerald-Sullivan, Communications Coordinator at 847.719.7400 or by email at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us). ☞



VILLAGE OF DEERFIELD

D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

PRESORTED  
STANDARD U.S.  
POSTAGE  
PAID  
Permit No. 1  
Deerfield, Illinois

POSTAL CUSTOMER  
DEERFIELD, ILLINOIS 60015



## VILLAGENOTES

# FOOD Truck



## Thursdays

**June 23, July 21, August 18**

4:30 p.m. to 8 p.m. at Jewett Park Hazel Avenue Parking Lot

**Live Music | Kids Activities**

Sponsored by: The Village of Deerfield



Village Officials:

**Mayor:**

**Daniel C. Shapiro** - 312.763.9640  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

**Trustees:**

**Robert "Bob" L. Benton** - 847.945.1570

Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)

**Larry Berg** - 847.612.0777

Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)

**Elaine Jacoby** - 847.644.3354

Email: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)

**Rebekah Metts-Childers** - 847.899.1449

Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)

**Mary M. Oppenheim** - 847.948.9423

Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)

**William S. Seiden** - 847.945.2442

Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

**Village Manager:**

**Kent S. Street** - 847.719.7400

E-mail: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

**Village Hall/Police Department**

850 Waukegan Road

Deerfield, Illinois 60015

847.945.5000 (Switchboard and Finance)

847.719.7484 (Community Development)

847.945.8636 (Police non-emergency)

**Public Works and Engineering**

465 Elm Street

847.317.7245

847.317.2490 (Engineering)

## 2022 DRAINAGE ISSUES

No.	Date:	Location	Reported By:	Via	Staff	Phone	Email	Status	Notes	
	1/5/2022	480 Standish	Adam Millstein	Phone/Field	TKD	312-543-8961	<a href="mailto:Adam.Millstein@coronishealth.com">Adam Millstein &lt;amillstein@coronishealth.com&gt;</a>			
	3/10/2022	408 Willow	Mike - H.O.	Phone	JSG	847-275-2223				
	3/15/2022	443 Hermitage	Carol Schiffels	Email	TKD		<a href="mailto:carolyn.schiffels@cschiffels@gmail.com">carolyn schiffels &lt;cschiffels@gmail.com&gt;</a>			
	3/25/2022	95 Shenandoah	Ms. Salk	Phone/Field	TKD	847-254-7201				
	3/29/2022	512 Pine	Bill Raubolt	Phone/Field	TKD	847-828-8902				
	3/31/2022	1035 Park Ave	Donna Stuppel	Letter	JG	847-945-1748				
	4/1/2022	440 Susan	Revive your Lawn	Permit Application		Revive Your Lawn 630-890-9387	<a href="mailto:Revive / Trimlight Office &lt;reviveyourlawn@gmail.com&gt;">Revive / Trimlight Office &lt;reviveyourlawn@gmail.com&gt;</a>			
	4/1/2022	915 Kenton	Ms. Anderson	Phone/Field	TKD	847-714-7005				
	4/1/2022	1310 Carlisle	Aaron & Emily Kaffen	Phone/Field	TKD		<a href="mailto:Emily &amp; Aaron Kaffen &lt;kaffen.home@gmail.com&gt;">Emily &amp; Aaron Kaffen &lt;kaffen.home@gmail.com&gt;</a>			
	4/6/2022	1730 Clavinia	Ronnie Hirsch	Phone/Field	TKD		<a href="mailto:Ronnie Hirsch &lt;ronniu312@gmail.com&gt;">Ronnie Hirsch &lt;ronniu312@gmail.com&gt;</a>			
		1720 Clavinia	Neighbor							
		615 Castlewood	Neighbor							
	4/6/2022	8 Forestway	Carlos & Dana Pero	Online/Field	TKD		<a href="mailto:Carlos Pero &lt;carlos.pero@gmail.com&gt;">Carlos Pero &lt;carlos.pero@gmail.com&gt;</a>			
	4/6/2022	719 Pine	Bappa Rey	Phone	TKD		<a href="mailto:Bappaditya Ray &lt;raybappaditya@gmail.com&gt;">Bappaditya Ray &lt;raybappaditya@gmail.com&gt;</a>			
	4/7/2022	920 Brand	Eric Block	phone message	JG	847-471-9897				
	4/7/2022	500 Indian Hill	Jaimee Kohn	phone message	JG	917-562-9780				
	4/7/2022	434 Poplar	HOA	field/phone	TKD		<a href="mailto:james@mckenziemanagement.com">james@mckenziemanagement.com</a>			
	4/7/2022	435 Carriage way		Online/Field	RWP					
	4/7/2022	1227 Dartmouth	Frank	Phone/Field	TKD	847-431-5054				
	4/7/2022	615 Bent Creek	Matt Candela	Phone/Field	TKD	313-587-6833	<a href="mailto:mattcandela@gmail.com">mattcandela@gmail.com</a>			
	4/10/2022	1423 Greenwood	Gavin Speirs	email	JSG		<a href="mailto:Gavin Speirs &lt;gspeirs@twinorchardcc.org&gt;">Gavin Speirs &lt;gspeirs@twinorchardcc.org&gt;</a>			
	4/11/2022	620 Carlisle	Jim Levie	Phone/Field	TKD		<a href="mailto:j.levie@comcast.net &lt;j.levie@comcast.net&gt;">j.levie@comcast.net &lt;j.levie@comcast.net&gt;</a>			
	4/11/2022	375 Craig Ct	Caren Wax	Phone/Field	TKD	312-933-8299				
	4/12/2022	434 Poplar	Mike Friman	field/phone	TKD					
	4/13/2022	1160 Kenton	Dimitry Rozental	Phone/Field	TKD	312-375-0144				
	4/22/2022	1720 Mountain Dr	H.O.	phone	PW					
	4/25/2022	1449 Wincanton	Judy Mason	Phone	TKD		<a href="mailto:judy mason &lt;judydm927@sbcglobal.net&gt;">judy mason &lt;judydm927@sbcglobal.net&gt;</a>			
	4/25/2022	1513 Dartmouth Ln	Preston Fry	email	JSG		<a href="mailto:prestonjry@gmail.com">prestonjry@gmail.com</a>			
	5/1/2022	443 Hermitage	Carol Schiffels	Email	TKD		<a href="mailto:carolyn.schiffels@cschiffels@gmail.com">carolyn schiffels &lt;cschiffels@gmail.com&gt;</a>			
	5/2/2022	1044 Knollwood	Greg Venburg	Email	TKD		<a href="mailto:Greg Venburg &lt;greg.venburg@gmail.com&gt;">Greg Venburg &lt;greg.venburg@gmail.com&gt;</a>			
	5/3/2022	1565 Samanthas Way	Miranda Maslak	Email/phone	TKD	913-707-6977	<a href="mailto:Miranda Maslak &lt;miranda.maslak@gmail.com&gt;">Miranda Maslak &lt;miranda.maslak@gmail.com&gt;</a>			
	5/3/2022	1038 Kenton	Barbara Korobkin	Phone	JSG	847-494-3210	<a href="mailto:Barbara Korobkin &lt;bkorobkin@gmail.com&gt;">Barbara Korobkin &lt;bkorobkin@gmail.com&gt;</a>			
	5/3/2022	1230 courier ct	Bernard Turnoy	email	TKD		<a href="mailto:turnoy@aol.com">turnoy@aol.com</a>			
	5/4/2022	920 Brand Ln	Eric Block	email	RWP		<a href="mailto:Eric Block &lt;ericblock7@outlook.com&gt;">Eric Block &lt;ericblock7@outlook.com&gt;</a>			
	5/3/2022	485 Carriage Way	lisa Schurgin	Phone/field	JSG	773-320-0682	<a href="mailto:lbs2@yahoo.com">lbs2@yahoo.com</a>			
	5/3/2022	1760 We Go Trail	Mr. Thal	Email/Field	JSG		<a href="mailto:mthal.mt@gmail.com">mthal.mt@gmail.com</a>			
	5/3/2022	1560 Woodvale	Jerry	field/email	PW	847-812-6555	<a href="mailto:cathy.jerry.z@gmail.com">cathy.jerry.z@gmail.com</a>			
	5/6/2022	315 Willow	Nick Gutwirth	Phone/Field	TKD		<a href="mailto:Nicholas G &lt;ngutwirth@gmail.com&gt;">Nicholas G &lt;ngutwirth@gmail.com&gt;</a>			
	5/10/2022	1707 Garand	Michael Meyers	Phone/Field	TKD	630-408-2280				
	5/10/2022	1516 Rosewood	Mrs. Schwartz	Phone/Field	JSG					
	5/10/2022	1140 Prairie	Linda Trytek	Phone/Field	TKD	847-940-9554				
	5/10/2022	1230 courier ct	Bernard Turnoy	Phone/Field	TKD		<a href="mailto:turnoy@aol.com">turnoy@aol.com</a>			
	5/10/2022	1431 Northwoods	Pam Katz	Phone/Field	TKD	(847)372-3271	<a href="mailto:Pamela Katz &lt;pamelakatzphotography@gmail.com&gt;">Pamela Katz &lt;pamelakatzphotography@gmail.com&gt;</a>			
	5/11/2022	85 Bent Creek	Nont	Phone/Field	TKD	412-596-8462				
	5/11/2022	520 Briehill	Susan O'Malley	Phone/Field	TKD	847-624-7609	<a href="mailto:Susan O'Malley &lt;somalley779@gmail.com&gt;">Susan O'Malley &lt;somalley779@gmail.com&gt;</a>			
	5/11/2022	430 Circle	Neighbor	Phone/Field	TKD					
		429 Circle	Danny Rudolph				<a href="mailto:Danrudyrudolph@aol.com">Danrudyrudolph@aol.com</a>			
		434 Circle	Beth A Zemach				847-921-5349	<a href="mailto:iambz123@gmail.com">iambz123@gmail.com</a>		
		1425 Central	Lara Wilson				847-845-1399	<a href="mailto:Larawilson78@gmail.com">Larawilson78@gmail.com</a>		Circle Ct / Central Neighbors
	5/13/2022	1009 Meadowbrook	Bennet Schwartz			847.828.7878	<a href="mailto:BSchwartz@JDIREALTY.COM">BSchwartz@JDIREALTY.COM</a>			
	?	316 Willow	Aaron Robbin	email	JSG		<a href="mailto:Aaron Robbin &lt;aaron@arobbin.net&gt;">Aaron Robbin &lt;aaron@arobbin.net&gt;</a>			
	5/13/2022	1256 oxford	Jason Elsner	Phone/field	JSG	847-910-9309	<a href="mailto:Jason &lt;jasonre@comcast.net&gt;">Jason &lt;jasonre@comcast.net&gt;</a>			
	5/13/2022	513 Grove	Jeff Kaplan	Phone/field	TKD	917-363-0787	on file			



### FEMA Map Information Inquiry Log

Date	Type	Address	Panel	Zone	Floodplain	Floodway	Elevation	Insurance Information Given (Yes/No)	Historical Flood Info	Wetland
Spring	T	1665 Cranshire Ct	286K	AE	Y	N	659	Y	N	N
Spring	T	770 Tanglewood Ct	286K	AE	Y	N	653	Y	N	N
6/25/2022	E	652 Deerpath	286K	AE	N	N	656	N	N	N
6/25/2022	T/E	535 Shannon	286K	AR	Y	Y	653			
			286K							
			286K							
			286K							
			286K							
Summer	T	1040 Illinois Trail	286K	AE	Y	Y	658	Y	N	N
			286K							
Fall	T	1654 Cranshire Ct	286K	AE	Y	N	659	Y	N	N
Fall	T/E	560 Brierhill Rd	286K	AE	N	N	667	Y	N	Y
11/29/2022	T	480 Carriage Way	286K	AE	Y	Y	653	N	Y	N
			286K							

Type Codes:

W - Walk-in

V- Verbal

WR - Written

H - Hand -out

T - Telephone

E - email

OM - Onsite Meeting

V- Verbal

WR - Written

WS- Website Submitted / FOIA

V- Verbal

WR - Written

N/A - Not Applicable



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 330 - Outreach Projects

Dear Mr. Arkens:

The Village of Deerfield sent four installments concerning Deerfield Floodplain information in the May/June 2022, July/August 2022, and September/October 2022 editions of D-Tales. One of each newsletter was mailed to every residence and they are all available on the Village website. The Department also mails out letters to properties within the repetitive loss area and a copy of the maps, letters, and mailing list is provided in Activity 502. Additionally, the Department mails out real estate brochures to industry professionals. A copy of the letter, brochures, and mailing list is provided in Activity 340. Activities 360 and 540 are included in these mailings and newsletters.

The Village of Deerfield Engineering Department includes a public works table with FEMA and Flood Insurance Information kiosk at the Public Works Open house. The event is advertised to all residents and open to the public. A licensed professional engineer runs the table and advises people about the resources available at the Engineering Department and online. A photo has been provided of the table at the May 2022 event showcasing the provided FEMA related materials.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

# VILLAGE OF DEERFIELD

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000

Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

## MEETING SCHEDULE

Meeting times/dates subject to change.

*For a complete list of meetings visit,  
[www.deerfield.il.us](http://www.deerfield.il.us)*

### May

Board of Trustees  
May 16, 7:30 p.m.

Plan Commission  
May 26 7:30 p.m.

Appearance Review Commission  
May 23, 7:30 p.m.

Volunteer Engagement Commission  
May 25, 6:30 p.m.

### June

Board of Trustees  
June 6 & 20, 7:30 p.m.

Family Days Commission  
June 6, 5:00 p.m.

Plan Commission  
June 9 & 23, 7:30 p.m.

Community Relations Commission  
June 14, 6:00 p.m.

Appearance Review Commission  
June 27, 7:30 p.m.

May/June 2022

Vol. 44 No. 3

# D-TALES

Your Municipal News Source

## MAYOR'S MESSAGE FROM DANIEL C. SHAPIRO

When I was sworn in as Mayor one year ago, I was unable to appreciate the many ways that being Mayor would be different from being a Trustee. I soon learned that it is the people.



One of the joys of being Mayor is talking to the many wonderful people I get to meet every day and the truly interesting events I have an opportunity to attend. Just last month, I was invited to help plant a tree at Walden Elementary for Arbor Day and saw the kindergartners perform a song and dance. I recently spoke at the Deerfield Rotary Club's 90th anniversary celebration and met a member who has been serving for 34 years.

Before Thanksgiving, Pastor Tim Higgins at North Suburban Free Church invited me to help out with their Project Share food drive, where 10,800 meals for families were collected. Over the winter holidays, I participated in my first area interfaith service with representatives from nearly every faith community in our area.

If you've never been to one, the DBR Chamber of Commerce puts together amazing ribbon cutting events for new businesses. It allows me the chance to meet new business owners investing in our community and learn what they have to offer.

My favorite events, though, are our Village events. They don't tell you when you're running for Mayor that they will bring you up on stage to sing with the band at Harvest Fest. Our Village staff does a great job planning and organizing behind the scenes to pull each one off. For example, planning is well underway for this year's Family Days, thanks to our Family Days Commission. I think it will be

*Shapiro Continued on Page 2*

## LARRY BERG REPLACES TOM JESTER ON VILLAGE BOARD

In March, Village of Deerfield Trustee Thomas "Tom" Jester submitted his resignation to Mayor Daniel C. Shapiro. Jester has been a Deerfield resident since 1976 and served 15 years on the Village Board, with one year remaining in his fourth term. On March 21, the Board of Trustees unanimously accepted Mayor Shapiro's appointment of Larry Berg to the position of Trustee to fill Jester's remaining term.

Jester is a former engineer and serves as a founding committee member on the Farmers Market Committee.

"It has been my privilege to serve the Village as have the many women and men who preceded me. I am pleased to have contributed to several advances over the years," Jester said.

Mayor Shapiro noted that Jester's breadth of experience helped the Village Board make more informed decisions.

"I cannot say enough about Tom and his incredible service to our Village. His experience and background allowed him to make valuable and thoughtful contributions to our Board for many years. We are very thankful to Tom. He will be missed," Mayor Shapiro said.

Berg, an attorney, previously served as the Chair of the Plan Commission, a role he has

*Trustees Continued on Page 2*

### CHECK IT OUT!

Page 2:

- Pride Month in Deerfield

Page 4:

- Public Works Open House May 21

Page 7:

- Food Truck Thursdays





*Shapiro Continued from Page 1*  
the best one yet.

I'm pleased to announce our newest event series – Food Truck Thursdays. On the third Thursday of each month this summer, we'll have local vendors, favorite regional food trucks and live music in the commuter parking lot at the corner of Jewett Park Drive and Park Avenue. Please come out with your friends, family and appetite.

Former Mayor Rosenthal once gave me a bit of mayoral advice – get your ice cream last. “When shopping as Mayor, you stop and talk to so many people it will melt before you get to the checkout.” If you see me out and about in town, please feel free to say hi and ask me about what is going on in the Village. Just check my cart for ice cream first.

I want to thank the Board of Trustees for all of our many accomplishments over the last 12 months. We've enacted regulations to increase affordable housing units in the Village, streamlined the approval process for businesses looking to locate here, approved new residential units and are getting ready to see the report from the Greenhouse Gas Reduction Working Group we created, to name just a few. Let's keep up the teamwork and momentum.

Lastly, as it seems we are working our way out of the COVID-19 pandemic, please continue to extend courtesy and grace to your neighbors. It's been a tough two years.

Best,  
Dan

*Trustees Continued from Page 1*

held since 2017. In addition, he served on the Commission since 2008. Prior to the Plan Commission, he served on the Board of Zoning Appeals. A Deerfield resident for 29 years, he is also a vice president on the Board of Directors of Shore Community Services, which provides services for individuals with developmental disabilities including early childhood intervention, developmental training, residential care,

respite care and vocational services.

“I am honored to have been appointed by Mayor Shapiro to the Board of Trustees. I look forward to serving the Village of Deerfield and its residents in this new position,” Berg said.

Mayor Shapiro said Berg's years of experience on the Plan Commission will be an asset to him in his new role.

“I am pleased to appoint Larry to Village Trustee,” Shapiro said. “Larry will have big shoes to fill, but given his many years on the Plan Commission, including as Chairman, I have no doubt that Larry will bring his energy and experiences to the Board in a very positive way.”

## JUNE 28 GENERAL PRIMARY ELECTION VOTING

The General Primary Election will be held Tuesday, June 28, 2022. Polls will be open 6 a.m. – 7 p.m. You can find your Election Day Polling Place at [LakeVoterPower.info](http://LakeVoterPower.info). Early Voting for the Primary only will be at West Deerfield Township: June 13 – June 25, Monday – Friday 9 a.m. – 5 p.m., and 9 a.m. – 2 p.m. on Saturdays. Early Voting is not available at this location on Sundays.

Registered voters in Lake County may use any Early Voting site in the county. Go to [LakeCountyClerk.info](http://LakeCountyClerk.info) for a complete list of early voting sites, and those with extended hours.

Voting by mail is available through the Lake County Clerk's office. Request a ballot by mail at [LakeVoterPower.info](http://LakeVoterPower.info) or call 847-377-2406. A drop-box for mail-in ballots will be available during Early Voting at the West Deerfield Township office.

Contact Township Clerk Kristen Scott at 847.945.0614 with any questions. ☺

## CELEBRATE PRIDE MONTH IN DEERFIELD

The Village Board recently approved the Community Relation Commission's

recommendation to recognize various heritage celebration months, starting with LGBTQ Pride Month in June.

On June 1, the Village will display the Pride flag at various locations and place rainbow-colored pinwheels in the front lawn of Village Hall that residents are encouraged to take home to display in their lawn as a sign of support of the LGBTQ community.

Mayor Shapiro will present a Pride Month Proclamation at the June 6 Board meeting to a Deerfield-based PFLAG (Parents, Families, and Friends of Lesbians and Gays) group that has been meeting in the Village for more than 25 years.

Then, on June 18, it's Pride Day at the Deerfield Farmers Market! LGBTQ community groups will have crafts and information while members of the Community Relations Commission hand out more of the rainbow pinwheels.

Residents can also join the Deerfield Library for year two of Queer Poem-a-Day, a special daily podcast series for Pride Month, featuring a recording of a poem written and read by a contemporary LGBTQIA+ poet for each day of June. It is presented with support from the Deerfield Fine Arts Commission and the Friends of the Deerfield Public Library. Find out more about participating poets and read and hear their poems at [deerfieldlibrary.org/queerpoemaday](http://deerfieldlibrary.org/queerpoemaday). Queer Poem-a-Day is directed by poet and educator Lisa Hiton, and Dylan Zavagno, Adult Services Coordinator at DPL.

As part of the new heritage celebration month initiative, the Village is also performing a comprehensive edit of the Municipal Code to remove outdated wording. For example, the Mayor and Trustees use default male pronouns in the code, despite just having a woman as mayor for 12 years and a Village Board comprised of 50 percent female Trustees at the moment. Policeman will be changed to “Police Officer” and outdated references to those in the disabled community will be removed. ☺



## CRIME PREVENTION TIPS FOR THE SUMMER

### Tips for Homeowners :

- Keep doors in your home and cars closed and locked, including garage doors. An open door is an invitation.
- Be a good neighbor and alert police to any unusual activity in your neighborhood. Plan for vacation by having your mail and newspapers stopped or having a neighbor pick them up. Leave inside lights on timers to create the impression that your house is occupied. Be sure to set your alarm system. Have a lawn service or neighbor mow your lawn.
- Avoid home improvement scams and deception burglaries by taking a proactive approach. Be particularly alert to anyone in your neighborhood looking to perform home repairs and asking to gain entry into your home. Ask to see identification and let them know you are going to call and get verification from their company before allowing them inside. If they are legitimate, they won't mind the wait.

### Tips for Drivers:

- Do not leave valuables or cash in your car. If you must leave items in the car, lock them in the trunk.
- Be alert for children playing in neighborhoods and residential areas.
- Drive safely and slowly around parks and playgrounds. More children are out playing during the summer.

### Tips for Parents:

- Provide a list of phone numbers of neighbors, family and friends that your child can call in an emergency. Make sure your child knows how to dial 9-1-1 and when it is appropriate to do so.
- Know the route your child will take to and from a given location. Remind your child never to take a shortcut or deviate from the agreed-upon route.
- Establish rules for using the internet. Children should have adult supervision

when online. Make sure your child knows to never give out personal information on the internet.

- Require your child to check in with a parent before leaving the house and when returning home. Teach your child that there is safety in numbers and that it is best to be with a group of friends when going places without an adult. ☞

## CURFEW APPLIES YEAR-ROUND, INCLUDING HOLIDAYS

The curfew law is applicable to those 17 and under. It is in effect Sunday through Thursday from 11 p.m. to 6 a.m., and Friday and Saturday from midnight to 6 a.m.

Drivers under the age of 18 may not operate a motor vehicle between 10 p.m. and 6 a.m., Sunday through Thursday, and between 11 p.m. and 6 a.m., Friday and Saturday. During allowed driving times, the number of passengers is limited to one person under the age of 20, unless the additional passenger is a sibling, step-sibling, child or step-child of the driver.

Exemptions in the law allow new drivers to drive to and from employment or school-sanctioned activities outside the restricted times. Underage drivers convicted of violating the driving curfew may have their driver's license suspended.

*For more information, contact Communications Director Mary Anne Glowacz at 847.945.8636 or [mglowacz@deerfield.il.us](mailto:mglowacz@deerfield.il.us)* ☞

## BIKE SAFETY TIPS

There are so many great reasons to ride your bike: It offers fun, freedom and exercise, and it's good for the environment. We want kids and families to ride their bikes as much as possible.

Here are a few tips so that you'll be safe while you do so:

- Wear a properly-fitted helmet.

Properly-fitted helmets can reduce the risk of head injuries by at least 45 percent – yet less than half of children 14 and under usually wear a bike helmet.

- Ride on the sidewalk when you can. If not, ride in the same direction as traffic as far on the right-hand side as possible.
- Use hand signals and follow the rules of the road. Be predictable by making sure you ride in a straight line and don't swerve between cars.
- Wear bright colors and use lights, especially when riding at night and in the morning. Reflectors on your clothes and bike will help you be seen.
- Ride with your children. Stick together until you are comfortable that your kids are ready to ride on their own.

## KEEP YOUR DOGS COOL THIS SUMMER

Every year, dogs suffer and die when their guardians make the mistake of leaving them in a parked car – even for “just a minute” – while they run an errand.

Parked cars are deathtraps for dogs; on a 78-degree day, the temperature inside a parked car can soar to between 100 and 120 degrees in just minutes, and on a 90-degree day, the interior temperature can reach as high as 160 degrees in less than 10 minutes.

Animals can sustain brain damage or die from heatstroke in just 15 minutes. Beating the heat is challenging for dogs because they can only cool themselves by panting and by sweating through their paw pads.

If you see a dog left alone in a hot car, take down the car's color, model, make and license plate number and call 9-1-1. If possible, have someone keep an eye on the dog until help arrives. ☞

## FOLLOW THE POLICE DEPARTMENT ON SOCIAL

Follow us at:

- [facebook.com/DeerfieldPD](https://www.facebook.com/DeerfieldPD)
- [twitter.com/DeerfieldILPD](https://twitter.com/DeerfieldILPD)



# PUBLICWORKS

## 2022 STREET REHABILITATION PROJECT

Bids for the Village of Deerfield's 2022 Street Rehabilitation Project were accepted in March and the project was awarded in the amount of \$3.27 million by the Village Board in April. Work started in early May and is expected to be complete by October.

The contract includes the reconstruction/rehabilitation of 12 streets within the Village. The following roads are associated with this year's project:

- Byron Court from Hermitage Drive to north limits
- Charing Cross from Pine Street to Indian Hill Road
- Gordon Terrace from Willow Avenue to Pine Street
- Hermitage Drive from Whittier Avenue to Byron Court
- Kenmore Avenue from Hackberry Road to the south limits
- Kipling Place from Deerfield Road to Longfellow Avenue
- Longfellow Avenue from Waukegan Road to Byron Court
- Montgomery Road from Wilmot Road to the west limits
- Plum Tree Road from Pine Street to Gordon Terrace
- Price Lane from Osterman Avenue to the north limits
- Rosewood Avenue from Birchwood Avenue to Kenmore Avenue
- Whittier Avenue from Hermitage Drive to the east limits.

Updates on the project will be shared via the Village website. Residents can sign up to receive email and/or text message updates on the project at [www.deerfield.il.us](http://www.deerfield.il.us) under "Notify Me."

*For more information, contact the Engineering Department at 847.317.2490.*

## WATER METER HEAD REPLACEMENT PROGRAM

Starting in late April, residents started to receive letters from United Meters

Inc. (UMI) asking them to schedule an appointment to have their water meter head replaced. The meter head is the part of the meter that transmits your water usage via radio frequency to the Village for billing purposes.

The letters from UMI will be sent out over the next few months by neighborhood to maximize efficiency.

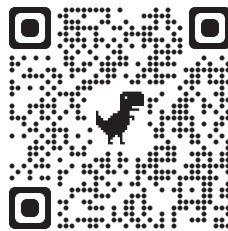
The Public Works Department began installing updated Orion radio frequency water meter heads in 2001 and many of the meter heads have now reached the end of their useful lifecycle.

Residents will schedule an appointment directly with UMI, who will dispatch licensed plumbers to complete the work. All UMI employees will wear a facemask and follow social distancing guidelines as part of the installation.

All UMI employees have been issued photo IDs by the Village that they will be able to display before entering your home.

Depending upon the location of your water meter, UMI may need to enter your home to complete the meter head replacement. Please ensure that UMI's licensed plumber has direct access to the meter before your appointment.

The meter head replacement should take 30 minutes or less and your water may need to be turned off during that time. Use your smart phone on the below QR code to watch a video explaining the process.



*For more information, please contact Justin Keenan, Assistant to the Village Manager, at 847.719.7462 or [jkeenana@deerfield.il.us](mailto:jkeenana@deerfield.il.us)*

## LAWN SPRINKLING AND IRRIGATION REGULATIONS

From May 15 through September 15, lawn sprinkling regulations are in place.

Even numbered addresses may water on even numbered dates from midnight to noon and/or from 6 p.m. to midnight. Odd numbered addresses may water on odd numbered dates from midnight to noon and/or from 6 p.m. to midnight. This applies only to lawn sprinkling.

As a reminder, all irrigation systems are required to have a backflow prevention device called a Reduced Pressure Zone Backflow Preventer (RPZ). This must be certified annually by a licensed Cross Connection Device Inspector. This testing and certification must be completed every year prior to the system going into service.

The Village has contracted with Backflow Solutions, Inc. (BSI) to administer the backflow prevention tracking program. The annual backflow assembly test report must be submitted electronically by your inspector via the BSI Online system at [www.BsiOnline.com](http://www.BsiOnline.com).

*For more information, contact the Public Works Department at 847.317.7245.*

## PUBLIC WORKS OPEN HOUSE – SATURDAY, MAY 21

Join the Village of Deerfield and Deerfield Park District from 10 a.m.-1 p.m. on Saturday, May 21, for a kid and adult friendly Open House at Deerfield's Public Works Facility, 465 Elm Street. Parking is available at the Patty Turner Center, 375 Elm Street.

This event is free for all ages and will feature:

- Tours & Exhibits
- Fun Giveaways
- Hands-On Activities
- Vehicles & Equipment
- Prizes
- Vendors & Education
- Public Works Merchandise

*For more information, contact the Public Works Department at 847.317.7245.*



The following is a synopsis of actions taken by the Village Board since the last issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved an Ordinance authorizing a Class A special use for a medical office located in the 740 Waukegan Road building in the Shops at Deerfield Square
- Approved a Resolution authorizing purchase of one Ford F-150 all-electric pickup truck
- Approved a Resolution authorizing award of contract for 2022 street light system upgrades
- Approved an Ordinance amending the Walgreens Planned Unit Development to allow a building addition to the 100 Wilmot Road Building and necessary site changes at the Walgreens Corporate Campus
- Approved an Ordinance approving the 2022 Zoning Map
- Approved a Resolution approving the preliminary development plan for Heritage Woods at 1101 and 1121 Lake Cook Road
- Approved a Resolution extending the final development plan for REVA Development in the Deerbrook Mall Planned Unit Development
- Approved a Resolution extending the final development plan for 8 Parkway North
- Approved a Resolution to award water meter head replacement contract
- Approved a Resolution to purchase water meter equipment
- Approved a Resolution to appoint special counsel regarding emergency water main connection
- Approved a Resolution authorizing an intergovernmental agreement by and between the Village of Deerfield and the Lake County Board of Health to provide supplemental animal care and control services
- Approved an Ordinance amending and revising the annual budget of the Village of Deerfield for the fiscal year beginning January 1, 2022, and ending December 31, 2022
- Approved an Ordinance amending Chapter 21 Article 3 regarding Plants and Weeds Maintenance
- Approved a Resolution to award contract for 2022 Street Rehabilitation Project
- Approved a Resolution to award contract for 2022 native vegetation maintenance and restoration
- Approved a Bio-Solids Removal Contract for 2022 Fiscal Year
- Approved an Ordinance amending sections 2-156 and 2-158 of the Municipal Code to eliminate the Village Center Commission and change the composition of other special purpose boards and commissions
- Approved an Ordinance to a special use to add six pickleball courts in Shepard Park at 440 Grove Place (Deerfield Park District)
- Approved an Ordinance Authorization an Amendment to a Commercial Planned Unit Development to redevelop the 728 Waukegan Road (Barnes and Noble) Space at the Shops at Deerfield Square

## PROCLAMATIONS AND HONORS

- Proclamation recognizing Arbor Day
- Proclamation recognizing Telecommunicator Week
- Proclamation recognizing Education and Sharing Day

# COMMUNITY CALENDAR



### DEERFIELD PARK DISTRICT

For more information or to register for Park District programs, call 847.945.0650, or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

Apply online NOW for Summer Jobs including Sports Camp Counselors, Swim Instructors, Parks Maintenance, Fitness Floor Attendant, Pool Cashiers and Food & Beverage Service at the Golf Course at [deerfieldparks.org/jobs](http://deerfieldparks.org/jobs)

Our Summer Program Guide is available online only. Visit [deerfieldparks.org](http://deerfieldparks.org) to view the online brochure full of classes and events.

Summer Concerts return to Floral Park on Sunday nights beginning June 19. Visit our calendar to check out the bands and our new special events including Woofstock at Jaycee Park in July! [deerfieldparks.org/events](http://deerfieldparks.org/events)

Pool passes are on sale now. Take advantage of our EARLY Bird rate through May 27.

Re-Use-A-Rama is returning to the Sachs Recreation Center on June 11 from 11 a.m. – 1 p.m. Visit [deerfieldparks.org/events](http://deerfieldparks.org/events) for a full list of accepted items!

Remaining permanent tee times for the 2022 season at Deerfield Golf Club are available at [deerfieldgolf.org](http://deerfieldgolf.org)

For more information or to register for Park District programs, call 847.945.0650 or visit [deerfieldparks.org](http://deerfieldparks.org)

### DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Program descriptions and advance registration at [deerfieldlibrary.org](http://deerfieldlibrary.org), click on "Programs" at the top. Questions? Email [reference@deerfieldlibrary.org](mailto:reference@deerfieldlibrary.org)

Coding for Game Design  
May 18, 4-5 p.m. Grades 6-12  
Learn how to code using Unity. No coding experience required.

Waking Up Your Bike for Summer  
May 19, 6:30-7:30 p.m.  
We will cover basic bicycle maintenance and repairs.

All Ages BINGO!  
May 24, 6:30-7:30 p.m.  
Bring a blanket and join us at the Jewett Park Pavilion.

Encanto Sing-along  
June 7, 10 a.m., All Ages  
Watch and sing along to Encanto!

Crafternoon: Pride Edition  
June 17, 3:30-4:45 p.m., Students entering Grades 3-8  
Celebrate Pride month featuring crafts

that celebrate LGBTQ+ identities.

PLACE Programs: Community for Everyone  
June 25, 6:30-7:30 p.m.  
PLACE welcomes adults with intellectual and developmental disabilities and their parents and caregivers. Join us for an evening of reading, conversation, and fun. To register contact Vicki Karlovsky, [vkarlovsy@deerfieldlibrary.org](mailto:vkarlovsy@deerfieldlibrary.org)

Transgender 101  
June 28, 7-8 p.m.  
Learn about key concepts and terminology related to transgender identity, and gain tools for being a supportive ally. Program is family-friendly and suitable for all ages.

For more information and a full listing of events, please visit [www.deerfieldlibrary.org](http://www.deerfieldlibrary.org)



## FARMERS MARKET

The Village and the Farmers Market Committee are looking forward to opening day of the 28th consecutive Deerfield Farmers Market season! Come join us at our new permanent location on Park Avenue between Jewett Park Drive and Hazel Avenue every Saturday morning, June 11 through October 15, from 7 a.m. to 12:30 p.m. With a bonus market date on the third Saturday in October, this is our longest market season to date. We have a lot of fun activities, entertainment and events planned to make this our best season yet!

Excitingly, the market will once again be focused on the promise of “food, friends and fun” with the return of many beloved market activities this season. This market promise will be delivered alongside our continued goal of presenting a market that is dedicated to providing fresh, locally grown and prepared food in a safe, open-air shopping experience.

This season, patrons will be able to enjoy many traditional market activities tailored to fit into our new market environment. Returning market activities will include live musical performances, kids’ activities, civic group participation, and special events. Some of these activities were present at the market in a reduced capacity last season, but will be returning to a full schedule this season.

Our Farmers Market Committee is currently busy planning and setting this schedule. The 2022 Farmers Market Events Calendar will be available on the Village’s website prior to the start of the season.

Please note that to ensure maximum safety, 2022 market rules will require:

- Social distancing measures to be in place
- A one-way market flow
- Vendors to be spaced out
- Availability of hand sanitization stations
- No bikes inside the market
- Dogs to be leashed on a 6-foot lead or less

The Village will continue to monitor existing guidelines from the CDC and make changes as necessary.

We are excited to celebrate this season with our dedicated market vendors and patrons and welcome any newcomers interested in joining us! We hope to see you at the market on Saturday mornings.

*For more information, visit [deerfield.il.us/Farmers-Market](http://deerfield.il.us/Farmers-Market)*

## 10 TIPS TO REDUCE MOSQUITOES

The South Lake Mosquito Abatement District offers the following tips to defend yourself from mosquitoes and the West Nile Virus.

Every week:

- Tip free-standing containers such as flowerpots, watering cans and buckets.
- Change the water and clean bird baths.
- Empty water that collects in folds of tarps
- Position corrugated drain pipes to ensure drainage or dump out water.

As necessary:

- Clean leaves and debris from gutters.
- Store or recycle old tires.
- Clear debris to allow water to flow freely from drainage ditches and culverts.
- Filter or aerate ornamental ponds using a circulation pump, or stock it with fish.
- Drain or fill-in areas of your yard that remain wet for more than a week.
- Check windows and screens for holes.

*For more information, visit [www.slmad.org](http://www.slmad.org)*

## TEENCONNECT

Deerfield’s TeenConnect program aims to connect teens who are able to do outside yard work, including lawn mowing, with Deerfield residents who need the service.

The TeenConnect list will provide contact information for Deerfield teens including

the name and phone number of the teen, days of availability, type of work they are willing to do and their expected rate of pay.

*For more information or to sign up, visit [www.deerfield.il.us](http://www.deerfield.il.us) or call the Village Manager’s Office at 847.719.7400.*

## VILLAGE VEHICLE STICKER REGISTRATION BEGINNING MID-MAY

Applications for 2022 vehicle stickers will be mailed in mid-May. Stickers must be displayed on all vehicles registered or garaged in Deerfield by July 1.

Stickers for passenger vehicles cost \$30 if purchased by June 30. After June 30, a 50 percent late penalty is assessed. If you do not receive your application, you still need to have your stickers by July 1.

Additional applications are available online or at Village Hall.

The Village offers an online payment system for vehicle stickers. Visit [www.deerfield.il.us](http://www.deerfield.il.us) and click the “Pay Online” button on the website’s homepage. There is no additional charge for online payment.

Additional vehicle sticker purchasing options include in-person at Village Hall, returning the renewal application by mail, or using the payment drop box located in the median just south of Village Hall on Jewett Park Drive.

This year’s vehicle sticker design features a “shop local” theme. The Village partnered with the DBR Chamber of Commerce to create this design in consideration of the economic impact that the pandemic has had on local businesses over the past two years.

Remember, the deadline to display a new 2022 sticker is July 1.

*For more information, contact the Finance Department at 847.945.5000 or visit [www.deerfield.il.us](http://www.deerfield.il.us)*



## DEERFIELD FLOOD INFORMATION

Special Flood Hazard Areas (100-year floodplain) in the Village of Deerfield are located near the Middle Fork and West Fork of the North Branch of the Chicago River. The eastern portion of Deerfield is in the Middle Fork watershed, while the western part of town is in the West Fork watershed. For a detailed map visit the Village of Deerfield website [www.deerfield.il.us](http://www.deerfield.il.us) under maps and information.

Information on whether your property is in the 100-year floodplain can be obtained by visiting the Engineering Department and having a staff member help you.

Contact the Engineering Department at 847.317.2490 for further assistance.

## FLOOD SAFETY

The following common-sense guidelines can help protect you from the dangers of flooding:

- Do not drive through a flooded area. More people drown in cars than anywhere else. Do not drive around barriers.
- Do not walk through flowing water. Currents can be deceptive. Six inches of water can knock you off your feet.

## FLOOD RECOMMENDATIONS

- Stay away from power lines and electrical wires. If your house is about to be flooded, turn off the power at the service box. Electrical current can travel through water. Electrocution is the second leading cause of death during floods.
- Be alert for gas leaks. Turn off the gas to your house before it floods. If you smell gas, report it to a Village official or your gas company. Do not use candles, lanterns or open flames if you smell gas or are unsure whether your gas has been shut off.
- Keep children away from the flood waters, ditches, culverts and storm drains. Flood waters can carry items that have dislodged themselves.
- Clean everything that has been wet.

Flood water will be contaminated with sewage and other chemicals that pose severe health threats.

- Look out for animals, especially snakes. Small animals flooded out of their homes may seek shelter in yours.
- Do not use gas engines, such as generators, or charcoal fires indoors during power outages. Carbon monoxide exhaust can pose serious health hazards.

More detailed information regarding flood-related issues in Deerfield is available from:

- [FEMA.gov](http://FEMA.gov)
- Village of Deerfield Engineering Department:  
847.317.2490  
465 Elm Street  
Deerfield, IL 60015
- Deerfield Public Library:  
847.945.3311  
920 Waukegan Road  
Deerfield, IL 60015

## DEERFIELD AREA HISTORICAL SOCIETY

The Deerfield Historic Village will be open for tours Sundays 2 p.m. to 4 p.m., June thru September.

The site, located at the southwest corner of Kipling & Deerfield Roads, includes the Caspar Ott log cabin (the oldest house in Lake County), the little red school house, the carriage house, and the Luther and Sack homes - take a step back in time!

## FALL FESTIVAL

Join us Sunday Sept. 11, 2022, noon to 4 p.m. at the Deerfield Historic Village. Enjoy an afternoon with fun for the whole family - activities, exhibits, crafts, tours of historic buildings - step into Deerfield's past.

The Historical Society is looking for local adult traditional crafters, who would like to join the DAHS Fall Fest. Show off your talent - knitting, weaving, hooking, wood-working, etc. Demonstrate your craft (if possible) and sell your wares. If interested, email [deerfieldhistory@gmail.com](mailto:deerfieldhistory@gmail.com) for an application.

## VOLUNTEERS WELCOME

The Deerfield Area Historical Society survives because of its volunteers. Please consider joining us. If you have an interest in volunteering for events, helping with the website, corporate fundraising, gardening, giving tours, etc., please email us at: [deerfieldhistory@gmail.com](mailto:deerfieldhistory@gmail.com) 🐾

## DEERFIELD ROTARY CLUB CELEBRATES 90 YEARS

The Deerfield Rotary Club celebrated their 90th Anniversary on Wednesday, May 4, at the Marriott Suites Deerfield.

The object of Rotary is to encourage and foster the ideal of service. The Deerfield Rotary Club has supported and spearheaded many community initiatives including Deerfield's first paramedic ambulance, Family Days SK Race, and defibrillators in Deerfield schools.

Deerfield Rotary members have donated over \$300,000 to the Rotary Foundation for World Polio Eradication and shelter boxes for disaster areas around the world.

*The Deerfield Rotary Club meets every Thursday at Italian Kitchen, 648 Deerfield Road at noon.* 🐾

## FOOD TRUCK THURSDAYS

Join us this summer for Food Truck Thursdays at the Deerfield Road commuter parking lot (former Farmers Market lot) one Thursday per month.

The Village will host food trucks and local vendors from 4:30 to 8 p.m. on June 23, July 21 and August 18. Live music and kids' activities will run from 5 p.m. to 7 p.m.

The food vendors and entertainment will rotate month to month, so be sure to come back and check it out.

*For more information, contact Assistant to the Village Manager Justin Keenan at 847.719.7462 or [jkeenan@deerfield.il.us](mailto:jkeenan@deerfield.il.us).*



D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

VILLAGE OF DEERFIELD

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VILLAGENOTES



Deerfield  
**FAMILY DAYS**  
It's a blast!

SAVE THE DATE!

DEERFIELD FAMILY DAYS 2022  
JULY 3 & 4

**JULY 3- BRICKYARDS PARK:**

The Park will open at 5 p.m.  
Fireworks, Food Vendors, Games & Live Entertainment!

**JULY 4 - JEWETT PARK:**

All-day (8 a.m. - 3 p.m.)

Activities include: Pancake Breakfast, Dog Show, Arts and Crafts Fair, Parade, 5K Run, Bike Parade, Flower Show, Petting Zoo, Games & Rides!

**DONATIONS:** Family Days is funded by sponsors and donations from local residents and the Village. Please consider making a donation to Family Days at Village Hall or at [www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays). Donations help pay for the July 3 Fireworks and the July 4 Parade.

**PARADE ROUTE:** Please note that the Family Days Parade will start at Deerspring Pool, go west on Deerfield Road, north on Waukegan Road, turn west onto Hazel and end on Park Avenue.

**5K ROTARY RACE:** Register for the race at [www.deerfield.il.us](http://www.deerfield.il.us).

**QUESTIONS?:** Contact Justin Keenan, Assistant to the Village Manager, at 847.719.7462. ☎

Village Officials:

Mayor:

Daniel C. Shapiro - 847.514.3754  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

Trustees:

Robert "Bob" L. Benton - 847.945.1570  
Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)  
Larry Berg - 847.612.0777  
Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)  
Elaine Jacoby - 847.644.3354  
E-mail: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)  
Rebekah Metts-Childers - 847.899.1449  
Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)  
Mary M. Oppenheim - 847.948.9423  
Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)  
William S. Seiden - 847.945.2442  
Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

Village Manager:

Kent S. Street - 847.719.7400  
Email: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

Village Hall/Police Department

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000 (Switchboard and Finance)  
847.719.7484 (Community Development)  
847.945.8636 (Police non-emergency)

Public Works and Engineering

465 Elm Street  
847.317.7245 (Public Works)  
847.317.2490 (Engineering)

# VILLAGE OF DEERFIELD

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000

Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

## MEETING SCHEDULE

Meeting times/dates subject to change  
For a complete list of meetings, please visit  
[www.deerfield.il.us](http://www.deerfield.il.us)

### July

#### **Board of Trustees**

July 5 & 18, 7:30 p.m.

#### **Community Relations Commission**

July 12, 6:30 p.m.

#### **Plan Commission**

July 14 & 28, 7:30 p.m.

#### **Sustainability Commission**

July 21, 7:00 p.m.

#### **Appearance Review Commission**

July 25, 7:30 p.m.

### August

#### **Board of Trustees**

August 1 & 15, 7:30 p.m.

#### **Plan Commission**

August 11 & 25, 7:30 p.m.

#### **Appearance Review Commission**

August 22, 7:30 p.m.

Have a happy and safe Fourth of July!

# D-TALES

Your Municipal News Source

## VILLAGE BOARD APPROVES CARBON ACTION REPORT TO REDUCE GREENHOUSE GASSES

On June 6, the Village Board approved a Climate Action Report from the Greenhouse Gas Reduction Ad Hoc Working Group to reduce emissions by 45% by 2030 and become carbon neutral by 2050.

The creation of the working group stemmed from a February 18, 2020, Village Board proclamation urging local governments and municipalities to lead the global effort to fight climate change.

The Climate Action Report is the output of several months of analysis by the Working Group and is intended to serve as a guiding document that can inform implementation efforts and future climate/adaptation/resiliency plans for longer-term implementation. The report establishes a greenhouse gas emissions baseline and sets high-level objectives to obtain the Village Board's established greenhouse gas mitigation goals.

The Village Board adopted three specific objectives recommended by the Working Group:

- Convert 100% of electricity to renewable sources by 2030
- Reduce transportation emissions by 55% by 2030
- Reduce waste emissions by 66% by 2030

Implementing strategies and tactics that achieve the three objectives noted above will result in a 45% reduction of GHG emissions by 2030, as compared to the 2017 baseline year. The report organizes the proposed GHG mitigation efforts into four focus areas – energy, transportation, waste and ecosystem/food/goods and services. Along with the discussion of each focus area is an identification of the general resources

*Climate Report Continued on Page 2:*

## DEERFIELD FAMILY DAYS BACK FOR ANOTHER BLAST

Deerfield Family Days will kick off another two days of fun July 3rd and 4th. Join family and friends for a holiday filled with fun and entertainment!

The spectacular fireworks show will be held Sunday, July 3rd, at Brickyards Park with live entertainment and kids' activities. The gates will open at 5 p.m. and food and drink concessions will be available for purchase.

On Monday, July 4th, head on over to the festivities at Jewett Park including breakfast in the park, dog show, the flower show and a variety of games. The parade starts at noon on Monday and will travel from Deerspring Pool, west to Waukegan Road, north to Hazel and end at Jewett Park.

This year's Parade Marshals are Mayor Emeritus Harriet Rosenthal and the League of Women Voters of Deerfield/Lincolnshire. Rosenthal served 12 years as Mayor and 24 years as a Village Trustee. The League of Women Voters was founded in Chicago on February 14, 1920. Since then, the League has worked to register voters, sponsor candidate forums, provide non-partisan election materials about candidates, and study issues on the local, state and national levels in order to create a better-informed electorate.

See the full schedule on Page 10 or visit [www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### CHECK IT OUT!

#### **Page 2:**

- Property Taxes Explained

#### **Page 3:**

- Fireworks Safety

#### **Page 5:**

- Water Quality Report





Climate Report Continued from Page 1:



that are needed to accompany the various strategies. You can read the full report at [www.deerfield.il.us](http://www.deerfield.il.us).

Residents can take actions now to help the Village reach these goals. For the energy goals, this includes switching to renewable energy sources, such as reducing energy usage, participating in the Community Solar Program at [www.northshorecommunitysolar.com](http://www.northshorecommunitysolar.com) and upgrading to energy efficient appliances. To reduce transportation emissions, residents can walk, bike or take public transportation, consider purchasing an electric vehicle and reduce vehicle idling. For the waste reduction goals, residents can improve their recycling literacy and make use of the Village's no-cost compost program at [deerfield.il.us/785/Compost-Program](http://deerfield.il.us/785/Compost-Program).

“Municipalities have an unparalleled opportunity to make changes that can transform local economies and positively impact peoples’ lives both locally, and even globally,” said Mayor Daniel C. Shapiro. “It is time for us to roll up our sleeves and get to work to preserve a future we can all be proud to pass along to our children and grandchildren.”

Members of the Greenhouse Gas Reduction Ad Hoc Working Group include Trustee Mary Oppenheim (Chairperson), Trustee Elaine Jacoby, Sustainability Commission Chairperson Donald Anderson, Sustainability Commissioner William Mertes, Go Green Deerfield Chairperson Art Wilde, Go Green Deerfield Member Camilla Dadey, and Business Community Representative Victoria Street, Executive Director of the DBR Chamber of Commerce.

The Mayor and Village Board thank all of the members of the Working Group for their efforts. 

## YOUR PROPERTY TAX BILL EXPLAINED

Property taxes are used by multiple units of local government for revenue. Every person and business in Illinois is affected by property taxes — whether by paying the tax or receiving services or benefits that are paid for by property taxes.

Anyone who attends public school, drives on roads or streets, uses the local library, has police protection or has fire protection receives services provided in part by property taxes.

The Village of Deerfield is one of more than 10 units of local government that comprise the typical resident’s overall property tax bill including the county, fire protection district, township, park district, school districts and others. **For property taxes due in 2022, the Village accounted for approximately 6.56% of the overall property tax bill.**

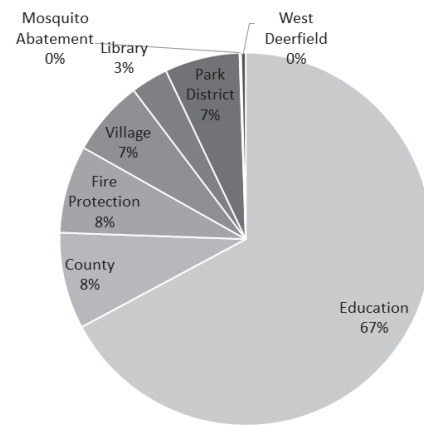
As separate, independent units of government, the Village has no control over the other components of a resident’s property tax bill.

One common question regarding property taxes concerns is how property taxes are calculated. The calculation of property taxes is a multistep process that involves four distinct areas:

### ASSESSMENT

The assessment determines the fair market value of the property. From the assessment, the township assessor determines the equalized assessed value (EAV). The EAV should be approximately 33.33% of the total market value in a given area. In order to ensure that the equalized assessed value of all properties is equal to 33.33% of the market value, the Illinois Department of Revenue may apply an equalization factor to the EAV as determined by the assessor.

Deerfield Property Tax Allocation



### LEVY

The levy is the official request from a unit of local government for the funds it determines it requires from the property tax.

### EXTENSION

The extension is a determination of the property tax rate. Once the County has received all levy requests, it determines the rate that must be applied in order for the unit of local government to receive its requested levy.

### COLLECTION

Once the rates have been applied, property tax bills are sent to each property owner. The taxes are remitted to the County Clerk or Treasurer and dispersed to the various units of local government who are listed on the property tax bill.

There are several factors that could make your tax bill increase: an increase in the property equalized assessed value, an increase in tax rates, which come from the individual taxing districts, and new referendums approved by voters. Please pay close attention to your total exemptions, these exemptions could lower your current tax bill. Call your Township Assessor to verify that you are receiving the exemptions for which you qualify. They can also answer any questions of your assessed valuation.

For more information about property taxes, visit the Lake County Treasurer's FAQ at [www.lakecountyil.gov/FAQ.aspx?TID=19](http://www.lakecountyil.gov/FAQ.aspx?TID=19).





## FIREWORKS NOT ALLOWED

The Deerfield Police Department reminds residents that fireworks are dangerous and unpredictable by nature. The discharging of fireworks including firecrackers, bottle rockets, and Roman candles is a violation of state law and Village ordinances. Novelty fireworks, such as snakes, sparklers, and party-poppers are not regulated by the state. While sparklers are legal, they are extremely dangerous because they burn at temperatures of up to 1,200 degrees Fahrenheit and remain extremely hot long after the sparks have ceased.

Each July 4th, thousands of people nationwide, most often children and teens, are injured while using consumer fireworks. The best way to protect your family is to not use any fireworks at home. Many professional displays are scheduled on July 3rd and 4th for the enjoyment of all.

Please only call 911 to report illegal fireworks if you can give an exact location and preferably a description of those involved.

Moreover, there are many people, including our veterans, that are alarmed by unexpected fireworks – especially the ones they don't know are coming. Unexpected fireworks can trigger a PTSD reaction. Please be compassionate and safe and do not use illegal fireworks. ~

## THE 100 DEADLIEST DAYS FOR TEEN DRIVERS

For years, motor vehicle crashes were the leading cause of injury-related deaths for youths, although it was recently displaced by deaths from firearm-related injuries. Even so, with Memorial Day Weekend behind us, we are now in the 100 Deadliest Days (the days from Memorial Day to Labor Day) for teen drivers.

According to AAA, new teen drivers ages 16-17 are three times as likely as adults to be involved in a deadly crash, and there are more daily deaths in crashes involving teen

drivers during the summer months than the rest of the year because teens tend to have more unstructured time behind the wheel.

Parents can help their teen driver stay safe by laying down ground rules before handing over the car keys. Talk to your teen about the dangers and consequences of driving too fast, impaired or distracted. You can also be a good role model by practicing safe driving habits. *For more information visit <https://www.nhtsa.gov/road-safety/teen-driving>* ~

## KEEP YOUR DOGS COOL THIS SUMMER

Every year, dogs suffer and die when their guardians make the mistake of leaving them in a parked car – even for “just a minute” – while they run an errand.

Parked cars are deathtraps for dogs; on a 78-degree day, the temperature inside a parked car can soar to between 100 and 120 degrees in just minutes, and on a 90-degree day, the interior temperature can reach as high as 160 degrees in less than 10 minutes.

Animals can sustain brain damage or die from heatstroke in just 15 minutes. Beating the heat is challenging for dogs because they can only cool themselves by panting and by sweating through their paw pads.

If you see a dog left alone in a hot car, take down the car's color, model, make and license plate number and call 9-1-1. If possible, have someone keep an eye on the dog until help arrives. ~

## OVERNIGHT PARKING

By Village Ordinance, vehicles are not allowed to park on the street between the hours of 2 a.m. and 6 a.m. This ordinance helps to reduce crime and improve the overall safety and appearance of our community.

If you require an exception, call the Deerfield Police non-emergency number, 847.945.8636, before 2 a.m. and be prepared to provide the license plates of the

affected vehicles. ~

## 2022 COP ON A ROOFTOP

On Friday, August 19, Deerfield Police Officers will spend 5 a.m. to noon on the roof of our local Dunkin Donuts, 499 Lake Cook Road, not on surveillance, but rather raising awareness and funds for Special Olympics Illinois (SOIL).

This year marks the 20th anniversary of this partnership where, to date, more than \$6.7 million has been raised statewide. This is one of the many events the Police Department participates in annually as part of their commitment to the Law Enforcement Torch Run benefitting SOIL.

Consider a coffee run for your family or office on August 19. In return, you will not only be getting a great cup of coffee, you will also receive a coupon for a free donut and the satisfaction of knowing you have improved the life of an athlete.

The Police Department will also be selling SOIL merchandise and raffle tickets for a Harley Davidson and camper. We are hoping the Chicago Bears “Staley Da Bear” will join us again this year and help us meet our goal of raising \$3,000!

*For more information, please contact: Communications Director Mary Anne Glowacz at [mglowacz@deerfield.il.us](mailto:mglowacz@deerfield.il.us) or Desirae Kuceba at [dkuceba@deerfield.il.us](mailto:dkuceba@deerfield.il.us).*

## BIKE SAFETY BOOTH AT FARMERS MARKET

Join the Deerfield Police Department for a bike and pedestrian safety booth at the Deerfield Farmers Market on July 30 and August 13.

The Bike Safety Event will include bike officers and bike safety advocates who will talk about bike safety, bike maintenance and bike laws.

*For more information, e-mail Commander Oliver Cachola at [ocachola@deerfield.il.us](mailto:ocachola@deerfield.il.us)*



# PUBLICWORKS

## 2022 STREET REHABILITATION PROJECT UPDATE

The 2022 Street Rehabilitation Project was awarded in April and work began in early May. This \$3.3 million project consists of the full reconstruction or the resurfacing of selected streets, as well as the installation of new water main along Price Lane and Rosewood Avenue.

The following roads are associated with this year's project:

- Charing Cross from Pine Street to Indian Hill Road
- Gordon Terrace from Willow Avenue to Pine Street
- Kenmore Avenue from Hackberry Road to the south limits
- Montgomery Road from Wilmot Road to the west limits
- Plum Tree Road from Pine Street to Gordon Terrace
- Price Lane from Osterman Avenue to the north limits
- Rosewood Avenue from Birchwood to Kenmore Avenue
- Poet's Corner Subdivision (Longfellow Avenue, Byron Court, Hermitage Drive, and Whittier Avenue).

Many of the above locations are anticipated to be completed by early August and the remaining locations should be completed by the middle of September. ~

### FLOOD INFORMATION

#### NATURAL & BENEFICIAL FUNCTIONS

Floodplains play a valuable role in providing natural and beneficial functions to Deerfield and the surrounding area to both human and natural systems. They provide aesthetic pleasure as well as improving the environment. Parts of both the Middle and West Fork of the North Branch of the Chicago River floodplain help filter chemical run-off so that these areas can maintain bio-diversity and ecosystem sustainability. Both floodplains

also contain historic and archeological sites that provide opportunity for education and study. They enhance waterfowl, fish and other wildlife habitats and provide feeding/breeding grounds. Lastly, both floodplains provide open space and natural erosion control to reduce further flooding damage.

#### DRAINAGE SYSTEM MAINTENANCE

As simple as it may sound, keeping smaller ditches and streams free of debris can dramatically improve the run-off capacity of low-lying areas, as well as greatly reduce incidental blockage that significantly contributes to flooding. Drainage districts are charged with this responsibility.

Please note that it is illegal to dump materials into a required waterway and violators may be fined. If you see someone in the act of dumping or see debris in one of our watercourses, please contact the Village Engineering Department at 847.317.2490.

#### FLOOD WARNING SYSTEM

Many times, flooding along the West and Middle Forks of the North Branch of the Chicago River within Deerfield can be predicted days in advance, giving ample warning for preparation and evacuation. In the event of a flash flood due to a large rain event, you may be the first to notice the oncoming situation, so please notify the Village Police Department/Fire District. You can also tune your radio to WGN-720 AM and WBBM-780 AM for local and national weather updates. You will also see regular interruption on local radio and television stations advising you of the situation.

#### ADDITIONAL INFORMATION

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available

as well as other flood-related information. Contact the Engineering Department with questions at 847.317.2490.

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov](https://www.fema.gov) website
- Engineering Department, 465 Elm Street 847-317-2490
- Flood FAQs page on the Village's website, [www.deerfield.il.us](http://www.deerfield.il.us)
- Deerfield Public Library, 890 Waukegan Road 847.945.3311
- Union Drainage District #1 (West Fork) 847.945.0600
- Union Drainage District #1 (Middle Fork) 773.481.2700
- West Skokie Drainage District 312.782.4780 ~

## SAVE THE DATE: HARVEST FEST SEPTEMBER 17

Let's celebrate! Deerfield's Harvest Fest is back September 17 with fireworks and fun community events for everyone.



- Start the day at the Deerfield Farmers Market between 7 a.m. and 12:30 p.m. with special kids' activities and the popular touch-a-truck.
- Gates open at Shepard Park at 4:30 p.m. for events including live concerts from Maggie Speaks and Rosie and the Rivets, food, a beer tent, carnival games and fireworks.

Harvest Fest is hosted by the Village of Deerfield and the DBR Chamber of Commerce. Watch for an event mailer with more details and a list of sponsors in early September. ~




VILLAGE OF DEERFIELD

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

*This information is being published in accordance with the 1996 Safe Drinking Water Act, as directed by the United States Environmental Protection Agency.*

## INTRODUCTION TO WATER QUALITY REPORT

We are once again pleased and proud to present to you the Annual Water Quality Report. This Consumer Confidence Report (CCR) is designed to inform you about the water we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water. The Village is committed to ensuring the quality and delivery of your water. We hope you find this information useful. If you have any questions about this report or water quality, contact Tyler Dickinson, Responsible Operator In Charge, at 847.719.7463 or [tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us) or visit [www.deerfield.il.us](http://www.deerfield.il.us).

We are also pleased to report that the drinking water provided by the Village meets or exceeds all State of Illinois and United States Environmental Protection Agency (EPA) regulations and that we are not operating under any variance or exemption from the established drinking water regulations or standards. Opportunities for participation in the decision-making process that affects drinking water quality are also available at the Deerfield Village Board meetings on the first and third Mondays of every month. 

## ABOUT THE DATA

On the following pages you will find information regarding:

**Organic Carbon** – The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

**Turbidity (NTU)** – Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of water quality and the effectiveness of the filtration and disinfectants.

**Sodium** – There is no State or Federal maximum contaminant level (MCL) for sodium. Monitoring is performed to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. Those on a sodium-restricted diet should consult a physician about the level of sodium in the water.

**Lead & Copper** – The Village continues to be in compliance with regulations for lead and copper control. (See *Lead and Copper Explanation*).

**Unregulated Contaminants** – An MCL for this has not been established by either State or Federal regulations, nor has mandatory health effects language. The purpose for

monitoring this is to assist the U.S. EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

In addition to the above-mentioned tests, Deerfield continuously monitors and tests your water through our water control system as well as with weekly physical samples. These samples are submitted to the Central Lake County Joint Action Water Agency, an EPA certified laboratory, for analysis. This ensures a rapid response should there ever be a problem.

## GENERAL INFORMATION

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it can dissolve naturally occurring minerals and radioactive material and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

**Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

**Inorganic contaminants**, such as salts and metals, which can be naturally

occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.


**Pesticides and herbicides**, which may come from sources such as agriculture, urban storm water runoff and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.

**Radioactive contaminants**, which may be naturally occurring or the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection to ensure public health.

## Contaminants monitoring results

The Village of Deerfield and City of Highland Park routinely monitor for contaminants in your drinking water according to Federal and State laws. 

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

Containment (units)	EPA MCLG	EPA MCL	High-Level Found	Range of Detection	Violation	Date of Sample	Typical Source of Contamination
<b>Microbial Contaminants</b>							
Turbidity (%<0.3 NTU)*	n/a	0.3 NTU	100%	n/a	NO	2021	Soil runoff
Turbidity (1.0 NTU)* Highest measurement	n/a	1 NTU	0.30 NTU	n/a	NO	2021	Soil runoff
<b>Inorganic Contaminants</b>							
Barium (ppm)*	2	2	.019	.019-.019	NO	2021	Discharge from drilling wastes, metal refineries, erosion of natural deposits.
Fluoride (ppm)*	4	4	.752	.752-.752	NO	2021	
Sodium (ppm)*	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits; Used as water softener.
Nitrate (ppm) Measured as Nitrogen	10.0	10.0	.30	.30-.30	NO	2021	This contaminant is not currently regulated by the USEPA.
Coliform	0	0	0	0	NO	2021	Naturally present in environment
Fecal coliform or E. Coli. MCL: A routine sample and a repeat sample are total coliform and one is also fecal coliform or E Coli positive.							

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

**Disinfection / Disinfection Byproducts**

Chlorine (ppm)	4	4	1.54	1.10-1.24	NO	2021	Water additive used to control microbes.
Total Haloacetic Acids [HAAS] (ppb)	n/a	60	27.6	7.8-35.3	NO	2021	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes] (ppb)	n/a	80	55.6	17.0-66.4	NO	2021	By-product of drinking water chlorination.

**Additional Unregulated Contaminants**

In an effort to ensure the safest water possible, the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants, only the ones listed below were found in your water.

Hardness Total (ppm)(as CaCo3)	n/a	n/a	140	140-140	NO	2021	Erosion of natural deposits.
Alkalinity	n/a	n/a	110	110-110	NO	2021	Erosion of natural deposits.
Total Dissolved Solids	n/a	n/a	310	310-310	NO	2021	Erosion of natural deposits.
Sulfate	n/a	n/a	23.0	23.0-23.0	NO	2021	Erosion of natural deposits.
Chloride	n/a	n/a	21.0	21.0-21.0	NO	2021	Erosion of natural deposits.
Calcium	n/a	n/a	35	35-35	NO	2021	Erosion of natural deposits.
Magnesium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.
Sodium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.


**LEAD AND COPPER - JANUARY 1 TO DECEMBER 31, 2021**

Lead MCLG	Lead Action Level (AL)	Lead 90th %-tile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th %-tile	# Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	0 ppb	0	1.3 ppm	1.3 ppm	0.19 ppm	0	Corrosion; erosion

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## LEAD AND COPPER TESTING

The IEPA lead and copper testing program began in 1992. Due to consistent low concentration levels of lead and copper, the Village has been placed on a reduced testing cycle by the IEPA and is only required to test every three years. Currently, a round of testing consists of 30 samples. Our most recent round of lead and copper testing took place in 2021 and Deerfield remains in compliance so as to continue with the IEPA-mandated reduced lead and copper testing cycle. Our next round of testing will occur in 2024.

The Village is in full compliance with all State and Federal regulations governing the control of lead and copper within public drinking water supplies. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When water has been sitting for several hours, minimize potential for lead exposure by flushing the tap for 30 seconds to 2 minutes before using water for drinking or cooking. Those concerned about lead in water, may wish to have their water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800.426.4791 or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead). 

## DEFINITIONS

In the previous tables you will find many terms and abbreviations with which you may not be familiar. To help you better understand these terms, we have provided the following definitions:

**ppm** - Parts per million or milligrams per liter (mg/L) – or one ounce per 7,350 gallons of water.

**ppb** - Parts per billion or micrograms per liter (mcg/L) – or one ounce per 7,350,000 gallons of water.

**ppt** - Parts per trillion or nanograms per liter (nanograms/L) – or one ounce per 7,350,000,000 gallons of water.

**NTU - Nephelometric Turbidity Unit**; used to measure the cloudiness in drinking water.

**% < 0.3 NTU** - Percent samples less than 0.3 NTU.

**Mrem/yr** - Millirems per year, used to measure radiation absorbed by the body.

**pCi/l** - Picocuries per liter; used to measure radioactivity.

**# pos/mo** - Number of positives per month.

**AL - Action Level** or the concentration of a contaminant that, if exceeded, triggers treatment or other requirements which a water system must follow.

**TT - Treatment Technique** or a required process intended to reduce the level of a contaminant in drinking water.

**MCL - Maximum Contaminant Level** or the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible, using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal** or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**n/a** - Not applicable. 

## LAKE MICHIGAN: OUR WATER SOURCE

The Village of Deerfield purchases all of its water from the City of Highland Park. Highland Park draws its raw water from a 54-inch intake pipe located a mile off shore in Lake Michigan at a depth of approximately 30 feet. In addition, there are two smaller pipes used as secondary intakes, which are 16 and 20 inches in diameter.

Lake Michigan, like the other Great Lakes, was formed as glaciers retreated north during the last ice age. Lake Michigan is the largest lake completely within the United States at 118 miles wide and 307 miles long. Lake Michigan averages 279 feet in depth and reaches 925 feet at its deepest point. The lake's drainage basin, which is approximately twice as large as its 22,300 square miles of surface water, includes portions of Illinois, Indiana, Michigan and Wisconsin. The Great Lakes are among the world's most valuable sources of fresh surface water. Almost half of all the liquid fresh water in the world is found in the Great Lakes. Most of the world's surface fresh water is locked away in the ice caps around the North and South Poles, which makes us appreciate the Great Lakes that much more.

All sources of drinking water, including Lake Michigan, are subject to potential contamination by items that are naturally occurring or man made. Those elements may be microbes, organic or inorganic chemicals or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants.

The presence of contaminants does not necessarily indicate that the water poses a health risk. Susceptibility is defined as the likelihood for the source water of a public water system to be contaminated at concentrations that would pose a concern.

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## OUR WATER SOURCE CONTINUED

The Illinois EPA (IEPA) considers all surface sources of the community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection, only dilution, hence the reason for mandatory treatment for all surface water supplies in Illinois.

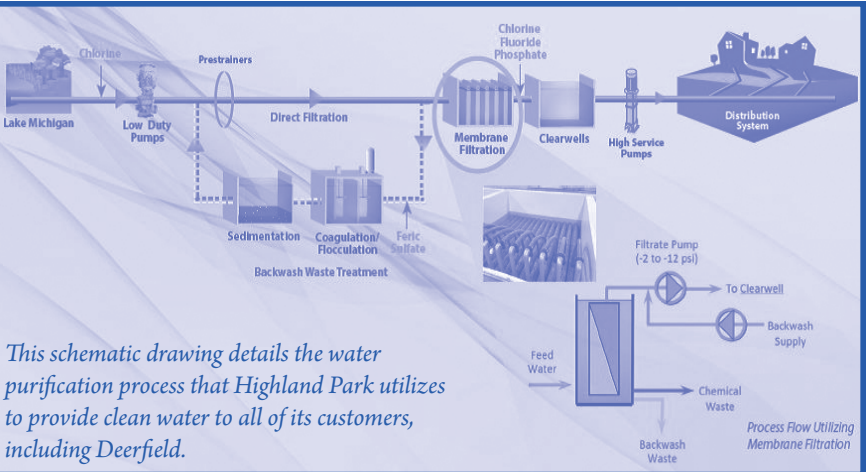
As previously mentioned, Highland Park has three intake lines. The 54-inch intake pipe is normally used alone with the two smaller intakes used to augment high demand or during maintenance of the 54-inch pipe. As these are closer to the shore, they have a greater susceptibility to be influenced by potential sources of contamination. However, regardless of which lines are used, the finished water leaving the Highland Park Water Plant always meets or exceeds all IEPA and EPA regulations.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800.426.4791. To access the Highland Park Water Assessment Summary, visit: [www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show\\_facility\\_detail&facility\\_number=0970500&cws=y](http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show_facility_detail&facility_number=0970500&cws=y).

## TOP 10 WAYS TO CONSERVE WATER

Conserving water is easy if you follow these helpful tips:

1. Test for a leaking toilet by adding food coloring to the tank. If any color appears in the bowl after 30 minutes, your toilet is leaking. Leaking toilets can waste thousands of gallons of water. Flush as soon as the test is done, since food coloring may stain the tank.



2. Use water-conserving plumbing fixtures and water-flow restrictors on sinks and showers. Bathroom facilities typically constitute 75% of the water used in homes.
3. Only run your dishwasher and washing machine when you have a full load.
4. Take a short shower instead of a bath. A bath uses 30 to 50 gallons of water. Showers use about a gallon of water per minute.
5. Store drinking water in the refrigerator instead of letting the tap run when you want a glass of cool water.
6. Never put water down the drain when there may be another use for it such as watering a plant or garden, or doing housework.
7. Be conscientious of the amount of water you use when running your garbage disposal. Have your food scraps cut into small pieces so they can be disposed of quickly, minimizing the amount of time you need to run the faucet. You can also compost instead.
8. For landscaping and gardens, choose plants that are native to the area in which you live or plants that are drought resistant. Native plants are accustomed to the natural amount of precipitation that occurs in the area where they are found and normally

do not require any additional watering. Group plants together based on similar watering needs.

9. Water your lawn and/or garden during the coolest part of the day to minimize evaporation. Apply water slowly, exactly where it is needed. Position sprinklers so that water lands on the lawn and shrubs, not on paved areas. Keep in mind that sprinkling restrictions are in place from May 15 - September 15.

10. Use a bucket of water and a spray head on the hose to wash your car. A running hose can waste hundreds of gallons of water in the time it takes to wash a car. ♻️

## SPECIAL INFORMATION

Some people may be more vulnerable to contaminants in drinking water. Immunocompromised individuals, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 800.426.4791. ♻️



The following is a synopsis of actions taken by the Village Board since the January/February issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved a Resolution to award the Village Hall monopole painting contract
- Approved a Resolution to award the monopole radio equipment contract
- Approved an Ordinance authorizing an amendment to the Deerfield Park Plaza Planned Unit Development for site changes and an amendment to the Goddard Special Use to permit the expansion of the Goddard School into the adjacent 471 Lake Cook Road tenant space in Deerfield Park Plaza Shopping Center
- Approved a Resolution to award chemical phosphorus removal project
- Approved the report and recommendation of the Greenhouse Gas Reduction Working Group regarding a Climate Action Report
- Approved a Resolution approving an intergovernmental agreement by and between the Village of Deerfield and the West Deerfield Township Assessor for access to Village permit and plan tracking system
- Approved a Resolution authorizing a grant to the Lake County Convention and Visitor Bureau

## HONORS AND RECOGNITIONS

- Recognized Rochelle Zell Jewish High School Model U.N. Team for eighth consecutive Team Award of Distinction
- Proclaimed May Mental Health Month
- Recognized Yaokai Yang, EIU Academic Challenge - Computer Science State Champion
- Proclaimed June LGBTQ Pride Month
- Proclaimed June 19, 2022 Juneteenth
- Proclaimed Neurofibromatosis Awareness Day

# COMMUNITYCALENDAR



### DEERFIELD PARK DISTRICT

For more information or to register for Park District programs, call 847.945.0650, or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

We Weekly summer camps are still available! Check out options in our Summer Camp Guide at [deerfieldparks.org/programguide](http://deerfieldparks.org/programguide) or stop by the park district today!

Bring your furry friend to Jaycee Park on July 16 for an afternoon of dog-friendly fun at Woofstock! Enjoy games and activities, music, snacks, and more! Register at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Enjoy Summer Concerts at Floral Park from 5 – 6:30 p.m. in July and August. Join your friends and neighbors, bring a picnic dinner, chair or blanket while different artists perform each week. Dates and artist bios can be found at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Put on your Blue Suede Shoes and get ready to Shake, Rattle and Mix at the Patty Turner Center as Highwood's very own Roger That takes to the stage to perform the jukebox hits of the 50s and 60s. Advanced registrations are required. For details please call: 847-940-4010

Open Pickleball at Sachs Recreation Center for all players no matter their age or ability level. Drop-in and play on one of our seven courts. The summer Open Play schedule runs June 13-August 12. Open Play is rack format M/W/F 8 a.m.-noon \$7R/9NR/Free for SRC Members

Eat to the Beat Concerts at Jewett Park Pavilion from 11:30 a.m. – 12:15 p.m. on July 6, 13, 20 & 27. Bring a picnic lunch, listen to music and play in the park!

Deerfield Family Theater auditions for Big Fish will be held the week of August 24. Visit [deerfieldfamilytheater.com](http://deerfieldfamilytheater.com) to select an audition slot!

### DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Register in advance by phone at 847.945.3311, online at [deerfieldlibrary.org](http://deerfieldlibrary.org), or in person at 920 Waukegan Rd. Online program description notes program platform (online, in-person, or hybrid).

Memory Café  
July 6, August 3, 10-11:30 a.m.  
The Café is offered to support and connect those experiencing memory loss and their care partner.

MakerSpace Open House  
July 8, 3-4 p.m., Grades 5+  
Come learn about amazing equipment and projects!

Blues 101 with Fruteland Jackson  
July 9, 2-3:30 p.m.  
Blues music history through song, lecture, and discussion.

Professor Moptop Presents Paul McCartney  
July 19, 7-8:30 p.m.  
The Professor will share videos, songs, and stories about John and the Fab Four.

Deerfield's Got Talent!  
July 26, 7-8:30 p.m., Students entering Grades 2 and up  
Share your special talent, and just come enjoy the show. All PG talents welcome!

Craftivism 101  
July 27, 4-5 p.m., Students entering Grades 4-8  
Are you creative, and care about the world? Learn how to combine these two things with Craftivism.

PLACE Programs: Community for Everyone

July 30, August 27, 6:30-7:30 p.m.  
PLACE welcomes adults with intellectual and developmental disabilities and their parents and caregivers. Join us for an evening of reading, conversation, and fun. For more info and to register contact Vicki Karlovsky, [vkarlovsy@deerfieldlibrary.org](mailto:vkarlovsy@deerfieldlibrary.org).

Bad Guys Party  
August 4, 4-5:30 p.m., Students entering Grades 1-5  
Call all Bad Guys fans! We'll play trivia, do a craft, and be GOOD.

Jutta & the Hi-Dukes Concert  
August 20, 2-3:30 p.m.  
Experience music from many different cultures and countries, and bring your dancing shoes!.

Unconventional Photography of Chicago  
August 31, 7-8 p.m.  
Learn how to keep your photography spontaneous! Cosponsored by the Village Fine Arts Commission

For more information and a full listing of events, please visit [www.deerfieldlibrary.org](http://www.deerfieldlibrary.org).



# COMMUNITY INFO

## TOWNSHIP UPDATES PARADE COOLING CENTER

West Deerfield Township's lobby will serve as a cooling center during the July 4th parade. Stop in at 601 Deerfield Road to take a break from the heat or grab a refreshing bottle of water.

## ASSESSOR'S OFFICE

Please visit the Assessor's office weekdays between 8:30 a.m. and 4:30 p.m. to meet the new staff that is here to help you. We've been hard at work helping residents file for all the exemptions they qualify for, please stop in to make sure you're getting all the savings available.

Assessment notices for 2022 will be posted

and mailed out mid-August this year. The 30-day window to appeal your assessments begins that day, so don't delay filing once you receive your blue assessment notice. We'll be here to assist you with that too.

Contact the Assessor's Office at 847.945.3020 or [assessor@wdtassessor.org](mailto:assessor@wdtassessor.org).

## "GREEN UP" YOUR PARKWAY WITH THE 50/50 TREE PROGRAM

The Deerfield Public Works Department offers a 50/50 program that allows residents to pay 50% of the cost for a new parkway tree (plus the \$80 planting fee) while the Village pays the remaining 50%.

Your tree is guaranteed for one year and will be planted for you in the fall by the Public Works Department. Trees will be planted in the parkway only and cannot be planted on private property - this program is for residential properties only.

The application for the program is available in person or online at [www.deerfield.il.us](http://www.deerfield.il.us). After making your tree selection, fill out our Tree Order Form and return it to us with a check in the proper amount. The deadline for ordering trees is August 30.

To learn more about the program and to see which trees are available for planting, visit [www.deerfield.il.us](http://www.deerfield.il.us) or contact Public Works at 847.317.7245.

59<sup>th</sup> Annual

# DEERFIELD

## Family Days

[www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### Sunday, July 3rd Brickyards Park

5:00 p.m. Festivities Begin: Concession sales (food and soft drinks available)

5:00 p.m. to 8:00 p.m. Inflatables, Rides and Carnival Games

6:00 p.m. Entertainment by Energy Productions!

7:00 p.m. Raising of the Flag by the American Legion and singing of the National Anthem

Dusk Fireworks

### Monday, July 4th Jewett Park

8:00 a.m. Deerfield Rotary Club 5k Race: Registration from 7:15 a.m. to 7:45 a.m. Starts at Maplewood Park. Register at [www.deerfield.il.us](http://www.deerfield.il.us)

8:00 a.m. to 10:30 a.m. Breakfast in the Park by the Wild Roaster

8:00 a.m. to 3:00 p.m. Arts and Crafts Fair

8:30 a.m. to 9:00 a.m. Bike Parade: Parking lot at Rosemary and Deerfield Bike parade starts at 9:00 a.m. and bikes must be pre-decorated

8:45 a.m. to 10:00 a.m. Dog Show: BYOD (Bring Your Own Dog)

10:00 a.m. to 2:00 p.m. Sensory Friendly Play Area

10:00 a.m. to 3:00 p.m. Inflatables, Rides, Carnival Games, Concessions and Corporate Booths

11:00 a.m. to 3:00 p.m. Flower Show: New Location - Jewett Park Pavilion  
Submit flowers for judging from 8:00 a.m. to 10:00 a.m.

12:00 p.m. SPECTACULAR PARADE  
Parade Marshals: Mayor Emeritus Harriet Rosenthal and The League of Women Voters  
Parade Route: Deerspring Pool to Waukegan Road, Waukegan Road to Hazel Avenue, ending at Jewett Park

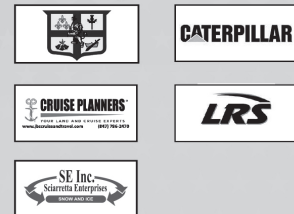
1:00 p.m. to 5:00 p.m. Free Swimming for everyone at Deerspring Pool and Mitchell Pool

*All adults and children going on rides or inflatables must have wristband-no exceptions. Wristband sales are cash only.*

### Food Vendors

- Donut Jester      My Funnel Truck
- Judy's Pizza      Nothing Bundt Cakes
- Mario's Cart      ...and more!

### Thank you to our Gold Sponsors



### Thank you to our Bronze Sponsors



CELEBRATE 59 YEARS OF FIREWORKS, FOOD AND FUN WITH FAMILY AND FRIENDS!  
Thank you to all local partners!





## LAWN IRRIGATION RPZ REGULATIONS

As a reminder, all irrigation systems are required to have a backflow prevention device called a Reduced Pressure Zone Backflow Preventer (RPZ). This must be certified annually by a licensed Cross Connection Device Inspector. This testing and certification must be completed every year prior to the system going into service.

The Village has contracted with Backflow Solutions, Inc. (BSI) to administer the backflow prevention tracking program. The annual backflow assembly test report must be submitted electronically by your inspector via the BSI Online system at [www.BsiOnline.com](http://www.BsiOnline.com).

For more information, contact the Public Works Department at 847.317.7245. ☞

## YARD WASTE REMINDERS

Any yard waste placed in your compost container does not require a sticker. Yard waste can be placed in the compost container year-round and does not require a sticker. Yard waste stickers will be needed for bag service, and may be purchased at Village Hall and retailers that currently sell stickers. Stickers cost \$3.00. ☞

## SPRINKLING RESTRICTIONS

The Illinois Division of Water Resources requires that municipalities using Lake Michigan water restrict lawn sprinkling between May 15th and September 15th. Accordingly Deerfield's restrictions during this period are as follows:

- Even numbered addresses may sprinkle on even numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Odd numbered addresses may sprinkle on odd numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Sprinkling is not allowed for anyone between the hours of noon to 6:00 p.m. ☞

## GRATE KEEPERS PROGRAM PROTECTS WATERWAYS

Become a gate keeper of our waterways by registering for the Village's Grate Keepers Program. Residents and businesses can adopt the storm water inlets near their property and pledge to clean the areas around them to reduce local flooding and keep litter and yard waste from polluting local waterways and impeding proper flow.

Using the Villages GIS mapping program, residents can search their neighborhood to find nearby grates. Then they get to name their grate and show their commitment to reduce trash and organic pollutants.



Rain washes anything that's on streets and paved surfaces down storm drains and into the local branches of the Chicago River, and eventually to the Mississippi River and to the Gulf of Mexico. Dog waste carries harmful bacteria. Leaves, grass and dirt feed algae and turn lakes and rivers green. Trash clogs drains and pipes, causing flooding.

With more than 4,000 individual inlets and catch basins in the Village, this is a task that Public Works cannot tackle all on its own.

Participants will be sent a welcome packet containing instructions on how to properly clean around storm grates, materials needed and safety information. The Village will send emails to participants a few times a year reminding them of their commitment. To register, visit [www.deerfield.il.us/gratekeepers](http://www.deerfield.il.us/gratekeepers).

For more information, contact Communications Coordinator David Fitzgerald-Sullivan at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us) or at 847.719.7400. ☞

## STAY CONNECTED WITH THE VILLAGE ON SOCIAL MEDIA

The Village of Deerfield is on social media and invites residents to connect with us to receive valuable information. Like and follow the Village of Deerfield here:

- [Facebook.com/VillageofDeerfield/](https://www.facebook.com/VillageofDeerfield/)
- [@Deerfield\\_IL](https://twitter.com/Deerfield_IL)
- [Instagram.com/villageofdeerfield/](https://www.instagram.com/villageofdeerfield/)  
(@villageofdeerfield)

You can also register to receive the weekly e-blast with Village news and events at [www.deerfield.il.us](http://www.deerfield.il.us). Simply click the "Notify Me" icon on the homepage.

We encourage you to submit your questions, comments and concerns and look forward to engaging with the community further!

For more information, contact David Fitzgerald-Sullivan, Communications Coordinator at 847.719.7400 or by email at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us). ☞



VILLAGE OF DEERFIELD

D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

PRESORTED  
STANDARD U.S.  
POSTAGE  
PAID  
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Deerfield, Illinois

POSTAL CUSTOMER  
DEERFIELD, ILLINOIS 60015



## VILLAGENOTES

# FOOD Truck



## Thursdays

**June 23, July 21, August 18**

4:30 p.m. to 8 p.m. at Jewett Park Hazel Avenue Parking Lot

**Live Music | Kids Activities**

Sponsored by: The Village of Deerfield



Village Officials:

**Mayor:**

**Daniel C. Shapiro** - 312.763.9640  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

**Trustees:**

**Robert "Bob" L. Benton** - 847.945.1570  
Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)  
**Larry Berg** - 847.612.0777  
Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)  
**Elaine Jacoby** - 847.644.3354  
Email: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)  
**Rebekah Metts-Childers** - 847.899.1449  
Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)  
**Mary M. Oppenheim** - 847.948.9423  
Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)  
**William S. Seiden** - 847.945.2442  
Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

**Village Manager:**

**Kent S. Street** - 847.719.7400  
E-mail: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

**Village Hall/Police Department**

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000 (Switchboard and Finance)  
847.719.7484 (Community Development)  
847.945.8636 (Police non-emergency)

**Public Works and Engineering**

465 Elm Street  
847.317.7245  
847.317.2490 (Engineering)

# VILLAGE OF DEERFIELD

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000

Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

## MEETING SCHEDULE

Meeting times/dates subject to change  
For a complete list of meetings, please visit  
[www.deerfield.il.us](http://www.deerfield.il.us)

### September

#### **Board of Trustees**

September 6 & 19, 7:30 p.m.

#### **Community Relations Commission**

September 13, 6:30 p.m.

#### **Plan Commission**

September 22, 7:30 p.m.

#### **Appearance Review Commission**

September 26, 7:30 p.m.

### October

#### **Board of Trustees**

October 3 & 17, 7:30 p.m.

#### **Family Days Commission**

October 3, 4:00 p.m.

#### **Community Relations Commission**

October 11, 6:30 p.m.

#### **Plan Commission**

October 13 & 27, 7:30 p.m.

#### **Appearance Review Commission**

October 24, 7:30 p.m.

# D-TALES

Your Municipal News Source

## TWO-LINED CHESTNUT BORER HURTING OAK TREES

This summer, the Village of Deerfield was made aware of an insect, the two-lined chestnut borer, that has been harming our oak trees. This insect is usually a secondary pest that attacks oak trees that are already stressed and weakened. Extreme environments such as droughts, storm damage, and weakening from disease are all stressors that predispose trees to the two-lined chestnut borer.

There are a few ways to identify if your oak has two-lined chestnut borer. Oak trees attacked by two-lined chestnut borer show: Leaf browning and twig/branch dieback, D-shaped exit holes measuring around 1/8 of an inch in the bottom 12 to 15 feet of the trunk, and branches in the upper canopy have a wilted look while the bottom canopy still looks green.

The good news is that two-lined chestnut borer is both treatable and preventable. The Public Works Department is currently working with our contractor to do injection treatments on all the public oak trees. If you believe that your oak tree has two-lined chestnut borer, we recommend that you contact a certified arborist for treatment options and strategies.

The Village has teamed up with the Morton Arboretum, Village of Northbrook and the City of Lake Forest to complete a study on the effects of recommended treatment methods. Over the next several years the Village of Deerfield will perform trunk injections, the Village of Northbrook will perform trunk injections along with root drenching, and the City of Lake Forest will perform root drenching. The Morton Arboretum will track progress in an effort to determine the best treatment process.


## SAVE THE DATE: HARVEST FEST SEPTEMBER 17

Deerfield's Harvest Fest is back September 17 on Park Avenue with fun, community events for everyone.

Start the day at the Deerfield Farmers Market between 7 a.m. and 12:30 p.m., featuring a touch-a-truck event. RC Juggles will also be at the market from 9 a.m. to noon creating free, custom made balloon art creations and filling Jewett Park with giant bubbles.

Visit Deerfield Road and Park Avenue Saturday afternoon for music, food and fun. Gates open at 4 p.m. for events including a live concert, food vendors, a beer tent and a bags tournament.

We'll have live music from Rosie and the Rivets from 4 p.m. to 6 p.m. followed by Maggie Speaks from 6:30 p.m. to 9:30 p.m. The annual bags tournament is back with online registration at [dbrchamber.com](http://dbrchamber.com). Food vendors include Lucky Burger, Donut Jester, The Wild Roaster, Tamales Express, Judy's Pizza, La Humita, Nothing Bundt Cakes, My Funnel Truck and Happy Lobster. Bring a chair and enjoy the show!

Harvest Fest is hosted by the Village of Deerfield and the DBR Chamber of Commerce. Thank you to our sponsors, @ Properties, Parkway Bank, North Shore Gas, Cruise Planners and Elements Massage. 



### CHECK IT OUT!

#### **Page 3:**

- Leaf Collection

#### **Page 4:**

- Public Art Program

#### **Page 7:**

- Police Department Safety Tips





For more information and ways that you can help prevent two-lined chestnut borer, please visit our website at: <http://www.deerfield.il.us/827/Two-lined-Chestnut-Borer> or by contacting the Public Works Department at (847) 317-7245. ♪



Two-Lined Chestnut Borer



Hole from Two-Lined Chestnut Borer



Tree damaged by Two-Lined Chestnut Borer

## ILLINOIS SOLAR TOUR

Do you have solar panels on your home or business? Show it off during the 2022 Illinois Solar Tour!

The Village of Deerfield and Go Green Deerfield are partnering with the Illinois Solar Education Association (ISEA) to spread the word about solar right here in Deerfield.

The Solar Tour is an annual, free event that offers the public the opportunity to view innovative green homes and buildings - like yours - and see how solar energy can be used efficiently. The Tour is a chance for everyone to view affordable and practical technologies in their own neighborhood that benefit the environment and are part of the solution to our nation's energy issues.

The Solar Tour will take place on Saturday, September 24 from 10 a.m. to 3 p.m. It will be in a hybrid format this year. That means that solar homes and businesses will be available to view in person and/or via video tour.

If you have solar on your home or business and would like to be part of the Solar Tour, visit <https://illinoissolar.org/Illinois-Solar-Tour>. You will be featured on the website with all local Tour information, as well as on ISEA's Solar Tour page. After submitting the form, you will receive further guidance and materials from ISEA.

Sign up today to share the good news about solar! ♪

## TRASH BIN STORAGE

The Village receives many questions about where to store trash containers at houses.

The Village of Deerfield Municipal Code Chapter 12, Article 3, section 12-20 (a) requires that all trash and recycling containers be stored in a garage or out of sight from the public way in an effort to make the containers inconspicuous from the public way.

This can be done by installing a landscape barrier or fence to screen the area where the trash containers are stored, keeping them in

the garage, or storing them behind a wing wall.

All containers and other items should be placed at the curb by 7 a.m. (6:30 a.m. for Deerfield and Waukegan Roads) on collection day since Lakeshore cannot guarantee a specific time the driver will be at your home.

Contact Lakeshore Recycling at 844.NEED.LRS (844.633.3577) for any questions or concerns. You can also e-mail them at [Service@LRSrecycles.com](mailto:Service@LRSrecycles.com).

*If you have any questions about container storage, contact the Community Development Department at 847.719.7484. ♪*

## TREE WALK SEPTEMBER 24

Members of the Village's Sustainability Commission and Deerfield Park District invite you to join us for a guided educational tree walk Saturday, September 24 at 10 a.m.

The walk will take place at Prairie Wolf Slough behind Deerfield High School. Participants should meet at the back parking lot at DHS.

Village and Park District arborists will provide a guided tour throughout the park and discuss the two-lined chestnut borer.

Learn about caring for trees including proper mulching techniques, tips for newly planted trees, structure pruning and proper tree protection.

Understand the benefits trees provide including helping manage stormwater, carbon absorption and habitat for animals.

Note: Not all areas of the tour will be on a paved path or ADA accessible. The event is rain or shine.

Contact Assistant Village Manager, Andrew Lichterman, at [alichterman@deerfield.il.us](mailto:alichterman@deerfield.il.us) or 847.719.7403 ♪



## FALL LEAF COLLECTION PROGRAM

The Village's annual leaf collection program provides residents with an alternate way to dispose of their leaves. Residents who do not mulch or bag their leaves may rake them to the curb or carriage walk line the night before their scheduled pickup.

Beginning the week of October 25 and continuing through November 24, Public Works Department crews will make one pass by each house in the Village every week during the four-week program.

See the following guidelines and reminders for leaf pickup:

- Rake leaves into piles no greater than 5' in width.
- Do not rake leaves into the streets, sidewalks or carriage walks.
- Do not put out leaves more than one day prior to your scheduled pickup day.
- Do not park on the street the day of your pickup.
- Do not rake grass clippings, sticks, rocks, branches or mud to the curb with your leaves.
- Try to put leaves out each week.
- Inclement weather may delay pickups, but crews will make at least four trips through each neighborhood.

- Direct landscapers to abide by the Village's guidelines for leaf collection.

*For more information, visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us) or contact the Public Works Department at 847.317.7245. 🌿*

## FLOOD INFORMATION

An important component of promoting flood insurance is dispelling the myths that persist about it. Below are a few of the most salient misunderstandings about flood insurance and some straightforward explanations of what is really true.

### **MYTH: My homeowner's insurance covers flooding.**

This may be the most prevalent misinformation of all. In fact, almost no homeowner's insurance policies cover flood damage. That is why the federal government created the National Flood Insurance Program (NFIP). Flood insurance is sold as a separate policy, so even if a person's regular agent doesn't handle flood insurance, it can be obtained from another agent who serves that area. To find one, people can contact the NFIP call center at 800.427.4661 or [www.FloodSmart.gov](http://www.FloodSmart.gov).

### **MYTH: I don't need flood insurance, because I'm not in a high-risk zone.**

The reality is that it can flood almost

anywhere, and it doesn't take much water to cause expensive damage. In fact, about one third of all flood disaster assistance and one third of all flood insurance claims payments go to people who have been flooded even though they were outside of the mapped high-risk zone. With a changing climate, scientists say that extreme weather events will be more likely in the future. So living in a location that so far has been thought to be at low risk does not mean that it is safe now.

### **MYTH: I can't get flood insurance, because I'm not in a high-risk zone.**

Virtually anyone who lives in or owns property in an NFIP-participating community can buy flood insurance for a residential building, business, condo or apartment, and the contents can be insured as well. Flood insurance through the NFIP has never been restricted to people located in the high-risk zone. In fact, for people outside the high-risk zone, flood insurance is an even better deal because the premiums are lower. An overview of the availability, coverage and costs of flood insurance can be found on the FloodSmart website.

### **MYTH: Even if my house did flood, it wouldn't be by much.**

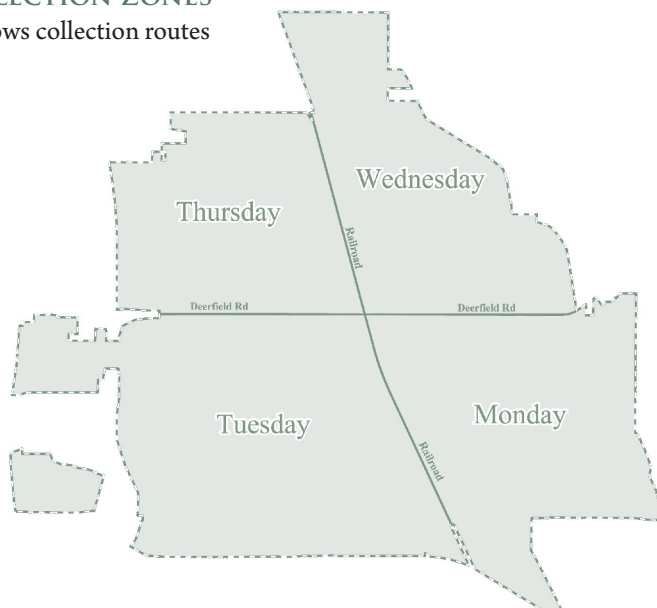
There may not be very much water, but that doesn't mean there won't be much damage. Only one inch of water in an average home can cause more than \$25,000 in damage.

### **MYTH: I don't need flood insurance because FEMA gives disaster assistance.**

FEMA can only provide disaster assistance when the president issues a disaster declaration, which happens for less than half of all floods. Even if there is a disaster declaration, FEMA can only provide small grants, not enough to cover all losses and certainly not enough to rebuild. For example, in Hurricane Harvey the average individual grant FEMA distributed was only \$7,000. Most other federal disaster assistance comes in the form of loans, which must be repaid. By contrast, in Hurricane Harvey, the average NFIP claim payment was over \$100,000, which does not have to be repaid. A flood insurance policy pays for any covered damage, even if it results from a small flood.

## LEAF COLLECTION ZONES

This map shows collection routes and days.





## FINE ARTS COMMISSION SEEKING ARTISTS FOR PUBLIC ART PROGRAM

The Village of Deerfield is soliciting artwork loans from artists as part of the fifth year of the Deerfield Public Art Program. Artists must be willing to loan works of art for public display for up to one year.

The Deerfield Fine Arts Commission will review artwork proposals submitted by artists interested in having their works displayed in the community. The program is soliciting paintings, murals, drawings and other pieces to be displayed in Village Hall, the Public Works Facility, Deerfield Park District facilities, the Deerfield Public Library and other government buildings.

The art is displayed for one year in public buildings, and new pieces are selected each year. Applications for the next year of the program are now available online.

The Deerfield Fine Arts Commission's Public Art Program has placed nearly 100 of pieces of art on display in public buildings over the years.

The Deerfield Public Art Program is open to all visual artists who meet the following:

- Artists who are professional and of serious intent.
- Artists working in any permanent media.
- Art students working with practicing artists/teachers may be considered.
- Artists must have knowledge of public art. While previous experience in public art is not required, artists should be knowledgeable of materials, techniques and public art processes.
- Appropriateness of an artist's work for public display (in terms of scale, material, content and placement).
- All selected artwork must be delivered to the Village "ready-to-hang" for immediate display. Artists may submit up to three pieces of art for consideration.

For more information, visit [www.deerfield.il.us](http://www.deerfield.il.us).

*il.us or contact David Fitzgerald-Sullivan at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us).*

## FOOD PANTRY DONATIONS

The West Deerfield Township's Food Pantry client numbers have increased during the pandemic and recent high inflation of food prices.

The Pantry relies entirely on donations from community members, businesses, faith communities and service groups. Food, paper goods, hygiene products, grocery store gift cards, and especially monetary gifts are most welcome.

Financial gifts allow them to purchase fresh meats, vegetables or dairy products for clients.

*Donations can be made between 9:00 a.m. and 4:00 p.m. at the Township office, 601 Deerfield Road, or on their website, [westdeerfieldtownship.org](http://westdeerfieldtownship.org).*

## BUSINESS FACADE REBATE PROGRAM

The Village will be reviewing the first candidate for the Business Facade Rebate Program this month.

The properties at 827 and 829 Waukegan Road were recently purchased by new ownership. They are in the process of applying for a Special Use to allow The Coder School, a computer programming school, to occupy the 827 building. The 829 building will be occupied by a retail store selling sports memorabilia.

As part of the process, the new owners are rehabbing the interiors and exteriors of both buildings to give it a fresh, new look. The scope of work includes: new doors, windows, lighting, signage and ADA accessibility.

The Appearance Review Commission reviewed the project in July and voted in favor of the exterior changes. The owners are hoping to participate in the

Village's Business Facade Rebate Program, which could fund 50% of their building improvements (up to \$50,000) and 50% of their site improvements (up to \$50,000). If approved, the owners could receive up to a \$100,000 grant for their improvements. The program is set to continue through the end of 2023.

The Village is hoping other businesses will take part in the grants offered by the program in the upcoming months.

*Interested businesses should contact Planning & Design Specialist Liz Delevitt at [edelevitt@deerfield.il.us](mailto:edelevitt@deerfield.il.us) or 847.719.7483 for more information.*

## 2022 STREET REHABILITATION PROJECT

The 2022 Street Rehabilitation contract was awarded in April and work began in early May. This \$3.3 million project consists of the full reconstruction or the resurfacing of selected streets as well as the installation of a new water main along Price Lane and Rosewood Avenue.

The following roads are associated with this year's project: Charing Cross from Pine Street to Indian Hill Road; Gordon Terrace from Willow Avenue to Pine Street; Kenmore Avenue from Hackberry Road to the south limits; Montgomery Road from Wilmot Road to the west limits; Plum Tree Road from Pine Street to Gordon Terrace; Price Lane from Osterman Avenue to the north limits; Rosewood Avenue from Birchwood Avenue to Kenmore Avenue; and the Poet's Corner Subdivision (Longfellow Avenue, Byron Court, Hermitage Drive, and Whittier Avenue).

All locations have been substantially completed with only some locations still requiring final parkway restoration, which will be completed by the end of September.

*For more information on road construction and infrastructure projects, visit the Village's project blog or contact the Engineering Department at 847.317.2490.*



The following is a synopsis of actions taken by the Village Board since the July/August issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved an Ordinance for an amendment to a special use permit for an electric substation, an essential services antenna support structure, and a variation from Deerfield Zoning Ordinance
- Approved an Ordinance for an amendment to a special use permit for a personal fitness training center, special needs school, and private sports team instruction and a special use permit to operate a carry-out food service
- Approved a Resolution authorizing a residential lease agreement at 1219 Carlisle Place
- Approved a Resolution authorizing a grant to the Chamber of Commerce of Deerfield, Bannockburn, and Riverwoods
- Approved a Resolution authorizing a grant to the Lake County Convention and Visitor Bureau
- Approved an Ordinance authorizing a special use to allow a coworking Office at 807, 809, and 811 Waukegan Road for Brick & Mortar
- Approved a Resolution for the provision of electricity for the Village's Electric Aggregation Program
- Approved a Resolution awarding a purchase of network firewall equipment
- Approved a Resolution for a plat of easement for utilities at 237 Landis Lane
- Approved an Ordinance amending the composition and duties of the Appearance Review Commission
- Approved an Ordinance eliminating the Electrical Commission and modifying the electrical contractor registration requirements
- Approved a Resolution amending the annual Fee Resolution regarding electrical contractor registration fees
- Approved an Ordinance amending Section 7-18 of the Municipal Code regarding peddlers and solicitors
- Approved a Resolution amending the annual Fee Resolution regarding peddlers and commercial solicitors
- Approved an Ordinance granting relief from the Deerfield Zoning Ordinance for 330 Pine Street to permit the construction of a one story garage addition
- Approved an Ordinance authorizing an amendment to the Deerfield Park Plaza Planned Unit Development for an outdoor seating area for Jimmy Thai Restaurant at 405 Lake Cook Road
- Approved an Ordinance repealing Article 3 of Chapter 2 of the Municipal Code regarding passage of ordinances
- Approved a Resolution approving an updated development agreement for Zion Woods
- Appointed Linda Porter to Board of Police Commissioners
- Appointed Phil Carlitz to the Volunteer Engagement Commission



## DEERFIELD PARK DISTRICT

**APPLY ONLINE FOR JOBS:** Join our AMAZING team! We have a job to fit your schedule. After School & Before School Counselors, lifeguards, fitness floor attendants, driving range attendants, special recreation inclusion and more, at [deerfieldparks.org/jobs](http://deerfieldparks.org/jobs).

Sachs Recreation Center is a great way to get fit and stay active this Fall! Choose from fitness equipment, group exercise classes, personal training, gym rentals, tennis, pickleball, lap swimming and more. Check out [sachsreccenter.org](http://sachsreccenter.org) to view our newest classes and offerings and stop by at our Open House October 18-20 for giveaways and tours of the facility.

September 10 – Mumpkin Fest at Patty Turner Center – You are welcome to come by from 9-11 am to enjoy this community event to purchase pumpkins and mums that are sure to add a festive fall feel to your home!  
Deerfield Golf Club Pro-Am Scramble takes place on October 2 at noon. This event is limited to the first 28 teams to sign up. Fall lessons begin September 6, so

register now!

October 8, 15 & 22 – Enjoy an entire month of Halloween activities and join us at all three of our Halloween Hoopla activities. Check out our website for specific details and to register for this festive series of events! [deerfieldparks.org/evens](http://deerfieldparks.org/evens)

For more information or to register for Park District programs, call 847-945-0650 or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

## DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Register in advance by phone at 847.945.3311, online at [deerfieldlibrary.org](http://deerfieldlibrary.org), or in person at 920 Waukegan Rd. Online program description notes program platform (online, in-person, or hybrid).

### Memory Café

September 7, October 6, 10-11:30 a.m.  
The Café is offered to support and connect those experiencing memory loss and their care partner.

### Resume Workshop

September 12, 7-8 p.m.  
Transform your resume with tips on formatting and how to make the most of your work experience. Knowledge of MS Word is required.

### Roots & Shoots Club

September 13, October 11, 4-5 p.m., Grades 3-6  
Do you care about your community, the environment, and all Earth's creatures? Join our new club, a program of the Jane Goodall Institute.

### PSAT and SAT Practice Tests

September 17, 12 p.m.  
Free full length proctored practice tests. PSAT (Grades 7-9), SAT (Grades 9-12)

### Composting

September 22, 7-8 p.m.  
Learn how to compost in your own backyard.

Being Bilingual Rocks! Family Concert  
September 24, 10:30-11:30 a.m., All Ages  
Traditional and original Latin American and North American rhythms and tunes

will keep toes tapping and hands clapping.

Paranormal Illinois: Ghosts, UFOs, and Mysterious Creatures  
October 30, 2-3 p.m.

Join us for an eerie combination of alien abductions, haunted places, mysterious creatures, crop circles, and everything else weird in Illinois.

### Movie Night: Big Fish

October 11, 6:30 p.m.  
This wonderful 2003 film is the inspiration for the musical by the same name, which the Deerfield Family Theatre will be presenting in November.

### Bats and Other Misunderstood Creatures

October 24, 5-6 p.m., All Ages  
Live fruit bats, snakes, tarantulas, and rats will be here!

### MakerSpace: Barbie Fashion Show (Sewing)

September 7, 14, 21, 28, 4:30-6 p.m., Ages 14+  
Details online for this multi-week design and sewing program.



# COMMUNITYINFO

## DEERFIELD CEMETERY COMMISSION

The Deerfield Cemetery Commission was established in 1988 after the Deerfield Cemetery Association (a private entity) relinquished control, and the operation, maintenance and financial management of the Deerfield Cemetery was transferred to the Village of Deerfield.

The Cemetery Commission oversees all issues related to the cemetery grounds including the maintenance, restoration and care. The Commission also maintains records of plot ownership and burial sites.

The Cemetery Commission typically meets multiple times a year, with periodic inspections of the cemetery grounds. The Village is looking for qualified members of the community who have cemetery operational experience to join the Commission.

*Please contact Assistant to the Village Manager Justin Keenan at [jkeenan@deerfield.il.us](mailto:jkeenan@deerfield.il.us) or 847-719-7462 if you would like to join the Commission. For more information regarding the Deerfield Historic Cemetery please scan the QR code. ☞*



## HISTORICAL SOCIETY FALL FEST SEPTEMBER 11

The Deerfield Area Historical Society's Annual Fall Festival will be held Sunday, September 11, from noon to 4 p.m. at the Deerfield Historic Village, 517 Deerfield Road.

The fun-filled event features antique cars, artisan demonstrations, food, music and tours of the historic buildings. Crafters include a vintage photographer, blacksmith, weaver, potter, soap maker and more. The Deerfield Community Concert Band will perform at 1 p.m.

Funds raised will go toward maintenance of the historic structures, including the oldest building in Lake County, the Caspar Ott log house built in 1837.

As a non-profit organization, all of the Historical Society's services, including the maintenance of the Historic Village, are made possible by membership dues and donations.

*For more information, contact [deerfieldhistory@gmail.com](mailto:deerfieldhistory@gmail.com). ☞*

## HONORING THE LIFE OF DR. CHARLES J. CARUSO

In mid-August, Deerfield Public Schools District 109 learned of the passing of Dr. Charles J. Caruso, for whom Caruso Middle School is named.

Dr. Caruso was one of the longest-tenured superintendents in state history, serving the children of this community for an astounding 36 years between 1955 and 1991.

During his tenure, he navigated the consolidation of Districts 109 and 110, growing from two to ten schools. He then guided 109 through the difficult period of having to close several of those schools, resulting in the six buildings we have today.

Dr. Caruso also lived in Deerfield for the majority of his time with the district, right behind Wilmot Junior High School. During his final year in 1991 the building was renamed Caruso Middle School (then a junior high) as we know it today. He was also a frequent guest of honor at many CMS graduation ceremonies up until the last few years.

A memorial is planned for October 12. Details are not yet available. We extend our deepest sympathies to the Caruso family and thank Dr. Caruso for his decades of service to the children of our community. ☞

## WILMOT SCHOOL CELEBRATES 175 YEARS

This year marks the demisemiseptcentennial anniversary of Wilmot Elementary School. The school has been around (in some form) since 1847.

Wilmot has ordered special t-shirts to commemorate the anniversary this year with logos designed by students. The school is also planning other special events to celebrate the big 1-7-5!

## GENERAL ELECTION VOTING

The General Election will be held Tuesday, November 8, 2022. Polls will be open 6 a.m. – 7 p.m.

Find your Election Day Polling Place at [LakeVoterPower.info](http://LakeVoterPower.info).

Early Voting for the General Election will be at Deerspring Pool, 200 Deerfield Road, Deerfield, beginning October 24. Check [LakeCountyil.gov](http://LakeCountyil.gov) for the days and hours early voting will be available.

Registered voters in Lake County may use any early voting site in the county. Go to [LakeCountyClerk.info](http://LakeCountyClerk.info) for a complete list of early voting sites.

Voting by mail is available through the Lake County Clerk's office. Request a ballot to vote by mail at [LakeVoterPower.info](http://LakeVoterPower.info) or call 847-377-VOTE (8683). Drop-boxes for mail-in ballots will be available at early voting sites, including Deerspring Pool.

*Contact West Deerfield Township Clerk Kristen Scott at 847.945.0614 with any questions. ☞*



## BACK TO SCHOOL SAFETY REMINDERS

As a new school year begins, the Deerfield Police Department wants to remind all students, parents and guardians to focus on safe travels throughout the Village – especially in school zones. Back-to-school days bring congestion—and an increase in potential hazards. Fortunately, a few tips can help improve safety for everyone.

### Driving in the School Zone Area

- Slow down and drive extra cautiously.
- Don't load or unload children across the street from the school.
- Don't double park; it blocks visibility for other children and vehicles.
- When flashers are blinking, stop and yield to pedestrians crossing the crosswalk or intersection.
- Be prepared for kids to appear in unexpected places, like from between parked cars; if they're on bikes, prepare for them to turn in front of you without looking or signaling.
- If you need to use your phone, be sure you're pulled over safely.
- Watch for kids walking while looking at their phones. One study found that a full 20 percent of high school students cross the street while distracted.
- Don't ever block a crosswalk; it forces pedestrians to go around you and could put them in the path of moving traffic.

### Driving Safely When You See a School Bus

- Most of the children who lose their lives in bus-related incidents are four to seven years old and on foot, according to the NSC. They're hit by the bus or by a motorist passing a bus that's stopped to load or unload children—something that's illegal in all 50 states.
- If you're driving behind a school bus, allow a greater following distance than if you were driving behind a car—at least three car lengths.
- Stay alert for flashing lights on a bus, which warn drivers of an impending stop. Treat yellow flashing lights the same as a yellow stop light and decrease your speed. Stop when you see red flashing lights.

- The area 10 feet around a school bus is the most dangerous for children; stop far enough away to allow them space to safely enter and exit the bus. 🍃

## WINTER COAT DRIVE

The Deerfield Police Department is collecting new or gently used coats and gloves to benefit veterans in Lake County through the months of September and October as part of Operation Stand Down. Donation boxes are available in the Police Department lobby and the Deerfield Public Library lobby. For more information, contact Commander Oliver Cachola at 847.945.8636. 🍃

## POLICE DEPARTMENT SAFE SPACE FOR ONLINE TRANSACTIONS

The Deerfield Police Department also functions as a safe place to complete internet transactions. Members of the community are welcome to utilize the lobby and/or parking lot of the Deerfield Police Department (850 Waukegan Road).

Here are a few guidelines:

- Transactions can only be conducted in the lobby between 7 a.m. and 6 p.m.
- Police Department personnel will not oversee or be involved in any way.
- Disputes regarding the sale price, condition of the item or quantity are considered to be a civil matter.
- The sale of large, cumbersome items (furniture, appliances, etc.) must take place in the parking lot.
- The sale of counterfeit, stolen or other illegal items is prohibited.
- Transactions cannot disrupt the daily business of the Police Department.
- Trust your instincts and be cautious when buying and/or selling online. 🍃

## RAIL SAFETY WEEK

The Deerfield Police Department will participate in Illinois Rail Safety Week, a local and multi-state effort to promote vehicle and pedestrian safety around railroad

tracks and trains. Enforcement details are planned throughout the week of September 19 at railroad grade crossings and commuter stations to contact drivers and pedestrians who disobey the laws associated with railroad grade crossings and railroad property. Police officers will distribute literature to the public that contains information on how to be safe around trains and train tracks.

If an engineer sees a person or motor vehicle on the tracks, it takes the average train more than one mile to stop, which is equivalent to about 20 football fields. Walking or playing on the tracks at any time is not only dangerous but is also illegal. Whether on foot or by car, only cross tracks at designated railroad crossings and look for the cross buck signs, lights or safety gates. For more information about Illinois Rail Safety Week, visit [www.illinoisrailsafetyweek.org](http://www.illinoisrailsafetyweek.org). 🍃

## 2022 COMMUNITY SURVEY

The Police Department's 2022 Community Survey is now open.

The Deerfield Police Department has identified the following core values to guide interactions and provide staff members with ideals needed to achieve department goals and meet the overall mission.

- Professionalism in day-to-day activities of law enforcement and serving the community
- A community that is safe for its residents and visitors
- A balance of service, training, career development, and personal time that provides staff with the opportunity for success at the workplace and home
- Human rights that are the foundation of the country and society

The survey will help the determine if it reflects these core values and evaluate the courtesy, efficiency, and effectiveness of the department. Thank you for your time and interest in assisting the department improve our service to the community. To take the survey, visit [www.deerfield.il.us](http://www.deerfield.il.us). 🍃



VILLAGE OF DEERFIELD

D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

PRESORTED  
STANDARD U.S.  
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Deerfield, Illinois

POSTAL CUSTOMER  
DEERFIELD, ILLINOIS 60015



## VILLAGENOTES



### GET YOUR THIRD CART TO THE CURB

Are you composting? Food waste accounts for approximately 20% of all waste that ends up in landfills. Residents now play a larger role in reducing this type of waste in landfills while helping reduce greenhouse gases. Learn more at [www.deerfield.il.us/compost](http://www.deerfield.il.us/compost).

#### Village Officials:

##### Mayor:

**Daniel C. Shapiro** - 847.514.3754  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

##### Trustees:

**Robert "Bob" L. Benton** - 847.945.1570  
Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)

**Larry Berg** - 847.612.0777  
Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)

**Elaine Jacoby** - 847.644.3354  
Email: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)

**Rebekah Metts-Childers** - 847.899.1449  
Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)

**Mary M. Oppenheim** - 847.948.9423  
Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)

**William S. Seiden** - 847.945.2442  
Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

##### Village Manager:

**Kent S. Street** - 847.719.7400  
E-mail: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

#### Village Hall/Police Department

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000 (Switchboard and Finance)  
847.719.7484 (Community Development)  
847.945.8636 (Police non-emergency)

#### Public Works and Engineering

465 Elm Street  
847.317.7245  
847.317.2490 (Engineering)

Public Works Open House – May 21, 2022

Engineering Kiosk / Information Table with FEMA related information





**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 340 – Hazard Disclosure

Dear Mr. Arkens:

As stated in Activity 330, the Village of Deerfield Engineering Department sends out real estate brochures to local industry professionals. A copy of the letter, FEMA materials including the “Check before you buy” handout, and the mailing list is provided. Further, the Village also advises the public on flood prone properties with respect to historical flooding, insurance possibilities, and potential hazards when contacted. A log of properties that were inquired about is also provided.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield



Winter 2022/2023

Dear Real Estate Professional:

The purpose of this letter is to inform real estate professionals of the importance of flood insurance for residential properties and offer guidance in the event of a flood. The Village of Deerfield is a participating member of the National Flood Insurance Program (NFIP). The NFIP enables residents within participating communities to purchase flood insurance. Though in some instances homeowners are not eligible to purchase flood insurance, most will benefit from their community taking part in the NFIP. Nationwide, more than 22,000 communities have joined the program and, as a result, millions of homeowners are eligible to purchase flood insurance.

There are many private residences within the Village of Deerfield that fall within or directly adjacent to the Federal Emergency Management Agency (FEMA) designated Special Flood Hazard Area (SFHA). A property located within a SFHA has a 26% chance of being damaged by a flood over the life of a 30-year mortgage. Unfortunately, many home and business owners do not find out, until it is too late, that their homeowner's insurance will not cover flood damage. The NFIP offers a separate policy that protects the single most important financial asset, which for most people is their home or business. NFIP flood insurance is sold through private insurance companies and agents and is backed by the federal government. It is the ethical responsibility of each real estate professional to provide the proper due diligence when advising their clients on home purchases.

For the Village to maintain the current standing with the NFIP, we are required to provide information for all Real Estate Professionals that they can share with prospective clients. It is also a requirement for the Village to provide proof of receipt for all Real Estate Professionals that have been provided this information. To acknowledge your receipt of the above-mentioned information, please sign the next page and scan a copy back to our office at [engineering@deerfield.il.us](mailto:engineering@deerfield.il.us) or fax it to (847) 317-7248.

If you have questions or need additional information regarding the NFIP or floodplain related issues, please contact the Village of Deerfield Engineering Department at 847-317-2490 or visit our website at [www.deerfield.il.us](http://www.deerfield.il.us). Copies of a couple informative FEMA floodplain brochures, which are available at <https://agents.floodsmart.gov/Resource-Library>, have been included within this letter for your reference.

Sincerely,

Tyler Dickinson, P.E.  
Assistant Director of Public Works and Engineering

## Flood Hazard: Check Before You Buy

Most everyone knows that coastal properties are subject to flooding and wind damage from hurricanes. There are maps that show areas predicted to flood. To find out more about flood-prone area maps, check with the Village of Deerfield Engineering Department.

However, flooding and other surface drainage problems can occur well away from the coast. If you're looking at a property, it's a good idea to check out the possible flood hazard before you buy. Here's why:

- The force of moving water or waves can destroy a building.
- Slow-moving floodwaters can knock people off their feet or float a car.
- Even standing water can float a building, collapse basement walls, or buckle a concrete floor.
- Water-soaked contents, such as carpeting, clothing, upholstered furniture, and mattresses, may have to be thrown away after a flood.
- Some items, such as photographs and heirlooms, may never be restored to their original condition.
- Floodwaters are not clean: floods carry mud, farm chemicals, road oil, and other noxious substances that cause health hazards.
- Flooded buildings breed mold and other problems if they are not repaired quickly and properly.
- The impact of a flood—cleaning up, making repairs, and the personal losses—can cause great stress to you, your family, and your finances.

**Floodplain Regulations:** The Village of Deerfield regulates construction and development in the floodplain to ensure that buildings will be protected from flood damage. Filling and similar projects are prohibited in certain areas. Houses substantially damaged by fire, flood, or any other cause must be elevated to or above the regulatory flood level when they are repaired. More information can be obtained from the Engineering Department at 847-317-2490.

**Check for a Flood Hazard:** Before you commit yourself to buying property, do the following:

- Ask the Deerfield Engineering Department if the property is in a floodplain; if it has ever been flooded; what the flood depth, velocity, and warning time are; if it is subject to any other hazards; and what building or zoning regulations are in effect.
- Ask the real estate agent if the property is in a floodplain, if it has ever been flooded, and if it is subject to any other hazards, such as sewer backup or subsidence.
- Ask the seller and the neighbors if the property is in a floodplain, how long they have lived there, if the property has ever been flooded, and if it is subject to any other hazards.

**Flood Protection:** A building can be protected from most flood hazards, sometimes at a relatively low cost. New buildings and additions can be elevated above flood levels. Existing buildings can be protected from shallow floodwaters by regrading, berms, or floodwalls. There are other retrofitting techniques that can protect a building from surface or subsurface water.

**Flood Insurance:** Homeowners insurance usually does not include coverage for a flood. One of the best protection measures for a building with a flood problem is a flood insurance policy under the National Flood Insurance Program, which can be purchased through any licensed property insurance agent. If the building is located in a floodplain, flood insurance will be required by most federally backed mortgage lenders. Ask an insurance agent how much a flood insurance policy would cost.

# Flood Insurance:

## Make it your business.



FEMA



### Flooding can happen anywhere

Flooding is the most common and costly natural disaster in the United States, affecting every region and state. In fact, more than 20 percent of claims come from outside high-risk areas. Yet many property owners are unaware of their risk.

That is why FEMA's National Flood Insurance Program (NFIP) is committed to educating customers and communities about flood risk and protecting property owners through flood insurance. We're committed to partnering with agents across the country to provide lower-cost, effective insurance solutions, protecting property owners from the financial devastation caused by flooding, and ultimately building more flood resilient communities.

### You can make a difference

In a moment, flooding can undo the financial security that took a lifetime to build. But you can make a difference. Talk to your clients about flood risk. Inform them of their flood insurance choices. By making flood insurance your business, you can help protect your clients and community while generating additional revenue.

### Your clients may think they are protected

Nearly 1 in 4 property owners think their homeowners insurance covers damage caused by flooding. As you know, in most cases, it does not. Whatever the cause of the flood—heavy rains, a blocked creek, inadequate drainage, or an overtopped levee—for most people, flood insurance is the best way to protect against the financial devastation caused by flooding.

### Protect your clients, protect yourself

People need flood insurance to protect their most important investment: their homes or businesses.

By offering flood insurance to your clients, you help protect them from financial harm, and protect yourself from errors and omissions liability.

### Standard Flood Insurance Policies (SFIPs)

For property owners in high-risk flood areas, the purchase of a SFIP is required by federally backed lenders. As an agent, you can help clients living in high-risk flood areas understand the value of flood insurance, as well as important flood mitigation steps that they can take to lower their insurance costs and protect their home.

Even if flood insurance is not mandated for your client's property, they are still at risk. Encourage clients living in moderate- to low-risk areas to protect the lives they've built by purchasing a lower-cost Preferred Risk Policy.

### For more information:

- Contact your company's underwriting department or marketing representative or contact NFIP Direct at **1-800-638-6620**.
- Attend a flood insurance training seminar. Visit **NFIPservices.FloodSmart.gov** for information about agent training.
- Visit **Agents.FloodSmart.gov** for more tools for agents and information on the NFIP.

### Preferred Risk Policies (PRPs)

#### The preferred policy for clients with a choice

PRPs offer the same level of protection as standard policies, including contents coverage, with a lower premium. Preferred risk coverage can be obtained for both residential and commercial properties, and contents-only coverage is available for renters and business owners who lease their space.

PRPs help you retain flood insurance policies and commissions. Flood insurance, whether required or not, is always the right choice.

#### PRPs increase client satisfaction

Savings on premiums make for satisfied clients who know that their agent is looking out for the full range of their insurance needs.

#### PRPs are easy to write

Whether you are converting a standard policy to a PRP or writing a new policy, the process is simple and straightforward.

**Coldwell Banker Residential  
Brokerage**

740 Waukegan Rd, Ste 112  
Deerfield, IL 60015

**Prism Mortgage**

770 Lake Cook Rd Unit 145  
Deerfield, IL 60015

**US Bank**

700 Deerfield Rd  
Deerfield, IL 60015

**Varo Real Estate**

500 Lake Cook Rd Ste 350  
Deerfield, IL 60015

**Allstate Insurance Company -  
Marc Turim**

400 Lake Cook Rd,  
Deerfield, IL 60015

**Coldwell Banker Realty**

675 Deerfield Rd Ste 125  
Deerfield, IL 60015

**First Midwest Bank**

725 Waukegan Road,  
Deerfield, IL 60015

**Michael Rizzo - State Farm  
Insurance Agent**

825 Waukegan Rd  
Deerfield, IL 60015

**Guaranteed Rate**

111 S Pfingsten Rd Ste 124  
Deerfield, IL 60015

**Flagship Mortgage**

707 Lake Cook Rd #220  
Deerfield, IL 60015

**Home Loan Solutions**

420 Lake Cook Rd #104  
Deerfield, IL 60015

**CrossCountry Mortgage**

500 Lake Cook Rd, Ste 420  
Deerfield, IL 60015

### FEMA Map Information Inquiry Log

Date	Type	Address	Panel	Zone	Floodplain	Floodway	Elevation	Insurance Information Given (Yes/No)	Historical Flood Info	Wetland
Spring	T	1665 Cranshire Ct	286K	AE	Y	N	659	Y	N	N
Spring	T	770 Tanglewood Ct	286K	AE	Y	N	653	Y	N	N
6/25/2022	E	652 Deerpath	286K	AE	N	N	656	N	N	N
6/25/2022	T/E	535 Shannon	286K	AR	Y	Y	653			
			286K							
			286K							
			286K							
			286K							
Summer	T	1040 Illinois Trail	286K	AE	Y	Y	658	Y	N	N
			286K							
Fall	T	1654 Cranshire Ct	286K	AE	Y	N	659	Y	N	N
Fall	T/E	560 Brierhill Rd	286K	AE	N	N	667	Y	N	Y
11/29/2022	T	480 Carriage Way	286K	AE	Y	Y	653	N	Y	N
			286K							

Type Codes:  
W - Walk-in  
V- Verbal  
WR - Written  
H - Hand -out  
T - Telephone  
E - email

OM - Onsite Meeting  
V- Verbal  
WR - Written  
WS- Website Submitted / FOIA  
V- Verbal  
WR - Written  
N/A - Not Applicable



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 350 – Flood Protection Information

Dear Mr. Arkens:

The Village of Deerfield hosts various floodplain links and information on the Village's webpage. All associated links were functional as of 1/11/2023 and the various pages have been provided as PDFs. Additionally, many flood information documents are also maintained in the Deerfield Public Library. Please see the attached letter from the Library that lists the various documents.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

## Additional Flood Information & Village Services

### Flood Hazard Areas

Special Flood Hazard Areas (100-year floodplain) in the Village of Deerfield are located near the Middle Fork and West Fork of the North Branch of the Chicago River. The eastern portion of Deerfield is in the Middle Fork floodplain, while the western part of town is in the West Fork floodplain. For a detailed map visit the Village of Deerfield website [www.deerfield.il.us](http://www.deerfield.il.us) under maps and information.

Guidance on whether your property is in the 100-year floodplain can be obtained by visiting the Engineering Department and having a staff member help you. However, staff cannot make an official determination but can advise residents on the process with FEMA. Maps are available to look at as well as other flood-related information. Contact the Engineering Department at 847-317-2490 for further assistance.

### Flood Safety

The following common sense guidelines can help protect you from the dangers of flooding:

- Do not drive through a flooded area. More people drown in cars than anywhere else.
- Do not drive around barriers.
- Do not walk through flowing water. Currents can be deceptive. Six inches of water can knock you off your feet.

### Village of Deerfield Flood Recommendations

- Stay away from power lines and electrical wires. If your house is about to be flooded, turn off the power at the service box. Electrical current can travel through water. Electrocution is the 2nd leading cause of death during floods.
- Be alert to gas leaks. Turn off the gas to your house before it floods. If you smell gas, report it to a Village official or your gas company. Do not use candles, lanterns or open flames if you smell gas or are unsure if your gas has been shut off.
- Keep children away from the flood waters, ditches, culverts and storm drains. Flood waters can carry unimaginable items that have dislodged themselves. Culverts may suck smaller people into them rendering them helpless.
- Clean everything that has been wet. Flood water will be contaminated with sewage and other chemicals which pose severe health threats.
- Look out for animals, especially snakes. Small animals that have been flooded out of their home may seek shelter in yours.

- Do not use gas engines, such as generators, or charcoal fires indoors during power outages. Carbon monoxide exhaust can pose serious health hazards.

## Property Protection Measures

If your property is susceptible to flooding, there are many flood damage reduction measures you can employ:

- Watertight seals can be applied to brick and block walls to protect against low-level flooding.
- Utilities such as heating and air conditioning systems, water heaters and other major appliances can be elevated to higher floors in the structure or on raised platforms.
- Temporary measures such as moving furniture and other valuables to higher floors or sandbagging exterior openings will also help.
- Elevating or relocating the entire structure may also be a feasible option.

## Historical Flooding & Natural Floodplain Functions

In addition to floodplain mapping assistance the Village of Deerfield Engineering Department provides the following services:

- Historical flooding information.
- Natural flood plain function information.
- Information on soil types when available.
- Flood protection assistance recommendations.

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available to look at as well as other flood-related information. With questions please contact the Engineering Department at 847-317-2490.

## Additional Information

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov website](https://www.fema.gov)
- Physical Address of Village of Deerfield Engineering Department  
465 Elm Street  
Deerfield, IL 60015
- Engineering Phone Number: 847-317-2490

- [Flood FAQs](#)
- [Deerfield Public Library](#)
- [Lake County Flood Information, Programs and All Natural Hazards Mitigation Plan \(ANHMP\)](#)
- [Deerfield 2020 Annual Progress Report](#)

## Quick Links

- [FEMA Map Service](#)
- [The National Flood Insurance Program \(on FEMA\)](#)
- [Protect Your House from Flooding](#)
- [Homowner's Guide to Retrofitting](#)
- [Guide to Flood Protection in NE Illinois](#)
- [Elevation Certification Website](#)

[View All](#)

## Brochures & Map

- [2014 Deerfield Flood Brochure \(PDF\)](#)
- [Contractor Combined September 5 2008 \(PDF\)](#)
- [FEMA Update \(PDF\)](#)

# Engineering

## Overview

The Engineering Division provides civil engineering assistance to other Village departments, residents, builders and developers. As such, the division oversees the design, development, and construction of public facilities and capital improvements for Village projects and private development projects within the Village. These facilities include roadways, water supply, wastewater treatment plant and storm drainage. In addition, the division is responsible for issuing permits for any work to be performed on Village property or within the Village right-of-way. This division also secures funding for projects, often from outside agencies (state and federal sources), and prepares all required project documentation and regulatory agency reports.

The division's activities can be divided into 4 main areas of responsibility:

## Capital Improvement Project Planning & Management

- [Current Project Information & Schedules](#)
- [Contractor Details & Specifications](#)
- [Complete Street Policy](#)
- [Site Management Requirements](#)

## Residential & Commercial Development Plan Review

- [Engineering Plan Review Checklist](#)
- [Utility Inspections](#)

## Construction Guidelines & Permits

- [Drainage Compliance \(Lake County Watershed Development Ordinance\)](#)
- [Tree Preservation](#)
- [Parkway Tree Maintenance](#)
- [Details & Specifications](#)
- [Tree Removal Permit](#)

## Maps and Additional Information

- [FEMA Floodplain](#)
- [Flood Information](#) (e.g. hazards, preventions, protections, etc.)
- [Flood Plain Management Efforts](#)

- [GIS Maps](#)

## Contact Us

Public Works & Engineering

[Email](#)

### Physical Address

465 Elm Street

Deerfield, IL 60015

Phone: 847-317-7245 or 847-317-2490

### Hours

Monday - Friday

7 a.m. - 3:30 p.m.

[Directory](#)

Robert W. Phillips

Director of Public Works and Engineering

[Email](#)

Phone: 847-719-7464

## FAQ Categories

- [Billing Questions](#)
- [Sewers & Sanitation Questions](#)
- [Streets Questions](#)

[View All](#)

## FAQs

- [Does the Village reimburse motorists for damage caused by potholes?](#)
- [Do I need to register my vehicle with the Village?](#)

- I did not receive a renewal form for my vehicle sticker. What do I do?

[View All](#)

<http://il-deerfield.civicplus.com/189/Flood-Information>

## Flood Information

### FEMA CRS Accredited Community

The Village of Deerfield is a participating member of the National Flood Insurance Program (NFIP). Anyone can purchase flood insurance through their local insurance agent via the NFIP. There is a 30 day waiting period for flood insurance coverage to begin. A property located within a Special Flood Hazard Area (SFHA) has a 26% chance of being damaged by a flood over the life of a 30-year mortgage. Your homeowner's insurance **will not** cover flood damages. This is why flood insurance is mandatory for all federally backed mortgages, when a property that is located within a Special Flood Hazard Area (SFHA). The Village of Deerfield participates in FEMA's "Community Rating System" which can further reduce flood insurance premiums.

Read about how Deerfield's Flood Plain Management [Efforts Earn Lower Flood Insurance Rates for Residents](#).

### Floodplain Questions

If you want to know if a property is in the Special Flood Hazard Area, check out the [Federal Emergency Management Agency \(FEMA\)'s website](#). You can also call the Building Department at 847-719-7484, or the Engineering Department 847-317-2490 with your floodplain questions. The Building Department has copies of FEMA elevation certificates for all buildings constructed in the floodplain since 1987.

Find [additional flood information and Village services](#) related to flooding.

### Deerfield FEMA Brochures & Map

- [2014 Deerfield Flood Brochure \(PDF\)](#)
- [Contractor Combined September 5 2008 \(PDF\)](#)
- [FEMA Update \(PDF\)](#)

### FEMA Links

- [FEMA Map Service](#)
- [The National Flood Insurance Program \(on FEMA\)](#)
- [Protect Your House from Flooding](#)
- [Homowner's Guide to Retrofitting](#)
- [Guide to Flood Protection in NE Illinois](#)
- [Elevation Certification Website](#)

[View All](#)

## Flood Plain Management Efforts

### Deerfield's Flood Plain Management Efforts Earn Lower Flood Insurance Rates for Residents

#### Program Implementation

Deerfield's long term commitment to aggressive flood plain management has been recognized yearly by the National Flood Insurance Program (NFIP) who has certified the Village's efforts in achieving a Class 6 rating by the Federal Emergency Management Agency. The National Flood Insurance Program Community Rating System was implemented in 1990 to recognize and encourage community floodplain management that exceeds the minimum National Flood Insurance Program standards. Since the Village's voluntary participation in the program began in 1993, the Village of Deerfield has undertaken a series of meaningful activities to protect residents from flood losses.

#### Extra Efforts

Some of these extra efforts include:

- More restrictive floodplain regulations
- Increased flood protection such as higher freeboard requirements, compensatory storage for fill placed in floodplains, and higher substantial improvement requirements
- Construction of the Lake Cook Road at Pfingsten Road Storm Water Detention basin
- More frequent inspections and maintenance of creeks and other storm drainage facilities
- Continual outreach programs regarding community floodplain construction regulations
- Continual education of the public in regard to flood insurance availability and requirements
- Providing assistance to property owners in determining if their property is located in/around a Special Flood Hazard Area (SFHA).
- Preserving floodplain (currently 236 acres) as open space

#### Results

There are currently 20,100 communities nationwide in the National Flood Insurance Program but only 1,048 participate in the CRS program. Of those 1,048, only 100 have achieved a CRS Class rating of 6. What all this

means is that any homeowner in the Village of Deerfield who must carry flood insurance because their home is located in a SFHA receives a 20% reduction on their flood insurance premiums. Homeowners outside of the SFHA who choose to carry flood insurance will receive a 10% reduction in addition to the reduction already offered to them due to their reduced risk policy.

If you have any questions or need additional information regarding the National Flood Insurance Program please contact the Department of Public Works and Engineering at 847-317-2490 or visit the Village of Deerfield's Flood Information page on our website by clicking [here](#).



January 13, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation  
6450 W 82 St.  
Burbank IL 60459

Subject: Activity 350 - Flood Protection Information-

Dear Mr. Arkens:

The Village of Deerfield Public Library currently maintains copies of the following FEMA publications:

- FEMA-15 | Design Guidelines for Flood Damage Reduction
- FEMA 54 | Elevated Residential Structures
- FEMA F-084 | Answers to Questions about the National Flood Insurance Program
- FEMA 85 | Manufactured Home Installation in Flood Hazard Areas
- FEMA P-85, Second Edition | Protecting Manufactured Homes from Floods and Other Hazards
- FEMA 102 | Floodproofing Non-Residential Structures
- FEMA 114 | Retrofitting Flood-Prone Residential Structures
- FEMA 116 | Reducing Losses in High Risk Flood Hazard Area: A Guidebook for Local Officials
- FEMA-168 | Conceptual Framework and Basic Strategies and Tools for Implementing a Unified National Program for Floodplain Management
- FEMA 186 | Mandatory Purchase of Flood Insurance Guidelines
- FEMA P-347 | Above the Flood: Elevating Your Floodprone House
- FEMA P-348, Edition 1 | Protecting Building Utilities from Flood Damage
- FEMA P-511 | Reducing Damage from Localized Flooding

The Public Library also maintains copies of local flood information documents.

If you have any questions or need more information please feel free to call me at, 847.945.3311

Sincerely,

*Amy Falasz-Peterson*

Amy Falasz-Peterson, Director



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 360 – Flood Protection Assistance

Dear Mr. Arkens:

The Village of Deerfield has three qualified staff members that are available to assist residents that encounter flooding problems. The staff members are Robert Phillips, P.E. (Director of Public Works and Engineering), John Guccione (Engineering Project Manager), and Tyler Dickinson, P.E. (Assistant Director of Public Works & Engineering). The three staff members have over 30 years of experience of performing drainage inspections/recommendations. They all have the proper qualifications and/or education to assist with local flooding problems. Mr. Phillips has completed the E273 - Managing Floodplain Development course and Mr. Dickinson has completed the L278 – Community Rating System course through the National Flood Insurance Program.

The Village of Deerfield publicizes the Department's flood protection assistance in our Flood Information column within the D-Tales publications. Additionally, this service is advertised on the Village website. This assistance is a well-known service within the community with around 65 locations discussed with residents last year by the Department, many of which require on-site inspections. Attached are two email chains confirming said meetings.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

# VILLAGE OF DEERFIELD

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000

Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

## MEETING SCHEDULE

Meeting times/dates subject to change.

*For a complete list of meetings visit,  
[www.deerfield.il.us](http://www.deerfield.il.us)*

### May

Board of Trustees  
May 16, 7:30 p.m.

Plan Commission  
May 26 7:30 p.m.

Appearance Review Commission  
May 23, 7:30 p.m.

Volunteer Engagement Commission  
May 25, 6:30 p.m.

### June

Board of Trustees  
June 6 & 20, 7:30 p.m.

Family Days Commission  
June 6, 5:00 p.m.

Plan Commission  
June 9 & 23, 7:30 p.m.

Community Relations Commission  
June 14, 6:00 p.m.

Appearance Review Commission  
June 27, 7:30 p.m.

May/June 2022

Vol. 44 No. 3

# D-TALES

Your Municipal News Source

## MAYOR'S MESSAGE FROM DANIEL C. SHAPIRO

When I was sworn in as Mayor one year ago, I was unable to appreciate the many ways that being Mayor would be different from being a Trustee. I soon learned that it is the people.



One of the joys of being Mayor is talking to the many wonderful people I get to meet every day and the truly interesting events I have an opportunity to attend. Just last month, I was invited to help plant a tree at Walden Elementary for Arbor Day and saw the kindergartners perform a song and dance. I recently spoke at the Deerfield Rotary Club's 90th anniversary celebration and met a member who has been serving for 34 years.

Before Thanksgiving, Pastor Tim Higgins at North Suburban Free Church invited me to help out with their Project Share food drive, where 10,800 meals for families were collected. Over the winter holidays, I participated in my first area interfaith service with representatives from nearly every faith community in our area.

If you've never been to one, the DBR Chamber of Commerce puts together amazing ribbon cutting events for new businesses. It allows me the chance to meet new business owners investing in our community and learn what they have to offer.

My favorite events, though, are our Village events. They don't tell you when you're running for Mayor that they will bring you up on stage to sing with the band at Harvest Fest. Our Village staff does a great job planning and organizing behind the scenes to pull each one off. For example, planning is well underway for this year's Family Days, thanks to our Family Days Commission. I think it will be

*Shapiro Continued on Page 2*

## LARRY BERG REPLACES TOM JESTER ON VILLAGE BOARD

In March, Village of Deerfield Trustee Thomas "Tom" Jester submitted his resignation to Mayor Daniel C. Shapiro. Jester has been a Deerfield resident since 1976 and served 15 years on the Village Board, with one year remaining in his fourth term. On March 21, the Board of Trustees unanimously accepted Mayor Shapiro's appointment of Larry Berg to the position of Trustee to fill Jester's remaining term.

Jester is a former engineer and serves as a founding committee member on the Farmers Market Committee.

"It has been my privilege to serve the Village as have the many women and men who preceded me. I am pleased to have contributed to several advances over the years," Jester said.

Mayor Shapiro noted that Jester's breadth of experience helped the Village Board make more informed decisions.

"I cannot say enough about Tom and his incredible service to our Village. His experience and background allowed him to make valuable and thoughtful contributions to our Board for many years. We are very thankful to Tom. He will be missed," Mayor Shapiro said.

Berg, an attorney, previously served as the Chair of the Plan Commission, a role he has

*Trustees Continued on Page 2*

### CHECK IT OUT!

Page 2:

- Pride Month in Deerfield

Page 4:

- Public Works Open House May 21

Page 7:

- Food Truck Thursdays





*Shapiro Continued from Page 1*  
the best one yet.

I'm pleased to announce our newest event series – Food Truck Thursdays. On the third Thursday of each month this summer, we'll have local vendors, favorite regional food trucks and live music in the commuter parking lot at the corner of Jewett Park Drive and Park Avenue. Please come out with your friends, family and appetite.

Former Mayor Rosenthal once gave me a bit of mayoral advice – get your ice cream last. “When shopping as Mayor, you stop and talk to so many people it will melt before you get to the checkout.” If you see me out and about in town, please feel free to say hi and ask me about what is going on in the Village. Just check my cart for ice cream first.

I want to thank the Board of Trustees for all of our many accomplishments over the last 12 months. We've enacted regulations to increase affordable housing units in the Village, streamlined the approval process for businesses looking to locate here, approved new residential units and are getting ready to see the report from the Greenhouse Gas Reduction Working Group we created, to name just a few. Let's keep up the teamwork and momentum.

Lastly, as it seems we are working our way out of the COVID-19 pandemic, please continue to extend courtesy and grace to your neighbors. It's been a tough two years.

Best,  
Dan

*Trustees Continued from Page 1*

held since 2017. In addition, he served on the Commission since 2008. Prior to the Plan Commission, he served on the Board of Zoning Appeals. A Deerfield resident for 29 years, he is also a vice president on the Board of Directors of Shore Community Services, which provides services for individuals with developmental disabilities including early childhood intervention, developmental training, residential care,

respite care and vocational services.

“I am honored to have been appointed by Mayor Shapiro to the Board of Trustees. I look forward to serving the Village of Deerfield and its residents in this new position,” Berg said.

Mayor Shapiro said Berg's years of experience on the Plan Commission will be an asset to him in his new role.

“I am pleased to appoint Larry to Village Trustee,” Shapiro said. “Larry will have big shoes to fill, but given his many years on the Plan Commission, including as Chairman, I have no doubt that Larry will bring his energy and experiences to the Board in a very positive way.”

## JUNE 28 GENERAL PRIMARY ELECTION VOTING

The General Primary Election will be held Tuesday, June 28, 2022. Polls will be open 6 a.m. – 7 p.m. You can find your Election Day Polling Place at [LakeVoterPower.info](http://LakeVoterPower.info). Early Voting for the Primary only will be at West Deerfield Township: June 13 – June 25, Monday – Friday 9 a.m. – 5 p.m., and 9 a.m. – 2 p.m. on Saturdays. Early Voting is not available at this location on Sundays.

Registered voters in Lake County may use any Early Voting site in the county. Go to [LakeCountyClerk.info](http://LakeCountyClerk.info) for a complete list of early voting sites, and those with extended hours.

Voting by mail is available through the Lake County Clerk's office. Request a ballot by mail at [LakeVoterPower.info](http://LakeVoterPower.info) or call 847-377-2406. A drop-box for mail-in ballots will be available during Early Voting at the West Deerfield Township office.

Contact Township Clerk Kristen Scott at 847.945.0614 with any questions. ☺

## CELEBRATE PRIDE MONTH IN DEERFIELD

The Village Board recently approved the Community Relation Commission's

recommendation to recognize various heritage celebration months, starting with LGBTQ Pride Month in June.

On June 1, the Village will display the Pride flag at various locations and place rainbow-colored pinwheels in the front lawn of Village Hall that residents are encouraged to take home to display in their lawn as a sign of support of the LGBTQ community.

Mayor Shapiro will present a Pride Month Proclamation at the June 6 Board meeting to a Deerfield-based PFLAG (Parents, Families, and Friends of Lesbians and Gays) group that has been meeting in the Village for more than 25 years.

Then, on June 18, it's Pride Day at the Deerfield Farmers Market! LGBTQ community groups will have crafts and information while members of the Community Relations Commission hand out more of the rainbow pinwheels.

Residents can also join the Deerfield Library for year two of Queer Poem-a-Day, a special daily podcast series for Pride Month, featuring a recording of a poem written and read by a contemporary LGBTQIA+ poet for each day of June. It is presented with support from the Deerfield Fine Arts Commission and the Friends of the Deerfield Public Library. Find out more about participating poets and read and hear their poems at [deerfieldlibrary.org/queerpoemaday](http://deerfieldlibrary.org/queerpoemaday). Queer Poem-a-Day is directed by poet and educator Lisa Hiton, and Dylan Zavagno, Adult Services Coordinator at DPL.

As part of the new heritage celebration month initiative, the Village is also performing a comprehensive edit of the Municipal Code to remove outdated wording. For example, the Mayor and Trustees use default male pronouns in the code, despite just having a woman as mayor for 12 years and a Village Board comprised of 50 percent female Trustees at the moment. Policeman will be changed to “Police Officer” and outdated references to those in the disabled community will be removed. ☺



## CRIME PREVENTION TIPS FOR THE SUMMER

### Tips for Homeowners :

- Keep doors in your home and cars closed and locked, including garage doors. An open door is an invitation.
- Be a good neighbor and alert police to any unusual activity in your neighborhood. Plan for vacation by having your mail and newspapers stopped or having a neighbor pick them up. Leave inside lights on timers to create the impression that your house is occupied. Be sure to set your alarm system. Have a lawn service or neighbor mow your lawn.
- Avoid home improvement scams and deception burglaries by taking a proactive approach. Be particularly alert to anyone in your neighborhood looking to perform home repairs and asking to gain entry into your home. Ask to see identification and let them know you are going to call and get verification from their company before allowing them inside. If they are legitimate, they won't mind the wait.

### Tips for Drivers:

- Do not leave valuables or cash in your car. If you must leave items in the car, lock them in the trunk.
- Be alert for children playing in neighborhoods and residential areas.
- Drive safely and slowly around parks and playgrounds. More children are out playing during the summer.

### Tips for Parents:

- Provide a list of phone numbers of neighbors, family and friends that your child can call in an emergency. Make sure your child knows how to dial 9-1-1 and when it is appropriate to do so.
- Know the route your child will take to and from a given location. Remind your child never to take a shortcut or deviate from the agreed-upon route.
- Establish rules for using the internet. Children should have adult supervision

when online. Make sure your child knows to never give out personal information on the internet.

- Require your child to check in with a parent before leaving the house and when returning home. Teach your child that there is safety in numbers and that it is best to be with a group of friends when going places without an adult. ☞

## CURFEW APPLIES YEAR-ROUND, INCLUDING HOLIDAYS

The curfew law is applicable to those 17 and under. It is in effect Sunday through Thursday from 11 p.m. to 6 a.m., and Friday and Saturday from midnight to 6 a.m.

Drivers under the age of 18 may not operate a motor vehicle between 10 p.m. and 6 a.m., Sunday through Thursday, and between 11 p.m. and 6 a.m., Friday and Saturday. During allowed driving times, the number of passengers is limited to one person under the age of 20, unless the additional passenger is a sibling, step-sibling, child or step-child of the driver.

Exemptions in the law allow new drivers to drive to and from employment or school-sanctioned activities outside the restricted times. Underage drivers convicted of violating the driving curfew may have their driver's license suspended.

*For more information, contact Communications Director Mary Anne Glowacz at 847.945.8636 or [mglowacz@deerfield.il.us](mailto:mglowacz@deerfield.il.us)* ☞

## BIKE SAFETY TIPS

There are so many great reasons to ride your bike: It offers fun, freedom and exercise, and it's good for the environment. We want kids and families to ride their bikes as much as possible.

Here are a few tips so that you'll be safe while you do so:

- Wear a properly-fitted helmet.

Properly-fitted helmets can reduce the risk of head injuries by at least 45 percent – yet less than half of children 14 and under usually wear a bike helmet.

- Ride on the sidewalk when you can. If not, ride in the same direction as traffic as far on the right-hand side as possible.
- Use hand signals and follow the rules of the road. Be predictable by making sure you ride in a straight line and don't swerve between cars.
- Wear bright colors and use lights, especially when riding at night and in the morning. Reflectors on your clothes and bike will help you be seen.
- Ride with your children. Stick together until you are comfortable that your kids are ready to ride on their own.

## KEEP YOUR DOGS COOL THIS SUMMER

Every year, dogs suffer and die when their guardians make the mistake of leaving them in a parked car – even for “just a minute” – while they run an errand.

Parked cars are deathtraps for dogs; on a 78-degree day, the temperature inside a parked car can soar to between 100 and 120 degrees in just minutes, and on a 90-degree day, the interior temperature can reach as high as 160 degrees in less than 10 minutes.

Animals can sustain brain damage or die from heatstroke in just 15 minutes. Beating the heat is challenging for dogs because they can only cool themselves by panting and by sweating through their paw pads.

If you see a dog left alone in a hot car, take down the car's color, model, make and license plate number and call 9-1-1. If possible, have someone keep an eye on the dog until help arrives. ☞

## FOLLOW THE POLICE DEPARTMENT ON SOCIAL

Follow us at:

- [facebook.com/DeerfieldPD](https://www.facebook.com/DeerfieldPD)
- [twitter.com/DeerfieldILPD](https://twitter.com/DeerfieldILPD)



# PUBLICWORKS

## 2022 STREET REHABILITATION PROJECT

Bids for the Village of Deerfield's 2022 Street Rehabilitation Project were accepted in March and the project was awarded in the amount of \$3.27 million by the Village Board in April. Work started in early May and is expected to be complete by October.

The contract includes the reconstruction/rehabilitation of 12 streets within the Village. The following roads are associated with this year's project:

- Byron Court from Hermitage Drive to north limits
- Charing Cross from Pine Street to Indian Hill Road
- Gordon Terrace from Willow Avenue to Pine Street
- Hermitage Drive from Whittier Avenue to Byron Court
- Kenmore Avenue from Hackberry Road to the south limits
- Kipling Place from Deerfield Road to Longfellow Avenue
- Longfellow Avenue from Waukegan Road to Byron Court
- Montgomery Road from Wilmot Road to the west limits
- Plum Tree Road from Pine Street to Gordon Terrace
- Price Lane from Osterman Avenue to the north limits
- Rosewood Avenue from Birchwood Avenue to Kenmore Avenue
- Whittier Avenue from Hermitage Drive to the east limits.

Updates on the project will be shared via the Village website. Residents can sign up to receive email and/or text message updates on the project at [www.deerfield.il.us](http://www.deerfield.il.us) under "Notify Me."

*For more information, contact the Engineering Department at 847.317.2490.*

## WATER METER HEAD REPLACEMENT PROGRAM

Starting in late April, residents started to receive letters from United Meters

Inc. (UMI) asking them to schedule an appointment to have their water meter head replaced. The meter head is the part of the meter that transmits your water usage via radio frequency to the Village for billing purposes.

The letters from UMI will be sent out over the next few months by neighborhood to maximize efficiency.

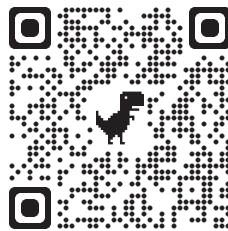
The Public Works Department began installing updated Orion radio frequency water meter heads in 2001 and many of the meter heads have now reached the end of their useful lifecycle.

Residents will schedule an appointment directly with UMI, who will dispatch licensed plumbers to complete the work. All UMI employees will wear a facemask and follow social distancing guidelines as part of the installation.

All UMI employees have been issued photo IDs by the Village that they will be able to display before entering your home.

Depending upon the location of your water meter, UMI may need to enter your home to complete the meter head replacement. Please ensure that UMI's licensed plumber has direct access to the meter before your appointment.

The meter head replacement should take 30 minutes or less and your water may need to be turned off during that time. Use your smart phone on the below QR code to watch a video explaining the process.



*For more information, please contact Justin Keenan, Assistant to the Village Manager, at 847.719.7462 or [jkeenana@deerfield.il.us](mailto:jkeenana@deerfield.il.us)*

## LAWN SPRINKLING AND IRRIGATION REGULATIONS

From May 15 through September 15, lawn sprinkling regulations are in place.

Even numbered addresses may water on even numbered dates from midnight to noon and/or from 6 p.m. to midnight. Odd numbered addresses may water on odd numbered dates from midnight to noon and/or from 6 p.m. to midnight. This applies only to lawn sprinkling.

As a reminder, all irrigation systems are required to have a backflow prevention device called a Reduced Pressure Zone Backflow Preventer (RPZ). This must be certified annually by a licensed Cross Connection Device Inspector. This testing and certification must be completed every year prior to the system going into service.

The Village has contracted with Backflow Solutions, Inc. (BSI) to administer the backflow prevention tracking program. The annual backflow assembly test report must be submitted electronically by your inspector via the BSI Online system at [www.BsiOnline.com](http://www.BsiOnline.com).

*For more information, contact the Public Works Department at 847.317.7245.*

## PUBLIC WORKS OPEN HOUSE – SATURDAY, MAY 21

Join the Village of Deerfield and Deerfield Park District from 10 a.m.-1 p.m. on Saturday, May 21, for a kid and adult friendly Open House at Deerfield's Public Works Facility, 465 Elm Street. Parking is available at the Patty Turner Center, 375 Elm Street.

This event is free for all ages and will feature:

- Tours & Exhibits
- Fun Giveaways
- Hands-On Activities
- Vehicles & Equipment
- Prizes
- Vendors & Education
- Public Works Merchandise

*For more information, contact the Public Works Department at 847.317.7245.*



The following is a synopsis of actions taken by the Village Board since the last issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved an Ordinance authorizing a Class A special use for a medical office located in the 740 Waukegan Road building in the Shops at Deerfield Square
- Approved a Resolution authorizing purchase of one Ford F-150 all-electric pickup truck
- Approved a Resolution authorizing award of contract for 2022 street light system upgrades
- Approved an Ordinance amending the Walgreens Planned Unit Development to allow a building addition to the 100 Wilmot Road Building and necessary site changes at the Walgreens Corporate Campus
- Approved an Ordinance approving the 2022 Zoning Map
- Approved a Resolution approving the preliminary development plan for Heritage Woods at 1101 and 1121 Lake Cook Road
- Approved a Resolution extending the final development plan for REVA Development in the Deerbrook Mall Planned Unit Development
- Approved a Resolution extending the final development plan for 8 Parkway North
- Approved a Resolution to award water meter head replacement contract
- Approved a Resolution to purchase water meter equipment
- Approved a Resolution to appoint special counsel regarding emergency water main connection
- Approved a Resolution authorizing an intergovernmental agreement by and between the Village of Deerfield and the Lake County Board of Health to provide supplemental animal care and control services
- Approved an Ordinance amending and revising the annual budget of the Village of Deerfield for the fiscal year beginning January 1, 2022, and ending December 31, 2022
- Approved an Ordinance amending Chapter 21 Article 3 regarding Plants and Weeds Maintenance
- Approved a Resolution to award contract for 2022 Street Rehabilitation Project
- Approved a Resolution to award contract for 2022 native vegetation maintenance and restoration
- Approved a Bio-Solids Removal Contract for 2022 Fiscal Year
- Approved an Ordinance amending sections 2-156 and 2-158 of the Municipal Code to eliminate the Village Center Commission and change the composition of other special purpose boards and commissions
- Approved an Ordinance to a special use to add six pickleball courts in Shepard Park at 440 Grove Place (Deerfield Park District)
- Approved an Ordinance Authorization an Amendment to a Commercial Planned Unit Development to redevelop the 728 Waukegan Road (Barnes and Noble) Space at the Shops at Deerfield Square

## PROCLAMATIONS AND HONORS

- Proclamation recognizing Arbor Day
- Proclamation recognizing Telecommunicator Week
- Proclamation recognizing Education and Sharing Day

# COMMUNITY CALENDAR



### DEERFIELD PARK DISTRICT

For more information or to register for Park District programs, call 847.945.0650, or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

Apply online NOW for Summer Jobs including Sports Camp Counselors, Swim Instructors, Parks Maintenance, Fitness Floor Attendant, Pool Cashiers and Food & Beverage Service at the Golf Course at [deerfieldparks.org/jobs](http://deerfieldparks.org/jobs)

Our Summer Program Guide is available online only. Visit [deerfieldparks.org](http://deerfieldparks.org) to view the online brochure full of classes and events.

Summer Concerts return to Floral Park on Sunday nights beginning June 19. Visit our calendar to check out the bands and our new special events including Woofstock at Jaycee Park in July! [deerfieldparks.org/events](http://deerfieldparks.org/events)

Pool passes are on sale now. Take advantage of our EARLY Bird rate through May 27.

Re-Use-A-Rama is returning to the Sachs Recreation Center on June 11 from 11 a.m. – 1 p.m. Visit [deerfieldparks.org/events](http://deerfieldparks.org/events) for a full list of accepted items!

Remaining permanent tee times for the 2022 season at Deerfield Golf Club are available at [deerfieldgolf.org](http://deerfieldgolf.org)

For more information or to register for Park District programs, call 847.945.0650 or visit [deerfieldparks.org](http://deerfieldparks.org)

### DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Program descriptions and advance registration at [deerfieldlibrary.org](http://deerfieldlibrary.org), click on "Programs" at the top. Questions? Email [reference@deerfieldlibrary.org](mailto:reference@deerfieldlibrary.org)

Coding for Game Design  
May 18, 4-5 p.m. Grades 6-12  
Learn how to code using Unity. No coding experience required.

Waking Up Your Bike for Summer  
May 19, 6:30-7:30 p.m.  
We will cover basic bicycle maintenance and repairs.

All Ages BINGO!  
May 24, 6:30-7:30 p.m.  
Bring a blanket and join us at the Jewett Park Pavilion.

Encanto Sing-along  
June 7, 10 a.m., All Ages  
Watch and sing along to Encanto!

Crafternoon: Pride Edition  
June 17, 3:30-4:45 p.m., Students entering Grades 3-8  
Celebrate Pride month featuring crafts

that celebrate LGBTQ+ identities.

PLACE Programs: Community for Everyone  
June 25, 6:30-7:30 p.m.  
PLACE welcomes adults with intellectual and developmental disabilities and their parents and caregivers. Join us for an evening of reading, conversation, and fun. To register contact Vicki Karlovsky, [vkarlovsy@deerfieldlibrary.org](mailto:vkarlovsy@deerfieldlibrary.org)

Transgender 101  
June 28, 7-8 p.m.  
Learn about key concepts and terminology related to transgender identity, and gain tools for being a supportive ally. Program is family-friendly and suitable for all ages.

For more information and a full listing of events, please visit [www.deerfieldlibrary.org](http://www.deerfieldlibrary.org)



## FARMERS MARKET

The Village and the Farmers Market Committee are looking forward to opening day of the 28th consecutive Deerfield Farmers Market season! Come join us at our new permanent location on Park Avenue between Jewett Park Drive and Hazel Avenue every Saturday morning, June 11 through October 15, from 7 a.m. to 12:30 p.m. With a bonus market date on the third Saturday in October, this is our longest market season to date. We have a lot of fun activities, entertainment and events planned to make this our best season yet!

Excitingly, the market will once again be focused on the promise of “food, friends and fun” with the return of many beloved market activities this season. This market promise will be delivered alongside our continued goal of presenting a market that is dedicated to providing fresh, locally grown and prepared food in a safe, open-air shopping experience.

This season, patrons will be able to enjoy many traditional market activities tailored to fit into our new market environment. Returning market activities will include live musical performances, kids’ activities, civic group participation, and special events. Some of these activities were present at the market in a reduced capacity last season, but will be returning to a full schedule this season.

Our Farmers Market Committee is currently busy planning and setting this schedule. The 2022 Farmers Market Events Calendar will be available on the Village’s website prior to the start of the season.

Please note that to ensure maximum safety, 2022 market rules will require:

- Social distancing measures to be in place
- A one-way market flow
- Vendors to be spaced out
- Availability of hand sanitization stations
- No bikes inside the market
- Dogs to be leashed on a 6-foot lead or less

The Village will continue to monitor existing guidelines from the CDC and make changes as necessary.

We are excited to celebrate this season with our dedicated market vendors and patrons and welcome any newcomers interested in joining us! We hope to see you at the market on Saturday mornings.

*For more information, visit [deerfield.il.us/Farmers-Market](http://deerfield.il.us/Farmers-Market)*

## 10 TIPS TO REDUCE MOSQUITOES

The South Lake Mosquito Abatement District offers the following tips to defend yourself from mosquitoes and the West Nile Virus.

Every week:

- Tip free-standing containers such as flowerpots, watering cans and buckets.
- Change the water and clean bird baths.
- Empty water that collects in folds of tarps
- Position corrugated drain pipes to ensure drainage or dump out water.

As necessary:

- Clean leaves and debris from gutters.
- Store or recycle old tires.
- Clear debris to allow water to flow freely from drainage ditches and culverts.
- Filter or aerate ornamental ponds using a circulation pump, or stock it with fish.
- Drain or fill-in areas of your yard that remain wet for more than a week.
- Check windows and screens for holes.

*For more information, visit [www.slmad.org](http://www.slmad.org)*

## TEENCONNECT

Deerfield’s TeenConnect program aims to connect teens who are able to do outside yard work, including lawn mowing, with Deerfield residents who need the service.

The TeenConnect list will provide contact information for Deerfield teens including

the name and phone number of the teen, days of availability, type of work they are willing to do and their expected rate of pay.

*For more information or to sign up, visit [www.deerfield.il.us](http://www.deerfield.il.us) or call the Village Manager’s Office at 847.719.7400.*

## VILLAGE VEHICLE STICKER REGISTRATION BEGINNING MID-MAY

Applications for 2022 vehicle stickers will be mailed in mid-May. Stickers must be displayed on all vehicles registered or garaged in Deerfield by July 1.

Stickers for passenger vehicles cost \$30 if purchased by June 30. After June 30, a 50 percent late penalty is assessed. If you do not receive your application, you still need to have your stickers by July 1.

Additional applications are available online or at Village Hall.

The Village offers an online payment system for vehicle stickers. Visit [www.deerfield.il.us](http://www.deerfield.il.us) and click the “Pay Online” button on the website’s homepage. There is no additional charge for online payment.

Additional vehicle sticker purchasing options include in-person at Village Hall, returning the renewal application by mail, or using the payment drop box located in the median just south of Village Hall on Jewett Park Drive.

This year’s vehicle sticker design features a “shop local” theme. The Village partnered with the DBR Chamber of Commerce to create this design in consideration of the economic impact that the pandemic has had on local businesses over the past two years.

Remember, the deadline to display a new 2022 sticker is July 1.

*For more information, contact the Finance Department at 847.945.5000 or visit [www.deerfield.il.us](http://www.deerfield.il.us)*



## DEERFIELD FLOOD INFORMATION

Special Flood Hazard Areas (100-year floodplain) in the Village of Deerfield are located near the Middle Fork and West Fork of the North Branch of the Chicago River. The eastern portion of Deerfield is in the Middle Fork watershed, while the western part of town is in the West Fork watershed. For a detailed map visit the Village of Deerfield website [www.deerfield.il.us](http://www.deerfield.il.us) under maps and information.

Information on whether your property is in the 100-year floodplain can be obtained by visiting the Engineering Department and having a staff member help you.

Contact the Engineering Department at 847.317.2490 for further assistance.

## FLOOD SAFETY

The following common-sense guidelines can help protect you from the dangers of flooding:

- Do not drive through a flooded area. More people drown in cars than anywhere else. Do not drive around barriers.
- Do not walk through flowing water. Currents can be deceptive. Six inches of water can knock you off your feet.

## FLOOD RECOMMENDATIONS

- Stay away from power lines and electrical wires. If your house is about to be flooded, turn off the power at the service box. Electrical current can travel through water. Electrocution is the second leading cause of death during floods.
- Be alert for gas leaks. Turn off the gas to your house before it floods. If you smell gas, report it to a Village official or your gas company. Do not use candles, lanterns or open flames if you smell gas or are unsure whether your gas has been shut off.
- Keep children away from the flood waters, ditches, culverts and storm drains. Flood waters can carry items that have dislodged themselves.
- Clean everything that has been wet.

Flood water will be contaminated with sewage and other chemicals that pose severe health threats.

- Look out for animals, especially snakes. Small animals flooded out of their homes may seek shelter in yours.
- Do not use gas engines, such as generators, or charcoal fires indoors during power outages. Carbon monoxide exhaust can pose serious health hazards.

More detailed information regarding flood-related issues in Deerfield is available from:

- [FEMA.gov](http://FEMA.gov)
- Village of Deerfield Engineering Department:  
847.317.2490  
465 Elm Street  
Deerfield, IL 60015
- Deerfield Public Library:  
847.945.3311  
920 Waukegan Road  
Deerfield, IL 60015

## DEERFIELD AREA HISTORICAL SOCIETY

The Deerfield Historic Village will be open for tours Sundays 2 p.m. to 4 p.m., June thru September.

The site, located at the southwest corner of Kipling & Deerfield Roads, includes the Caspar Ott log cabin (the oldest house in Lake County), the little red school house, the carriage house, and the Luther and Sack homes - take a step back in time!

## FALL FESTIVAL

Join us Sunday Sept. 11, 2022, noon to 4 p.m. at the Deerfield Historic Village. Enjoy an afternoon with fun for the whole family - activities, exhibits, crafts, tours of historic buildings - step into Deerfield's past.

The Historical Society is looking for local adult traditional crafters, who would like to join the DAHS Fall Fest. Show off your talent - knitting, weaving, hooking, wood-working, etc. Demonstrate your craft (if possible) and sell your wares. If interested, email [deerfieldhistory@gmail.com](mailto:deerfieldhistory@gmail.com) for an application.

## VOLUNTEERS WELCOME

The Deerfield Area Historical Society survives because of its volunteers. Please consider joining us. If you have an interest in volunteering for events, helping with the website, corporate fundraising, gardening, giving tours, etc., please email us at: [deerfieldhistory@gmail.com](mailto:deerfieldhistory@gmail.com) 🐾

## DEERFIELD ROTARY CLUB CELEBRATES 90 YEARS

The Deerfield Rotary Club celebrated their 90th Anniversary on Wednesday, May 4, at the Marriott Suites Deerfield.

The object of Rotary is to encourage and foster the ideal of service. The Deerfield Rotary Club has supported and spearheaded many community initiatives including Deerfield's first paramedic ambulance, Family Days SK Race, and defibrillators in Deerfield schools.

Deerfield Rotary members have donated over \$300,000 to the Rotary Foundation for World Polio Eradication and shelter boxes for disaster areas around the world.

*The Deerfield Rotary Club meets every Thursday at Italian Kitchen, 648 Deerfield Road at noon.* 🐾

## FOOD TRUCK THURSDAYS

Join us this summer for Food Truck Thursdays at the Deerfield Road commuter parking lot (former Farmers Market lot) one Thursday per month.

The Village will host food trucks and local vendors from 4:30 to 8 p.m. on June 23, July 21 and August 18. Live music and kids' activities will run from 5 p.m. to 7 p.m.

The food vendors and entertainment will rotate month to month, so be sure to come back and check it out.

*For more information, contact Assistant to the Village Manager Justin Keenan at 847.719.7462 or [jkeenan@deerfield.il.us](mailto:jkeenan@deerfield.il.us).*



D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

VILLAGE OF DEERFIELD

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VILLAGENOTES



Deerfield  
**FAMILY DAYS**  
It's a blast!

SAVE THE DATE!

DEERFIELD FAMILY DAYS 2022  
JULY 3 & 4

**JULY 3- BRICKYARDS PARK:**

The Park will open at 5 p.m.  
Fireworks, Food Vendors, Games & Live Entertainment!

**JULY 4 - JEWETT PARK:**

All-day (8 a.m. - 3 p.m.)

Activities include: Pancake Breakfast, Dog Show, Arts and Crafts Fair, Parade, 5K Run, Bike Parade, Flower Show, Petting Zoo, Games & Rides!

**DONATIONS:** Family Days is funded by sponsors and donations from local residents and the Village. Please consider making a donation to Family Days at Village Hall or at [www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays). Donations help pay for the July 3 Fireworks and the July 4 Parade.

**PARADE ROUTE:** Please note that the Family Days Parade will start at Deerspring Pool, go west on Deerfield Road, north on Waukegan Road, turn west onto Hazel and end on Park Avenue.

**5K ROTARY RACE:** Register for the race at [www.deerfield.il.us](http://www.deerfield.il.us).

**QUESTIONS?:** Contact Justin Keenan, Assistant to the Village Manager, at 847.719.7462. ☎

Village Officials:

Mayor:

Daniel C. Shapiro - 847.514.3754  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

Trustees:

Robert "Bob" L. Benton - 847.945.1570  
Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)  
Larry Berg - 847.612.0777  
Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)  
Elaine Jacoby - 847.644.3354  
E-mail: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)  
Rebekah Metts-Childers - 847.899.1449  
Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)  
Mary M. Oppenheim - 847.948.9423  
Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)  
William S. Seiden - 847.945.2442  
Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

Village Manager:

Kent S. Street - 847.719.7400  
Email: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

Village Hall/Police Department

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000 (Switchboard and Finance)  
847.719.7484 (Community Development)  
847.945.8636 (Police non-emergency)

Public Works and Engineering

465 Elm Street  
847.317.7245 (Public Works)  
847.317.2490 (Engineering)

# VILLAGE OF DEERFIELD

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000

Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

## MEETING SCHEDULE

Meeting times/dates subject to change  
For a complete list of meetings, please visit  
[www.deerfield.il.us](http://www.deerfield.il.us)

### July

#### **Board of Trustees**

July 5 & 18, 7:30 p.m.

#### **Community Relations Commission**

July 12, 6:30 p.m.

#### **Plan Commission**

July 14 & 28, 7:30 p.m.

#### **Sustainability Commission**

July 21, 7:00 p.m.

#### **Appearance Review Commission**

July 25, 7:30 p.m.

### August

#### **Board of Trustees**

August 1 & 15, 7:30 p.m.

#### **Plan Commission**

August 11 & 25, 7:30 p.m.

#### **Appearance Review Commission**

August 22, 7:30 p.m.

Have a happy and safe Fourth of July!

# D-TALES

Your Municipal News Source

## VILLAGE BOARD APPROVES CARBON ACTION REPORT TO REDUCE GREENHOUSE GASSES

On June 6, the Village Board approved a Climate Action Report from the Greenhouse Gas Reduction Ad Hoc Working Group to reduce emissions by 45% by 2030 and become carbon neutral by 2050.

The creation of the working group stemmed from a February 18, 2020, Village Board proclamation urging local governments and municipalities to lead the global effort to fight climate change.

The Climate Action Report is the output of several months of analysis by the Working Group and is intended to serve as a guiding document that can inform implementation efforts and future climate/adaptation/resiliency plans for longer-term implementation. The report establishes a greenhouse gas emissions baseline and sets high-level objectives to obtain the Village Board's established greenhouse gas mitigation goals.

The Village Board adopted three specific objectives recommended by the Working Group:

- Convert 100% of electricity to renewable sources by 2030
- Reduce transportation emissions by 55% by 2030
- Reduce waste emissions by 66% by 2030

Implementing strategies and tactics that achieve the three objectives noted above will result in a 45% reduction of GHG emissions by 2030, as compared to the 2017 baseline year. The report organizes the proposed GHG mitigation efforts into four focus areas – energy, transportation, waste and ecosystem/food/goods and services. Along with the discussion of each focus area is an identification of the general resources

*Climate Report Continued on Page 2:*

## DEERFIELD FAMILY DAYS BACK FOR ANOTHER BLAST

Deerfield Family Days will kick off another two days of fun July 3rd and 4th. Join family and friends for a holiday filled with fun and entertainment!

The spectacular fireworks show will be held Sunday, July 3rd, at Brickyards Park with live entertainment and kids' activities. The gates will open at 5 p.m. and food and drink concessions will be available for purchase.

On Monday, July 4th, head on over to the festivities at Jewett Park including breakfast in the park, dog show, the flower show and a variety of games. The parade starts at noon on Monday and will travel from Deerspring Pool, west to Waukegan Road, north to Hazel and end at Jewett Park.

This year's Parade Marshals are Mayor Emeritus Harriet Rosenthal and the League of Women Voters of Deerfield/Lincolnshire. Rosenthal served 12 years as Mayor and 24 years as a Village Trustee. The League of Women Voters was founded in Chicago on February 14, 1920. Since then, the League has worked to register voters, sponsor candidate forums, provide non-partisan election materials about candidates, and study issues on the local, state and national levels in order to create a better-informed electorate.

See the full schedule on Page 10 or visit [www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### CHECK IT OUT!

#### **Page 2:**

- Property Taxes Explained

#### **Page 3:**

- Fireworks Safety

#### **Page 5:**

- Water Quality Report





Climate Report Continued from Page 1:



that are needed to accompany the various strategies. You can read the full report at [www.deerfield.il.us](http://www.deerfield.il.us).

Residents can take actions now to help the Village reach these goals. For the energy goals, this includes switching to renewable energy sources, such as reducing energy usage, participating in the Community Solar Program at [www.northshorecommunitysolar.com](http://www.northshorecommunitysolar.com) and upgrading to energy efficient appliances. To reduce transportation emissions, residents can walk, bike or take public transportation, consider purchasing an electric vehicle and reduce vehicle idling. For the waste reduction goals, residents can improve their recycling literacy and make use of the Village's no-cost compost program at [deerfield.il.us/785/Compost-Program](http://deerfield.il.us/785/Compost-Program).

“Municipalities have an unparalleled opportunity to make changes that can transform local economies and positively impact peoples’ lives both locally, and even globally,” said Mayor Daniel C. Shapiro. “It is time for us to roll up our sleeves and get to work to preserve a future we can all be proud to pass along to our children and grandchildren.”

Members of the Greenhouse Gas Reduction Ad Hoc Working Group include Trustee Mary Oppenheim (Chairperson), Trustee Elaine Jacoby, Sustainability Commission Chairperson Donald Anderson, Sustainability Commissioner William Mertes, Go Green Deerfield Chairperson Art Wilde, Go Green Deerfield Member Camilla Dadey, and Business Community Representative Victoria Street, Executive Director of the DBR Chamber of Commerce.

The Mayor and Village Board thank all of the members of the Working Group for their efforts. 

## YOUR PROPERTY TAX BILL EXPLAINED

Property taxes are used by multiple units of local government for revenue. Every person and business in Illinois is affected by property taxes — whether by paying the tax or receiving services or benefits that are paid for by property taxes.

Anyone who attends public school, drives on roads or streets, uses the local library, has police protection or has fire protection receives services provided in part by property taxes.

The Village of Deerfield is one of more than 10 units of local government that comprise the typical resident’s overall property tax bill including the county, fire protection district, township, park district, school districts and others. **For property taxes due in 2022, the Village accounted for approximately 6.56% of the overall property tax bill.**

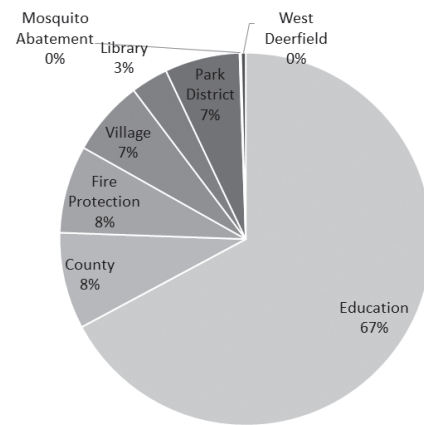
As separate, independent units of government, the Village has no control over the other components of a resident’s property tax bill.

One common question regarding property taxes concerns is how property taxes are calculated. The calculation of property taxes is a multistep process that involves four distinct areas:

### ASSESSMENT

The assessment determines the fair market value of the property. From the assessment, the township assessor determines the equalized assessed value (EAV). The EAV should be approximately 33.33% of the total market value in a given area. In order to ensure that the equalized assessed value of all properties is equal to 33.33% of the market value, the Illinois Department of Revenue may apply an equalization factor to the EAV as determined by the assessor.

Deerfield Property Tax Allocation



### LEVY

The levy is the official request from a unit of local government for the funds it determines it requires from the property tax.

### EXTENSION

The extension is a determination of the property tax rate. Once the County has received all levy requests, it determines the rate that must be applied in order for the unit of local government to receive its requested levy.

### COLLECTION

Once the rates have been applied, property tax bills are sent to each property owner. The taxes are remitted to the County Clerk or Treasurer and dispersed to the various units of local government who are listed on the property tax bill.

There are several factors that could make your tax bill increase: an increase in the property equalized assessed value, an increase in tax rates, which come from the individual taxing districts, and new referendums approved by voters. Please pay close attention to your total exemptions, these exemptions could lower your current tax bill. Call your Township Assessor to verify that you are receiving the exemptions for which you qualify. They can also answer any questions of your assessed valuation.

For more information about property taxes, visit the Lake County Treasurer's FAQ at [www.lakecountyil.gov/FAQ.aspx?TID=19](http://www.lakecountyil.gov/FAQ.aspx?TID=19).





## FIREWORKS NOT ALLOWED

The Deerfield Police Department reminds residents that fireworks are dangerous and unpredictable by nature. The discharging of fireworks including firecrackers, bottle rockets, and Roman candles is a violation of state law and Village ordinances. Novelty fireworks, such as snakes, sparklers, and party-poppers are not regulated by the state. While sparklers are legal, they are extremely dangerous because they burn at temperatures of up to 1,200 degrees Fahrenheit and remain extremely hot long after the sparks have ceased.

Each July 4th, thousands of people nationwide, most often children and teens, are injured while using consumer fireworks. The best way to protect your family is to not use any fireworks at home. Many professional displays are scheduled on July 3rd and 4th for the enjoyment of all.

Please only call 911 to report illegal fireworks if you can give an exact location and preferably a description of those involved.

Moreover, there are many people, including our veterans, that are alarmed by unexpected fireworks – especially the ones they don't know are coming. Unexpected fireworks can trigger a PTSD reaction. Please be compassionate and safe and do not use illegal fireworks. ~

## THE 100 DEADLIEST DAYS FOR TEEN DRIVERS

For years, motor vehicle crashes were the leading cause of injury-related deaths for youths, although it was recently displaced by deaths from firearm-related injuries. Even so, with Memorial Day Weekend behind us, we are now in the 100 Deadliest Days (the days from Memorial Day to Labor Day) for teen drivers.

According to AAA, new teen drivers ages 16-17 are three times as likely as adults to be involved in a deadly crash, and there are more daily deaths in crashes involving teen

drivers during the summer months than the rest of the year because teens tend to have more unstructured time behind the wheel.

Parents can help their teen driver stay safe by laying down ground rules before handing over the car keys. Talk to your teen about the dangers and consequences of driving too fast, impaired or distracted. You can also be a good role model by practicing safe driving habits. *For more information visit <https://www.nhtsa.gov/road-safety/teen-driving>* ~

## KEEP YOUR DOGS COOL THIS SUMMER

Every year, dogs suffer and die when their guardians make the mistake of leaving them in a parked car – even for “just a minute” – while they run an errand.

Parked cars are deathtraps for dogs; on a 78-degree day, the temperature inside a parked car can soar to between 100 and 120 degrees in just minutes, and on a 90-degree day, the interior temperature can reach as high as 160 degrees in less than 10 minutes.

Animals can sustain brain damage or die from heatstroke in just 15 minutes. Beating the heat is challenging for dogs because they can only cool themselves by panting and by sweating through their paw pads.

If you see a dog left alone in a hot car, take down the car's color, model, make and license plate number and call 9-1-1. If possible, have someone keep an eye on the dog until help arrives. ~

## OVERNIGHT PARKING

By Village Ordinance, vehicles are not allowed to park on the street between the hours of 2 a.m. and 6 a.m. This ordinance helps to reduce crime and improve the overall safety and appearance of our community.

If you require an exception, call the Deerfield Police non-emergency number, 847.945.8636, before 2 a.m. and be prepared to provide the license plates of the

affected vehicles. ~

## 2022 COP ON A ROOFTOP

On Friday, August 19, Deerfield Police Officers will spend 5 a.m. to noon on the roof of our local Dunkin Donuts, 499 Lake Cook Road, not on surveillance, but rather raising awareness and funds for Special Olympics Illinois (SOIL).

This year marks the 20th anniversary of this partnership where, to date, more than \$6.7 million has been raised statewide. This is one of the many events the Police Department participates in annually as part of their commitment to the Law Enforcement Torch Run benefitting SOIL.

Consider a coffee run for your family or office on August 19. In return, you will not only be getting a great cup of coffee, you will also receive a coupon for a free donut and the satisfaction of knowing you have improved the life of an athlete.

The Police Department will also be selling SOIL merchandise and raffle tickets for a Harley Davidson and camper. We are hoping the Chicago Bears “Staley Da Bear” will join us again this year and help us meet our goal of raising \$3,000!

*For more information, please contact: Communications Director Mary Anne Glowacz at [mglowacz@deerfield.il.us](mailto:mglowacz@deerfield.il.us) or Desirae Kuceba at [dkuceba@deerfield.il.us](mailto:dkuceba@deerfield.il.us).*

## BIKE SAFETY BOOTH AT FARMERS MARKET

Join the Deerfield Police Department for a bike and pedestrian safety booth at the Deerfield Farmers Market on July 30 and August 13.

The Bike Safety Event will include bike officers and bike safety advocates who will talk about bike safety, bike maintenance and bike laws.

*For more information, e-mail Commander Oliver Cachola at [ocachola@deerfield.il.us](mailto:ocachola@deerfield.il.us)*



# PUBLICWORKS

## 2022 STREET REHABILITATION PROJECT UPDATE

The 2022 Street Rehabilitation Project was awarded in April and work began in early May. This \$3.3 million project consists of the full reconstruction or the resurfacing of selected streets, as well as the installation of new water main along Price Lane and Rosewood Avenue.

The following roads are associated with this year's project:

- Charing Cross from Pine Street to Indian Hill Road
- Gordon Terrace from Willow Avenue to Pine Street
- Kenmore Avenue from Hackberry Road to the south limits
- Montgomery Road from Wilmot Road to the west limits
- Plum Tree Road from Pine Street to Gordon Terrace
- Price Lane from Osterman Avenue to the north limits
- Rosewood Avenue from Birchwood to Kenmore Avenue
- Poet's Corner Subdivision (Longfellow Avenue, Byron Court, Hermitage Drive, and Whittier Avenue).

Many of the above locations are anticipated to be completed by early August and the remaining locations should be completed by the middle of September. ~

## FLOOD INFORMATION

### NATURAL & BENEFICIAL FUNCTIONS

Floodplains play a valuable role in providing natural and beneficial functions to Deerfield and the surrounding area to both human and natural systems. They provide aesthetic pleasure as well as improving the environment. Parts of both the Middle and West Fork of the North Branch of the Chicago River floodplain help filter chemical run-off so that these areas can maintain bio-diversity and ecosystem sustainability. Both floodplains

also contain historic and archeological sites that provide opportunity for education and study. They enhance waterfowl, fish and other wildlife habitats and provide feeding/breeding grounds. Lastly, both floodplains provide open space and natural erosion control to reduce further flooding damage.

### DRAINAGE SYSTEM MAINTENANCE

As simple as it may sound, keeping smaller ditches and streams free of debris can dramatically improve the run-off capacity of low-lying areas, as well as greatly reduce incidental blockage that significantly contributes to flooding. Drainage districts are charged with this responsibility.

Please note that it is illegal to dump materials into a required waterway and violators may be fined. If you see someone in the act of dumping or see debris in one of our watercourses, please contact the Village Engineering Department at 847.317.2490.

### FLOOD WARNING SYSTEM

Many times, flooding along the West and Middle Forks of the North Branch of the Chicago River within Deerfield can be predicted days in advance, giving ample warning for preparation and evacuation. In the event of a flash flood due to a large rain event, you may be the first to notice the oncoming situation, so please notify the Village Police Department/Fire District. You can also tune your radio to WGN-720 AM and WBBM-780 AM for local and national weather updates. You will also see regular interruption on local radio and television stations advising you of the situation.

### ADDITIONAL INFORMATION

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available

as well as other flood-related information. Contact the Engineering Department with questions at 847.317.2490.

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov](https://www.fema.gov) website
- Engineering Department, 465 Elm Street 847-317-2490
- Flood FAQs page on the Village's website, [www.deerfield.il.us](http://www.deerfield.il.us)
- Deerfield Public Library, 890 Waukegan Road 847.945.3311
- Union Drainage District #1 (West Fork) 847.945.0600
- Union Drainage District #1 (Middle Fork) 773.481.2700
- West Skokie Drainage District 312.782.4780 ~

## SAVE THE DATE: HARVEST FEST SEPTEMBER 17

Let's celebrate! Deerfield's Harvest Fest is back September 17 with fireworks and fun community events for everyone.



- Start the day at the Deerfield Farmers Market between 7 a.m. and 12:30 p.m. with special kids' activities and the popular touch-a-truck.
- Gates open at Shepard Park at 4:30 p.m. for events including live concerts from Maggie Speaks and Rosie and the Rivets, food, a beer tent, carnival games and fireworks.

Harvest Fest is hosted by the Village of Deerfield and the DBR Chamber of Commerce. Watch for an event mailer with more details and a list of sponsors in early September. ~




VILLAGE OF DEERFIELD

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

*This information is being published in accordance with the 1996 Safe Drinking Water Act, as directed by the United States Environmental Protection Agency.*

## INTRODUCTION TO WATER QUALITY REPORT

We are once again pleased and proud to present to you the Annual Water Quality Report. This Consumer Confidence Report (CCR) is designed to inform you about the water we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water. The Village is committed to ensuring the quality and delivery of your water. We hope you find this information useful. If you have any questions about this report or water quality, contact Tyler Dickinson, Responsible Operator In Charge, at 847.719.7463 or [tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us) or visit [www.deerfield.il.us](http://www.deerfield.il.us).

We are also pleased to report that the drinking water provided by the Village meets or exceeds all State of Illinois and United States Environmental Protection Agency (EPA) regulations and that we are not operating under any variance or exemption from the established drinking water regulations or standards. Opportunities for participation in the decision-making process that affects drinking water quality are also available at the Deerfield Village Board meetings on the first and third Mondays of every month. 

## ABOUT THE DATA

On the following pages you will find information regarding:

**Organic Carbon** – The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

**Turbidity (NTU)** – Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of water quality and the effectiveness of the filtration and disinfectants.

**Sodium** – There is no State or Federal maximum contaminant level (MCL) for sodium. Monitoring is performed to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. Those on a sodium-restricted diet should consult a physician about the level of sodium in the water.

**Lead & Copper** – The Village continues to be in compliance with regulations for lead and copper control. (See *Lead and Copper Explanation*).

**Unregulated Contaminants** – An MCL for this has not been established by either State or Federal regulations, nor has mandatory health effects language. The purpose for

monitoring this is to assist the U.S. EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

In addition to the above-mentioned tests, Deerfield continuously monitors and tests your water through our water control system as well as with weekly physical samples. These samples are submitted to the Central Lake County Joint Action Water Agency, an EPA certified laboratory, for analysis. This ensures a rapid response should there ever be a problem.

## GENERAL INFORMATION

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it can dissolve naturally occurring minerals and radioactive material and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

**Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

**Inorganic contaminants**, such as salts and metals, which can be naturally

occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.


**Pesticides and herbicides**, which may come from sources such as agriculture, urban storm water runoff and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.

**Radioactive contaminants**, which may be naturally occurring or the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection to ensure public health.

## Contaminants monitoring results

The Village of Deerfield and City of Highland Park routinely monitor for contaminants in your drinking water according to Federal and State laws. 

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

Containment (units)	EPA MCLG	EPA MCL	High-Level Found	Range of Detection	Violation	Date of Sample	Typical Source of Contamination
<b>Microbial Contaminants</b>							
Turbidity (%<0.3 NTU)*	n/a	0.3 NTU	100%	n/a	NO	2021	Soil runoff
Turbidity (1.0 NTU)* Highest measurement	n/a	1 NTU	0.30 NTU	n/a	NO	2021	Soil runoff
<b>Inorganic Contaminants</b>							
Barium (ppm)*	2	2	.019	.019-.019	NO	2021	Discharge from drilling wastes, metal refineries, erosion of natural deposits.
Fluoride (ppm)*	4	4	.752	.752-.752	NO	2021	
Sodium (ppm)*	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer/aluminum factories.
Nitrate (ppm) Measured as Nitrogen	10.0	10.0	.30	.30-.30	NO	2021	Erosion of natural deposits; Used as water softener. This contaminant is not currently regulated by the USEPA.
Coliform	0	0	0	0	NO	2021	Naturally present in environment
Fecal coliform or E. Coli. MCL: A routine sample and a repeat sample are total coliform and one is also fecal coliform or E Coli positive.							

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

<b>Disinfection / Disinfection Byproducts</b>							
Chlorine (ppm)	4	4	1.54	1.10-1.24	NO	2021	Water additive used to control microbes.
Total Haloacetic Acids [HAAS] (ppb)	n/a	60	27.6	7.8-35.3	NO	2021	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes] (ppb)	n/a	80	55.6	17.0-66.4	NO	2021	By-product of drinking water chlorination.

**Additional Unregulated Contaminants**

In an effort to ensure the safest water possible, the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants, only the ones listed below were found in your water.

Hardness Total (ppm)(as CaCo3)	n/a	n/a	140	140-140	NO	2021	Erosion of natural deposits.
Alkalinity	n/a	n/a	110	110-110	NO	2021	Erosion of natural deposits.
Total Dissolved Solids	n/a	n/a	310	310-310	NO	2021	Erosion of natural deposits.
Sulfate	n/a	n/a	23.0	23.0-23.0	NO	2021	Erosion of natural deposits.
Chloride	n/a	n/a	21.0	21.0-21.0	NO	2021	Erosion of natural deposits.
Calcium	n/a	n/a	35	35-35	NO	2021	Erosion of natural deposits.
Magnesium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.
Sodium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.


**LEAD AND COPPER - JANUARY 1 TO DECEMBER 31, 2021**

Lead MCLG	Lead Action Level (AL)	Lead 90th %-tile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th %-tile	# Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	0 ppb	0	1.3 ppm	1.3 ppm	0.19 ppm	0	Corrosion; erosion

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## LEAD AND COPPER TESTING

The IEPA lead and copper testing program began in 1992. Due to consistent low concentration levels of lead and copper, the Village has been placed on a reduced testing cycle by the IEPA and is only required to test every three years. Currently, a round of testing consists of 30 samples. Our most recent round of lead and copper testing took place in 2021 and Deerfield remains in compliance so as to continue with the IEPA-mandated reduced lead and copper testing cycle. Our next round of testing will occur in 2024.

The Village is in full compliance with all State and Federal regulations governing the control of lead and copper within public drinking water supplies. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When water has been sitting for several hours, minimize potential for lead exposure by flushing the tap for 30 seconds to 2 minutes before using water for drinking or cooking. Those concerned about lead in water, may wish to have their water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800.426.4791 or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead). 

## DEFINITIONS

In the previous tables you will find many terms and abbreviations with which you may not be familiar. To help you better understand these terms, we have provided the following definitions:

**ppm** - Parts per million or milligrams per liter (mg/L) – or one ounce per 7,350 gallons of water.

**ppb** - Parts per billion or micrograms per liter (mcg/L) – or one ounce per 7,350,000 gallons of water.

**ppt** - Parts per trillion or nanograms per liter (nanograms/L) – or one ounce per 7,350,000,000 gallons of water.

**NTU - Nephelometric Turbidity Unit**; used to measure the cloudiness in drinking water.

**% < 0.3 NTU** - Percent samples less than 0.3 NTU.

**Mrem/yr** - Millirems per year, used to measure radiation absorbed by the body.

**pCi/l** - Picocuries per liter; used to measure radioactivity.

**# pos/mo** - Number of positives per month.

**AL - Action Level** or the concentration of a contaminant that, if exceeded, triggers treatment or other requirements which a water system must follow.

**TT - Treatment Technique** or a required process intended to reduce the level of a contaminant in drinking water.

**MCL - Maximum Contaminant Level** or the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible, using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal** or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**n/a** - Not applicable. 

## LAKE MICHIGAN: OUR WATER SOURCE

The Village of Deerfield purchases all of its water from the City of Highland Park. Highland Park draws its raw water from a 54-inch intake pipe located a mile off shore in Lake Michigan at a depth of approximately 30 feet. In addition, there are two smaller pipes used as secondary intakes, which are 16 and 20 inches in diameter.

Lake Michigan, like the other Great Lakes, was formed as glaciers retreated north during the last ice age. Lake Michigan is the largest lake completely within the United States at 118 miles wide and 307 miles long. Lake Michigan averages 279 feet in depth and reaches 925 feet at its deepest point. The lake's drainage basin, which is approximately twice as large as its 22,300 square miles of surface water, includes portions of Illinois, Indiana, Michigan and Wisconsin. The Great Lakes are among the world's most valuable sources of fresh surface water. Almost half of all the liquid fresh water in the world is found in the Great Lakes. Most of the world's surface fresh water is locked away in the ice caps around the North and South Poles, which makes us appreciate the Great Lakes that much more.

All sources of drinking water, including Lake Michigan, are subject to potential contamination by items that are naturally occurring or man made. Those elements may be microbes, organic or inorganic chemicals or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants.

The presence of contaminants does not necessarily indicate that the water poses a health risk. Susceptibility is defined as the likelihood for the source water of a public water system to be contaminated at concentrations that would pose a concern.

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## OUR WATER SOURCE CONTINUED

The Illinois EPA (IEPA) considers all surface sources of the community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection, only dilution, hence the reason for mandatory treatment for all surface water supplies in Illinois.

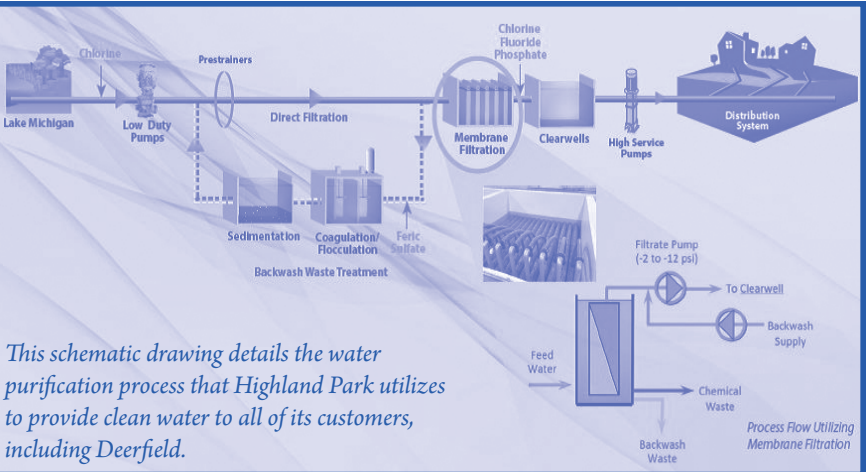
As previously mentioned, Highland Park has three intake lines. The 54-inch intake pipe is normally used alone with the two smaller intakes used to augment high demand or during maintenance of the 54-inch pipe. As these are closer to the shore, they have a greater susceptibility to be influenced by potential sources of contamination. However, regardless of which lines are used, the finished water leaving the Highland Park Water Plant always meets or exceeds all IEPA and EPA regulations.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800.426.4791. To access the Highland Park Water Assessment Summary, visit: [www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show\\_facility\\_detail&facility\\_number=0970500&cws=y](http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show_facility_detail&facility_number=0970500&cws=y).

## TOP 10 WAYS TO CONSERVE WATER

Conserving water is easy if you follow these helpful tips:

1. Test for a leaking toilet by adding food coloring to the tank. If any color appears in the bowl after 30 minutes, your toilet is leaking. Leaking toilets can waste thousands of gallons of water. Flush as soon as the test is done, since food coloring may stain the tank.



*This schematic drawing details the water purification process that Highland Park utilizes to provide clean water to all of its customers, including Deerfield.*

2. Use water-conserving plumbing fixtures and water-flow restrictors on sinks and showers. Bathroom facilities typically constitute 75% of the water used in homes.
3. Only run your dishwasher and washing machine when you have a full load.
4. Take a short shower instead of a bath. A bath uses 30 to 50 gallons of water. Showers use about a gallon of water per minute.
5. Store drinking water in the refrigerator instead of letting the tap run when you want a glass of cool water.
6. Never put water down the drain when there may be another use for it such as watering a plant or garden, or doing housework.
7. Be conscientious of the amount of water you use when running your garbage disposal. Have your food scraps cut into small pieces so they can be disposed of quickly, minimizing the amount of time you need to run the faucet. You can also compost instead.
8. For landscaping and gardens, choose plants that are native to the area in which you live or plants that are drought resistant. Native plants are accustomed to the natural amount of precipitation that occurs in the area where they are found and normally

do not require any additional watering. Group plants together based on similar watering needs.

9. Water your lawn and/or garden during the coolest part of the day to minimize evaporation. Apply water slowly, exactly where it is needed. Position sprinklers so that water lands on the lawn and shrubs, not on paved areas. Keep in mind that sprinkling restrictions are in place from May 15 - September 15.

10. Use a bucket of water and a spray head on the hose to wash your car. A running hose can waste hundreds of gallons of water in the time it takes to wash a car. ♻️

## SPECIAL INFORMATION

Some people may be more vulnerable to contaminants in drinking water. Immunocompromised individuals, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 800.426.4791. ♻️



The following is a synopsis of actions taken by the Village Board since the January/February issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved a Resolution to award the Village Hall monopole painting contract
- Approved a Resolution to award the monopole radio equipment contract
- Approved an Ordinance authorizing an amendment to the Deerfield Park Plaza Planned Unit Development for site changes and an amendment to the Goddard Special Use to permit the expansion of the Goddard School into the adjacent 471 Lake Cook Road tenant space in Deerfield Park Plaza Shopping Center
- Approved a Resolution to award chemical phosphorus removal project
- Approved the report and recommendation of the Greenhouse Gas Reduction Working Group regarding a Climate Action Report
- Approved a Resolution approving an intergovernmental agreement by and between the Village of Deerfield and the West Deerfield Township Assessor for access to Village permit and plan tracking system
- Approved a Resolution authorizing a grant to the Lake County Convention and Visitor Bureau

## HONORS AND RECOGNITIONS

- Recognized Rochelle Zell Jewish High School Model U.N. Team for eighth consecutive Team Award of Distinction
- Proclaimed May Mental Health Month
- Recognized Yaokai Yang, EIU Academic Challenge - Computer Science State Champion
- Proclaimed June LGBTQ Pride Month
- Proclaimed June 19, 2022 Juneteenth
- Proclaimed Neurofibromatosis Awareness Day

# COMMUNITYCALENDAR



### DEERFIELD PARK DISTRICT

For more information or to register for Park District programs, call 847.945.0650, or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

We Weekly summer camps are still available! Check out options in our Summer Camp Guide at [deerfieldparks.org/programguide](http://deerfieldparks.org/programguide) or stop by the park district today!

Bring your furry friend to Jaycee Park on July 16 for an afternoon of dog-friendly fun at Woofstock! Enjoy games and activities, music, snacks, and more! Register at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Enjoy Summer Concerts at Floral Park from 5 – 6:30 p.m. in July and August. Join your friends and neighbors, bring a picnic dinner, chair or blanket while different artists perform each week. Dates and artist bios can be found at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Put on your Blue Suede Shoes and get ready to Shake, Rattle and Mix at the Patty Turner Center as Highwood's very own Roger That takes to the stage to perform the jukebox hits of the 50s and 60s. Advanced registrations are required. For details please call: 847-940-4010

Open Pickleball at Sachs Recreation Center for all players no matter their age or ability level. Drop-in and play on one of our seven courts. The summer Open Play schedule runs June 13-August 12. Open Play is rack format M/W/F 8 a.m.-noon \$7R/9NR/Free for SRC Members

Eat to the Beat Concerts at Jewett Park Pavilion from 11:30 a.m. – 12:15 p.m. on July 6, 13, 20 & 27. Bring a picnic lunch, listen to music and play in the park!

Deerfield Family Theater auditions for Big Fish will be held the week of August 24. Visit [deerfieldfamilytheater.com](http://deerfieldfamilytheater.com) to select an audition slot!

### DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Register in advance by phone at 847.945.3311, online at [deerfieldlibrary.org](http://deerfieldlibrary.org), or in person at 920 Waukegan Rd. Online program description notes program platform (online, in-person, or hybrid).

Memory Café  
July 6, August 3, 10-11:30 a.m.  
The Café is offered to support and connect those experiencing memory loss and their care partner.

MakerSpace Open House  
July 8, 3-4 p.m., Grades 5+  
Come learn about amazing equipment and projects!

Blues 101 with Fruteland Jackson  
July 9, 2-3:30 p.m.  
Blues music history through song, lecture, and discussion.

Professor Moptop Presents Paul McCartney  
July 19, 7-8:30 p.m.  
The Professor will share videos, songs, and stories about John and the Fab Four.

Deerfield's Got Talent!  
July 26, 7-8:30 p.m., Students entering Grades 2 and up  
Share your special talent, and just come enjoy the show. All PG talents welcome!

Craftivism 101  
July 27, 4-5 p.m., Students entering Grades 4-8  
Are you creative, and care about the world? Learn how to combine these two things with Craftivism.

PLACE Programs: Community for Everyone

July 30, August 27, 6:30-7:30 p.m.  
PLACE welcomes adults with intellectual and developmental disabilities and their parents and caregivers. Join us for an evening of reading, conversation, and fun. For more info and to register contact Vicki Karlovsky, [vkarlovsky@deerfieldlibrary.org](mailto:vkarlovsky@deerfieldlibrary.org).

Bad Guys Party  
August 4, 4-5:30 p.m., Students entering Grades 1-5  
Call all Bad Guys fans! We'll play trivia, do a craft, and be GOOD.

Jutta & the Hi-Dukes Concert  
August 20, 2-3:30 p.m.  
Experience music from many different cultures and countries, and bring your dancing shoes!.

Unconventional Photography of Chicago  
August 31, 7-8 p.m.  
Learn how to keep your photography spontaneous! Cosponsored by the Village Fine Arts Commission

For more information and a full listing of events, please visit [www.deerfieldlibrary.org](http://www.deerfieldlibrary.org).



# COMMUNITY INFO

## TOWNSHIP UPDATES PARADE COOLING CENTER

West Deerfield Township's lobby will serve as a cooling center during the July 4th parade. Stop in at 601 Deerfield Road to take a break from the heat or grab a refreshing bottle of water.

## ASSESSOR'S OFFICE

Please visit the Assessor's office weekdays between 8:30 a.m. and 4:30 p.m. to meet the new staff that is here to help you. We've been hard at work helping residents file for all the exemptions they qualify for, please stop in to make sure you're getting all the savings available.

Assessment notices for 2022 will be posted

and mailed out mid-August this year. The 30-day window to appeal your assessments begins that day, so don't delay filing once you receive your blue assessment notice. We'll be here to assist you with that too.

Contact the Assessor's Office at 847.945.3020 or [assessor@wdtassessor.org](mailto:assessor@wdtassessor.org).

## "GREEN UP" YOUR PARKWAY WITH THE 50/50 TREE PROGRAM

The Deerfield Public Works Department offers a 50/50 program that allows residents to pay 50% of the cost for a new parkway tree (plus the \$80 planting fee) while the Village pays the remaining 50%.

Your tree is guaranteed for one year and will be planted for you in the fall by the Public Works Department. Trees will be planted in the parkway only and cannot be planted on private property - this program is for residential properties only.

The application for the program is available in person or online at [www.deerfield.il.us](http://www.deerfield.il.us). After making your tree selection, fill out our Tree Order Form and return it to us with a check in the proper amount. The deadline for ordering trees is August 30.

To learn more about the program and to see which trees are available for planting, visit [www.deerfield.il.us](http://www.deerfield.il.us) or contact Public Works at 847.317.7245.

59<sup>th</sup> Annual

# DEERFIELD

## Family Days

[www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### Sunday, July 3rd Brickyards Park

5:00 p.m. Festivities Begin: Concession sales (food and soft drinks available)

5:00 p.m. to 8:00 p.m. Inflatables, Rides and Carnival Games

6:00 p.m. Entertainment by Energy Productions!

7:00 p.m. Raising of the Flag by the American Legion and singing of the National Anthem

Dusk Fireworks

### Monday, July 4th Jewett Park

8:00 a.m. Deerfield Rotary Club 5k Race: Registration from 7:15 a.m. to 7:45 a.m. Starts at Maplewood Park. Register at [www.deerfield.il.us](http://www.deerfield.il.us)

8:00 a.m. to 10:30 a.m. Breakfast in the Park by the Wild Roaster

8:00 a.m. to 3:00 p.m. Arts and Crafts Fair

8:30 a.m. to 9:00 a.m. Bike Parade: Parking lot at Rosemary and Deerfield Bike parade starts at 9:00 a.m. and bikes must be pre-decorated

8:45 a.m. to 10:00 a.m. Dog Show: BYOD (Bring Your Own Dog)

10:00 a.m. to 2:00 p.m. Sensory Friendly Play Area

10:00 a.m. to 3:00 p.m. Inflatables, Rides, Carnival Games, Concessions and Corporate Booths

11:00 a.m. to 3:00 p.m. Flower Show: New Location - Jewett Park Pavilion  
Submit flowers for judging from 8:00 a.m. to 10:00 a.m.

12:00 p.m. SPECTACULAR PARADE  
Parade Marshals: Mayor Emeritus Harriet Rosenthal and The League of Women Voters  
Parade Route: Deerspring Pool to Waukegan Road, Waukegan Road to Hazel Avenue, ending at Jewett Park

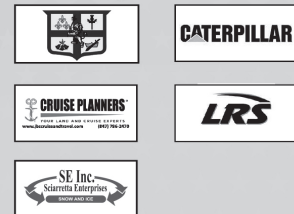
1:00 p.m. to 5:00 p.m. Free Swimming for everyone at Deerspring Pool and Mitchell Pool

*All adults and children going on rides or inflatables must have wristband-no exceptions. Wristband sales are cash only.*

### Food Vendors

- Donut Jester      My Funnel Truck
- Judy's Pizza      Nothing Bundt Cakes
- Mario's Cart      ...and more!

### Thank you to our Gold Sponsors



### Thank you to our Bronze Sponsors



CELEBRATE 59 YEARS OF FIREWORKS, FOOD AND FUN WITH FAMILY AND FRIENDS!  
Thank you to all local partners!





## LAWN IRRIGATION RPZ REGULATIONS

As a reminder, all irrigation systems are required to have a backflow prevention device called a Reduced Pressure Zone Backflow Preventer (RPZ). This must be certified annually by a licensed Cross Connection Device Inspector. This testing and certification must be completed every year prior to the system going into service.

The Village has contracted with Backflow Solutions, Inc. (BSI) to administer the backflow prevention tracking program. The annual backflow assembly test report must be submitted electronically by your inspector via the BSI Online system at [www.BsiOnline.com](http://www.BsiOnline.com).

For more information, contact the Public Works Department at 847.317.7245. ☞

## YARD WASTE REMINDERS

Any yard waste placed in your compost container does not require a sticker. Yard waste can be placed in the compost container year-round and does not require a sticker. Yard waste stickers will be needed for bag service, and may be purchased at Village Hall and retailers that currently sell stickers. Stickers cost \$3.00. ☞

## SPRINKLING RESTRICTIONS

The Illinois Division of Water Resources requires that municipalities using Lake Michigan water restrict lawn sprinkling between May 15th and September 15th. Accordingly Deerfield's restrictions during this period are as follows:

- Even numbered addresses may sprinkle on even numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Odd numbered addresses may sprinkle on odd numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Sprinkling is not allowed for anyone between the hours of noon to 6:00 p.m. ☞

## GRATE KEEPERS PROGRAM PROTECTS WATERWAYS

Become a gate keeper of our waterways by registering for the Village's Grate Keepers Program. Residents and businesses can adopt the storm water inlets near their property and pledge to clean the areas around them to reduce local flooding and keep litter and yard waste from polluting local waterways and impeding proper flow.

Using the Villages GIS mapping program, residents can search their neighborhood to find nearby grates. Then they get to name their grate and show their commitment to reduce trash and organic pollutants.



Rain washes anything that's on streets and paved surfaces down storm drains and into the local branches of the Chicago River, and eventually to the Mississippi River and to the Gulf of Mexico. Dog waste carries harmful bacteria. Leaves, grass and dirt feed algae and turn lakes and rivers green. Trash clogs drains and pipes, causing flooding.

With more than 4,000 individual inlets and catch basins in the Village, this is a task that Public Works cannot tackle all on its own.

Participants will be sent a welcome packet containing instructions on how to properly clean around storm grates, materials needed and safety information. The Village will send emails to participants a few times a year reminding them of their commitment. To register, visit [www.deerfield.il.us/gratekeepers](http://www.deerfield.il.us/gratekeepers).

For more information, contact Communications Coordinator David Fitzgerald-Sullivan at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us) or at 847.719.7400. ☞

## STAY CONNECTED WITH THE VILLAGE ON SOCIAL MEDIA

The Village of Deerfield is on social media and invites residents to connect with us to receive valuable information. Like and follow the Village of Deerfield here:

- [Facebook.com/VillageofDeerfield/](https://www.facebook.com/VillageofDeerfield/)
- [@Deerfield\\_IL](https://twitter.com/Deerfield_IL)
- [Instagram.com/villageofdeerfield/](https://www.instagram.com/villageofdeerfield/)  
(@villageofdeerfield)

You can also register to receive the weekly e-blast with Village news and events at [www.deerfield.il.us](http://www.deerfield.il.us). Simply click the "Notify Me" icon on the homepage.

We encourage you to submit your questions, comments and concerns and look forward to engaging with the community further!

For more information, contact David Fitzgerald-Sullivan, Communications Coordinator at 847.719.7400 or by email at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us). ☞



VILLAGE OF DEERFIELD

D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

PRESORTED  
STANDARD U.S.  
POSTAGE  
PAID  
Permit No. 1  
Deerfield, Illinois

POSTAL CUSTOMER  
DEERFIELD, ILLINOIS 60015



## VILLAGENOTES

# FOOD Truck



## Thursdays

**June 23, July 21, August 18**

**4:30 p.m. to 8 p.m. at Jewett Park Hazel Avenue Parking Lot**

**Live Music | Kids Activities**

Sponsored by: The Village of Deerfield



Village Officials:

**Mayor:**

**Daniel C. Shapiro** - 312.763.9640  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

**Trustees:**

**Robert "Bob" L. Benton** - 847.945.1570  
Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)  
**Larry Berg** - 847.612.0777  
Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)  
**Elaine Jacoby** - 847.644.3354  
Email: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)  
**Rebekah Metts-Childers** - 847.899.1449  
Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)  
**Mary M. Oppenheim** - 847.948.9423  
Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)  
**William S. Seiden** - 847.945.2442  
Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

**Village Manager:**

**Kent S. Street** - 847.719.7400  
E-mail: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

**Village Hall/Police Department**

850 Waukegan Road  
Deerfield, Illinois 60015  
847.945.5000 (Switchboard and Finance)  
847.719.7484 (Community Development)  
847.945.8636 (Police non-emergency)

**Public Works and Engineering**

465 Elm Street  
847.317.7245  
847.317.2490 (Engineering)

## Additional Flood Information & Village Services

### Flood Hazard Areas

Special Flood Hazard Areas (100-year floodplain) in the Village of Deerfield are located near the Middle Fork and West Fork of the North Branch of the Chicago River. The eastern portion of Deerfield is in the Middle Fork floodplain, while the western part of town is in the West Fork floodplain. For a detailed map visit the Village of Deerfield website [www.deerfield.il.us](http://www.deerfield.il.us) under maps and information.

Guidance on whether your property is in the 100-year floodplain can be obtained by visiting the Engineering Department and having a staff member help you. However, staff cannot make an official determination but can advise residents on the process with FEMA. Maps are available to look at as well as other flood-related information. Contact the Engineering Department at 847-317-2490 for further assistance.

### Flood Safety

The following common sense guidelines can help protect you from the dangers of flooding:

- Do not drive through a flooded area. More people drown in cars than anywhere else.
- Do not drive around barriers.
- Do not walk through flowing water. Currents can be deceptive. Six inches of water can knock you off your feet.

### Village of Deerfield Flood Recommendations

- Stay away from power lines and electrical wires. If your house is about to be flooded, turn off the power at the service box. Electrical current can travel through water. Electrocution is the 2nd leading cause of death during floods.
- Be alert to gas leaks. Turn off the gas to your house before it floods. If you smell gas, report it to a Village official or your gas company. Do not use candles, lanterns or open flames if you smell gas or are unsure if your gas has been shut off.
- Keep children away from the flood waters, ditches, culverts and storm drains. Flood waters can carry unimaginable items that have dislodged themselves. Culverts may suck smaller people into them rendering them helpless.
- Clean everything that has been wet. Flood water will be contaminated with sewage and other chemicals which pose severe health threats.
- Look out for animals, especially snakes. Small animals that have been flooded out of their home may seek shelter in yours.

- Do not use gas engines, such as generators, or charcoal fires indoors during power outages. Carbon monoxide exhaust can pose serious health hazards.

## Property Protection Measures

If your property is susceptible to flooding, there are many flood damage reduction measures you can employ:

- Watertight seals can be applied to brick and block walls to protect against low-level flooding.
- Utilities such as heating and air conditioning systems, water heaters and other major appliances can be elevated to higher floors in the structure or on raised platforms.
- Temporary measures such as moving furniture and other valuables to higher floors or sandbagging exterior openings will also help.
- Elevating or relocating the entire structure may also be a feasible option.

## Historical Flooding & Natural Floodplain Functions

In addition to floodplain mapping assistance the Village of Deerfield Engineering Department provides the following services:

- Historical flooding information.
- Natural flood plain function information.
- Information on soil types when available.
- Flood protection assistance recommendations.

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available to look at as well as other flood-related information. With questions please contact the Engineering Department at 847-317-2490.

## Additional Information

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov website](https://www.fema.gov)
- Physical Address of Village of Deerfield Engineering Department  
465 Elm Street  
Deerfield, IL 60015
- Engineering Phone Number: 847-317-2490

- [Flood FAQs](#)
- [Deerfield Public Library](#)
- [Lake County Flood Information, Programs and All Natural Hazards Mitigation Plan \(ANHMP\)](#)
- [Deerfield 2020 Annual Progress Report](#)

## Quick Links

- [FEMA Map Service](#)
- [The National Flood Insurance Program \(on FEMA\)](#)
- [Protect Your House from Flooding](#)
- [Homowner's Guide to Retrofitting](#)
- [Guide to Flood Protection in NE Illinois](#)
- [Elevation Certification Website](#)

[View All](#)

## Brochures & Map

- [2014 Deerfield Flood Brochure \(PDF\)](#)
- [Contractor Combined September 5 2008 \(PDF\)](#)
- [FEMA Update \(PDF\)](#)

## 2022 DRAINAGE ISSUES

No.	Date:	Location	Reported By:	Via	Staff	Phone	Email	Status	Notes		
	1/5/2022	480 Standish	Adam Millstein	Phone/Field	TKD	312-543-8961	<a href="mailto:Adam.Millstein@coronishealth.com">Adam Millstein &lt;amillstein@coronishealth.com&gt;</a>				
	3/10/2022	408 Willow	Mike - H.O.	Phone	JSG	847-275-2223					
	3/15/2022	443 Hermitage	Carol Schiffels	Email	TKD		<a href="mailto:carolyn.schiffels@cschiffels@gmail.com">carolyn schiffels &lt;cschiffels@gmail.com&gt;</a>				
	3/25/2022	95 Shenandoah	Ms. Salk	Phone/Field	TKD	847-254-7201					
	3/29/2022	512 Pine	Bill Raubolt	Phone/Field	TKD	847-828-8902					
	3/31/2022	1035 Park Ave	Donna Stuppel	Letter	JG	847-945-1748					
	4/1/2022	440 Susan	Revive your Lawn	Permit Application		Revive Your Lawn 630-890-9387	<a href="mailto:Revive / Trimlight Office &lt;reviveyourlawn@gmail.com&gt;">Revive / Trimlight Office &lt;reviveyourlawn@gmail.com&gt;</a>				
	4/1/2022	915 Kenton	Ms. Anderson	Phone/Field	TKD	847-714-7005					
	4/1/2022	1310 Carlisle	Aaron & Emily Kaffen	Phone/Field	TKD		<a href="mailto:Emily &amp; Aaron Kaffen &lt;kaffen.home@gmail.com&gt;">Emily &amp; Aaron Kaffen &lt;kaffen.home@gmail.com&gt;</a>				
	4/6/2022	1730 Clavinia	Ronnie Hirsch	Phone/Field	TKD		<a href="mailto:Ronnie Hirsch &lt;ronniu312@gmail.com&gt;">Ronnie Hirsch &lt;ronniu312@gmail.com&gt;</a>				
		1720 Clavinia	Neighbor								
		615 Castlewood	Neighbor								
	4/6/2022	8 Forestway	Carlos & Dana Pero	Online/Field	TKD		<a href="mailto:Carlos Pero &lt;carlos.pero@gmail.com&gt;">Carlos Pero &lt;carlos.pero@gmail.com&gt;</a>				
	4/6/2022	719 Pine	Bappa Rey	Phone	TKD		<a href="mailto:Bappaditya Ray &lt;raybappaditya@gmail.com&gt;">Bappaditya Ray &lt;raybappaditya@gmail.com&gt;</a>				
	4/7/2022	920 Brand	Eric Block	phone message	JG	847-471-9897					
	4/7/2022	500 Indian Hill	Jaimee Kohn	phone message	JG	917-562-9780					
	4/7/2022	434 Poplar	HOA	field/phone	TKD		<a href="mailto:james@mckenziemanagement.com">james@mckenziemanagement.com</a>				
	4/7/2022	435 Carriage way		Online/Field	RWP						
	4/7/2022	1227 Dartmouth	Frank	Phone/Field	TKD	847-431-5054					
	4/7/2022	615 Bent Creek	Matt Candela	Phone/Field	TKD	313-587-6833	<a href="mailto:mattcandela@gmail.com">mattcandela@gmail.com</a>				
	4/10/2022	1423 Greenwood	Gavin Speirs	email	JSG		<a href="mailto:Gavin Speirs &lt;gspeirs@twinorchardcc.org&gt;">Gavin Speirs &lt;gspeirs@twinorchardcc.org&gt;</a>				
	4/11/2022	620 Carlisle	Jim Levie	Phone/Field	TKD		<a href="mailto:j.levie@comcast.net &lt;j.levie@comcast.net&gt;">j.levie@comcast.net &lt;j.levie@comcast.net&gt;</a>				
	4/11/2022	375 Craig Ct	Caren Wax	Phone/Field	TKD	312-933-8299					
	4/12/2022	434 Poplar	Mike Friman	field/phone	TKD						
	4/13/2022	1160 Kenton	Dimitry Rozental	Phone/Field	TKD	312-375-0144					
	4/22/2022	1720 Mountain Dr	H.O.	phone	PW						
	4/25/2022	1449 Wincanton	Judy Mason	Phone	TKD		<a href="mailto:judy mason &lt;judydm927@sbcglobal.net&gt;">judy mason &lt;judydm927@sbcglobal.net&gt;</a>				
	4/25/2022	1513 Dartmouth Ln	Preston Fry	email	JSG		<a href="mailto:prestonjry@gmail.com">prestonjry@gmail.com</a>				
	5/1/2022	443 Hermitage	Carol Schiffels	Email	TKD		<a href="mailto:carolyn.schiffels@cschiffels@gmail.com">carolyn schiffels &lt;cschiffels@gmail.com&gt;</a>				
	5/2/2022	1044 Knollwood	Greg Venburg	Email	TKD		<a href="mailto:Greg Venburg &lt;greg.venburg@gmail.com&gt;">Greg Venburg &lt;greg.venburg@gmail.com&gt;</a>				
	5/3/2022	1565 Samanthas Way	Miranda Maslak	Email/phone	TKD	913-707-6977	<a href="mailto:Miranda Maslak &lt;miranda.maslak@gmail.com&gt;">Miranda Maslak &lt;miranda.maslak@gmail.com&gt;</a>				
	5/3/2022	1038 Kenton	Barbara Korobkin	Phone	JSG	847-494-3210	<a href="mailto:Barbara Korobkin &lt;bkorobkin@gmail.com&gt;">Barbara Korobkin &lt;bkorobkin@gmail.com&gt;</a>				
	5/3/2022	1230 courier ct	Bernard Turnoy	email	TKD		<a href="mailto:turnoy@aol.com">turnoy@aol.com</a>				
	5/4/2022	920 Brand Ln	Eric Block	email	RWP		<a href="mailto:Eric Block &lt;ericblock7@outlook.com&gt;">Eric Block &lt;ericblock7@outlook.com&gt;</a>				
	5/3/2022	485 Carriage Way	lisa Schurgin	Phone/field	JSG	773-320-0682	<a href="mailto:lbs2@yahoo.com">lbs2@yahoo.com</a>				
	5/3/2022	1760 We Go Trail	Mr. Thal	Email/Field	JSG		<a href="mailto:mthal.mt@gmail.com">mthal.mt@gmail.com</a>				
	5/3/2022	1560 Woodvale	Jerry	field/email	PW	847-812-6555	<a href="mailto:cathy.jerry.z@gmail.com">cathy.jerry.z@gmail.com</a>				
	5/6/2022	315 Willow	Nick Gutwirth	Phone/Field	TKD		<a href="mailto:Nicholas G &lt;ngutwirth@gmail.com&gt;">Nicholas G &lt;ngutwirth@gmail.com&gt;</a>				
	5/10/2022	1707 Garand	Michael Meyers	Phone/Field	TKD	630-408-2280					
	5/10/2022	1516 Rosewood	Mrs. Schwartz	Phone/Field	JSG						
	5/10/2022	1140 Prairie	Linda Trytek	Phone/Field	TKD	847-940-9554					
	5/10/2022	1230 courier ct	Bernard Turnoy	Phone/Field	TKD		<a href="mailto:turnoy@aol.com">turnoy@aol.com</a>				
	5/10/2022	1431 Northwoods	Pam Katz	Phone/Field	TKD	(847)372-3271	<a href="mailto:Pamela Katz &lt;pamelakatzphotography@gmail.com&gt;">Pamela Katz &lt;pamelakatzphotography@gmail.com&gt;</a>				
	5/11/2022	85 Bent Creek	Nont	Phone/Field	TKD	412-596-8462					
	5/11/2022	520 Briehill	Susan O'Malley	Phone/Field	TKD	847-624-7609	<a href="mailto:Susan O'Malley &lt;somalley779@gmail.com&gt;">Susan O'Malley &lt;somalley779@gmail.com&gt;</a>				
	5/11/2022	430 Circle	Neighbor	Phone/Field	TKD						
		429 Circle	Danny Rudolph					<a href="mailto:Danrudyrudolph@aol.com">Danrudyrudolph@aol.com</a>			
		434 Circle	Beth A Zemach					847-921-5349	<a href="mailto:iambz123@gmail.com">iambz123@gmail.com</a>		
		1425 Central	Lara Wilson					847-845-1399	<a href="mailto:Larawilson78@gmail.com">Larawilson78@gmail.com</a>		Circle Ct / Central Neighbors
	5/13/2022	1009 Meadowbrook	Bennet Schwartz			847.828.7878	<a href="mailto:BSchwartz@JDIREALTY.COM">BSchwartz@JDIREALTY.COM</a>				
	?	316 Willow	Aaron Robbin	email	JSG		<a href="mailto:Aaron Robbin &lt;aaron@arobbin.net&gt;">Aaron Robbin &lt;aaron@arobbin.net&gt;</a>				
	5/13/2022	1256 oxford	Jason Elsner	Phone/field	JSG	847-910-9309	<a href="mailto:Jason &lt;jasonre@comcast.net&gt;">Jason &lt;jasonre@comcast.net&gt;</a>				
	5/13/2022	513 Grove	Jeff Kaplan	Phone/field	TKD	917-363-0787	on file				



## Tyler Dickinson, P.E.

---

**From:** Tyler Dickinson, P.E.  
**Sent:** Wednesday, November 9, 2022 7:29 AM  
**To:** Matt C  
**Subject:** RE: Bent Creek "Island" yard drainage

Thanks Matt.

**From:** Matt C <mattcandela@gmail.com>  
**Sent:** Tuesday, November 8, 2022 4:40 PM  
**To:** Tyler Dickinson, P.E. <tdickinson@deerfield.il.us>  
**Subject:** Re: Bent Creek "Island" yard drainage

[EXTERNAL EMAIL]

---

Hi Tyler -

Just wanted to drop a quick note to let you know we haven't forgotten about this. I've been trying to connect w/ Doug so we can discuss before responding more robustly w/ any open questions, etc.

Thank you for all your support on this.

Best,

Matt Candela  
313-587-6833

On Thu, Oct 20, 2022 at 8:58 AM Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)> wrote:

Thank you, Tyler!

I'll try to connect w/ Doug sometime here in the near future to discuss and we'll coordinate getting back to you with our thoughts and questions.

Best,  
Matt Candela  
313-587-6833

On Fri, Oct 14, 2022 at 3:38 PM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

Hey guys, attached is the quote from Mike, around \$18k. If both of you approve, that would be around \$6k a pop.

Matt, Mike recommends waiting on the perforated pipe until after you judge how the inlets help. It's always something you can do later if you elect too.

Let me know what you guys think. Thanks,



**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

465 Elm St | Deerfield, IL 60015

847.719.7463

Follow Us:   

**From:** Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)>

**Sent:** Tuesday, October 4, 2022 3:19 PM

**To:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>

**Cc:** Douglas Moore <[dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com)>

**Subject:** Re: Bent Creek "Island" yard drainage

[EXTERNAL EMAIL]

---

Aligned. Thank you!

On Tue, Oct 4, 2022 at 3:18 PM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

FYI, attached is the revised plan that we'll get a price on.



**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

[465 Elm St | Deerfield, IL 60015](#)

847.719.7463

Follow Us:   

---

**From:** Tyler Dickinson, P.E. <>  
**Sent:** Tuesday, October 4, 2022 3:13 PM  
**To:** Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)>; Douglas Moore <[dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com)>  
**Subject:** RE: Bent Creek "Island" yard drainage

Hey guys, completely agreed, there's no commitment here other than agreeing that the concept plan is one that is worth getting a price on. There won't be any firm commitment until we have solid numbers and a game plan in hand. Again, this stage is just confirming the concept plan.

I'll reach out to our contractor and get a price/timeline from him. Might be a few weeks as they are in the middle of their end of the year push. I'll be in touch.

**From:** Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)>  
**Sent:** Tuesday, October 4, 2022 2:57 PM  
**To:** Douglas Moore <[dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com)>  
**Cc:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>  
**Subject:** Re: Bent Creek "Island" yard drainage

[EXTERNAL EMAIL]

---

Right, same here, so we are aligned! Thanks!

Tyler, when you get a chance please advise if we can proceed with costing out the project for just our two properties. Let us know if you need anything additional from us in the interim and thanks for your support on this.

On Tue, Oct 4, 2022 at 2:55 PM Douglas Moore <[dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com)> wrote:

Hey Matt,

I think I would need to see some cost here before making a decision. It is something I would like to do but cost dependent

Doug

On Tue, Oct 4, 2022 at 2:53 PM Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)> wrote:

Typo below, I meant to say 615 and [625 Bent Creek Ridge](#)\*.

On Tue, Oct 4, 2022 at 2:47 PM Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)> wrote:

Hi Tyler -

Mackenzie has informed us that he's not interested in proceeding further with this project at this time. Assuming it is OK to modify the concept plan to remove the drainage structure (*and associated piping*) from the Stenders' property; ***Can we request estimated costing for the revised project plan covering just the two properties (615 and [615 Bent Creek Ridge](#))?*** I personally would like to see a more robust estimate on costs, if possible, before we have any go/ no-go discussions.

[@Doug](#) - Please chime in if you have any thoughts or questions to add.

Thank you,

Matt Candela

313-587-6833

On Sat, Oct 1, 2022 at 12:18 PM Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)> wrote:

Hi Tyler/ all -

I'm aligned w/ the concept and it seems aligned with what we discussed on the 15<sup>th</sup>. Would be very interested in rough pricing for everyone's further consideration.

@Doug/ @Mack - Any thoughts on the same?

Matt Candela

313-587-6833

On Wed, Sep 28, 2022 at 4:13 PM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

All, here is the concept plan that we discussed on the 15<sup>th</sup>. Please review and let me know if this is what you'd like me to get a rough price on. There will be some minor regrading require at most of the drainage structures but for now, just want to make sure we're all on the same page with the pipe as that's the costly part.

Once I get concurrence from you three, I'll get a price. If there's any questions on this, please let me know. Thanks,



**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

[465 Elm St | Deerfield, IL 60015](#)

847.719.7463

Follow Us:   

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**From:** Tyler Dickinson, P.E. <>

**Sent:** Tuesday, August 30, 2022 11:44 AM

**To:** Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)>

**Cc:** [Mackenzie.stender@gmail.com](mailto:Mackenzie.stender@gmail.com); [dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com)

**Subject:** RE: Bent Creek "Island" yard drainage

Works for me. See you all on 9/15 at 9am. Thanks Matt.

**From:** Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)>  
**Sent:** Tuesday, August 30, 2022 10:13 AM  
**To:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>  
**Cc:** [Mackenzie.stender@gmail.com](mailto:Mackenzie.stender@gmail.com); [dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com)  
**Subject:** Re: Bent Creek "Island" yard drainage

[EXTERNAL EMAIL]

---

Hi Tyler/ all -

Thank you! We have a conflict on this Friday, so can we lock in for Thurs 9/15 AM? We look forward to discussing more!

Best,

Matt Candela

313-587-6833

On Tue, Aug 30, 2022 at 7:00 AM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

Good morning Matt and all,

The Village is willing to discuss this drainage improvement with all of you and even potentially participate in the cost as well once everyone is on board. I think the best way to discuss all of this is at a meeting in the field. At that time if it's decided to pursue this further, we most certainly can. Please know there is no commitment required at this time, just a good discussion.

FYI, the Village's participation is typically by being another party to the group when it comes time to split the cost. In this case the project cost would be split by 4 (625, 615, 595, and Village), and not just the three properties, thereby reducing the cost per party.

The only time I'm available the rest of this week is Friday morning. Other than that, we'll have to look at the week of the 12<sup>th</sup> which besides M-W mornings, I'm open.

Please discuss and let me know of a time we can meet. Thanks for getting this going Matt.



**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

[465 Elm St | Deerfield, IL 60015](#)

847.719.7463

Follow Us:   

**From:** Matt C <[mattcandela@gmail.com](mailto:mattcandela@gmail.com)>

**Sent:** Friday, August 26, 2022 4:52 PM

**To:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>

**Cc:** [dougmoore1984@gmail.com](mailto:dougmoore1984@gmail.com); [Mackenzie.stender@gmail.com](mailto:Mackenzie.stender@gmail.com); Matt C <[MattCandela@gmail.com](mailto:MattCandela@gmail.com)>

**Subject:** Bent Creek "Island" yard drainage

**[EXTERNAL EMAIL]**

---

Hi Tyler -

Hope you're well & Happy Friday!

Per our phone discussions, we have 3 households (*595, 615, and [625 Bent Creek Ridge](#)*) expressing interest in with re-opening the project that was proposed to the residents in 2020 and we are reaching out in hope of support from the Village of Deerfield. We are aware that the prior residents decided against moving forward with the proposal in 2020, but it just so happens that the homeowners in all three of these properties have turned over (*i.e. we're all new here!*).

I've attached the documents that I received from you when we met in the Spring of 2022, for everyone's reference.

Cc'd are residents:

- Matt Candela, [615 Bent Creek Ridge](#)
- Mackenzie Stender, 595
- Doug Moore, 625

We hope for your guidance. If you could help us understand next steps, estimated cost, etc. we are very interested to learn more and hopefully move forward with a permanent solution to our yard drainage woes. Unlike the prior residents, we plan to be here for a while ;)

**Thank you** in advance and we look forward to hearing from you!

Matt Candela

313-587-6833

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Matt Candela

313-587-6833

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Matt Candela

313-587-6833

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Matt Candela

313-587-6833

## Tyler Dickinson, P.E.

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**From:** Tyler Dickinson, P.E.  
**Sent:** Tuesday, August 16, 2022 7:12 AM  
**To:** Brian Zemach; lara wilson  
**Cc:** Michael Grevers  
**Subject:** RE: Circle/central drainage

Thanks all and let's plan on Thursday at 1pm. We'll meet in Lara's driveway.

Brian, we'll discuss the permit fees and any other questions on Thursday.

Thanks,

**From:** Brian Zemach <bdz321@gmail.com>  
**Sent:** Monday, August 15, 2022 9:23 PM  
**To:** lara wilson <larawilson78@gmail.com>  
**Cc:** Tyler Dickinson, P.E. <tdickinson@deerfield.il.us>; Michael Grevers <mgrevers@northshoreboring.com>  
**Subject:** Re: Circle/central drainage

[EXTERNAL EMAIL]

---

Thanks Tyler, Lara and Michael.

We also approve this proposal.

In terms of meeting with Michael, Thursday afternoon would be a good time for us, as well.

Question for Tyler: The proposal mentions permit and Village Fees being charged upon completion. Are you able to give us an idea of what these might look like?

Brian

On Mon, Aug 15, 2022 at 5:55 PM lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)> wrote:

Thank you Tyler!

We are approving the project to move forward, and Thursday afternoon would work best.

See you soon,  
Lara

On Mon, Aug 15, 2022 at 4:26 PM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

Good afternoon Brian & Lara,

I received the revised quote for this work and have attached it for your reference. The total is the same as it was before.

Lara, as discussed previously, the \$1,500 additional tap for your other project won't be included in the cost sharing. Therefore, the totals will work out as follows:

Total shared amount: \$9,080

Village: \$3,030

1425 Central: \$4,525 (\$3,025 + \$1,500)

434 Circle Ct: \$3,025

Please acknowledge approval for this work and once I have those, the Village will execute the contract.

Moving forward, your two portions will be required to be paid prior to the work starting. I've cc'd Mike Grevers, the contractor, on here to answer any questions you might have regarding payment. Also, I'd like meet in the field and go over the work and what to expect. Let's shoot for either this Thursday afternoon or Friday morning.

To recap, I need two things from you two (Lara & Brian):

1. Project approval
2. Let me know if Thursday afternoon or Friday morning works better to meet.

Mike, once we have their approval emails, please add us into the schedule.

Thanks all.



**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

465 Elm St | Deerfield, IL 60015

847.719.7463

Follow Us:   

---

**From:** Tyler Dickinson, P.E. <>

**Sent:** Thursday, August 11, 2022 3:43 PM

**To:** Brian Zemach <[bdz321@gmail.com](mailto:bdz321@gmail.com)>; lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)>

**Subject:** RE: Circle/central drainage

Sorry to the both of you for my delay. It's been a pretty busy week.

Moving forward, I will confirm the final price with the contractor and get both of you numbers. From there, we'll execute the contract and get on his schedule. The contractor does require 50% down and that will be up to you two to cover (the Village does not pay for work until it's completed) with the rest being due after.

Prior to the work, I will want to schedule a meeting with you two and the contractor to outline exactly what we are looking to perform. This way, there shouldn't be any surprises.

More to come. Thanks,

**From:** Brian Zemach <[bdz321@gmail.com](mailto:bdz321@gmail.com)>

**Sent:** Thursday, August 11, 2022 11:27 AM

**To:** lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)>

**Cc:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>

**Subject:** Re: Circle/central drainage

**[EXTERNAL EMAIL]**

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Lara: I never hear back from Tyler. I, too, want to keep this thing moving.

I'll pop him another message. Everyone needs to be good at something. I am good at being annoying.

On Thu, Aug 11, 2022 at 10:23 AM lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)> wrote:

Hi,

Just checking in, do we have any more information about the drainage project? When it might start as well as more of an idea of cost? The pavement and boring company were out Tuesday to take a look.

Thanks for your help,

Lara

On Fri, Aug 5, 2022 at 8:17 AM Brian Zemach <[bdz321@gmail.com](mailto:bdz321@gmail.com)> wrote:

Hi Tyler:

Before the weekend, I wanted to follow-up, making sure I didn't miss an email on steps forward with the Central/Circle drainage project.

(I was logging into Gmail through a different device this week, and discovered that the Microchip Gnomes opted to send a lot of inbound traffic to spam and junk mail folders. I think I tickled out most of the misdirected traffic, but can't be sure.)

Thanks,

Brian

On Mon, Aug 1, 2022 at 12:18 PM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

Thanks Brian for getting in touch with Dan.

I'll get something over to you both today or tomorrow outlining the steps forward. For the time being and since there are only three of us participating, it will remain only us three on these emails.



**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

465 Elm St | Deerfield, IL 60015

847.719.7463

Follow Us:   

**From:** lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)>  
**Sent:** Monday, August 1, 2022 11:28 AM  
**To:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>  
**Cc:** Brian Zemach <[bdz321@gmail.com](mailto:bdz321@gmail.com)>  
**Subject:** Re: Circle/central drainage

[EXTERNAL EMAIL]

---

Thank you both!

On Mon, Aug 1, 2022, 11:19 AM Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)> wrote:

Thanks Lara/Brian. We'll need to wait until we have a final group (Danny is all that is left) before we can start on the next phase. I think the contractor is still scheduling out at least a month so it won't be an immediate start.

I can send an email to Danny as well later this week (I wanted to give everyone a week to look this over). Thanks,

**Tyler Dickinson, P.E.**

Assistant Director of Public Works and Engineering | [Deerfield Public Works and Engineering](#)

465 Elm St | Deerfield, IL 60015

847.719.7463

Follow Us:

**From:** Brian Zemach <[bdz321@gmail.com](mailto:bdz321@gmail.com)>  
**Sent:** Monday, August 1, 2022 11:03 AM  
**To:** lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)>  
**Cc:** Tyler Dickinson, P.E. <[tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us)>  
**Subject:** Re: Circle/central drainage

[EXTERNAL EMAIL]

---

Lara and Tyler:

I am ready to start as soon as the contractor can provide an updated proposal and schedule us.

The Jaffes have bowed out for now, but I don't think the Rudolchs have. Informally, Dan told me he didn't think he wanted to go forward. But not sure he's said that to Tyler. The Rudolchs are on a short vacation until midweek. I'll text him and see if we can motivate him to tick off that box.

Brian

On Mon, Aug 1, 2022 at 10:59 AM lara wilson <[larawilson78@gmail.com](mailto:larawilson78@gmail.com)> wrote:

Good morning,

We were wondering if you knew what the timeline might be for getting this project started? We would like to do the additional work in the front with the french drain around the same time as the tie-in while everything is open.

Thank you,

Lara

--

=====

*Brian Zemach | m 847.636.0439 | e [bdz321@gmail.com](mailto:bdz321@gmail.com)*

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*Brian Zemach | m 847.636.0439 | e [bdz321@gmail.com](mailto:bdz321@gmail.com)*

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*Brian Zemach | m 847.636.0439 | e [bdz321@gmail.com](mailto:bdz321@gmail.com)*

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*Brian Zemach | m 847.636.0439 | e [bdz321@gmail.com](mailto:bdz321@gmail.com)*



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 440 – Flood Data Maintenance

Dear Mr. Arkens:

Attached is a list of the 75 benchmarks with their locations and elevations. The vertical control order is of second order and stability rating for each benchmark is of Quality Code A. These benchmarks were verified by HLR Engineering in 2008.

In the summer of 2021, all benchmarks were verified with only one of the Village owned benchmarks not found and one requiring an elevation correction, making the system highly accurate overall. The verification report is attached.

Sincerely,

A handwritten signature in blue ink, appearing to read "Tyler K. Dickinson", written in a cursive style.

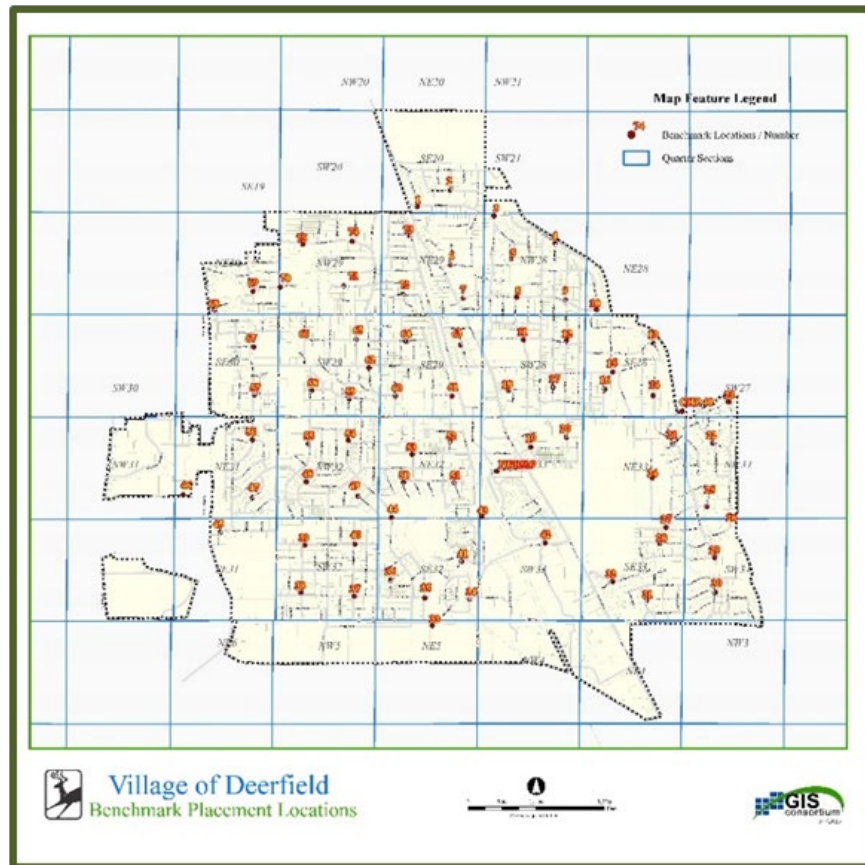
Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

# Benchmark Verification

## For the Village of Deerfield

-at-

## Village-Wide Benchmark Control System



Prepared by:



334 E. Colfax Street, Suite C  
Palatine, IL 60067  
(847)991-5088

January 18, 2021

# **Observations and Results**

## **Observations**

### **Verification of Existing Benchmark Data Sheets**

In order to accomplish this, reviewed all seventy-five (75) of the Village Benchmark Data Sheets, field located each benchmark and collected GPS data collection in Real-Time Kinetic (RTK) mode. The objective of our work was to firstly verify the existence of each benchmark and secondly to check the accuracy of the benchmark data (within the accuracy limits of RTK observation). The pages that follow provide a spreadsheet presentation of the data for each Village Benchmark, including a tabulation of the variation found between the record benchmark data and the observed benchmark data.

## **Results**

As you will notice on the attached data sheets, the elevations of the benchmarks were found to have a high degree of accuracy except at the following locations:

- Benchmark #70 – Not found – appears to be removed by construction
- Benchmark #40 – Appears to be lower than the record elevation by 0.23' giving this benchmark a corrected elevation of 663.24
- Non-Village BenchmarkNG0519 – Not found
- Non-Village Benchmark CHP40 – Not found

The data sheets that follow provide the following columns for comparison

- Benchmark Record Data
  - Northing
  - Easting
  - Elevation
- 2021 Observation
  - Northing
  - Easting
  - Elevation
- Deviation
  - Northing
  - Easting
  - Elevation

Since the Village Benchmarks are predominantly used for elevation, with the one correction of BM#40 and the elimination of BM#70, the list is verified to be highly accurate. Location wise, the data provided on the following pages illustrates strong general accuracy with only a few instances of deviation from the record values. Since 0.08-feet is the general tolerance level for RTK observations, we have highlighted in yellow the observations that deviated in excess of

0.08-feet from the record values. If any of the data sheets are desired to be updated with “static observations” for ¼-inch accuracy tolerance, that can be performed; however, given the use and the accuracy found, the existing benchmark list appears to be both adequate and accurate. The Village Benchmark data is sufficient for surveyor coordination on both municipal and private projects. On projects in the Village where the highest accuracy standards are to be met, we recommend that multiple observations be made on multiple Village Benchmarks which will inherently average out minor errors. Alternatively, static observations of the Village Benchmarks coupled with coordination with a GPS network can be an option for those who wish to increase accuracy and coordination with Illinois State Plane coordinates.

BM #	Benchmark Record Data			2021 Observation			Deviation		
	N	E	Elev.	N	E	Elev	N	E	Eev
1	2009382.24	1114248.62	667.56	2009382.19	1114248.65	667.54	0.05	-0.03	0.02
2	2009815.23	1115109.9	661.52	2009815.21	1115109.99	661.53	0.02	-0.09	-0.01
3	2009144.69	1116234.73	665.42	2009144.62	1116234.83	665.41	0.07	-0.1	0.01
4	2008446.25	1117817.51	654.05	2008446.27	1117817.61	654.03	-0.02	-0.1	0.02
5	2008031.72	1116678.37	671.07	2008031.7	1116678.42	671.05	0.02	-0.05	0.02
6	2007883.82	1115108.73	683.42	2007883.87	1115108.79	683.38	-0.05	-0.06	0.04
7	2007012.74	1115439.57	685.36	2007012.71	1115439.68	685.37	0.03	-0.11	-0.01
8	2007035.57	1116824.07	676.65	2007035.53	1116824.18	676.61	0.04	-0.11	0.04
9	2006966.36	1118074.79	667.92	2006966.29	1118074.9	667.95	0.07	-0.11	-0.03
10	2006719.84	1118896.78	657.5	2006719.77	1118896.88	657.48	0.07	-0.1	0.02
11	2005935.13	1117002.54	678.4	2005935.15	1117002.61	678.34	-0.02	-0.07	0.06
12	2005930.2	1118117.69	672.1	2005930.23	1118117.79	672.07	-0.03	-0.1	0.03
13	2005849.05	1120359.93	655.82	2005849.07	1120360.04	655.81	-0.02	-0.11	0.01
14	2004491.17	1120342.6	661.82	2004491.16	1120342.68	661.83	0.01	-0.08	-0.01
15	2005109.12	1119307.12	665.93	2005109.06	1119307.18	665.94	0.06	-0.06	-0.01
16	2004655.36	1119091.23	673.06	2004655.33	1119091.35	673.07	0.03	-0.12	-0.01
17	2004706.97	1117763.76	676.36	2004706.96	1117763.85	676.38	0.01	-0.09	-0.02
18	2004629.55	1116614.68	690.89	2004629.55	1116614.71	690.88	0	-0.03	0.01
19	2003159.72	1117179.24	688.77	2003159.72	1117179.31	688.73	0	-0.07	0.04
20	2003421.36	1118104.64	686.98	2003421.37	1118104.59	686.98	-0.01	0.05	0
21	2003248.53	1120855.2	659.08	2003248.49	1120855.3	659.1	0.04	-0.1	-0.02
22	2003277.74	1121897.39	655.89	2003277.68	1121897.45	655.88	0.06	-0.06	0.01
23	2004327.51	1122305.11	663.6	2004327.48	1122305.19	663.62	0.03	-0.08	-0.02
24	2002374.3	1120326.2	666.36	2002374.29	1120326.31	666.34	0.01	-0.11	0.02
25	2001641.38	1121738.81	653.63	2001641.37	1121738.88	653.6	0.01	-0.07	0.03
26	2001387.94	1122329.16	653.77	2001387.88	1122329.25	653.79	0.06	-0.09	-0.02
27	2001091.12	1120682.49	670.91	2001091.09	1120682.56	670.96	0.03	-0.07	-0.05
28	2000672.01	1120525.14	667.21	2000671.96	1120525.18	667.23	0.05	-0.04	-0.02
29	2000309.38	1121951.63	657.3	2000309.38	1121951.69	657.28	0	-0.06	0.02
30	1999410.2	1121954.57	665.73	1999410.21	1121954.63	665.68	-0.01	-0.06	0.05
31	1999191.61	1120182.68	680.01	1999191.58	1120182.75	679.97	0.03	-0.07	0.04
32	1999697.8	1119299.71	676.26	1999697.74	1119299.76	676.23	0.06	-0.05	0.03
33	1998555.51	1114633.85	659.18	1998555.5	1114633.9	659.18	0.01	-0.05	0
34	1999237.6	1115606.17	659.1	1999237.6	1115606.25	659.09	0	-0.08	0.01
35	1999263.81	1114442.86	655.04	1999263.83	1114442.9	655.02	-0.02	-0.04	0.02
36	1999723.47	1113554.1	661.89	1999723.45	1113554.15	661.93	0.02	-0.05	-0.04
37	1999304.32	1112617.92	667.2	1999304.33	1112617.96	667.2	-0.01	-0.04	0
38	1999406.9	1111237.86	674.5	1999406.89	1111237.9	674.53	0.01	-0.04	-0.03

BM #	Benchmark Record Data			2021 Observation			Deviation		
	N	E	Elev.	N	E	Elev	N	E	Eev
39	2000630.61	1111338.35	672.16	2000630.59	1111338.41	672.14	0.02	-0.06	0.02
40	2000660.85	1112633.02	663.47	2000660.84	1112633.08	663.24	0.01	-0.06	0.23
41	2000200.9	1115389.26	655.2	2000200.86	1115389.35	655.19	0.04	-0.09	0.01
42	2000686.54	1117562.97	680.81	2000686.52	1117563.08	680.78	0.02	-0.11	0.03
43	2001386.45	1115918.14	675.91	2001386.43	1115918.18	675.86	0.02	-0.04	0.05
44	2001341.3	1113583.96	654.73	2001341.26	1113584.01	654.75	0.04	-0.05	-0.02
45	2000950.31	1109149.44	675.36	2000950.29	1109149.5	675.33	0.02	-0.06	0.03
46	2001927.67	1108197.08	680.32	2001927.67	1108197.16	680.36	0	-0.08	-0.04
47	2001863.45	1109985.29	672.29	2001863.42	1109985.35	672.29	0.03	-0.06	0
48	2002261.64	1111379.17	664.48	2002261.6	1111379.22	664.48	0.04	-0.05	0
49	2001898.12	1112715.57	661.09	2001898.09	1112715.68	661.12	0.03	-0.11	-0.03
50	2002256.7	1113897.7	654.37	2002256.67	1113897.75	654.36	0.03	-0.05	0.01
51	2002233.75	1115209.8	666.1	2002233.7	1115209.85	666.14	0.05	-0.05	-0.04
52	2003320.14	1115104.35	671.31	2003320.13	1115104.43	671.3	0.01	-0.08	0.01
53	2002980.86	1114121.47	660.63	2002980.87	1114121.57	660.65	-0.01	-0.1	-0.02
54	2003334.31	1112473.67	658.68	2003334.35	1112473.78	658.69	-0.04	-0.11	-0.01
55	2003250.16	1111433.39	663.01	2003250.21	1111433.47	663.05	-0.05	-0.08	-0.04
56	2003352.93	1109979.66	670.1	2003352.97	1109979.73	670.08	-0.04	-0.07	0.02
57	2004519.38	1110033.53	665.25	2004519.43	1110033.55	665.26	-0.05	-0.02	-0.01
58	2004639.71	1111508.84	660.6	2004639.74	1111508.91	660.61	-0.03	-0.07	-0.01
59	2004416.6	1112485.41	655.59	2004416.58	1112485.48	655.55	0.02	-0.07	0.04
60	2004483.34	1113697.04	658.23	2004483.36	1113697.06	658.17	-0.02	-0.02	0.06
61	2004478.66	1115146.85	669.36	2004478.61	1115146.95	669.34	0.05	-0.1	0.02
62	2005221.04	1112996.43	659.58	2005220.99	1112996.48	659.51	0.05	-0.05	0.07
63	2005806.83	1115370.74	688.52	2005806.81	1115370.84	688.52	0.02	-0.1	0
64	2005896.11	1113961.36	679.5	2005896.04	1113961.43	679.54	0.07	-0.07	-0.04
65	2005954.96	1112671.1	663.13	2005955.01	1112671.19	663.12	-0.05	-0.09	0.01
66	2006074.19	1111304.29	660.18	2006074.18	1111304.42	660.19	0.01	-0.13	-0.01
67	2005756.02	1110016.92	659.86	2005755.99	1110016.99	659.86	0.03	-0.07	0
68	2006715.81	1109005.12	663.18	2006715.77	1109005.16	663.14	0.04	-0.04	0.04
69	2007202.29	1110007.21	662.99	2007202.29	1110007.26	663.05	0	-0.05	-0.06
70	2007297.41	1110707.4	668.29	Benchmark #70 has been removed					
71	2007335.19	1112346.95	683.83	2007335.22	1112346.76	683.83	-0.03	0.19	0
72	2007118.13	1113871.19	683.8	2007118.08	1113871.2	683.79	0.05	-0.01	0.01
73	2008633.13	1114048.04	674.64	2008633.1	1114048.09	674.65	0.03	-0.05	-0.01
74	2008488.25	1112567.9	688.05	2008488.19	1112567.97	688.11	0.06	-0.07	-0.06
75	2008413.88	1111287.94	679.42	2008413.84	1111288.02	679.4	0.04	-0.08	0.02



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

RE: Activity 450 – Stormwater Management Regulations

Dear Mr. Arkens:

The Village continues to enforce and update as necessary all pertinent stormwater management regulations. These regulations include the Village adopted Lake County Watershed Development Ordinance as well as the Village's more stringent municipal code. A revised Lake County WDO was issued in October 2020 and the Village adopted the revised ordinance in March 2021. The primary amendments address new regulations including, but not limited to: updated storm water modeling (rainfall data and Bulletin 75), detention requirements, native planting requirements, earth stabilization for construction projects, water quality as related to WDO regulated development, and wetland determination among other things.

Attached is the revised WDO. Also attached is additional information regarding the stormwater management regulations in the Village of Deerfield.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

**REQUEST FOR BOARD ACTION**

**Agenda Item:** 21-37

**Subject:** An Ordinance Adopting by Reference of the Lake County Watershed Development Ordinance

**Action Requested:** Adoption of Ordinance

**Originated By:** Department of Public Works and Engineering

**Referred To:** Mayor and Board of Trustees

**Summary of Background and Reason for Request:**

On October 13, 2020 the Lake County Board adopted several amendments to the County-wide Watershed Development Ordinance (WDO). The amendment is currently effective and includes the minimum County-wide standards for regulated development. The amendments address new regulations including, but not limited to: updated storm water modeling (rainfall data and Bulletin 75), detention requirements, native planting requirements, earth stabilization for construction projects, water quality as related to WDO regulated development, and wetland determination among other things.

All communities in Lake and Cook County are required to adopt the revised ordinance as a requirement of the National Flood Insurance Program (NFIP) and to maintain community certification status. The Village of Deerfield is currently a Class 6 community with respect to the NFIP and is designated a “Certified Community” by the Lake County Stormwater Management Commission (SMC). Certified Communities are those communities that have been delegated authority by the SMC under the WDO to administer all, or portions of, the WDO within their community limits.

The Director of Public Works and Engineering is requesting the Mayor and Board of Trustees to approve the Ordinance Adopting by Reference of the Lake County Watershed Development Ordinance.

**Reports and Documents Attached:**

Ordinance

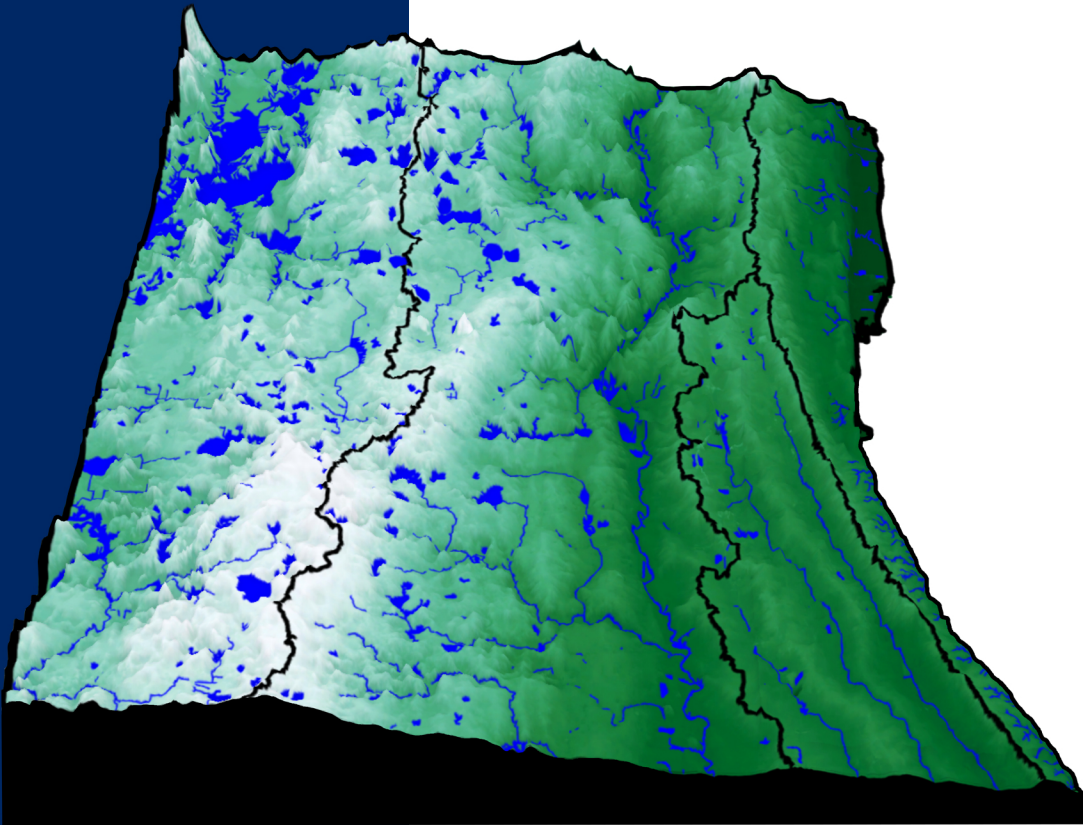
**Date Referred to Board:** March 15, 2021

**Action Taken:** \_\_\_\_\_

**WATERSHED**

**DEVELOPMENT**

**ORDINANCE**



Lake County  
Stormwater Management Commission  
October 13, 2020

LAKE COUNTY  
WATERSHED DEVELOPMENT ORDINANCE

OF

LAKE COUNTY, ILLINOIS

ORIGINAL EFFECTIVE DATE

October 18, 1992

Approved as Amended

By the

Lake County Board

July 12, 1994

August 10, 1999

October 10, 2000

August 14, 2001

November 8, 2005

January 10, 2006

October 10, 2006 (Appendix C)

November 18, 2008

July 10, 2012

June 11, 2013

October 13, 2015

October 13, 2020

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# Article 1: Authority and Purpose

## §100 Introduction

This Ordinance is one part of the adopted Lake County Comprehensive Stormwater Management Plan. It sets forth the minimum requirements for the [stormwater management](#) aspects of [development](#) in Lake County. The Lake County [Stormwater Management Commission](#) is the corporate enforcement authority for the Ordinance. Illinois Compiled Statutes Chapter 55, Act 5, Section 5-1062 [55 ILCS 5/5-1062] states, “The purpose of this Section is to allow management and [mitigation](#) of the effects of urbanization on stormwater drainage... by consolidating the existing stormwater management framework into a united, countywide structure...” The [Lake County Comprehensive Stormwater Management Plan](#), adopted by Ordinance on June 11, 1990 states, “... that the regulations be uniformly and consistently enforced throughout the County by all agencies.” While local conditions may sometimes require extraordinary regulatory measures, the Lake County Stormwater Management Commission (SMC) has determined that uniform and consistent enforcement will be enhanced by municipalities adopting the standards of the Watershed Development Ordinance. In those instances where the requirements of this Ordinance are not stipulated in a municipal ordinance or do not meet the minimum requirements herein, this Ordinance shall prevail. A [community](#) may enact standards beyond the minimum presented in this Ordinance. The SMC has developed Technical Guidance Memoranda which are recommended guides for users of this Watershed Development Ordinance (WDO).

## §101 Authority

This Ordinance is enacted pursuant to the police powers granted to Lake County by 55 ILCS 5/5-1062 (County) by 65 ILCS 5/1-2-1, 11-12-12, 11-30-8, 11-30-2, 11-31-2, and 615 ILCS 5/5 & 18g. The administration and enforcement of this Ordinance shall be performed by (a) Certified Communities, within their respective jurisdictions and (b) the [Stormwater Management Commission](#) and its agents or employees in all other areas of Lake County.

## §102 Purpose

The purpose of this Ordinance is to establish reasonable rules and regulations for [development](#) in order to:

- 102.01 Meet the requirements of the Rivers, Lakes and Streams Act, [615 ILCS 5/18g] effective November 18, 1987.
- 102.02 Prevent additional harm due to periodic flooding, including loss of life and property and threats and inconveniences to public health, safety, and welfare.
- 102.03 Assure that [development](#) does not increase [flood](#) and drainage hazards to others, or create unstable conditions susceptible to [erosion](#).
- 102.04 Create no new financial burden on the taxpayer for flood control projects, repairs to [flood](#) damaged public facilities and utilities, and for flood rescue and relief operations.
- 102.05 Protect, conserve, and promote the orderly development of land and water resources.

- 102.06** Protect buildings and improvements to buildings from flood damage to the greatest extent possible.
- 102.07** Conserve the natural hydrologic, hydraulic, water quality, and other beneficial functions of flood-prone areas and Regulatory Floodplains.
- 102.08** Prevent additional disruption of the economy and governmental services due to stormwater and flood drainage.
- 102.09** Maintain eligibility for the County and its municipalities in the National Flood Insurance Program by equaling or exceeding its requirements and thus make federally subsidized flood insurance available at reduced rates. Comply with the rules and regulations of the National Flood Insurance Program codified as 44 CFR 59-79, as amended.
- 102.10** Conserve the natural hydrologic, hydraulic, water quality, and other beneficial functions of wetlands by having, at a minimum, no net loss of wetlands in Lake County, and further these beneficial functions of wetlands by having an objective of a 'net gain' of wetland function as specified in the Wetland Restoration and Preservation Plan component of the Lake County Comprehensive Stormwater Management Plan.

### §103 Effective Date

The effective date of this Ordinance shall be October 18, 1992.

Approved as amended by the Lake County Board, July 12, 1994

Approved as amended by the Lake County Board, August 10, 1999

Approved as amended by the Lake County Board, October 10, 2000

Approved as amended by the Lake County Board, August 14, 2001

Approved as amended by the Lake County Board, November 8, 2005

Approved as amended by the Lake County Board, January 10, 2006

Approved as amended by the Lake County Board, October 10, 2006

Approved as amended by the Lake County Board, November 18, 2008

Approved as amended by the Lake County Board, July 10, 2012

Approved as amended by the Lake County Board, June 11, 2013

Approved as amended by the Lake County Board, October 13, 2015

Approved as amended by the Lake County Board, October 13, 2020

## Article 2: Administration and Enforcement Responsibilities

### §200 Ordinance Enforcement

- 200.01** In [Certified Communities](#), the appropriate development regulations officer shall be the [Enforcement Officer](#) for the Ordinance. In all other areas of Lake County, the [SMC Chief Engineer](#) shall be the Enforcement Officer. One of the primary duties of the Enforcement Officer shall be to review all watershed development applications and issue permits for those projects that are in compliance with the provisions of this Ordinance. The Enforcement Officer shall be responsible for the administration and enforcement of the Ordinance.
- 200.02** Included as part of this Ordinance as Appendix E: Enforcement Officer Duties is a delineation of requirements and duties required of and accepted by a [community](#) and its designated Enforcement Officer. Certain requirements or duties specified by [FEMA](#) and [IDNR/OWR](#) in Appendix E: Enforcement Officer Duties relate only to the intergovernmental relationship between a community and FEMA or IDNR/OWR for the purposes of that community obtaining or maintaining eligibility for the National Flood Insurance Program (NFIP) and delegation of state permit authority.
- 200.03** Enforcement Officers in Certified Communities have the responsibility to report a Designated Erosion Control Inspector's repeated or recurring non-compliance with Article 6: Soil Erosion and Sediment Control Requirements and Article 11: Inspections and Access in this Ordinance to the SMC Chief Engineer. The [SMC Chief Engineer](#) has the authority and responsibility to suspend a Designated Erosion Control Inspector's listing status for repeated or recurring non-compliance. A notification of suspension from listing shall be issued to the [Designated Erosion Control Inspector](#) and copied to the [applicant](#) a minimum of 30 days prior to suspension from listing. Revocation of listing status shall be the responsibility of the SMC per Commission-adopted procedure.
- 200.04** The SMC shall be responsible for the review, enforcement, and issuance of all [Public Road Development](#) Permits.

### §201 Community Certification

A municipality or the County may be certified by SMC to enforce the provisions of this Ordinance. Upon certification, the [community's](#) designated [Enforcement Officer](#) shall enforce all provisions of this Ordinance within the community's jurisdiction. The criteria and process for certification follow:

#### 201.01 Criteria

- A. The [community](#) is participating in the regular phase of the National Flood Insurance Program.
- B. The [community](#) has adopted and is enforcing the provisions of this Ordinance.
- C. The [community](#) forwards appropriate portions of the [Regulatory Floodway](#) Development applications to SMC for transmittal to [IDNR/OWR](#) or its designee for concurrent review and approval.
- D. The [community](#) maintains records and provides SMC with certain portions of these records as described in Appendix E: Enforcement Officer Duties, Section L.

- E. The community will require all engineering information and plans prepared by a Registered Professional Engineer to be reviewed under the supervision of a Registered Professional Engineer under the employ or contract of the community for conformance with this Ordinance prior to permit issuance.

### 201.02 Process

- A. Communities desiring certification may submit a letter of intent to petition for Certification.
- B. A petition for Standard Certification or for Isolated Wetland Certification shall be submitted to the SMC indicating how the community meets the criteria for certification. A copy of the community's adopted ordinance shall be included with the petition.
- C. Within 60 days of receipt of the petition and in conjunction with a scheduled SMC meeting, the staff recommendation shall be presented.
- D. The SMC shall approve the petition as submitted, shall approve the petition with conditions, or shall deny the petition. A notice of the SMC action shall be submitted to the petitioning community.
- E. Certified Communities shall petition for recertification every five (5) years. This petition shall include SMC-required documentation for the previous certification period.
- F. Within the five (5) year certification period, the SMC Director shall periodically review the community's Ordinance enforcement records and performance and make remedial recommendations to the community, if necessary. Review findings will be used in the assessment of petitions for recertification from Certified Communities.
- G. The SMC may rescind or place conditions on a Certified Community's certification status, after a public hearing, if any of the following circumstances has been documented:
1. Permits are recurrently issued not in compliance with the Watershed Development Ordinance;
  2. Permit or Watershed Development Ordinance requirements are recurrently not enforced on permitted development;
  3. Regulated development that has been brought through the multi-step Community Notification Procedure [due process] before Commission deliberation.

When any of the above circumstances are documented and presented by SMC Staff to the SMC, the SMC shall determine whether to hold a public hearing regarding the Certified Community's certification status. If a public hearing is to be held, a minimum 30-day notice to the Community is required. The public hearing shall be held in conjunction with a regularly scheduled SMC meeting. After close of the public hearing, the SMC shall have the authority to make a decision on any potential modifications to the community's certification status.

- H. The SMC shall rescind a [community's](#) certification for the following reasons:
1. The community is no longer a participant in the National Flood Insurance Program.
  2. The community adopts a Watershed Development Ordinance or amends its ordinance so that its ordinance is less restrictive than the SMC Watershed Development Ordinance.
- I. If the [community](#) issues a [Regulatory Floodway](#) development permit not in accordance with §703 Regulatory Floodway Performance Standards SMC shall rescind the community's authority to administer the [IDNR/OWR](#) Regulatory Floodway permit program for [Appropriate Uses](#).
- J. Fee-in-lieu-of detention ordinances and procedures used by Certified Communities shall be reviewed and approved by the SMC as part of the regular certification process.
- K. Certified Communities shall have a designated Enforcement Officer. To be qualified to act as an [Enforcement Officer](#), the person shall pass the Lake County Enforcement Officer's Exam. If a community Enforcement Officer vacates that position, the community shall designate an Interim Enforcement Officer within thirty (30) days. Final designation of a qualified Enforcement Officer shall occur within six (6) months in order for the community to remain certified.
- L. [Communities](#) with Isolated Wetland Certification shall have a designated [Certified Wetland Specialist](#) (CWS) either as an employee or contracted to administer [wetland](#) related provisions as specified in the Ordinance, under direction of the Enforcement Officer. SMC will administer Ordinance-specified wetland provisions for communities without isolated Wetland Certification.
- If a community Certified Wetland Specialist vacates that position, the community shall designate a CWS within sixty (60) days or may utilize SMC CWS Staff capabilities on an interim basis prior to final designation. Final designation of a CWS shall occur within six (6) months in order for the community to remain Isolated Waters of Lake County-certified.
- M. Communities with FIL50 Certification may administer WDO 509.04 for development under its respective permit authority.

## Article 3: General Provisions

### §300 Regulated Development

The performance standards, application requirements, and other provisions of this Ordinance apply to regulated development, as determined by the Enforcement Officer.

No person, firm, corporation, or governmental agency shall commence any [development](#) regulated by this Ordinance on any lot or parcel of land without first obtaining a [Watershed Development Permit](#) from the [Stormwater Management Commission](#) or, if applicable, the [Certified Community](#). A permit shall be issued if the proposed development meets the requirements of this Ordinance or its Certified Community equivalent. A Watershed Development Permit is required for any development, including finalization of a plat, replat, Planned Unit Development (PUD), or Manufactured Home Park site plan, that:

- 300.01 Is located in a [Regulatory Floodplain](#); or
- 300.02 Is located in a [flood-prone area](#) with one hundred (100) acres of tributary [drainage area](#) or more; or
- 300.03 Is located in a [depressional storage area](#) with a storage volume of 0.75 acre-foot or more for the [base flood](#); or
- 300.04 Creates a [wetland impact](#) within an area defined as Waters of the U.S. or [Isolated Waters of Lake County](#); or
- 300.05 Modifies the [flood-prone area](#) of a [channel](#) where the tributary [drainage area](#) is twenty (20) or more acres; or
- 300.06 Includes the total land area of an [ownership parcel](#) that results in:
  - A. More than one (1) acre of new [impervious surface](#) area; or
  - B. More than three (3) acres of [hydrologically disturbed](#) area, unless the total new [impervious surface](#) area is less than one-half (0.5) acre; or
  - C. An [impervious surface](#) area ratio of fifty percent (50%) or greater, unless the total new impervious surface area is less than one-half (0.5) acre.

The term “new” in this article refers to [impervious surface](#) area created after the original effective date of this Ordinance (10/18/92). [Redevelopment](#) of previously developed sites shall maintain existing storage volume and shall not increase the rate of runoff from the site. The [applicant](#) shall provide supporting data and calculations to the satisfaction of the [Enforcement Officer](#) to ensure the site design either provides a [watershed benefit](#) or meets the requirements of 502.03. New development on partially developed sites shall meet the release rate criteria in 502.01 for the new development, if the new development exceeds the thresholds in 300.06A, or 300.06B, or 300.06C; or

- 300.07 Any [public road development](#) meeting both of the following criteria:
  - A. One and one-half (1.5) acres or more of new impervious surface; and
  - B. One and one-half (1.5) acres or more of new [impervious surface](#) per mile, for linear or nonlinear projects; or

- 300.08** Any [development](#) that hydrologically disturbs 5,000 square feet or more. This development activity shall at a minimum meet the soil [erosion](#) and sediment control performance standards of §600 Performance Standards, with associated application requirements. [Public road developments](#) are required to meet the soil erosion and sediment control standards only for those projects which require permits according to 300.01, 300.02, 300.03, 300.04, 300.05, and 300.07; or
- 300.09** Any activity to a building in a Special Flood Hazard Area (SFHA) as described in FEMA Publication 480 National Flood Insurance Program Flood Management Requirements.

### §301 Contiguous Property and Development Phasing

In order to preclude inappropriate phasing of [developments](#) to circumvent the intent of this Ordinance, when a proposed development activity will occur on a lot or parcel of land that has contiguous lots or parcels of lands owned in whole, or in part, by the same property owner at the time of subdivision subsequent to October 18, 1992, then the criteria as defined in this section will be applied to the total land area compiled from aggregate [ownership parcels](#). If this aggregate ownership parcel area is greater than the minimum area requirements defined in §300 Regulated Development, then a [Watershed Development Permit](#) will be required.

### §302 Exempted Development

All [development](#) shall meet the minimum state, federal, and local regulations. No development is exempt from the floodplain, floodway, [wetland](#), and soil [erosion](#) and sediment control provisions of this Ordinance.

An exemption request under 302.01, or 302.02, or 302.03 shall be submitted in writing by the applicant to the [Enforcement Officer](#) for an exemption from specific performance standards of this Ordinance. The applicant's exemption request shall itemize each Ordinance provision that is requested for exemption. After review and verification by the [Enforcement Officer](#) that 302.01, or 302.02, or 302.03 are met, the specific Ordinance provision exemptions may be granted.

- 302.01** Annexation agreements, final plats, site development permits or current building permits approved prior to October 18, 1992 if the [stormwater management systems](#) are installed, functioning, and in compliance with all applicable stormwater regulations then in effect.
- 302.02** Annexation agreements, final plats, Planned Unit Developments, site development permits, or current building permits approved between October 18, 1992 and April 13, 2021 if the approved plans and designs are in conformance with the pre-October 13, 2020 Ordinance provisions. That portion of any annexation agreement, final plat, Planned Unit Development, site development permit, or current building permit which is amended after April 13, 2021 and which affects the [stormwater management system](#) is not exempt from the provisions of this Ordinance.
- 302.03** Re-subdivision of commercial or industrial subdivisions identified under 302.01, provided that the [stormwater management systems](#) are installed and functioning and there is no increase in [impervious surface](#) area permitted. Re-subdivision of

commercial or industrial subdivisions identified under 302.02, provided there is no increase in impervious surface area beyond that which was originally approved.

### §303 Development Classification

All activities requiring a [Watershed Development Permit](#) shall be classified as a minor, major, or [public road development](#). The definition for each classification follows:

#### 303.01 Minor Development

A minor [development](#) is defined as any development that:

- A. Is not located in a [Regulatory Floodplain](#), or is located in a Regulatory Floodplain outside of the Regulatory Floodway, with no compensatory storage requirement; and
- B. Does not create a [wetland impact](#) to [Waters of the United States](#) or [Isolated Waters of Lake County](#) exceeding the isolated wetland impact mitigation thresholds in 1007.01; and
- C. Does not modify a [channel](#) where the tributary [drainage area](#) is greater than one hundred (100) acres, with no compensatory storage requirement; and
- D. Does not require detention per 502.01.

#### 303.02 Public Road Development

Any [development](#) activity which takes place in a public right-of-way or part thereof that is administered and funded, in whole or in part, by a public agency under its respective roadway jurisdiction. Rehabilitative maintenance and in-kind replacement are considered to be a [public road development](#) if located in a Regulatory Floodplain. A public road development located within a Regulatory Floodway and which has been approved by the Illinois Department of Transportation Division of Highways (IDOT/DOH), Bureau of Local Roads and Streets is exempt from the hydraulic analysis requirements of this Ordinance. Individual recreation trail systems being constructed that are not part of another development project and linear railroad development projects shall be considered public road developments with respect to the requirements of this Ordinance.

#### 303.03 Major Development

A major [development](#) is defined as all other development.

### §304 Conditional Approval

Conditional Approval for a [development](#) may be granted by the [Enforcement Officer](#) prior to the issuance of a Watershed Development Permit. The Conditional Approval will be based on conformance with applicable performance standards and submittal requirements of this Ordinance. A letter will be sent to the [applicant](#) stating the results of the review and the conditions placed on any approvals.

### §305 Earth Change Approval

If all applicable performance standards and application requirements of this Ordinance have been met, except for obtaining all the required local, state, and federal approvals, a request for the commencement of grading activities may be made for a development site prior to the issuance of a [Watershed Development](#)

Permit. The proposed grading activity may commence with written approval from the Enforcement Officer of the Earth Change Approval plan that delineates the activities specifically allowed including appropriate soil erosion and sediment control measures. The written approval will state the conditions and limitations of the proposed grading activities. No development activity may occur in areas for which state and federal permits are required, except for IEPA sewer and water extension permits. Earth Change Approvals may not be granted for any development within a Regulatory Floodplain, except for excavations outside of the Regulatory Floodway and which do not require an IDNR/OWR permit.

### **§306 Countywide and General Permits**

Under its authority and jurisdiction, the SMC Chief Engineer may, by issuance of a Countywide or General Permit, grant approval for specific types of development, which comply with all applicable -Ordinance standards and purpose (§102 Purpose). The specific types of development eligible for a Countywide or General Permit (e.g., Countywide Permit #1 and General Permit #2) may be authorized only after discussion at the Technical Advisory Committee, a minimum thirty (30) day public notice, and approval by the SMC in conjunction with a regularly scheduled SMC meeting.

### **§307 Permit Fees**

A schedule of fees in accordance with the provisions of this Ordinance shall be established by separate resolution of the SMC. A separate fee schedule shall be developed and implemented by Certified Communities.

### **§308 Application Review Times**

Permit applications shall be reviewed within thirty (30) days of receipt. Amended permit applications shall be reviewed within sixty (60) days of receipt. The Enforcement Officer shall approve, deny, or provide remedial recommendations within sixty (60) days. If no action has been taken by the Enforcement Officer within ninety (90) days after receipt of an application, or within a longer time period if requested in writing by the applicant, the application shall be deemed denied.

### **§309 Permit Extensions and Terminations**

Among the causes for terminating a permit during its term or for denying a permit extension include, but are not limited to, the following:

- 309.01** Noncompliance with any condition of the permit; or
- 309.02** The permittee's failure to disclose fully all relevant facts in the application process or the permittee's misrepresentation of any relevant facts at any time; or
- 309.03** If the authorized work is not commenced within three (3) years after issuance of the permit, or if the authorized work is suspended or abandoned for a period of twelve (12) months after the time of commencing the work, unless an extension has been granted in writing by the Enforcement Officer. The extension should be requested of the Enforcement Officer in writing no sooner than ninety (90) days prior to the termination of the permit; or
- 309.04** A permit that includes a structure located within the Regulatory Floodplain, or will be located within the Regulatory Floodplain, shall be terminated without the possibility

of an extension, if the start of construction is not commenced within 180 days of the permit issuance date unless the structure is compliant with the following:

- A. Any modification to National Flood Insurance Program regulations after permit issuance; or
- B. Any modification to a FEMA FIRM or FIS after permit issuance.

For the purposes of this subsection, “start of construction” means the commencement of any repair, reconstruction, rehabilitation, addition, or improvement of a structure; or the first placement of permanent construction of a structure on a site, such as the pouring of slab or footings, the installation of piles, the construction of columns, or any work beyond the stage of excavation; or the placement of a manufactured home on a foundation. Permanent construction does not include land preparation, such as clearing, grading, and filling; nor does it include the installation of streets and/or walkways; nor does it include excavation for a basement, footings, piers, or foundations or the erection of temporary forms; nor does it include the installation on the property of accessory buildings, such as garages or sheds not occupied as dwelling units or not part of the main structure.

## Article 4: Application Requirements

### §400 Minor Developments

The following application requirements shall be submitted when applicable to the development as determined by the Enforcement Officer.

- 400.01 A completed Watershed Development Permit application signed by the applicant or applicant's agent, and when required, a Professional Engineer and Certified Wetland Specialist.
- 400.02 A general description of the existing and proposed stormwater management system including all discharge points, collection, conveyance, and storage facilities.
- 400.03 A grading plan showing proposed and existing contours.
- 400.04 A site drainage plan which depicts drainage features, overland flow paths, stormwater management system components, flood-prone areas, Regulatory Floodplains, wetland boundaries, buffer areas, existing or proposed septic systems and wells. A capacity analysis of the above stormwater system components may be required by the Enforcement Officer.
- 400.05 An area drainage plan locating the proposed development in the watershed.
- 400.06 A description and depiction of measures to be taken to control erosion (soil erosion and sediment control plan).
- 400.07 A description of the anticipated dates of initiation and completion of activity.
- 400.08 Provide an exhibit(s) for review which displays all deed or plat restrictions of record or to be recorded for the stormwater management system.
- 400.09 The federal, state, and local permit requirements of 401.13 [NRI] and 401.14 [NOI] are required when applicable to the development site, and 401.09 [maintenance plan] and 401.10 [PE seal] shall be required when requested by the Enforcement Officer.
- 400.10 A wetland submittal if required under Article 10: Wetland Requirements of this Ordinance.
- 400.11 Performance Guarantees: As specified in Appendix E: Enforcement Officer Duties, Section E.
- 400.12 For permits required only in accordance with 300.09, documentation shall be submitted towards the determination of a substantial improvement. Other submittal requirements may be waived.

### §401 Major Developments

The following application requirements shall be submitted when applicable to the development as determined by the Enforcement Officer.

In addition to the requirements for minor developments, major development applications require the following information:

- 401.01 Name and legal address of the applicant, and common address of the location where the development will take place, mailing address of the property owner, and the signature of the applicant or the applicant's agent.

- 401.02** A topographic map of the existing conditions of the [development](#) site showing the location of all roads, all drainageways, the boundaries of predominate soil types, the boundaries of predominate vegetation, and the location of any drainage easements, detention or retention basins, including their inflow and outflow structures, if any. The map shall also include the location, size, and flowline elevations of all existing storm or combined sewers and other utility lines within the site. The map shall be prepared using a 2-foot or less contour interval and shall be prepared at an appropriate scale for the type of project and shall include specifications and dimensions of any proposed [channel modifications](#), location and orientation of cross-sections, if any, north arrow, and a graphic or numerical scale. All elevations shall be referenced to North American Vertical Datum of 1988 (NAVD 88), which supersedes the NGVD29 datum used prior to September 18, 2013.
- 401.03** Include cross-section views for the [stormwater management system](#) showing existing and proposed conditions including principal dimensions of the work, and existing and proposed elevations, normal water and calculated [base flood elevations](#), and overland flow depth and path. The elevations of [lowest floor](#) or [lowest adjacent grade](#) for [structures](#) shall be included on the [development](#) plan as applicable. Refer to 506.03, §706 Building Protection Requirements, and Article 9: Flood Table Land Requirements for elevation requirements of structures within or adjacent to flood-prone areas.
- 401.04** A vicinity map shall be included along with the [Parcel Identification Numbers](#) (PINs) of all parcels comprising the proposed [development](#).
- 401.05** A report describing the hydrologic and hydraulic analysis performed for the project. The report shall include the name of [stream](#) or body of water affected, a statement of purpose of proposed activity, and a detailed determination of the runoff for the project site under existing and developed conditions. This includes documentation of the design volumes and rates of the proposed runoff for each portion of the [watershed](#) tributary to the [stormwater management system](#) and receiving [channel](#) and high water elevations. Runoff calculations shall include all discharges entering the site from upstream areas.
- 401.06** A section in the hydrologic and hydraulic analysis report describing how the runoff volume reduction requirements (as described in §503 Runoff Volume Reduction (RVR)) are incorporated into the development site plan. The section shall include the rationale for not selecting approaches with higher preference. The section shall also provide supporting calculations for meeting the runoff volume reduction requirements.
- 401.07** For [detention facilities](#), a section in the hydrologic and hydraulic analysis report that includes a plot or tabulation of storage volumes and water surface areas with corresponding water surface elevations, stage-discharge or outlet rating curves, and design hydrographs of inflow and outflow for the 2-year, 24-hour and the 100-year, 24-hour storm events under existing and developed conditions.
- 401.08** A soil [erosion](#) and sediment control plan showing all measures appropriate for the [development](#), as approved by the [Enforcement Officer](#), to meet the objectives of this Ordinance throughout all phases of construction and permanently after completion of development of the site, including:

- A. Location and description, including standard details, of all sediment control measures and design specifics of sediment basins and traps, including outlet details. The drainage area tributary to each sediment control measure shall be delineated on the soil [erosion](#) and sediment control plan.
- B. Location and description of all soil stabilization and [erosion](#) control measures, including seeding mixtures and rates, types of sod, method of seedbed preparation, expected seeding dates, type and rate of lime and fertilizer application, kind and quantity of mulching for both temporary and permanent vegetative control measures, and types of non-vegetative stabilization measures.
- C. Location and description of all runoff control measures, including diversions, waterways, and outlets.
- D. Location and description of methods to prevent tracking of sediment off-site, including construction entrance details, as appropriate.
- E. Description of dust and traffic control measures.
- F. Locations of stockpiles and description of stabilization methods.
- G. Description of off-site fill or borrow volumes, locations, and methods of stabilization.
- H. Provisions for maintenance of control measures, including type and frequency of maintenance, easements, and estimates of the cost of maintenance.
- I. Identification (name, address, and telephone) of the person(s) or entity which will have legal responsibility for maintenance of [erosion](#) control structures and measures during [development](#) and after development is completed.
- J. A written narrative description of the proposed phasing (construction sequencing) of [development](#) of the site, including stripping and clearing, rough grading and construction, and final grading and landscaping. Phasing should identify the expected date on which clearing will begin, the estimated duration of exposure of cleared areas, and the sequence of installation of temporary sediment control measures (including perimeter controls), clearing and grading, installation of temporary soil stabilization measures, installation of storm drainage, paving streets and parking areas, final grading and the establishment of permanent vegetative cover, and the removal of temporary measures. It shall be the responsibility of the [applicant](#) to notify the [Enforcement Officer](#) of any significant changes which occur in the site development schedule after the initial soil [erosion](#) and sediment control plan has been approved.

**401.09**

A maintenance plan for the ongoing maintenance of all [stormwater management system](#) components, including [wetlands](#), is required prior to plan approval. The plan shall be referenced in the recorded deed or plat restriction document associated with the stormwater management system. The plan shall include:

- A. Maintenance tasks and the type and frequency of maintenance of all components of the stormwater management system, including existing and replaced [drain tiles](#) within the ownership parcel which are part of the stormwater management system.
- B. The party responsible for performing the maintenance tasks.

- C. A description of all permanent public or private access deed or plat restricted areas for all [stormwater management system](#) components for the [development](#).
- D. A description of dedicated sources of funding for the required maintenance.
- E. Measures to prohibit the dumping, depositing, dropping, throwing, discarding, or leaving of litter and construction material debris and all other [illicit discharges](#) into the [stormwater management system](#) and measures to be in continued compliance with IEPA NPDES Permit No. ILR40.

- 401.10** The Application form, development plans, and stormwater reports shall meet the requirements of this Ordinance and shall be signed and sealed by a [Registered Professional Engineer](#).
- 401.11** Public trail and park facility projects which do not involve the placement of structures or fill can be submitted without the certification or seal of a [Registered Professional Engineer](#).
- 401.12** A description of the anticipated dates of initiation and completion of activity.
- 401.13** A copy of the Natural Resources Inventory (NRI) shall be submitted by the [applicant](#) to the [Enforcement Officer](#) for [development](#) that is required to obtain a NRI performed by the McHenry-Lake County Soil and Water Conservation District pursuant to state statute [70 ILCS 405/22.02a].
- 401.14** For [development](#) sites requiring a National Pollutant Discharge Elimination System (NPDES) permit, the [applicant](#) shall submit a Notice of Intent (NOI) to the IEPA to comply with the NPDES Permit. The approved soil [erosion](#) and sediment control plan created pursuant to the requirements of this Ordinance shall fulfill the plan requirements in the NPDES permit.
- 401.15** If the soil mapping submitted for the [development](#) indicates the presence of soils classified as a [hydric soil](#) (USDA/NRCS Soil Classification), then the [applicant](#) shall provide site-specific soil mapping performed by a certified soil classifier or geotechnical investigation for the development. No [buildings](#) shall be constructed on these soils unless appropriate building methods, such as pilings, caissons, or removal and replacement of unsuitable soils, as approved by the [Enforcement Officer](#), are used to provide and protect a suitable building foundation.
- Development that is exempted from this requirement is any development activity not resulting in the construction of a building.
- 401.16** A copy of the consultation application to the Illinois Department of Natural Resources shall be submitted by the [applicant](#) to the [Enforcement Officer](#) for [development](#) that is required to comply with the consultation process of the Illinois Endangered Species Protection Act [520 ILCS 10/11] and the Illinois Natural Areas Preservation Act [525 ILCS 30/17].
- 401.17** Subsurface Drainage (Drain Tiles)
- The [applicant](#) shall submit a subsurface drainage inventory. The inventory shall include locations of existing farm and storm drainage tiles by means of slit trenching and other appropriate methods performed by a qualified subsurface drainage consultant. All existing drain tile lines damaged during the investigation shall be repaired to their previous working status.

- A. The [applicant](#) shall provide a topographical map of the [development](#) site showing:
1. Location of and depth of each slit trench and identified to correspond with the tile investigation report and surveyed points where the tile was field staked at approximately 50-foot intervals; and
  2. Location of each drain tile with a flow direction arrow, tile size, and any connection to adjoining properties; and
  3. A summary of the tile investigation report showing trench identification number, tile size, material and quality, percentage of the tile filled with water, percentage of restrictions caused by silting, depth of ground cover, and working status; and
  4. Name, address, and phone number of person or firm conducting tile location investigation.
- B. Information collected during the Subsurface Drainage Inventory shall be used as part of the design and construction of a [stormwater management system](#) that meets the requirements of this Ordinance.

**401.18** A [wetland](#) submittal if required under Article 10: Wetland Requirements of this Ordinance.

**401.19** A copy of the building plans and cost estimate in accordance with FEMA NFIP standards shall be submitted for modifications to existing structures in the Regulatory Floodplain.

## §402 Public Road Developments

The following application requirements shall be submitted when applicable to the development as determined by the Enforcement Officer:

**402.01** A copy of any applicable [IDNR/OWR](#) permit application.

**402.02** A copy of any applicable U.S. Army Corps of Engineers permit application.

**402.03** A copy of the proposed stormwater management system, including the location and size of all existing and proposed drainage improvements including plan, section, and profile views of storm sewers, field tiles, culverts, [channels](#), and detention areas.

**402.04** A copy of all calculations supporting the [stormwater management system](#). Materials should be consistent with the submittal requirements of 401.05 and the engineering requirements of Article 5: General Performance Standards.

**402.05** A soil [erosion](#) and sediment control plan consistent with §600 Performance Standards and §601 Designated Erosion Control Inspector Program Standards.

**402.06** A wetland determination report and mitigation plan consistent with Article 10: Wetland Requirements, if applicable.

**§403 IDNR/OWR Dam Safety Permit**

The following application requirements shall be submitted when applicable to the development, as determined by the Enforcement Officer:

- 403.01** The [applicant](#) shall obtain and provide a copy of an IDNR/OWR Dam Safety Permit or a letter stating that a Dam Safety Permit is not required if the [development](#) includes a [dam](#) before the applicant requests or obtains a [Watershed Development Permit](#). Reference Appendix G: IDNR/OWR Dam Safety Permitting Guidelines.

**§404 As-Built Drawings**

- 404.01** [As-built drawings](#), signed and sealed by a Professional Engineer, shall be required for all major developments, public road developments, and other types of development as determined by the Enforcement Officer (such as those developments that affect stormwater runoff rates or volume, impact wetlands or wetland buffers, or are adjacent to floodplains).

- 404.02** [As-built drawings](#) and supporting information shall clearly show all as-built conditions, including, but not limited to:

- A. Topographic spot elevations and contours for overland flow paths, detention ponds, storage facilities, and building pads.
- B. Detention pond restrictor size, invert elevation, emergency overflow size, and elevation.
- C. Verification of required native vegetation planted (seed tags, invoices).
- D. Storm sewer sizes, inverts.
- E. [Drain tile](#) information provided from the Subsurface Drainage Inventory, or identified during construction as follows: location, connection, size, material, and inverts for those drain tiles that are part of the stormwater management system.
- F. Other information required under this Ordinance.
- G. Applicable calculations or other information verifying conformance with the permitted plan set.
- H. Lowest floor and low opening elevations of structures. Low opening sizes where vents are required.
- I. Benchmark information.

## Article 5: General Performance Standards

The following performance standards apply to [development](#) requiring a permit.

### §500 Platting, Approvals, and Development Process

- 500.01** The requirements and performance standards of this Ordinance shall be considered for all [development](#) in site planning and appropriately addressed in the drainage plan component of subdivisions, annexation agreements, preliminary plats, final plats, re-plats, [manufactured home](#) parks, and Planned Unit Developments (PUD).
- 500.02** In addressing §503 Runoff Volume Reduction (RVR), streets, blocks, lots, deed or plat restricted areas, parks, and other public grounds shall be located in such a manner as to preserve and utilize [natural](#) streams, [wetlands](#), [flood-prone areas](#), and best management practices and undisturbed native soil/plant areas utilized to meet the runoff volume reduction requirements.
- 500.03** Subdivisions, annexation agreements, plats, re-plats, manufactured home parks, and PUDs shall show the [base flood elevation](#) (BFE) and [Regulatory Floodway](#) limits. The plats, re-plats, manufactured home parks, PUDs, or engineering plans and studies shall include a signed statement by a [Registered Professional Engineer](#) that accounts for changes in the drainage of surface waters in accordance with the Plat Act [765 ILCS 205/2].
- 500.04** All plats and subdivisions which border on or include public bodies of water as defined by [IDNR/OWR](#) and listed in Appendix F: Public Bodies of Water in Lake County of this Ordinance shall be submitted by the [applicant](#) to IDNR/OWR for review and approval.
- 500.05** A [community's](#) planning commission or corporate authority shall not approve any preliminary PUD or Plat of Subdivision located inside or outside its corporate limits unless such PUD or Plat is, at a minimum, subject to meeting the performance standards of the Lake County Watershed Development Ordinance.
- 500.06** A [community's](#) planning commission or corporate authority shall not approve any final PUD or Plat of Subdivision located inside or outside its corporate limits unless such PUD or Plat, at a minimum, meets the performance standards of the Lake County Watershed Development Ordinance.
- 500.07** Pursuant to state law, a property owner of a parcel being subdivided adjacent to a state or county road right-of-way shall notify the proper highway authority in writing of the proposed subdivision, and request that the proper highway authority provide, at the cost of the highway authority or otherwise provided by law, the amount of additional capacity in any stormwater [detention facility](#) to be constructed in the subdivision for the future availability of the highway authority for meeting stormwater detention requirements of any future public construction on the highway.
- 500.08** All [stormwater management systems](#) within the ownership parcel shall be located and described within a [deed or plat restriction](#). Stormwater management systems that service a single parcel of property may be excused from this requirement upon approval of the [Enforcement Officer](#).
- 500.09** Modifications to a [deed or plat restriction](#) for the [stormwater management system](#) shall be approved by the [Enforcement Officer](#).

- 500.10** Soil [erosion](#) and sediment control measures and [stormwater management systems](#) shall be functional before general construction begins. Where [development](#) of a site is to proceed in phases, the soil erosion and sediment control measures and the stormwater management systems needed for each phase shall be functional before the construction of that phase begins.
- 500.11** Stormwater management systems shall be functional before building permits are issued for residential and non-residential [developments](#).

## §501 Runoff Calculations

- 501.01** For tributary [drainage areas](#) one hundred (100) acres or greater, and for the determination of detention and depressional storage requirements, an SMC-approved hydrograph-producing runoff calculation method shall be used. Appendix K: Detention Volume Versus Curve Number of this Ordinance may also be used, when appropriate and upon approval of the [Enforcement Officer](#), for determination of detention storage volumes.
- 501.02** The Rational Method may be used to calculate discharges for areas of less than one hundred (100) acres. The Rational Method shall not be used to determine detention or depressional storage requirements.
- 501.03** Rainfall data as presented in Appendix I: Rainfall Depth Duration Frequency Tables for Lake County of this Ordinance shall be used for rainfall volume, storm distribution, return frequency, and event duration.
- 501.04** Runoff calculations for all off-site [drainage areas](#) may be based on anticipated future land use conditions or existing land use conditions. Anticipated future land use conditions will be based on future land use and existing storage facilities. Future [detention facilities](#) may be used for anticipated future land use conditions if approved by the [SMC Chief Engineer](#) or for tributary drainage areas less than 100 acres in a [Certified Community](#), the [Enforcement Officer](#). Existing land use conditions will be based on existing land use and existing storage facilities. For each frequency storm event, runoff calculations will be based on the critical duration, for all durations presented in Appendix I: Rainfall Depth Duration Frequency Tables for Lake County.
- 501.05** Existing depressional storage volume shall be maintained, and the volume of detention storage provided to meet the requirements of this Ordinance shall be in addition to the existing storage.
- 501.06** For determination of soil runoff characteristics, areas of the development that are hydrologically disturbed and compacted shall be changed to the next higher hydrologic soil group classification e.g., B to C, C to D, or as approved by the Enforcement Officer. Soil groups that are not hydrologically disturbed will retain their current runoff characteristics.
- 501.07** Areas that are deed or plat restricted for native planting areas may be determined to have lower runoff characteristics, and may be taken into account when meeting the runoff volume reduction requirements of this Ordinance (503.02). The Enforcement Officer may determine these areas can be excluded from the required detention volume calculation.

## §502 Release Rates and Discharges

- 502.01** Unless otherwise specified in Appendix J: Watershed Specific Release Rates, an SMC-adopted [basin plan](#) or [floodplain study](#), the detention volume required shall be calculated using a rating curve based on maximum release rates of 0.04 cubic feet per second per acre for the 2-year, 24-hour storm event and 0.15 cubic feet per second per acre for the 100-year, 24-hour storm event. The release rate requirement shall apply to the [hydrologically disturbed](#) area of the [ownership parcel](#) unless the [Enforcement Officer](#) determines that specific locations of the [ownership parcel](#) have unique circumstances such that the release rate shall apply to a broader or smaller area. The release rate requirements shall only apply to [developments](#) listed in 300.06 and 300.07.
- 502.02** Watershed specific release rates are tabulated in Appendix J: Watershed Specific Release Rates of this Ordinance.
- 502.03** All concentrated stormwater discharges must be conveyed into a [maintainable outlet](#) with [adequate downstream stormwater capacity](#) (as defined in Appendix A: Definitions) and will not result in increased [flood](#) and drainage hazard.
- 502.04** The design of [stormwater management systems](#) shall not result in the inter-basin transfer of drainage, unless no reasonable alternative exists. The [Enforcement Officer](#) may also allow inter-basin transfer if the transfer relieves a known drainage hazard and there is [adequate downstream stormwater capacity](#).
- 502.05** The combined release from the [detention facility](#) outlet and the outlet designed to meet [wetland](#) hydrology requirements of §1006 Wetland Hydrology for Isolated Waters of Lake County shall not exceed either the 2- or 100-year allowable release rates, respectively. The wetland hydrology requirement or minimum outlet restrictor size may take precedence over the allowable release rate, provided there is adequate downstream capacity as determined by the [Enforcement Officer](#).
- 502.06** The [applicant](#) shall prohibit [illicit discharges](#) generated during the [development](#) process from entering into the [stormwater management system](#). Discharges of stormwater from a development site shall be in conformance with the Soil Erosion and Sediment Control practices contained in Article 6: Soil Erosion and Sediment Control Requirements of this Ordinance.
- 502.07** The performance standards of this Ordinance shall apply to all [public road developments](#). The release rate performance standard of §502 Release Rates and Discharges shall apply only to additional [impervious surface](#) areas or in the case of new road construction, the [hydrologically disturbed](#) areas. This release rate requirement shall be used unless [watershed](#) specific release rates have been adopted or it is determined by the [Enforcement Officer](#) that other site conditions, including analysis of adequate downstream capacity, warrant further analysis and modification from this standard. Detention requirements shall be applied only to those projects described in 300.07.

## §503 Runoff Volume Reduction (RVR)

- 503.01** An [applicant](#) shall choose strategies that minimize stormwater runoff volumes and address water quality impairments. The site development plan shall incorporate stormwater infiltration, evapotranspiration, reuse, or other methods into the project. The applicant shall use appropriate [green infrastructure](#) techniques and best

management practices to reduce runoff volume according to the following hierarchy, in order of preference, in preparing a stormwater management plan:

- A. Preservation and enhancement of the stormwater management benefits of the [natural](#) resource features of the development site (e.g., areas of Hydrologic Soil Groups A and B, floodplains, Waters of the United States, [Isolated Waters of Lake County](#), channels, drainageways, prairies, savannas, and woodlands);
- B. Minimization or disconnection of impervious surfaces;
- C. Enhancement of the infiltration and storage characteristics of the development site using appropriate best management practices;
- D. The use of open [channels](#) with native vegetation to convey stormwater runoff;
- E. Structural measures that provide water quality and volume reduction;
- F. Structural measures that provide only volume reduction or other rainwater harvesting practices;
- G. Measures that provide water quality and quantity control;
- H. Measures that provide only quantity control.

#### **503.02** Runoff Volume Reduction (RVR) Quantitative Standard

The minimum RVR quantitative standard shall be the volume achieved utilizing applicable RVR Credits, as determined by the applicant and approved by the Enforcement Officer, based on the [maximum extent practicable](#), for the following development. The term “new” for the RVR Quantitative Standard refers to impervious surface area created after April 1, 2009.

Minor and Major Development that result in at least one (1) acre hydrologic disturbance and more than one-half (0.5) acre of new impervious surface area;

Redevelopment of previously developed sites that result in at least one (1) acre hydrologic disturbance;

Public Road Development that meet or exceed the thresholds in 300.07.

- A. RVR Implementation Criteria
  1. Runoff volume reduction quantity shall be implemented with appropriate methods, as approved by the Enforcement Officer, which may include the following: Best management practices; [green infrastructure](#); detention facilities; and preservation or enhancement of natural streams, wetlands, and areas with deed restricted native vegetation.
  2. Best management practices, and the portion of the detention facility designed to meet this provision, shall be designed to dewater the RVR quantity in no greater than 96 hours. The applicant shall provide infiltration rate information for each RVR practice. The use of an underdrain system may be incorporated into the design in order to achieve the required draw down time. Underdrain systems shall be designed to dewater the RVR quantity in not less than 48 hours.

## B. RVR Credits

The following credits may be used alone or in combination to meet the RVR quantity requirement:

1. Detention Facility Credit – Up to 50% of the RVR quantity may be provided within the portion of the detention facilities that have been designed to meet this standard. The volume provided to meet this provision shall be below the elevation of the primary outlet for the RVR portion of the facility.
2. Native Vegetation Cover Credit – Up to 100% of the reduced 2-year, 24-hour runoff volume achieved with native vegetation in deed or plat restricted areas (e.g., compensatory storage and buffer areas) as described in Soil Runoff Characteristics (501.06) and Streams and Channels (506.02).
3. Isolated Wetland Hydrology Credit – A maximum of 100% of the existing 2-year, 24-hour runoff volume to a preserved IWLC if the Wetland Hydrology (§1006 Wetland Hydrology for Isolated Waters of Lake County) and Water Quality Treatment (§504 Water Quality Treatment) requirements are met.
4. Water Quality Treatment Credit – Up to 100% of the volume utilized to meet the Water Quality Treatment Volume (§504 Water Quality Treatment).
5. Off-Site RVR Credit – RVR practices may be provided on off-site, localized properties that are within the same basin. Deed or plat restrictions shall be obtained and recorded on off-site properties to assure perpetual operation and maintenance of RVR facilities.
6. Best Management Practice and Green Infrastructure Credits – Up to 100% of the volume within the practices designed to meet this standard.

## §504 Water Quality Treatment

Water quality treatment standards can be achieved by combining the runoff volume reduction requirements in §503 Runoff Volume Reduction (RVR), the Stormwater Quality Runoff Standards in §602 Stormwater Quality Runoff Standards, and the following requirements:

- 504.01** The water quality treatment requirements in 504.02, 504.03, and 504.04 apply to developments that result in at least one-half (0.5) acre of new impervious surface area, where “new” is defined in 300.06 of this Ordinance. The volume of runoff kept on-site to meet the runoff volume reduction requirements of this Ordinance (503.02) may be deducted from the required water quality treatment volume.
- 504.02** Prior to discharging to [Waters of the United States](#), [Isolated Waters of Lake County](#), or adjoining property, the [development](#) shall divert and detain at least the first 0.01 inch of runoff for every 1% of [impervious surface](#) for the development with a minimum volume equal to 0.2 inch of runoff (e.g., 20% or less impervious = 0.2-inch, 50% impervious = 0.5-inch, 90% impervious = 0.9-inch); or provide an equivalent level of treatment of runoff as approved by the [Enforcement Officer](#) and consistent with best management practices.
- 504.03** A [buffer](#) shall be established between design normal and high water levels around [stormwater management](#) facilities constructed for water quality treatment to enhance treatment effectiveness. The buffer area planting plan shall use the

Native Plant Guide for Streams and Stormwater Facilities in Northeastern Illinois, NRCS, et al., (as amended) as a minimum standard.

**504.04** Hydrocarbon (e.g., oil and grease) removal technology shall be required using a volume of one-half (0.5) inch of runoff for the new impervious surface tributary area to each treatment device and meeting a minimum 70% removal rate for development classified as follows:

- A. Vehicle fueling and servicing facilities;
- B. Parking lots with more than twenty-five (25) new stalls.

## §505 Buffer Areas

**505.01** Buffer areas shall be required for all areas defined as either Waters of the United States or Isolated Waters of Lake County. Buffer areas are divided into two types, linear buffers and water body buffers.

Waters of the United States is a defined term (Appendix A: Definitions) in this Ordinance and refers to areas that are under the jurisdictional authority and regulated by the United States Army Corps of Engineers. Isolated Waters of Lake County are under the jurisdictional authority of this Ordinance and is a defined term in Appendix A: Definitions.

- A. Linear buffers shall be designated along both sides of all channels meeting the definition of Waters of the United States or Isolated Waters of Lake County. The buffer width shall be determined as follows:
  - 1. When the channel has a watershed greater than twenty (20) acres but less than one (1) square mile, the minimum buffer shall be fifty (50) feet on each side of the channel.
  - 2. When the channel has a watershed greater than one (1) square mile, the minimum buffer shall be thirty (30) feet on each side of the channel.
  - 3. Linear high-quality aquatic resources and streams with an Index of Biotic Integrity (IBI) greater than forty (40) shall have a minimum buffer width of one hundred (100) feet on each side of the channel. (Initial IBI based on IEPA Illinois Water Quality Report, biannual. A site-specific IBI assessment may override this report.)
- B. Water body buffers shall encompass all non-linear bodies of water meeting the definition of either Waters of the United States or Isolated Waters of Lake County. The buffer width shall be determined as follows:
  - 1. For all water bodies or wetlands with a total surface area greater than one-third (1/3) acre but less than one (1) acre, a minimum buffer width of thirty (30) feet shall be established.
  - 2. For all water bodies or wetlands with a total surface area greater than or equal to one (1) acre but less than two and one-half (2.5) acres, a minimum buffer width of forty (40) feet shall be established.
  - 3. For all water bodies or wetlands with a total surface area greater than or equal to two and one-half (2.5) acres, a minimum buffer width of fifty (50) feet shall be established.

- 505.02** Non-linear high-quality aquatic resources shall have a minimum buffer width of one hundred (100) feet.
- 505.03** In areas where state or federal threatened and endangered species are present or for an Illinois Natural Area Inventory Site, buffer widths may be modified upon approval of the Enforcement Officer. Any modification requires approval by the Enforcement Officer following consultation with the Illinois Department of Natural Resources or United States Fish and Wildlife Service.
- 505.04** Buffer areas for water bodies meeting the definition of Waters of the United States or Isolated Waters of Lake County shall extend from the ordinary high water mark. Buffer areas for wetlands shall extend from the edge of the delineated wetland. A property may contain a buffer area that originates from Waters of the United States or Isolated Waters of Lake County on another property.
- 505.05** Features of the stormwater management system approved by SMC or Certified Community may be within the buffer area of a development.
- 505.06** Access through buffer areas shall be provided, when necessary, for maintenance purposes.
- 505.07** All roadside drainage ditches, existing excavated detention facilities (as of the amended date of this Ordinance, August 10, 1999), borrow pits, quarries, and improvements to existing public road developments or alignments are exempt from buffer requirements.
- 505.08** Stormwater discharges that enter a buffer shall have appropriate energy dissipation measures to prevent erosion and scour.
- 505.09** All buffer areas shall be maintained free from development including disturbance of the soil, dumping or filling, erection of structures, and placement of impervious surfaces except as follows:
- A. A buffer area may be used for passive recreation (e.g., bird watching, walking, jogging, bicycling, horseback riding, and picnicking) and it may contain pedestrian, bicycle, or equestrian trails.
  - B. Structures and impervious surfaces (including trails, paths) may occupy a maximum of twenty percent (20%) of the buffer surface area provided the runoff from such facilities is diverted away from the Waters of the United States or Isolated Waters of Lake County or such runoff is directed to enter the buffer area as unconcentrated flow.
  - C. Utility maintenance, construction of stormwater facilities, and maintenance of stormwater facilities shall be allowed.
  - D. Boat docks, boathouses, and piers shall be allowed and the provisions of 505.09B shall apply.
  - E. Buffer areas hydrologically disturbed by allowing construction or as part of a revegetation plan shall be revegetated using the Native Plant Guide for Streams and Stormwater Facilities in Northeastern Illinois, NRCS, et al., (as amended) as a minimum standard.
- 505.10** A minimum of a one-foot temporary construction buffer from the limits of the Waters of the United States or Isolated Waters of Lake County shall be required unless the adjacent wetland is considered impacted or enhanced. The one-foot temporary

construction buffer shall be marked by construction fencing (IDOT Standard) and installed prior to the start of all other construction activities. All other construction activities, including soil [erosion](#) and sediment control features, shall take place on the non-wetland side of the construction fencing.

#### 505.11 Buffer Averaging

The [buffer](#) width for a [development](#) site may be varied to a minimum of one-half (0.5) of the buffer width required, upon approval of the [Enforcement Officer](#), provided that the total buffer area required is achieved adjacent to the [Waters of the United States](#) or [Isolated Waters of Lake County](#) being buffered. The consultation process of the IDNR or U.S. Fish & Wildlife Service may override the ability to average buffer areas upon approval of the Enforcement Officer.

505.12 Preservation of [buffer](#) areas shall be provided by [deed or plat restrictions](#).

505.13 The [buffer](#) area of a [development](#) site may be subtracted from the water quality volume required.

## §506 Stormwater Conveyance Systems

### 506.01 Storm Sewers and Swales

- A. The 10-year [design storm](#) shall be used as a minimum for the design of storm sewers, [swales](#), and appurtenances. Storm sewers shall have a minimum diameter of twelve (12) inches with the exception that storm sewers servicing a single parcel may be excused from this requirement upon approval of the [Enforcement Officer](#). Storm sewer design analysis shall be calculated under full flow conditions, unless prior approval from the Enforcement Officer is received for an alternate flow condition (e.g., pressure flow).
- B. [Development](#) shall not connect to sanitary sewers as an outflow for the [stormwater management system](#).
- C. For agricultural [drain tiles](#) (tiles) the following provisions shall apply:
  1. Field tile systems disturbed during the process of [development](#) shall be reconnected by those responsible for their disturbance unless the approved drainage plan includes provisions for these.
  2. Observation structures, or similar maintenance and inspection access structures, shall be installed within the development at suitable points of ingress or egress.
  3. The [applicant](#) shall notify adjoining downstream property owners in writing of any proposed stormwater facility outlet location and design. The development design shall utilize, where practical and approved by the [Enforcement Officer](#), outflow locations that have an existing tile leaving the development site. A subsurface connection to the tile shall be constructed as a low flow outlet. A surface outlet shall be designed for the development site outflows based on the assumption the downstream tile will cease to function.
  4. Drain tiles within the disturbed portions of the ownership parcel shall be replaced or intercepted and connected into the proposed stormwater management system or a bypass. The system or bypass shall be of an equivalent size.

5. Drain tiles located within an ownership parcel may be removed or disabled provided that a [maintainable outlet](#) exists or is installed to prevent flood damages to off-site properties.
  6. If the development stormwater management system depends on existing drain tiles for stormwater conveyance or water surface elevation control, a [maintainable outlet](#) is required.
  7. The locations for existing drain tiles within the ownership parcel shall be defined using the Subsurface Drainage Inventory. Recorded deed or plat restrictions shall be provided for all existing and replaced drain tiles within the ownership parcel which are part of the stormwater management system. Drain tiles that service a single parcel of property may be excused from this requirement upon approval of the Enforcement Officer.
  8. The maintenance plan per 401.09 shall include the type and frequency of maintenance for all existing and replaced drain tiles within the ownership parcel which are part of the stormwater management system.
- D. All storm sewers shall be located in a public road right-of-way or maintenance easement of sufficient size to maintain or re-construct the sewer.
- E. All on-site stormwater conveyance systems shall be designed and constructed to withstand the expected velocity of flow from all events up to the [base flood](#) without [erosion](#). Stabilization adequate to prevent erosion shall be provided at the inlets and outlets for all pipes, transitions, and paved [channels](#).
- F. Swales being used as part of the [stormwater management system](#) for a [development](#) shall be located within a deed or plat restricted area of sufficient size to maintain or reconstruct the [swale](#).
- G. Surface outflows onto adjoining properties shall be designed to release as sheet flow using level spreader trenches unless alternative designs are approved by the [Enforcement Officer](#).

#### 506.02 Streams and Channels

The following items are general performance standards for streams and [channels](#) and do not excuse [development](#) from meeting all other requirements of this Ordinance.

- A. [Natural](#) streams and [channels](#) are to be conserved.
- B. Removal of streamside (riparian) vegetation shall be limited to one side of the [channel](#).
- C. Clearing of [channel](#) vegetation shall be limited to that which is essential for construction of the channel.
- D. If a [stream](#) or [channel](#) meeting the definition of [Waters of the United States](#) or [Isolated Waters of Lake County](#) is modified, a stream or channel [mitigation](#) plan shall be submitted for review and approval to the [Enforcement Officer](#). The plan shall show how the physical characteristics of the modified channel shall meet the existing channel length, cross-section, slope, sinuosity, and carrying capacity of the original channel. The plan shall also re-establish vegetation within the [channel modification](#) using the [Native Plant Guide for Streams and](#)

Stormwater Facilities in Northeastern Illinois, NRCS, et al., (as amended) as a minimum standard for the re-vegetation plan.

- E. All disturbed areas associated with a channel modification shall be seeded or otherwise stabilized immediately according to 600.04.
- F. If channels are modified, an approved and effective means to reduce sedimentation and degradation of downstream water quality must be installed before excavation begins and must be maintained throughout the construction period.
- G. New or relocated channels shall be built in the dry and all items of construction, including vegetation, shall be completed prior to diversion of water into the new channel.
- H. Streams and channels shall be expected to withstand all events up to the base flood without increased erosion. The use of armoring of banks using bulkheads, rip-rap, and other materials shall be avoided. Armoring shall only be used where erosion cannot be prevented in any other way such as use of vegetation or gradual slopes. Such armoring shall have minimal impact on other properties and the existing land configuration.
- I. A minimum maintenance easement of twelve (12) feet from top of bank is required along one side of all channels draining twenty (20) or more acres. All drainage easements shall be accessible to vehicular equipment; however, linear accessibility for vehicular equipment is not required.
- J. Construction vehicles shall cross streams by the means of existing bridges or culverts. Where an existing crossing is not available, a temporary crossing shall be constructed in which:
  - 1. The approach roads will be one-half (0.5) foot or less above natural grade.
  - 2. The crossing will allow stream flow to pass without backing up the water above the stream bank vegetation line or above any drainage tile or outfall.
  - 3. The top of the roadway fill in the channel will be at least two (2) feet below the top of the lowest bank. Any fill in the channel shall be non-erosive material, such as rip-rap or gravel.
  - 4. All disturbed stream banks will be seeded or otherwise stabilized as soon as possible in accordance with 600.04 upon installation and again upon removal of construction crossings.
  - 5. The access road and temporary crossings will be removed within one (1) year after installation, unless an extension of time is granted by the Enforcement Officer.

### 506.03 Overland Flow Paths

The following items are general performance standards for overland flow paths and do not excuse development from meeting all other requirements of this Ordinance.

- A. All areas of development must be provided with an overland flow path that will pass the base flood flow without damage to structures or property. If the upstream drainage area is less than twenty (20) acres, the storm sewer pipe

and inlet systems sized for the base flood can be constructed in lieu of providing an overland flow path.

- B. The flow rate for a base flood shall be used to establish overland flow path limits, and it shall include all on-site and off-site tributary areas in accordance with §501 Runoff Calculations.
- C. The overland flow path shall be protected from any activity, such as fencing, landscaping, or storage shed placement, which could impair its function. This protection shall be established through a deed or plat restriction.
- D. For overland flow paths with less than twenty (20) acres tributary drainage area, all structures in parcels containing or adjoining to an overland flow path or other high water level designation shall have a lowest adjacent grade a minimum of one-half (0.5) foot above the design high water elevation.
- E. For overland flow paths with greater than or equal to twenty (20) acres tributary drainage area but less than one hundred (100) acres, all structures in parcels containing or adjoining to an overland flow path or other high water level designation shall have a lowest adjacent grade a minimum of one (1) foot above the design high water elevation.

## §507 Stormwater Facilities

**507.01** All stormwater facilities, when determined applicable by the Enforcement Officer, shall be provided with:

- A. An emergency overflow structure capable of passing the critical duration base flood inflow rate without damages to downstream structures or property.
- B. The top of the impounding structure shall be a minimum of one (1) foot above the design high water level within the emergency overflow structure based on 507.01A.
- C. A minimum 8-foot wide safety shelf with a maximum depth of three (3) feet below normal water level sloped back towards the shoreline.
- D. Features for maintenance and emergency ingress and egress capability.

**507.02** All parcels within the established flood table land's elevation criteria of a detention facility design high water level shall be protected from flooding as follows:

- A. For detention facilities with less than one hundred (100) acres of tributary area, all structures in parcels containing or adjoining the facility shall have a lowest adjacent grade a minimum of one (1) foot above the design high water elevation within the emergency overflow structure.
- B. For detention facilities with greater than or equal to one hundred (100) acres of tributary area, all structures in parcels containing or adjoining the facility shall meet the requirements of §705 Public Health Protection Standards, 706.01A, 706.02A, 706.03, and 706.04 of this Ordinance at an elevation two (2) feet above the design high water elevation within the emergency overflow structure. New residential structures may have the lowest floor below this elevation if structurally dry flood-proofed to at least two (2) feet above the design highwater elevation within the emergency overflow structure.

- 507.03** Single pipe outlets shall have a minimum inside diameter of twelve (12) inches. If design release rates call for smaller outlet, a design that minimizes the possibility of clogging shall be used. Minimum outlet restrictor size shall be four (4) inches in diameter provided there is adequate downstream capacity. Detention volume and corresponding high water level required for a [development](#) shall be determined by using the appropriate release rates specified in §502 Release Rates and Discharges, regardless of a minimum outlet restrictor size.
- 507.04** Stormwater infiltration, retention, and [detention facilities](#) required to meet a [development's](#) discharge requirements shall be designed to [by-pass](#) off-site tributary flow from streams and [channels](#) unless approved by the [Enforcement Officer](#).
- 507.05** Any [development](#) involving the construction, modification, or removal of a [dam](#) as defined in Appendix A: Definitions per 17 Ill Adm. Code Part 3702 (Rules for Construction of Dams) shall obtain an IDNR/OWR Dam Safety Permit or a letter stating no permit is required prior to the start of such activity. Reference Appendix G: IDNR/OWR Dam Safety Permitting Guidelines.
- 507.06** Stormwater retention and [detention facilities](#) shall not be constructed in a [Regulatory Floodplain](#) unless approved by the [Enforcement Officer](#). If a retention or detention facility is constructed in a Regulatory Floodplain, the [development](#) must meet the requirements of Article 7: Regulatory Floodplain and Floodway Requirements, of this Ordinance.
- 507.07** The placement of a detention basin in a floodplain area shall require [compensatory storage](#) per §704 Compensatory Storage Performance Standards. The volume of detention storage required to meet the standards of this Ordinance shall be in addition to the floodplain compensatory storage required for the [development](#).
- 507.08** Impounding berms or walls for stormwater retention and [detention facilities](#) shall be designed and constructed to withstand all expected forces, including, but not limited to, [erosion](#), pressure, and uplift. The [applicant](#) shall submit material and compaction design specifications for earthen impoundments and provide as-built information verifying that the constructed condition meets the design requirements. Impounding berms or walls shall be represented on the design plans and signed and sealed by a [Registered Professional Engineer or Structural Engineer](#).

## §508 On-Stream Detention

- 508.01** All [on-stream detention](#) shall provide a [Detention Volume Safety Factor](#) as follows:
- A. The Detention Volume Safety Factor applies to the volume of [on-stream detention](#) necessary to meet this Ordinance's site requirements.
  - B. The Detention Volume Safety Factor is equal to one (1) plus 0.05 times the ratio of off-site tributary [drainage area](#) to on-site tributary drainage area.
  - C. The maximum Detention Volume Safety Factor shall be 1.5.
- 508.02** No [on-stream detention](#) shall be allowed with an off-site to on-site tributary [drainage area](#) ratio greater than 10:1 except for [development](#) providing a [watershed](#) benefit.
- 508.03** [On-stream detention](#) shall not be permissible if the tributary [drainage area](#) is greater than 640 acres except for detention that provides a [watershed](#) benefit.

- 508.04** The release rate shall be 0.04 cubic feet per second per acre of the total tributary drainage area (on-site and off-site) at the elevation created by impoundment of the on-site 2-year storm volume plus the Detention Volume Safety Factor, and 0.15 cubic feet per second per acre of the total tributary drainage area (on-site and off-site) at the elevation created by impoundment of the on-site 100-year storm volume plus the Detention Volume Safety Factor and the required compensatory storage. The release rate and on-site detention volume shall be calculated using the 24-hour storm event. This release rate calculation shall be used unless other site conditions warrant further analysis and modification from this standard or unless watershed specific release rates have been adopted.
- 508.05** On-stream detention shall provide water quality treatment. One of the following two methods shall be used:
- A. A wet detention facility with a minimum permanent pool volume equal to the calculated sediment volume accumulated over a one-year period for the entire upstream watershed and an average normal water depth of at least four (4) feet. The facility shall also have a live storage volume that, at a minimum, equals the water quality treatment standards of §504 Water Quality Treatment of this Ordinance for the development site.
  - B. A separate off-line sediment basin with a volume meeting the water quality treatment standards of §504 Water Quality Treatment of this Ordinance for the tributary drainage area to the sediment basin.
- 508.06** Impoundment of the stream as part of on-stream detention shall be designed to allow the migration and movement of present or potentially present indigenous species, which require access to upstream areas as part of their life cycle. The impoundment shall not cause or contribute to the degradation of water quality or stream aquatic habitat.
- 508.07** Compensatory storage requirements shall be satisfied and shall be in addition to detention volume requirements.
- 508.08** No on-stream detention shall be allowed in areas designated as a high-quality aquatic resource.

## **§509 Fee-In-Lieu of On-Site Stormwater Storage**

- 509.01** The SMC may require, as part of an adopted basin plan or floodplain study, the payment of a fee-in-lieu of on-site stormwater storage to fulfill all or part of the on-site stormwater storage requirement for a development. The adoption of a floodplain study or basin plan is per Appendix E: Enforcement Officer Duties, Section D of this Ordinance.
- 509.02** The following fee-in-lieu of on-site stormwater storage procedures apply to communities with adopted procedures for requiring and collecting fee-in-lieu of revenues for stormwater storage requirements in this Ordinance:
- A. The Enforcement Officer may require, or the applicant may submit, a written request for the payment of a fee-in-lieu of on-site stormwater storage to fulfill all or part of the on-site detention requirement below the detention threshold minimum limit set by this Ordinance in 300.06 and 300.07 and for compensatory storage requirements for streambank and shoreline restoration fills of less than two hundred (200) cubic yards. A request for fee-in-lieu of on-

site stormwater storage shall be either rejected or approved within forty-five (45) days of the written request unless additional engineering studies are required.

- B. Approval of a request for [fee-in-lieu of on-site stormwater storage](#) on a [development](#) site below the detention threshold in 300.06 and 300.07 of this Ordinance and for [compensatory storage](#) requirements for streambank and shoreline restoration fills of less than two hundred (200) cubic yards shall be determined by the [Enforcement Officer](#).
- C. [Fee-in-lieu of on-site stormwater storage](#) shall be the lesser of:
  - 1. The fee computed for each acre-foot or cubic yard or part thereof of stormwater storage approved in accordance with the procedures and schedules as approved by the SMC for Non-Certified Communities or the community elected board of officials in a [Certified Community](#); or
  - 2. The estimated construction cost as approved by the SMC for Non-Certified Communities or the community elected board of officials in a Certified Community of the [applicant's](#) proposed and approved on-site stormwater storage, including land costs.
- D. A fund will be maintained by the [Certified Community](#) or the SMC for Non-Certified Communities for each of the four major Lake County [watersheds](#) for the purpose of identifying and controlling all revenues and expenditures resulting from fee-in-lieu of on-site stormwater storage approvals. All [fee-in-lieu of on-site stormwater storage](#) revenues received from each [watershed](#) shall be deposited in these funds for use within that watershed. A Certified Community may opt to allow SMC to administer fee-in-lieu-of revenues and expenditures through execution of an Intergovernmental Agreement specifying that arrangement.
- E. The following requirements must be met before a [fee-in-lieu of on-site stormwater storage](#) will be approved:
  - 1. The downstream [stormwater management system](#) has "[adequate downstream stormwater capacity](#)" (see Appendix A: Definitions); and
  - 2. The SMC for Non-Certified Communities or the community elected board of officials in a [Certified Community](#) has an adopted fee-in-lieu of on-site stormwater storage program.
- F. [Fee-in-lieu of on-site stormwater storage](#) revenues may be used to plan, design, or construct an upgrade to existing or future [stormwater management systems](#) if the upgrade is consistent with a [basin plan](#), [floodplain study](#), or stormwater system improvement that has been approved by the SMC for Non-Certified Communities or the community elected board of officials in a [Certified Community](#).

**509.03** The fee-in-lieu of on-site stormwater storage option shall be authorized for all [public road developments](#) on existing alignments provided the downstream drainage system has adequate stormwater capacity and that it will not result in negative impacts to the drainage system.

- 509.04** The following fee-in-lieu of on-site stormwater storage procedures shall be authorized for all developments permitted after October 13, 2020.
- A. The [Enforcement Officer](#) may require, or the [applicant](#) may submit, a written request for the payment of a [fee-in-lieu of on-site stormwater storage](#) to fulfill all or part of the on-site detention requirement above the 50-year, 24-hour detention volume using Appendix I: Rainfall Depth Duration Frequency Tables for Lake County. A request for fee-in-lieu of on-site stormwater storage shall be either rejected or approved within forty-five (45) days of the written request unless additional engineering studies are required.
  - B. Approval of a request for [fee-in-lieu of on-site stormwater storage](#) on a [development](#) site above the 50-year, 24-hour detention volume shall be determined by the [Enforcement Officer](#).
  - C. [Fee-in-lieu of on-site stormwater storage](#) shall be the fee computed for each acre-foot or part thereof of stormwater storage approved in accordance with the procedures and schedules as approved by the SMC.
  - D. A fund will be maintained by the SMC for each of the four major Lake County [watersheds](#) for the purpose of identifying and controlling all revenues and expenditures resulting from fee-in-lieu of on-site stormwater storage approvals. All [fee-in-lieu of on-site stormwater storage](#) revenues received from each [watershed](#) shall be deposited in these funds for use within that watershed.
  - E. The following requirements must be met before a [fee-in-lieu of on-site stormwater storage](#) will be approved:
    1. The downstream [stormwater management system](#) has “[adequate downstream stormwater capacity](#)” (see Appendix A: Definitions); and
    2. The SMC has an adopted fee-in-lieu of on-site stormwater storage program.
  - F. [Fee-in-lieu of on-site stormwater storage](#) revenues shall be used to design, maintain, or construct an upgrade to existing or future [stormwater management systems](#) if the upgrade is consistent with a [basin plan](#), [floodplain study](#), or stormwater system improvement that has been approved by the SMC.

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## Article 6: Soil Erosion and Sediment Control Requirements

### §600 Performance Standards

Soil [erosion](#) and sediment control related measures are required to be constructed and maintained for any land disturbance activity permitted under Article 3: General Provisions. The following requirements shall be met:

- 600.01** Soil disturbance shall be conducted in such a manner as to minimize [erosion](#). Areas of the [development](#) site that are not to be graded shall be protected from construction traffic or other disturbance until final seeding is performed. Soil stabilization measures shall consider the time of year, site conditions, and the use of temporary or permanent measures.
- 600.02** Properties and [channels](#) adjoining [development](#) sites shall be protected from [erosion](#) and [sedimentation](#). At points where concentrated flow leaves a development site, energy dissipation devices shall be placed at discharge locations and along the length of any outfall channel as necessary to provide a non-erosive velocity of flow from the structure to the watercourse so that the [natural](#) physical and biological characteristics and functions are maintained and protected.
- 600.03** Sediment control measures shall be constructed prior to the commencement of hydrologic disturbance of upland areas.
- 600.04** Disturbed areas shall be stabilized with temporary or permanent measures within seven (7) calendar days following the end of active hydrologic disturbance, or redisturbance, consistent with the following criteria or using an appropriate measure as approved by the [Enforcement Officer](#):
- A. Appropriate temporary or permanent stabilization measures shall include seeding, mulching, sodding, and/or non-vegetative measures.
  - B. Disturbance to areas or embankments having slopes equal to or steeper than 3H:1V shall be minimized; disturbed slopes shall be stabilized with staked-in-place sod, appropriately specified mat or blanket, or other appropriate measure(s) in combination with seeding.
  - C. [Erosion](#) control blanket shall be required on all interior detention basin side slopes between normal water level and high water level.
  - D. The seven (7) calendar day stabilization requirement may be precluded by snow cover or where land disturbing activities will resume within fourteen (14) calendar days from when the active hydrologic disturbance ceased, provided that the disturbed portion of the development site has appropriate soil [erosion](#) and sediment controls.
- 600.05** Land disturbance activities in streams shall be avoided, where possible. If disturbance activities are unavoidable, the following requirements shall be met:
- A. Where [stream](#) construction crossings are necessary, temporary crossings shall be constructed of non-erosive material.
  - B. The time and area of disturbance of a [stream](#) shall be kept to a minimum. The stream, including bed and banks, shall be restabilized within 48 hours after [channel](#) disturbance is completed or interrupted.

**600.06** Soil erosion and sediment control measures shall be appropriate with regard to the amount of tributary drainage area as follows:

- A. Disturbed areas draining greater than 5,000 ft<sup>2</sup> but less than one (1) acre shall, at a minimum, be protected by a filter barrier (including filter fences, which at a minimum, meet the applicable sections of the AASHTO Standard Specification 288-00, or equivalent control measures) to control all off-site runoff. Vegetated filter strips, with a minimum width of twenty-five (25) feet, in the direction of flow, may be used as an alternative only where runoff in sheet flow is expected.
- B. Disturbed areas draining more than one (1) but fewer than five (5) acres shall, at a minimum, be protected by a sediment trap or equivalent control measure at a point downslope of the disturbed area.
- C. Disturbed areas draining more than five (5) acres shall, at a minimum, be protected by a sediment basin with a perforated filtered riser pipe or equivalent control measure at a point downslope of the disturbed area.
- D. Sediment basins shall have both a permanent pool (dead storage) and additional volume (live storage) with each volume equal to the runoff amount of a 2-year, 24-hour event over the on-site hydrologically disturbed tributary drainage area to the sediment basin. Two-year storm runoff volumes versus site runoff curve numbers are shown in Appendix K: Detention Volume Versus Curve Number of this Ordinance. The available sediment volume below normal water level, in addition to the dead storage volume, shall be sized to store the estimated sediment load generated from the site over the duration of the construction period. For construction periods exceeding one (1) year, the 1-year sediment load and a sediment removal schedule may be submitted.

If the detention basin for the proposed development condition of the site is used for sediment basin, the above volume requirements will be explicitly met. Until the site is finally stabilized, the basin permanent pool of water shall meet the above volume requirements and have a filtered perforated riser protecting the outflow pipe.

**600.07** All storm sewers that are or will be functioning during construction shall be protected by an appropriate sediment control measure.

**600.08** If dewatering services are used, adjoining properties and discharge locations shall be protected from erosion and sedimentation. Discharges shall be routed through an approved anionic polymer dewatering system, or a similar measure, as approved by the Enforcement Officer. The Enforcement Officer, or approved representative, must be present at the commencement of dewatering activities.

**600.09** All temporary soil erosion and sediment control measures shall be removed within thirty (30) days after final site stabilization is achieved or after the temporary measures are no longer needed. Trapped sediment and other disturbed soil areas shall be permanently stabilized with a uniform (e.g., evenly distributed, without large bare areas) perennial vegetative cover with a minimum density of 70 percent or higher, at the discretion of the Enforcement Officer, on all unpaved areas and areas not covered by permanent structures or equivalent permanent stabilization measures.

- 600.10** A stabilized mat of crushed stone meeting IDOT gradation CA-1 underlain with filter fabric and in accordance with the Illinois Urban Manual, or other measure(s) as approved by the Enforcement Officer, shall be located at any point where traffic will be entering or leaving a development site to or from a public right-of-way, street, alley, or parking area. Pollutants from equipment and vehicle washing, wheel wash water, and other wash waters shall be treated in a sediment basin or other appropriate measure(s) designed to minimize the discharge of pollutants, as approved by the Enforcement Officer. Any sediment or soil reaching an improved public right-of-way, street, alley, or parking area shall be removed by scraping or street cleaning as accumulations warrant and transported to a controlled sediment disposal area. The Enforcement Officer may require additional stabilized construction entrance methods.
- 600.11** Earthen embankments shall be constructed with side slopes no steeper than 3H:1V. Steeper slopes may be constructed with appropriate stabilization as approved by the Enforcement Officer.
- 600.12** Stormwater conveyance channels, including ditches, swales, and diversions, and the outlet of all channels and pipes shall be designed and constructed to withstand the expected flow velocity from the 10-year frequency storm without erosion. All constructed or modified channels shall be stabilized within 48 hours.
- 600.13** Temporary diversions shall be constructed as necessary to direct all runoff from hydrologically disturbed areas to the appropriate sediment trap or basin.
- 600.14** Soil stockpiles shall not be located in a flood-prone area or a designated buffer protecting Waters of the United States or Isolated Waters of Lake County. Soil stockpiles are defined as having greater than 100 yd<sup>3</sup> of soil and will remain in place for more than seven (7) days. Soil stockpile locations shall be shown on the soil erosion and sediment control plan and shall have the appropriate measures to prevent erosion of the stockpile.
- 600.15** Handbooks
- Standards and specifications contained in the Illinois Urban Manual, as amended, and the planning procedures sections of the Illinois Procedures and Standards for Urban Soil Erosion and Sedimentation Control, as amended, are referenced in this Ordinance as guidance for presenting soil erosion and sediment control plan specifications and delineating procedures and methods of operation under site development for soil erosion and sediment control. In the event of conflict between provisions of said manuals and this Ordinance, this Ordinance shall govern.
- 600.16** The applicant shall provide adequate receptacles for the deposition of all construction material debris generated during the development process. The applicant shall not cause or permit the dumping, depositing, dropping, throwing, discarding, or leaving of construction material debris upon or into any development site, channel, Waters of the U.S., or Isolated Waters of Lake County. The applicant shall maintain the development site free of construction material debris.
- 600.17** The applicant shall minimize the discharge of pollutants from the exposure of building materials, building products, landscape materials (e.g., fertilizers, pesticides, herbicides), detergents, sanitary waste, and other on-site materials to precipitation and stormwater runoff.

- 600.18** If the installed soil erosion and sediment controls do not minimize sediment leaving the development site, additional measures such as anionic polymers or filtration systems may be required by the Enforcement Officer.
- 600.19** If stripping, clearing, grading, or landscaping are to be done in phases, the permittee shall plan for appropriate erosion control measures to be in place after each stage listed in §1101 Inspections.

## §601 Designated Erosion Control Inspector Program Standards

- 601.01** A [Designated Erosion Control Inspector](#) (DECI), hired or employed by the [applicant](#), shall be required for [development](#) in 601.01A and 601.01B, and may be required by the Enforcement Officer for 601.01C:
- A. Exceeds ten (10) acres of hydrologic disturbance; or
  - B. Exceeds one (1) acre of hydrologic disturbance and has a [Regulatory Floodplain](#), [Isolated Waters of Lake County](#), or [Waters of the United States](#) on-site or on a downstream adjoining property; or
  - C. Is less than or equal to one (1) acre of hydrologic disturbance and has a Regulatory Floodplain, Isolated Waters of Lake County, or Waters of the United States on-site or on a downstream adjoining property.
- 601.02** Article 11: Inspections and Access of this Ordinance contains inspection requirements for [development](#) meeting the threshold for program inclusion in 601.01 and [Designated Erosion Control Inspector](#) requirements.
- 601.03** The [applicant](#) shall submit the name of the [Designated Erosion Control Inspector](#) to the [Enforcement Officer](#) at or before the pre-construction meeting or commencement of hydrologic disturbance for the [development](#).

## §602 Stormwater Quality Runoff Standards

The following standards shall be considered by [communities](#) with a separate adopted “Stormwater Quality Runoff Ordinance.” The [Enforcement Officer](#) may set turbidity or total suspended solids limits for [development](#) sites that discharge to [Waters of the United States](#), [Isolated Waters of Lake County](#), or their [buffers](#) or that are in close proximity to the above, as determined by the Enforcement Officer. These standards shall apply to development site construction up to the point of permanent site stabilization as determined by the Enforcement Officer.

- 602.01** Turbidity or total suspended solids limits shall apply only to [development](#) requiring both a Storm Water Pollution Prevention Plan as part of their General NPDES Permit No. ILR10 and a detention [pond](#) or similar stormwater storage system in order to use that stormwater facility for additional treatment measures needed to meet the standards in §602 Stormwater Quality Runoff Standards.
- 602.02** If a singular storm event exceeds the 100-year design storm storage volume of the [development](#) site [stormwater management system](#), water quality readings taken during that event will not be considered a violation of this Ordinance.
- 602.03** As applicable to the [development](#) site described in 602.01, one of the following limits shall apply to each discharge location:

- A. For development sites adjacent to lakes with total suspended solids background levels established in Appendix D: Total Suspended Solids Background Levels for Lake County Water Bodies of this Ordinance, the discharge limit standard shall be no more than 120% of the maximum values.
  - B. A maximum Nephelometric Turbidity Unit reading of fifty (50) NTU may be used.
  - C. The Enforcement Officer may determine an individual NTU limit for discharge from the development based on site-specific discharge sampling.
  - D. Upon approval of the Enforcement Officer, the applicant may determine an individual site limit based on site-specific discharge sampling.
- 602.04** The developer should conduct site runoff sampling during storm events exceeding one-half (0.5) inch of rainfall and include the results in the weekly inspection reports required by the Storm Water Pollution Prevention Plan described in 602.01.
- 602.05** Exceptions to these limits shall be allowed for dredging or development activities within a Waters of the United States or Isolated Waters of Lake County. In these cases specific permit conditions may be set with regard to time allowed for the activity to be completed and additional erosion control measures to be implemented.

## Article 7: Regulatory Floodplain and Floodway Requirements

### §700 Location of Regulatory Floodplain, Base Flood Elevation, and Regulatory Floodway

- 700.01 The [Regulatory Floodplain](#) is delineated within a [development](#) by projecting the base flood elevation (BFE) onto the site topography.
- 700.02 The BFE shall be as delineated by the 100-year flood profiles, as indicated on the floodplain studies noted in 700.02A through 700.02D:
- A. SMC [Floodplain](#) Studies, adopted by the SMC for regulatory use after receiving an Independent Technical Review and a 60-day public technical review and comment period. Approved SMC floodplain studies, maps, and profiles shall be posted on the SMC website. SMC floodplain studies, including maps and profiles, shall be effective where:
    - 1. The elevations exceed the current effective Flood Insurance Study (FIS) maps and profiles, provided that the study has been submitted to IDNR or [FEMA](#) for approval; or
    - 2. The [base flood elevations](#) had not previously been determined in the current effective FIS and are not within areas under the jurisdiction of the [IDNR/OWR](#).
  - B. Should no SMC approved [Regulatory Floodplain](#) profile exist for the site, the [FEMA](#) Flood Insurance Study and profiles, as listed in Appendix C: FEMA Flood Insurance Study Maps and Profiles.
  - C. In the case of [FEMA](#) delineated “AH Zones” the elevation noted on the map shall be the BFE. In the case of FEMA delineated “AO Zones” the BFE shall be the depth number shown on the map added to the highest adjacent grade, or at least two (2) feet above the highest adjacent grade if no depth number is provided.
  - D. When no [base flood elevation](#) exists, the BFE shall be determined by a [Registered Professional Engineer](#) using an appropriate model or technique as approved by the SMC or [IDNR/OWR](#). For [riverine flood-prone areas](#) with greater than one hundred (100) acres of tributary [drainage area](#), non-riverine [flood-prone areas](#) with greater than twenty (20) acres of tributary drainage area, and all mapped [Special Flood Hazard Areas](#) regardless of drainage area, the BFE determination shall be submitted to SMC for approval prior to issuance of a [Watershed Development Permit](#). The BFE determination for non-riverine depressional floodplains with less than twenty (20) acres of tributary drainage area shall be reviewed and approved by the [Enforcement Officer](#). BFE determinations shall be based on the [critical duration](#) event.
    - 1. Where a [channel](#) has a tributary [drainage area](#) of 640 acres or more, the analyses in 700.02D shall be submitted to SMC for approval by [IDNR/OWR](#).
    - 2. For a [non-riverine Regulatory Floodplain](#), the historic flood of record (as determined by the [Enforcement Officer](#) according to 700.02D) plus three (3) feet may be used for the BFE instead of performing a detailed hydrologic and hydraulic study.

- 700.03** The location of the [Regulatory Floodway](#) shall be as delineated on the maps referenced in Appendix C: FEMA Flood Insurance Study Maps and Profiles. Where interpretation is needed to determine the exact location of the [Regulatory Floodway](#) boundary, [IDNR/OWR](#) should be contacted.
- 700.04** Nothing contained herein shall prohibit the application of these regulations to land that can be demonstrated by engineering survey to lie within any [Regulatory Floodplain](#). Conversely, any lands (except for those located in a [Regulatory Floodway](#)) that can be demonstrated by a topographic survey certified by a [Registered Professional Engineer](#) or Registered Land Surveyor to lie beyond the Regulatory Floodplain, and show to the satisfaction of the [Enforcement Officer](#), to have been higher than the BFE as of the date of the first floodplain map denoting the site to be in a [Special Flood Hazard Area](#) and as of the date of the current effective map, shall not be considered to be located in the Special Flood Hazard Area.
- In the case of a site located in the Regulatory Floodway that is higher than the BFE, it is subject to the regulations of this section until such time as a Letter of Map Revision is received from the [IDNR/OWR](#) and [FEMA](#).

## §701 Application Requirements

### 701.01 Development in the Regulatory Floodplain

If the [development](#) is located in a [Regulatory Floodplain](#), the [applicant](#) shall provide the following additional information:

- A. Site location of the property, drawn to scale on the Regulatory Floodplain map.
- B. A plan view of the project showing:
  1. The [Regulatory Floodway](#) limit, [Regulatory Floodplain](#) limit, and for work in public bodies of water as defined by [IDNR/OWR](#), the navigation [channels](#).
  2. Cross-section views of the project for the impacted reach showing existing and proposed conditions including principal dimensions of the work as shown in plan view, existing and proposed elevations, normal water elevation, 10-year frequency flood elevation, 100-year frequency flood elevation, and graphic or numerical scales (horizontal and vertical).
  3. A copy of the [Regulatory Floodway](#) map with the project site delineated and marked to reflect any proposed change in the Regulatory Floodway location.
- C. A listing of all local, state, and federal permits or approval letters that may be required for this type of [development](#). The [applicant](#) shall obtain and provide copies of any and all required federal, state, and local permits for development in the [Regulatory Floodplain](#) before the applicant requests or obtains a [Watershed Development Permit](#). Reference Appendix H: Partial List of Permits Required (When Applicable) for Development in Lake County for a partial list of permits that may be applicable.
- D. Engineering calculations and supporting data showing that the proposed work will meet the performance standards of this Ordinance.
- E. All changes in grade resulting from any proposed excavation or filling; and existing and proposed [Regulatory Floodplain](#) and [Regulatory Floodway](#) limits;

the location and dimension of all [buildings](#) and additions to buildings; and the elevation of the [lowest floor](#) (including [basement](#)) of all proposed buildings subject to the requirements of this Ordinance.

- F. [Elevation certificate](#) of the [lowest floor](#) elevation (including [basements](#) and attached garages) or the elevation to which a non-residential [building](#) has been flood-proofed using a flood-proofing certificate for all buildings in the [Regulatory Floodplain](#).

#### 701.02 Development in the Regulatory Floodplain Without Regulatory Floodway

The applicant, through SMC, shall obtain approval from [IDNR/OWR](#) for [development](#) with a tributary [drainage area](#) of 640 acres or more located within the [Regulatory Floodplain](#) without a delineated [Regulatory Floodway](#). The development shall not singularly or cumulatively result in an obstruction of [flood](#) flows or potential flood damages outside the development due to increased flood heights, velocities, or loss of floodplain storage. The applicant shall meet the requirements of Article 7: Regulatory Floodplain and Floodway Requirements of this Ordinance according to the following criteria:

- A. Submit to SMC an engineering study performed by a [Registered Professional Engineer](#) which will determine a floodway which meets the definition of a [Regulatory Floodway](#) and show that the proposed [development](#) will meet the requirements of Article 7: Regulatory Floodplain and Floodway Requirements of this Ordinance; or
- B. Submit to SMC an engineering study performed by a [Registered Professional Engineer](#) which will determine a [base flood elevation](#) and demonstrate that the proposed [development](#) will maintain the existing conditions conveyance, will not increase flood velocities, will not increase flood profiles, and will compensate for all lost flood storage at a ratio of 1.2:1 in a manner that is hydraulically equivalent; or
- C. Submit to SMC an engineering study performed by a [Registered Professional Engineer](#) which will demonstrate that for a range of flood elevations (which would conservatively exceed the expected 100-year flood elevation) that the proposed [development](#) will maintain the existing conditions conveyance, will not increase flood velocities, will not increase flood profiles, and will compensate for all lost flood storage at a ratio of 1.2:1 in a manner that is hydraulically equivalent.

701.03 The [applicant](#) shall obtain and provide copies of any and all required federal, state, and local permits for [development](#) in the [Regulatory Floodplain](#) before the applicant requests or obtains a [Watershed Development Permit](#). Reference Appendix H: Partial List of Permits Required (When Applicable) for Development in Lake County for a partial list of permits that may be applicable.

701.04 The [applicant](#) shall submit the data required to SMC and [FEMA](#) for proposed revisions to the [base flood elevation](#) of a [Regulatory Floodplain](#) study or relocation of a [Regulatory Floodway](#) boundary. The applicant shall also submit this data to IDNR/OWR when the tributary area is greater than one square mile.

701.05 The [applicant](#) shall provide, when applicable to the [development](#): an affidavit or documentation to prove where the development was above the [base flood](#)

elevation (BFE) prior to the effective date of the first Regulatory Floodplain map; certification that the ground elevation existed prior to the effective date of the first Regulatory Floodplain map.

## §702 Regulatory Floodplain Performance Standards

The performance standards of this section apply to Regulatory Floodplain development except when superseded by more stringent requirements in §701 Application Requirements, §703 Regulatory Floodway Performance Standards, §704 Compensatory Storage Performance Standards, §705 Public Health Protection Standards, §706 Building Protection Requirements, and §707 Bridge, Culvert Crossing, and Roadway Approach Performance Standards.

- 702.01** Modification and disturbance of natural riverine Regulatory Floodplains shall be avoided to protect existing hydrologic and environmental functions. Such disturbances shall be minimized and all negative impacts mitigated as described in a mitigation plan.
- 702.02** No development shall be allowed in the Regulatory Floodplain that shall singularly or cumulatively create a damaging or potentially damaging increase in flood heights or velocity or threat to public health, safety, and welfare or impair the natural hydrologic functions of the Regulatory Floodplain or channel.
- 702.03** For projects involving channel modification, fill, stream maintenance, or levees, the flood carrying capacity of the Regulatory Floodplain shall be maintained.
- 702.04** If the proposed development would result in a change in the mapped Regulatory Floodplain or BFE on a site, the applicant shall submit sufficient data to FEMA and SMC to obtain a Letter of Map Revision (LOMR). Proposed changes to Regulatory Floodplain and Regulatory Floodway delineation and BFE shall be submitted to SMC (see Appendix E: Enforcement Officer Duties). IDNR/OWR concurrence is required for changes to the BFE and floodway delineation.
- 702.05** If the development is located in a public body of water, as defined by IDNR/OWR, a permit must also be received from IDNR/OWR.
- 702.06** Any work involving construction or modification or removal of a dam or an on-stream structure to impound water shall obtain an IDNR/OWR Dam Safety Permit or letter indicating a permit is not required prior to the start of development activity. Reference Appendix G: IDNR/OWR Dam Safety Permitting Guidelines.
- 702.07** For public flood control projects, the permitting requirements of Article 7: Regulatory Floodplain and Floodway Requirements will be considered met if the applicant can demonstrate to IDNR/OWR, or SMC in areas outside of IDNR/OWR jurisdiction, through hydraulic and hydrologic calculation, that the proposed project will not singularly or cumulatively result in increased flood heights outside the project right-of-way or easements for all flood events up to and including the base flood event.

## §703 Regulatory Floodway Performance Standards

The only development in a Regulatory Floodway which will be allowed are Appropriate Uses which will not cause an increase in flood heights for all flood events up to and including the base flood. Only those Appropriate Uses listed in 703.01 and in 17 Ill. Adm. Code Part 3708 will be allowed in the Regulatory

Floodway. Appropriate Uses do not include the construction or placement of any new structures, fill, [building](#) additions, buildings on stilts, piles, piers, or columns, fencing (including landscaping or planting designed to act as a fence), and storage of materials except as specifically defined in 703.01 as an Appropriate Use. If the development is proposed for the Regulatory Floodway portion of the [Regulatory Floodplain](#), the following standards apply in addition to the previously stated standards for the Regulatory Floodplain:

- 703.01** Only the construction, modification, repair, or replacement of the following [Appropriate Uses](#) will be allowed in the [Regulatory Floodway](#):
- A. Public flood [control projects](#) and private improvements relating to the control of drainage, flooding of existing [buildings](#), [erosion](#), water quality, or habitat for fish and wildlife.
  - B. Structures or facilities relating to functionally water dependent uses such as facilities and improvements relating to recreational boating and as modifications or additions to existing wastewater treatment facilities.
  - C. Storm and sanitary sewer outfalls.
  - D. Underground and overhead utilities sufficiently flood-proofed.
  - E. Recreational facilities such as playing fields and trail systems including any related fencing (at least 50% open when viewed from any one direction) built parallel to the direction of [flood](#) flows, and including open air pavilions.
  - F. Detached garages, storage sheds, or other non-habitable structures without toilet facilities, accessory to existing [buildings](#) that will not block [flood](#) flows nor reduce [Regulatory Floodway](#) storage.
  - G. Bridges, culverts and associated roadways, sidewalks, and railways necessary for crossing over the [Regulatory Floodway](#) or for providing access to other [Appropriate Uses](#) in the Regulatory Floodway and any modification thereto.
  - H. Parking Lots
    - 1. Parking lots (where the existing depth of flooding for the [base flood](#) event is less than one (1) foot) and aircraft parking aprons both built at or below ground elevation and any modifications thereto.
    - 2. The depth of flooding can be greater than one (1) foot for parking lots used for short term outdoor recreational use facilities where the [applicant](#) agrees to restrict access during overbank flooding events and agrees to accept liability for all [damage](#) caused by vehicular access during all overbank flooding events.
  - I. [Regulatory Floodway](#) re-grading, without fill, to create a positive non-erosive slope toward a [channel](#).
  - J. [Flood-proofing](#) activities to protect previously existing lawful structures including the construction of water-tight window wells, elevating structures, or the construction of flood walls around residential, commercial, or industrial principal structures where the outside toe of the floodwall shall be no more than ten (10) feet away from the exterior wall of the existing [structure](#), and which are not considered to be [substantial improvements](#) to the structure.

- K. The replacement, reconstruction, or repair of a damaged building, provided that the outside dimensions of the building are not increased and that the activity is not a substantial improvement. An activity that is a substantial improvement shall conform to 706.01B for residential structures or 706.02B for non-residential structures.
- L. Modifications to an existing building, which are not substantial improvements, that would not increase the enclosed floor area of the building below the base flood elevation, and which will not block flood flows, including, but not limited to, fireplaces, bay windows, decks, patios, and second story additions. No enclosed floor areas may be built on stilts.
- M. Substantial improvements, provided that the outside dimensions of the building are not increased; the building shall conform to 706.01B for residential structures or 706.02B for non-residential structures.

**703.02** Additions to the list of Appropriate Uses in 703.01 are not allowed.

**703.03** All Appropriate Uses shall require a permit from the SMC or Certified Community and must be in accordance with all applicable provisions of this Ordinance.

**703.04** Construction of an Appropriate Use will be considered permissible provided that the proposed project meets the following engineering and mitigation criteria and those of §700 Location of Regulatory Floodplain, Base Flood Elevation, and Regulatory Floodway, 701.03 Regulatory Floodplain Performance Standards, §704 Compensatory Storage Performance Standards, §705 Public Health Protection Standards, and §706 Building Protection Requirements and is so stated in writing with supporting plans, calculations, and data prepared by a Registered Professional Engineer:

- A. All effective Regulatory Floodway conveyance lost due to the development of Appropriate Uses, other than bridge or culvert crossings or on-stream structures or dams, shall be replaced for all flood events up to and including the base flood. In calculating effective Regulatory Floodway conveyance, the following factors shall be taken into consideration:

- 1. Regulatory Floodway conveyance,

$$K = (1.486/n) AR^{2/3}$$

where “n” is Manning’s roughness coefficient, “A” is the effective area of the cross-section, and “R” is the ratio of the area to the wetted perimeter.

- 2. The same Manning’s n-value shall be used for both existing and proposed conditions unless a recorded maintenance agreement with a federal, state, or local unit of government can ensure the proposed conditions will be maintained or the land cover is changing from a vegetative to a non-vegetative land cover.

- B. Transition sections shall be provided and used in calculations of effective Regulatory Floodway conveyance, in the design of excavations in the Regulatory Floodway, between cross-sections with rapid expansions and contractions, and when meeting the Regulatory Floodway delineation on

adjoining properties. The following expansion and contraction ratios shall be used:

1. Water will expand no faster than at a rate of one foot horizontal for every four feet of the flooded stream's length.
  2. Water will contract no faster than at a rate of one foot horizontal for every one foot of the flooded stream's length.
  3. Water will not expand or contract faster than one foot vertical for every ten feet of the flooded stream's length.
  4. All cross-sections used in the calculations shall be located perpendicular to flood flows.
  5. In the design of excavations in the Regulatory Floodway, erosion/scour protection shall be provided on land upstream and downstream of proposed transition sections.
- C. The development of all Appropriate Uses shall not result in an increase in the average channel or Regulatory Floodway velocities or stage, for all flood events up to and including the base flood event. However, in the case of bridges or culverts or on-stream structures built for the purpose of backing up water in the stream during normal or flood flows, velocities may be increased at the structure site if scour, erosion, and sedimentation will be avoided by the use of rip-rap or other design measures.
- D. In the case of on-stream structures built for the purpose of backing up water, an increase in upstream stage when compared to existing conditions for all flood events up to and including the base flood event shall be contained within recorded easements. A permit or letter indicating a permit is not required must be obtained from IDNR/OWR, Dam Safety Section for a Dam Safety Permit or waiver for any structure built for the purpose of backing up water in the stream during normal or flood flow.
- E. General criteria for analysis of flood elevations
1. The flood profiles, flows, and Regulatory Floodway data in the Regulatory Floodway study, referenced in §700 Location of Regulatory Floodplain, Base Flood Elevation, and Regulatory Floodway, must be used for analysis of the base conditions. If the study data appears to be in error or conditions have changed, IDNR/OWR shall be contacted for approval and concurrence on the appropriate base conditions data to use.
  2. If the BFE at the site of the proposed development is affected by backwater from a downstream receiving stream with a larger drainage area, the proposed development shall be shown to meet the requirements of this section for the base elevations of the Regulatory Floodway conditions and conditions with the receiving stream at normal water elevations. Additional receiving stream elevations may be considered for design if appropriate and approved by SMC or IDNR/OWR.
  3. If the applicant is informed by IDNR/OWR, local governments, or a private owner that a downstream or upstream restrictive bridge or culvert is

scheduled to be removed, reconstructed, modified, or a regional [flood](#) control project is scheduled to be built, removed, constructed, or modified within the next five (5) years, the proposed [development](#) shall be analyzed and shown to meet the requirements of this section for both the existing conditions and the expected flood profile conditions when the bridge, culvert, or flood control project is built.

- F. If the [Appropriate Use](#) will result in a change in the [Regulatory Floodway](#) location or a change in the BFE, the [applicant](#) shall submit to SMC the information required to be issued a [Conditional Letter of Map Revision](#) (CLOMR) from [IDNR/OWR](#) and [FEMA](#). A public notice inviting public comment on the proposed change in the BFE or location in the Regulatory Floodway will be issued by IDNR/OWR or its designee before a CLOMR is issued. The application will not be considered complete until the CLOMR is received. No filling, grading, dredging, or excavating shall take place until a Conditional Approval is issued by the [Enforcement Officer](#). The construction or placement of [structures](#) within the currently effective floodway boundary shall not take place until a final [Letter of Map Revision](#) (LOMR) is issued by IDNR/OWR and [FEMA](#), which revises the floodway boundary.

**703.05** For those circumstances listed in 703.05A through 703.05E and located in a [Regulatory Floodway](#), the following information shall be submitted to [IDNR/OWR](#) or SMC:

- A. Analysis of the flood profile due to a proposed bridge, culvert crossings, and roadway approaches.
- B. An engineer's determination that an existing bridge or culvert crossing or approach road is not a source of [flood damage](#) and the analysis indicating the proposed flood profile.
- C. Alternative [transition sections](#) and hydraulically equivalent storage.
- D. [IDNR/OWR](#) will retain permit authority for any IDNR/OWR projects, dams, etc., all other state, federal, or SMC projects.
- E. SMC will issue permits to local units of government for [Regulatory Floodway](#) development.

## §704 Compensatory Storage Performance Standards

[Compensatory storage](#) is required for all storage lost or displaced in a [Regulatory Floodplain](#) due to [development](#).

**704.01** [Hydraulically equivalent compensatory storage](#) requirements for development activity in a [riverine Regulatory Floodplain](#) shall be at least equal to 1.2 times the volume of Regulatory Floodplain storage lost or displaced. Such compensation areas shall be designed to drain freely and openly to the [channel](#) and located opposite or adjacent to fill areas. A [deed or plat restriction](#) is required to prohibit any modification to the compensation area.

**704.02** [Hydraulically equivalent compensatory storage](#) requirements for development activity in a [non-riverine Regulatory Floodplain](#) shall be at least equal to 1.0 times the volume of [Regulatory Floodplain](#) storage lost or displaced. Compensation areas

shall be designed to access the required volume. A deed or plat restriction is required to prohibit any modification to the compensation area. Upon approval of the Enforcement Officer, hydraulic equivalency for non-riverine compensatory storage may be altered, provided that the storage is replaced at or below the existing elevation at which storage is lost or displaced but not below the proposed normal water level.

**704.03** Hydraulically equivalent compensatory storage requirements for development activity in a non-riverine Regulatory Floodplain, that is located partially on-site, with more than 10% of the BFE surface area located on-site, shall be at least equal to 1.2 times the volume of Regulatory Floodplain storage lost or displaced. Such compensation areas shall be designed to access the required volume. A deed or plat restriction is required to prohibit any modification to the compensation area. Upon approval of the Enforcement Officer, hydraulic equivalency for non-riverine compensatory storage may be altered, provided that the storage is replaced at or below the existing elevation at which storage is lost or displaced but not below the proposed normal water level.

**704.04** Upon approval of the [Enforcement Officer](#), shorelines or streambanks that have experienced [erosion](#) may be restored to their condition as of the current effective date of the FIRM in that [community](#) without the need to provide [compensatory storage](#) or pay a fee-in-lieu of for the fill used to restore the eroded area according to the following criteria:

- A. The restoration fill shall meet existing grades and within [riverine](#) areas the current effective [Regulatory Floodplain](#) BFE shall not be increased and the [Regulatory Floodway](#) conveyance shall be maintained.
- B. The amount of eroded property being restored shall be documented and submitted by the [applicant](#) as part of the permit process. Proper documentation shall be either field survey information or photo documentation of the [erosion](#) that has occurred for the property being restored.
- C. For rivers, [lakes](#), and streams where no floodway has been designated, no documentation of past shoreline [erosion](#) is required if the [applicant](#) does not exceed one (1) cubic yard of fill per lineal foot for a maximum of two hundred (200) feet. In this case, the placing of the fill shall not significantly alter the alignment of the shoreline with adjoining properties as determined by the [Enforcement Officer](#). Non-documentable fills are a one-time allowance on a per property basis and all fills exceeding two hundred (200) cubic yards shall be regulated as specified in §509 Fee-In-Lieu of On-Site Stormwater Storage and §704 Compensatory Storage Performance Standards of this Ordinance.

**704.05** Top dressing is the placement of not more than four (4) inches of topsoil within the [Regulatory Floodplain](#) for the purposes of stabilizing an existing [erosion](#) control problem or establishing vegetative cover. Top dressing shall be allowed by permit on a per-parcel, one-time only allowance, and not damage or alter adjoining property drainage patterns. Upon approval of the [Enforcement Officer](#), floodplain [compensatory storage](#) shall not be required. Top dressing fill shall comply with the Soil Erosion and Sediment Control standards and Wetlands provisions of this Ordinance (Article 6: Soil Erosion and Sediment Control Requirements and Article

10: Wetland Requirements). This provision shall not be applicable to the design process for new [development](#).

**704.06** Top dressing is the placement of not more than four (4) inches of topsoil within the [Regulatory Floodplain](#). For the purposes of restoring pre-subsidence grade to an area that primarily experiences subsidence due to a documented flood event, top dressing shall be allowed by permit on a per-parcel basis and not damage or alter adjoining property drainage patterns. Upon approval of the [Enforcement Officer](#), floodplain [compensatory storage](#) shall not be required. Top dressing fill shall comply with the Soil Erosion and Sediment Control standards and Wetlands provisions of this Ordinance (Article 6: Soil Erosion and Sediment Control Requirements and Article 10: Wetland Requirements). This provision shall not be applicable to the design process for new development. A one-time allowance of this provision shall be in accordance with 704.06A through 704.06C and repeat allowances shall be in accordance with 704.06A through 704.06D:

- A. The restoration fill shall meet pre-subsidence elevations, and within riverine areas, the pre-subsidence effective [Regulatory Floodplain](#) and [Regulatory Floodway](#) conveyance shall be maintained.
- B. The property being considered for top dressing shall be documented and submitted by the applicant as part of the permit process. Proper documentation shall be either topographic information or photographic documentation of the flooding and subsidence that has occurred on the property.
- C. Upon completion of top dressing, the applicant shall provide topographic or photographic documentation of completed work.
- D. Repeat top dressing applications are limited to documented flood events with topographic or photographic evidence of subsidence.

**704.07** Impervious surface rehabilitative maintenance is the placement of not more than four (4) inches of pavement or any other impervious material within the Regulatory Floodplain. For the purposes of restoring pre-subsidence grades to an area that has experienced subsidence, rehabilitative maintenance of such areas shall be allowed by permit on a per-project basis and not damage or alter adjoining property drainage patterns. Upon approval of the Enforcement Officer, floodplain compensatory storage shall not be required. Rehabilitative maintenance fill shall comply with the Soil Erosion and Sediment Control standards and Wetlands provisions of this Ordinance (Article 6: Soil Erosion and Sediment Control Requirements and Article 10: Wetland Requirements). This provision shall not be applicable to the design process for new development. A one-time allowance of this provision shall be in accordance with 704.07A through 704.07C and repeat allowances shall be in accordance with 704.07A through 704.07D:

- A. The restoration fill shall meet pre-subsidence elevations, and within riverine areas, the pre-subsidence effective Regulatory Floodplain and Regulatory Floodway conveyance shall be maintained.
- B. The project being considered for rehabilitative maintenance shall be documented and submitted by the applicant as part of the permit process.

Proper documentation shall be either topographic information or photographic documentation of the subsidence that has occurred on the project.

- C. Upon completion of rehabilitative maintenance, the applicant shall provide topographic or photographic documentation of completed work.
- D. Repeat rehabilitative maintenance applications are limited to documented topographic or photographic evidence of subsidence.

## §705 Public Health Protection Standards

- 705.01 For property within the [Regulatory Floodplain](#) no chemicals, explosives, buoyant materials, animal waste, fertilizers, flammable liquids, pollutants, or other hazardous or toxic materials shall be placed or stored below the [Flood Protection Elevation](#).
- 705.02 New and replacement water supply systems, wells, and sanitary sewer lines may be permitted providing all manholes or other above-ground openings located below the FPE are watertight.
- 705.03 On-site waste disposal systems shall be designed to avoid inundation by the [base flood](#).

## §706 Building Protection Requirements

- 706.01 Building protection requirements for residential structures shall follow applicable FEMA regulations and include the following:
  - A. The [lowest floor](#), including [basements](#), of all new residential structures, including additions, shall be elevated up to at least the [Flood Protection Elevation](#) (FPE). The floor of an attached garage for a new [structure](#) must be elevated up to at least one-half (0.5) foot above the [base flood elevation](#) (BFE).
    1. If placed on compacted fill, the top of the fill for a residential [structure](#) shall be above the FPE. The top of fill for an attached garage shall be one-half (0.5) foot above the BFE. The fill pad shall be placed at the appropriate elevation and designed to extend a minimum of ten (10) feet out from the building's designed footprint unless the [building](#) is certified by a Registered Structural Engineer to be protected from damages due to hydrostatic pressures. Additionally, the fill pad shall meet 95% of Standard Proctor Density in order to be demonstrated not to settle below the FPE for the residential structure and not below one-half (0.5) foot above the BFE for an attached garage, and to be adequately protected against [erosion](#), scour, and differential settlement. Foundation excavations shall not extend more than five (5) feet beyond the foundation footprint. Backfill for the over excavated area does not need to meet the compaction requirements.
    2. If elevated by means of walls, pilings, or other foundation, the building's supporting structure must be permanently open to [flood](#) waters and not subject to [damage](#) by hydrostatic pressures of the [base flood](#). The bottom of the permanent openings shall be no more than one (1) foot above the [lowest adjacent grade](#). The total net area shall be provided below the BFE, and consist of a minimum of two (2) openings for each enclosed area with each opening of an enclosed area on a different exterior wall. The

openings must have a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area subject to flooding below the BFE. Any louvers, screens, or other opening covers must not block or impede the automatic flow of flood waters into and out of the enclosed area. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating debris. All areas below the FPE shall be constructed with materials resistant to flood damage. The lowest floor (including basement) for the residential structure and all electrical, heating, ventilation, plumbing, air conditioning equipment, and utility meters shall be located at or above the FPE. Waterproofed service facilities, including, but not limited to, water and sewer pipes, electrical and telephone lines, and submersible pumps, may be located below the FPE. No area less than one (1) foot above the BFE shall be used for storage of items or materials.

- B. The lowest floor, including basements, of an existing residential structure with a substantial improvement shall be elevated to at least one (1) foot above the BFE.
1. If placed on compacted fill, the top of the fill for a substantially improved residential structure shall be at least one (1) foot above the BFE. The fill pad shall be placed at the appropriate elevation and designed to extend a minimum of ten (10) feet out from the building's designed footprint unless the building is certified by a Registered Structural Engineer to be protected from damages due to hydrostatic pressures. Additionally, the fill pad shall meet 95% of Standard Proctor Density in order to be demonstrated not to settle below one (1) foot above the BFE for the substantially improved residential structure, and to be adequately protected against erosion, scour, and differential settlement. Foundation excavations shall not extend more than five (5) feet beyond the foundation footprint. Backfill for the over excavated area does not need to meet the compaction requirements.
  2. If elevated by means of walls, pilings, or other foundation, the building's supporting structure must be permanently open to flood waters and not subject to damage by hydrostatic pressures of the base flood. The bottom of the permanent openings shall be no more than one (1) foot above the lowest adjacent grade. The total net area shall be provided below the BFE, and consist of a minimum of two (2) openings for each enclosed area with each opening of an enclosed area on a different exterior wall. The openings must have a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area subject to flooding below the BFE. Any louvers, screens, or other opening covers must not block or impede the automatic flow of flood waters into and out of the enclosed area. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating debris. All areas lower than one (1) foot above the BFE shall be constructed with materials resistant to flood damage. The lowest floor (including basement) for the substantially improved residential structure

and all electrical, heating, ventilation, plumbing, air conditioning equipment, and utility meters shall be elevated to at least one (1) foot above the BFE. Waterproofed service facilities, including, but not limited to, water and sewer pipes, electrical and telephone lines, and submersible pumps, may be located below the BFE-plus-one-foot elevation.

**706.02** Building protection requirements for non-residential structures shall follow applicable FEMA regulations and include the following:

- A. The lowest floor, including basements, of all new non-residential buildings, including additions, shall be elevated at least to the FPE or be structurally dry flood-proofed to at least the FPE. A non-residential building may be structurally dry flood-proofed (in lieu of elevation) provided that a Registered Professional Engineer, Registered Structural Engineer, or Licensed Architect shall certify that the building has been structurally dry flood-proofed up to the FPE and the structure and attendant utility facilities are watertight and capable of resisting the effects of the base flood. The building design shall take into account flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, the effects of buoyancy, and impacts from debris or ice. Flood-proofing measures shall be operable without human intervention and without an outside source of electricity. (Levees, berms, floodwalls, and similar works are not considered flood-proofing for the purpose of this subsection.)
1. If a non-residential structure is not dry flood-proofed and is placed on compacted fill, the top of the fill shall be above the FPE. The fill pad shall be placed at the appropriate elevation and designed to extend a minimum of ten (10) feet out from the building's designed footprint unless the building is certified by a Registered Structural Engineer to be protected from damages due to hydrostatic pressures. Additionally, the fill pad shall meet 95% of Standard Proctor Density in order to be demonstrated not to settle below the FPE and to be adequately protected against erosion, scour, and differential settlement. Foundation excavations shall not extend more than five (5) feet beyond the foundation footprint. Backfill for the over excavated area does not need to meet the compaction requirements.
  2. If a non-residential structure is not dry flood-proofed and is elevated by means of walls, pilings, or other foundation, the building's supporting structure must be permanently open to flood waters and not subject to damage by hydrostatic pressures of the base flood. The bottom of the permanent openings shall be no more than one (1) foot above the lowest adjacent grade. The total net area shall be provided below the BFE, and consist of a minimum of two (2) openings for each enclosed area with each opening of an enclosed area on a different exterior wall. The openings must have a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area subject to flooding below the BFE. Any louvers, screens, or other opening covers must not block or impede the automatic flow of flood waters into and out of the enclosed area. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating

debris. All areas below the FPE shall be constructed with materials resistant to flood damage. The lowest floor (including basement) for the non-residential structure and all electrical, heating, ventilation, plumbing, air conditioning equipment, and utility meters shall be located at or above the FPE. Waterproofed service facilities, including, but not limited to, water and sewer pipes, electrical and telephone lines, and submersible pumps, may be located below the FPE. No area less than one (1) foot above the BFE shall be used for storage of items or materials.

- B. The lowest floor, including basements, of all substantially improved non-residential buildings and attendant utility facilities shall be elevated or structurally dry flood-proofed to a minimum of one (1) foot above the BFE. A substantially improved non-residential building may be structurally dry flood-proofed (in lieu of elevation) provided that a Registered Professional Engineer, Registered Structural Engineer, or Licensed Architect shall certify that the building has been structurally dry flood-proofed up to a minimum of one (1) foot above the BFE and the structure and attendant utility facilities are watertight and capable of resisting the effects of the base flood. The building design shall take into account flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, the effects of buoyancy, and impacts from debris or ice. Flood-proofing measures shall be operable without human intervention and without an outside source of electricity. (Levees, berms, floodwalls, and similar works are not considered flood-proofing for the purpose of this subsection.)
1. If a substantially improved non-residential structure is not dry flood-proofed and is placed on compacted fill, the top of the fill for a non-residential structure substantial improvement shall be at least one (1) foot above the BFE. The fill pad shall be placed at the appropriate elevation and designed to extend a minimum of ten (10) feet out from the building's designed footprint unless the building is certified by a Registered Structural Engineer to be protected from damages due to hydrostatic pressures. Additionally, the fill pad shall meet 95% of Standard Proctor Density in order to be demonstrated not to settle below one (1) foot above the BFE for the non-residential structure, and to be adequately protected against erosion, scour, and differential settlement. Foundation excavations shall not extend more than five (5) feet beyond the foundation footprint. Backfill for the over excavated area does not need to meet the compaction requirements.
  2. If a substantially improved non-residential structure is not dry flood-proofed and is elevated by means of walls, pilings, or other foundation, the building's supporting structure must be permanently open to flood waters and not subject to damage by hydrostatic pressures of the base flood. The bottom of the permanent openings shall be no more than one (1) foot above the lowest adjacent grade. The total net area shall be provided below the BFE, and consist of a minimum of two (2) openings for each enclosed area with each opening of an enclosed area on a different exterior wall. The openings must have a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area subject to flooding below the BFE. Any louvers, screens, or other opening covers must not block or impede the automatic flow of flood waters into and out of

the enclosed area. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating debris. All areas lower than one (1) foot above the BFE shall be constructed with materials resistant to flood damage. The lowest floor (including basement) for the substantially improved non-residential structure and all electrical, heating, ventilation, plumbing, air conditioning equipment, and utility meters shall be elevated to at least one (1) foot above the BFE. Waterproofed service facilities, including, but not limited to, water and sewer pipes, electrical and telephone lines, and submersible pumps, may be located below the BFE-plus-one-foot elevation.

- 706.03** Manufactured homes and recreational vehicles to be installed on-site for more than 180 days shall be elevated to or above the FPE and shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the Rules and Regulations for the Illinois Mobile Home Tie-Down Act issued pursuant to 77 Ill. Adm. Code Part 870. The requirements in 706.01A shall apply to this section.
- 706.04** Tool sheds, detached garages, and attached garages which are not substantial improvements on an existing single-family platted lot may be constructed with the lowest floor below the FPE in accordance with the following:
- A. The building shall not be used for human habitation.
  - B. All areas below the BFE shall be constructed with waterproof material. Structures located in a Regulatory Floodway shall be constructed and placed on a development site so as not to block the flow of flood waters and shall also meet the Appropriate Use criteria of §703 Regulatory Floodway Performance Standards. In addition, all other requirements of this Ordinance must be met.
  - C. The structure shall be anchored to prevent flotation.
  - D. Service facilities such as electrical and heating equipment shall be elevated or flood-proofed to the FPE.
  - E. The building shall be used only for the storage of vehicles or tools and may not contain other rooms, workshops, greenhouses, or similar uses.
  - F. If a residence is elevated appropriately, then the area below the residence can be used as a garage, as long as the garage conforms to 706.04A through 706.04E and includes permanent flow through openings as described in 706.01A.2.
  - G. The building shall be valued at less than \$17,250 (2011 costs) and be no greater than 576 square feet in floor size.
- 706.05** A non-conforming structure damaged by any origin may be restored unless the activity meets the definition of substantial improvement, in which case it shall conform to the provisions of 706.01B for residential structures or 706.02B for non-residential structures.

- 706.06 If [flood-proofing](#) construction is required beyond the outside dimensions of an existing habitable, residential or commercial [building](#), the outside perimeter of the flood-proofing construction shall be placed no further than ten (10) feet from the outside of the building. Compensation of lost storage and conveyance will not be required for flood-proofing activities.

## §707 Bridge, Culvert Crossing, and Roadway Approach Performance Standards

- 707.01 A proposed new structure shall not result in an increase of upstream flood stages greater than one-tenth (0.1) foot when compared to the existing conditions for all [flood](#) events up to and including the [base flood](#) event unless contained within the [channel](#) banks, or recorded easements. The evaluation must be submitted to the SMC for review and concurrence before a permit is issued.
- 707.02 If the proposed [development](#) will increase upstream flood stages greater than one-tenth (0.1) foot, the [applicant](#) must contact [IDNR/OWR](#), Dam Safety Section for a Dam Safety Permit or waiver.
- 707.03 Lost [Regulatory Floodway](#) and Regulatory Floodplain storage must be compensated for per the [Regulatory Floodplain](#) performance standards of this Ordinance except that artificially created storage that is lost or displaced due to a reduction in upstream head loss caused by a bridge, culvert, storm sewer, or constructed embankment shall not be required to be replaced, provided no [flood damage](#) will be incurred downstream.
- 707.04 Velocity increases must be mitigated per the [Regulatory Floodway](#) performance section of this Ordinance except that in the case of bridges or culverts or on-[stream](#) structures built for the purpose of backing up water in the stream during normal or [flood](#) flows, velocities may be increased at the structure site if scour, [erosion](#), and [sedimentation](#) will be avoided by the use of appropriate measures.
- 707.05 For modifications or replacement of existing structures, the existing structure must first be evaluated in accordance with 17 Ill. Adm. Code Part 3708 to determine if the existing structure is a source of [flood damage](#). If the structure is a source of flood damage, the [applicant's](#) engineer must evaluate the feasibility of redesigning the structure to reduce the existing backwater, taking into consideration the effects of flood damage to upstream and downstream properties. Modifications or replacement structures shall not increase flood stages compared to the existing or regulatory condition, whichever is greater, for all flood events up to and including the [base flood](#) event. The evaluation must be submitted to [IDNR/OWR](#), or its designee, for review and concurrence before a permit is issued.
- 707.06 If the crossing is proposed over a public body of water, an [IDNR/OWR](#) permit must be obtained.
- 707.07 The hydraulic analysis for the backwater caused by the bridge showing the existing condition and proposed regulatory profile must be submitted to [IDNR/OWR](#) for concurrence that a [Conditional Letter of Map Revision](#) (CLOMR) is not required.

## Article 8: Flood-Prone Area Requirements

The performance standards of this section apply to development located in flood-prone areas with drainage areas less than 640 acres or in depressional storage areas, as specified.

### §800 Flood-carrying Capacity

The flood-carrying capacity shall be maintained for channels with flood-prone areas draining a tributary area of twenty (20) acres or more (§506 Stormwater Conveyance Systems).

### §801 Flood-prone Area Conveyance, Velocities, Flood Profiles, and Flood Storage

For development within a flood-prone area where the tributary drainage area is one hundred (100) acres or more, the applicant shall meet the requirements of Article 9: Flood Table Land Requirements of this Ordinance according to the following criteria:

- 801.01 Submit to SMC an engineering study performed by a Registered Professional Engineer which will determine a floodway which meets the definition of a Regulatory Floodway and show that the proposed development will meet the requirements of Article 7: Regulatory Floodplain and Floodway Requirements of this Ordinance; or
- 801.02 Submit to SMC an engineering study performed by a Registered Professional Engineer which will determine a base flood elevation and demonstrate that the proposed development will maintain the existing conditions conveyance, will not increase flood velocities, will not increase flood profiles, and will provide hydraulically equivalent compensatory storage at a ratio of 1.2:1. Such compensation areas shall be designed to drain freely and openly to the channel and located opposite or adjacent to fill areas; or
- 801.03 Submit to SMC an engineering study performed by a Registered Professional Engineer which will demonstrate that for a range of flood elevations (which would conservatively exceed the expected 100-year flood elevation) that the proposed development will maintain the existing conditions conveyance, will not increase flood velocities, will not increase flood profiles, and will provide hydraulically equivalent compensatory storage at a ratio of 1.2:1. Such compensation areas shall be designed to drain freely and openly to the channel and located opposite or adjacent to fill areas.

## Article 9: Flood Table Land Requirements

The following flood table land requirements apply to new construction only and not to additions or substantial improvements to structures within flood table lands built before August 10, 1999.

### §900 Public Health Protection Standards

- 900.01 No chemicals, explosives, buoyant materials, animal waste, fertilizers, flammable liquids, pollutants, or other hazardous or toxic materials shall be placed or stored below the Flood Protection Elevation (FPE).
- 900.02 New and replacement water supply systems, wells, and sanitary sewer lines may be permitted providing all manholes or other above-ground openings located below the FPE are watertight.
- 900.03 On-site waste disposal systems shall be designed to avoid inundation by the base flood.

### §901 Building Protection Requirements

- 901.01 The lowest floor, including basements, of all new residential structures, including additions, shall be elevated or structurally dry flood-proofed up to at least the Flood Protection Elevation (FPE). The floor of an attached garage for a new structure must be elevated up to at least one-half (0.5) foot above the base flood elevation (BFE). If structurally dry flood-proofed, a Licensed Professional Engineer, Licensed Structural Engineer, or Licensed Architect shall certify that the building has been structurally dry flood-proofed up to the FPE and the structure and attendant utility facilities are watertight and capable of resisting the effects of the base flood. The building design shall take into account flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, the effects of buoyancy, and impacts from debris or ice. Flood-proofing measures shall be operable without human intervention and without an outside source of electricity. (Levees, berms, floodwalls, and similar works are not considered flood-proofing for the purpose of this subsection.)
  - A. If the residential structure is not dry flood-proofed and is placed on compacted fill, the top of the fill for a residential structure shall be above the FPE. The top of fill for an attached garage shall be one-half (0.5) foot above the BFE. The fill pad shall be placed at the appropriate elevation and designed to extend a minimum of ten (10) feet out from the building's designed footprint unless the building is certified by a Registered Structural Engineer to be protected from damages due to hydrostatic pressures. Additionally, the fill pad shall meet 95% of Standard Proctor Density in order to be demonstrated not to settle below the FPE for the residential structure and not below one-half (0.5) foot above the BFE for an attached garage, and to be adequately protected against erosion, scour, and differential settlement. Foundation excavations shall not extend more than five (5) feet beyond the foundation footprint. Backfill for the over excavated area does not need to meet the compaction requirements.
  - B. If the residential structure is not dry flood-proofed and is elevated by means of walls, pilings, or other foundation, the building's supporting structure must be permanently open to flood waters and not subject to damage by hydrostatic pressures of the base flood. The bottom of the permanent openings shall be

no more than one (1) foot above the lowest adjacent grade. The total net area shall be provided below the FPE, and consist of a minimum of two (2) openings for each enclosed area with each opening of an enclosed area on a different exterior wall. The openings must have a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area subject to flooding below the FPE. Any louvers, screens, or other opening covers must not block or impede the automatic flow of flood waters into and out of the enclosed area. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating debris. All areas below the FPE shall be constructed with materials resistant to flood damage. The lowest floor (including basement) for the residential structure and all electrical, heating, ventilation, plumbing, air conditioning equipment, and utility meters shall be located at or above the FPE. Waterproofed service facilities, including, but not limited to, water and sewer pipes, electrical and telephone lines, and submersible pumps, may be located below the FPE. No area less than one (1) foot above the BFE shall be used for storage of items or materials.

- 901.02** The lowest floor, including basements, of all new non-residential buildings, including additions, shall be elevated at least to the FPE or be structurally dry flood-proofed to at least the FPE. A non-residential building may be structurally dry flood-proofed (in lieu of elevation) provided that a Licensed Professional Engineer, Licensed Structural Engineer, or Licensed Architect shall certify that the building has been structurally dry flood-proofed up to the FPE and the structure and attendant utility facilities are watertight and capable of resisting the effects of the base flood. The building design shall take into account flood velocities, duration, rate of rise, hydrostatic and hydrodynamic forces, the effects of buoyancy, and impacts from debris or ice. Flood-proofing measures shall be operable without human intervention and without an outside source of electricity. (Levees, berms, floodwalls, and similar works are not considered flood-proofing for the purposes of this subsection.)
- A. If a non-residential structure is not dry flood-proofed and is placed on compacted fill, the top of the fill shall be above the FPE. The fill pad shall be placed at the appropriate elevation and designed to extend a minimum of ten (10) feet out from the building's designed footprint unless the building is certified by a Licensed Structural Engineer to be protected from damages due to hydrostatic pressures. Additionally, the fill pad shall meet 95% of Standard Proctor Density in order to be demonstrated not to settle below the FPE and to be adequately protected against erosion, scour, and differential settlement. Foundation excavations shall not extend more than five (5) feet beyond the foundation footprint. Backfill for the over excavated area does not need to meet the compaction requirements.
  - B. If a non-residential structure is not dry flood-proofed and is elevated by means of walls, pilings, or other foundation, the building's supporting structure must be permanently open to flood waters and not subject to damage by hydrostatic pressures of the base flood. The bottom of the permanent openings shall be no more than one (1) foot above the lowest adjacent grade. The total net area shall be provided below the FPE, and consist of a minimum of two (2) openings

for each enclosed area with each opening of an enclosed area on a different exterior wall. The openings must have a total net area of not less than one (1) square inch for every one (1) square foot of enclosed area subject to flooding below the FPE. Any louvers, screens, or other opening covers must not block or impede the automatic flow of flood waters into and out of the enclosed area. The foundation and supporting members shall be anchored and aligned in relation to flood flows and adjoining structures so as to minimize exposure to known hydrodynamic forces such as current, waves, ice, and floating debris. All areas below the FPE shall be constructed with materials resistant to flood damage. The lowest floor (including basement) for the non-residential structure and all electrical, heating, ventilation, plumbing, air conditioning equipment, and utility meters shall be located at or above the FPE. Waterproofed service facilities, including, but not limited to, water and sewer pipes, electrical and telephone lines, and submersible pumps, may be located below the FPE. No area less than one (1) foot above the BFE shall be used for storage of items or materials.

- 901.03** Manufactured homes and recreational vehicles to be installed on-site for more than 180 days shall be elevated to or above the FPE and shall be anchored to resist flotation, collapse, or lateral movement by being tied down in accordance with the Rules and Regulations for the Illinois Mobile Home Tie-Down Act issued pursuant to 77 Ill. Adm. Code Part 870.
- 901.04** Accessory structures and attached garages may be constructed with the lowest floor below the FPE in accordance with the following:
- A. The building shall not be used for human habitation.
  - B. The structure shall be anchored to prevent flotation.
  - C. Service facilities such as electrical and heating equipment shall be elevated or flood-proofed to the FPE.

## Article 10: Wetland Requirements

The performance standards of this section apply when Waters of the United States or Isolated Waters of Lake County are located wholly or partially within the development site.

### §1000 Wetland Delineation

**1000.01** The applicant shall identify the boundaries, extent, function, and quality of all wetland areas on the development site, and prepare a Wetland Determination Report. The presence and extent of wetland areas shall be determined by, or under the supervision of, a Certified Wetland Specialist using an on-site wetland procedure within three (3) years of the initial permit application date in accordance with the methodology contained in the 1987 U.S Army Corps of Engineers wetland delineation manual (as amended, including applicable supplements) or as otherwise noted in 1000.02.

#### **1000.02 Wetland Determination Report**

The following are minimum requirements for the Wetland Determination Report:

- A. A plan showing the location of wetlands within the development site and the approximate boundaries of off-site wetlands per 1000.02F. The wetland boundary within the development site shall be flagged in the field and surveyed;
- B. An aerial photograph delineating the wetland and the development boundary;
- C. A copy of the following maps (most recent) delineating the development boundary:
  1. U.S.G.S. quadrangle map
  2. Lake County Wetland Inventory map (including ADID sites)
  3. FEMA floodplain map
  4. Lake County soil survey
  5. Hydrologic Atlas (U.S.G.S. Flood of Record map)
- D. U.S. Army Corps of Engineers data sheets (Midwest Region, most recent version) with color photographs provided for representative upland and wetland data points;
- E. A written description of the wetland(s) that includes a Floristic Quality Assessment as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version). Floristic quality assessments shall generally be conducted between May 15 and October 1, which approximates the growing season. Non-growing season assessments may require additional sampling during the growing season to satisfy this requirement;
- F. The approximate location, extent, and relative quality of off-site wetlands on properties within the maximum buffer requirements adjoining the development shall be identified by using the first of the following documents or procedures pertaining at the time of development:

1. Site-specific delineation according to the 1987 Federal [wetland](#) delineation manual (as amended, including applicable supplements). If such delineation is not available, use 1000.02F.2.
  2. [Wetlands](#) identified in Lake County Wetland Inventory maps (most current LCWI map).
- G. A [farmed wetland](#) determination for [development](#) sites in accordance with the current U.S. Natural Resources Conservation Service methodology. The farmed wetland boundaries shall be shown on the plan and aerial photograph in 1000.02A and 1000.02B.

### §1001 Jurisdictional Determination

The [applicant](#) shall provide a valid, written jurisdictional determination (JD) from the U.S. Army Corps of Engineers or a Corps-approved agency, as to which wetlands on the [development](#) site are [Isolated Waters of Lake County](#) or [Waters of the United States](#). A copy of the jurisdictional determination shall be included with the wetland submittal.

### §1002 Isolated Waters of Lake County Exclusions

Excluded areas are as specified in Appendix A: Definitions of [Isolated Waters of Lake County](#).

### §1003 Letter of No Impact

**1003.01** For development containing Waters of the United States or Isolated Waters of Lake County, but with no proposed impacts, the following information is required for a Letter of No Impact (LONI):

- A. A cover letter describing the proposed activity;
- B. Development plan(s) as specified in 1005.01D;
- C. A wetland hydrology analysis meeting the requirements of §1006 Wetland Hydrology for Isolated Waters of Lake County where there is a proposed modification of tributary drainage area or surface runoff volume to Isolated Waters of Lake County;
- D. A letter from the U.S. Army Corps of Engineers stating that the proposed development will not impact Waters of the United States, if required by SMC or the Isolated Wetland Certified Community.

### §1004 Waters of the United States Impacts

**1004.01** The following information is required:

- A. Wetland delineation and [wetland](#) determination report as specified in §1000 Wetland Delineation of this Ordinance.
- B. A U.S. Army Corps of Engineers permit for the proposed [development](#) or a letter from the Corps stating that the proposed development does not require Corps authorization.
- C. [Buffer](#) area requirements as specified in §505 Buffer Areas of this Ordinance.

- D. All [wetland impacts](#) occurring in Lake County that exceed the [mitigation](#) threshold of the Corps regulatory program shall be mitigated for in Lake County at the mitigation ratio specified by the Corps for that [development](#) impact.

## §1005 Isolated Waters of Lake County Impacts

1005.01 The following information is required:

- A. A cover letter signed by a [Certified Wetland Specialist](#) that provides a clear project purpose and need statement, a description of the proposed activity, area (in acres) of [wetland impact](#), and a statement on the category to be used as follows:
1. Category I: [Wetland impacts](#) less than or equal to one (1) acre and does not impact [high-quality aquatic resources](#);
  2. Category II: [Wetland impacts](#) greater than one (1) acre and less than two (2) acres and does not impact [high-quality aquatic resources](#);
  3. Category III: [Wetland impacts](#) greater than or equal to two (2) acres or impacts [high-quality aquatic resources](#); and
  4. Category IV: [Wetland impacts](#) for the restoration, creation, and enhancement of [wetlands](#) provided that there are net gains in aquatic resource function. Category IV activities include shoreline and streambank [erosion](#) restoration described in 704.04.
- B. A completed [Watershed Development Permit](#) Application form signed by a [Certified Wetland Specialist](#).
- C. A delineation of the [wetlands](#) consistent with the requirements provided in §1000 Wetland Delineation of this Ordinance.
- D. Development site plan(s) meeting the requirements of Article 4: Application Requirements of this Ordinance showing the boundaries of all existing wetlands or water bodies on the ownership parcel, including the development site and the areas of proposed wetland impacts.
- E. Current documentation on the occurrence of any [high-quality aquatic resources](#) on or adjoining the [development](#).
- F. A wetland hydrology assessment per §1006 Wetland Hydrology for Isolated Waters of Lake County, as applicable.
- G. Documentation that the [development](#) is in compliance with the Illinois Department of Natural Resources' Endangered Species Consultation Program and the Illinois Natural Areas Preservation Act [520 ILCS 10/11] and [525 ILCS 30/17].
- H. For [developments](#) involving State of Illinois funding or pass-through funding, documentation that the development is in compliance with the Interagency Wetland Policy Act of 1989 [20 ILCS 830] as administered by the Illinois Department of Natural Resources.
- I. Documentation that the [development](#) is in compliance with the U.S. Fish and Wildlife Service's consultation program under the Endangered Species Act.

- J. A [mitigation](#) plan meeting the requirements of §1007 Mitigation for Isolated Waters of Lake County of this Ordinance.
- K. A copy of the Natural Resources Information Report (NRI) for [development](#) that is required to obtain a NRI performed by the McHenry-Lake County Soil and Water Conservation District pursuant to state statute [70 ILCS 405/22.02a].
- L. A narrative of the alternative measures taken to avoid, minimize, or mitigate for [wetland impacts](#) to [Isolated Waters of Lake County](#) (Category II requirement only, see 1005.01A.2).
- M. Category III Wetland Impacts (1005.01A.3)
  - 1. A narrative of the measures taken, in sequence, to avoid and minimize [wetland impacts](#) to [Isolated Waters of Lake County](#) before [mitigation](#) is considered.
  - 2. Upon concurrence of the [Enforcement Officer](#) and the SMC or the Isolated Waters of Lake County-Certified Community's [Certified Wetland Specialist](#) that a [Watershed Development Permit](#) application meets all other [wetland](#) submittal requirements of this Ordinance, the SMC or the Isolated Waters of Lake County-Certified Community's Certified Wetland Specialist shall issue a Technical Notification to USACE, IDNR, IEPA, USFWS, and the SMC requesting comments with respect to the proposed [wetland impacts](#) within fifteen (15) working days. The SMC or the Isolated Waters of Lake County-Certified Community's Certified Wetland Specialist shall receive the comments and copies of the comments shall be forwarded to the [applicant](#) for response. Full consideration of the comments and applicant's response shall be evaluated by the SMC or the Isolated Waters of Lake County-Certified Community's Certified Wetland Specialist for compliance with 102.10 prior to approval of wetland provisions and permit issuance.
  - 3. The SMC shall review and issue Category III (1005.01A.3) wetland authorizations for [development](#) sites occurring in more than one local unit of government jurisdiction.
- N. Category IV Wetland Impacts (1005.01A.4)
  - 1. A narrative on the benefits to the aquatic environment of the proposed [development](#).
  - 2. Shoreline and streambank [erosion](#) restoration that meet the requirements contained in 704.04 are exempt from the submittal requirements contained in this section.
  - 3. [Isolated Waters of Lake County](#) that are used for detention and not for [mitigation](#) credit per §1008 Detention in Isolated Waters of Lake County shall be exempt from the submittal requirements of 1005.01J.

## §1006 Wetland Hydrology for Isolated Waters of Lake County

The following hydrology requirement applies to [Isolated Waters of Lake County](#) located wholly or partially within the ownership parcel, including the [development](#) site. The runoff volume reduction requirements (503.02) may be modified to satisfy the wetland hydrology requirement for the portion of the development site tributary to the wetland.

- 1006.01** The development design shall maintain between 80% and 150% of the existing condition, 2-year, 24-hour storm event runoff volume from the on-site tributary drainage area to the preserved Isolated Waters of Lake County. The following minimum information shall be submitted to address this provision:
- A. An exhibit illustrating the existing condition and with-project tributary drainage areas; and
  - B. Existing condition and with-project runoff volume calculations (including land use and soil type documentation); and
  - C. Existing condition and with-project runoff volume determination. For proposed development that will change the size of an Isolated Waters of Lake County, the proposed to existing conditions runoff volume ratio shall be adjusted according to the change in wetland size, to determine if the hydrology threshold has been met; and
  - D. The development shall include a design for the stormwater management system that maintains or replicates the existing hydrologic condition of the wetland, unless changes are proposed to enhance the wetland function.
- 1006.02** A wetland impact to Isolated Waters of Lake County shall be assumed and the mitigation requirements of §1007 Mitigation for Isolated Waters of Lake County of this Ordinance shall apply if the development does not meet provisions of 1006.01. The hydrologic wetland impact shall be in addition to other wetland impacts to Isolated Waters of Lake County (e.g., filling, excavation, drainage, etc.). The amount of wetland impact shall be determined as follows:
- A. For Isolated Waters of Lake County wholly on-site: The total area of the impacted Isolated Waters of Lake County not meeting the provisions of 1006.01; and
  - B. For Isolated Waters of Lake County located partially on-site: The ratio of on-site tributary drainage area to total tributary drainage area multiplied by the with-project area of the impacted Isolated Waters of Lake County.

## §1007 Mitigation for Isolated Waters of Lake County

- 1007.01** Mitigation is required within Lake County for:
- A. Wetland impacts greater than or equal to one-tenth (0.10) acre of Isolated Waters of Lake County including those that are high-quality aquatic resources (HQAR).
  - B. For single-lot, single-family residences, provided the activity is a single and complete project: Wetland impacts greater than one-quarter (0.25) acre of Isolated Waters of Lake County or one-tenth (0.10) acre of Isolated Waters of Lake County that are high-quality aquatic resources.
- 1007.02** Mitigation shall provide for the replacement of the wetland environment lost to development at the following proportional rates (i.e., creation acreage to wetland impact acreage):
- A. For wetland impacts to areas that are not high-quality aquatic resources under Categories I, II, and III (1005.01A.1, 1005.01A.2, and 1005.01A.3, respectively), a minimum of 1.5:1 mitigation ratio shall be required or a minimum 1:1 mitigation ratio for fully certified wetland mitigation bank credits.

- B. A minimum of 3:1 for wetland impacts that are high-quality aquatic resources.
- C. A minimum of 6:1 for wetland impacts that are high quality forested wetlands as defined in Appendix L: High-Quality Aquatic Resources.
- D. For wetland impacts to open waters that are not high-quality aquatic resources under Categories I, II, and III (1005.01A.1, 1005.01A.2, and 1005.01A.3, respectively), a minimum of 1:1 mitigation ratio shall be required.

**1007.03** Space intentionally left blank

**1007.04** Mitigated Isolated Waters of Lake County shall be designed to duplicate or improve the hydrologic and biologic features of the original wetland impact area.

**1007.05** A Project Mitigation Document (PMD) shall be submitted for all mitigation projects in conformance with Appendix N: WDO Mitigation Requirements and Guidelines for Isolated Waters of Lake County Impacts of this Ordinance. Appendix N: contains requirements for performance standards, monitoring, and completion standards.

**1007.06** Creation of wetlands for the mitigation of wetland impacts shall not take place within detention facilities. Enhancement of farmed wetlands meeting the size criterion in 1009.01A of this Ordinance may be used for up to 80% of the mitigation requirement.

**1007.07** Enhancement of existing non-farmed wetlands may be credited at up to 25% of the enhanced wetland acreage completed, provided that the wetland impact acreage created is at a minimum 1:1 ratio and the mitigation hierarchy in 1009.01 is followed.

**1007.08** A five-year wetland mitigation surety for 110% of mitigation cost shall be submitted prior to obtaining a permit. The mitigation surety shall include the costs for construction, monitoring, and management activities during the 5-year performance period.

**1007.09** A wetland mitigation management and monitoring plan indicating the legally responsible parties for long-term operation and maintenance and dedicated funding sources shall be submitted.

**1007.10** Mitigation areas shall have the same buffer area requirements and mitigation credit for established buffer areas as described in Appendix M: SMC-Approved Wetland Mitigation Banking Requirements for SMC approved wetland mitigation banks.

**1007.11** The developer shall provide annual monitoring reports on the status of the constructed mitigation measures. The developer shall undertake all necessary remedial action to bring the area into compliance with the wetland mitigation plan.

**1007.12** Wetland impacts occurring prior to issuance of a WDO Permit shall presume the wetland disturbed was a high-quality aquatic resource requiring mitigation at a minimum rate of 3:1, except 6:1 for wetland impacts that are forested wetlands as defined in Appendix L: High-Quality Aquatic Resources.

**1007.13** Mitigation areas shall be protected by a deed or plat restriction for that purpose.

## §1008 Detention in Isolated Waters of Lake County

**1008.01** Detention shall only be allowed in the following [Isolated Waters of Lake County](#) and may not be considered a [wetland impact](#), subject to provisions of 1008.02 and 1008.03:

- A. [Farmed wetlands](#).
- B. Non-farmed wetlands that are not high-quality aquatic resources when the existing vegetated wetland acreage (not including open water area) is either:
  1. Covered by a minimum of 85% of one (1) or more of the following species:
    - a. Reed canary grass (*Phalaris arundinacea*)
    - b. Purple loosestrife (*Lythrum salicaria*)
    - c. Common reed (*Phragmites australis*)
    - d. Buckthorn (*Rhamnus* spp.)
  2. Has an FQI of seven (7) or less.
- C. [Isolated Waters of Lake County](#) comprised of open water that are not [high-quality aquatic resources](#) (HQARs).
- D. Non-farmed wetlands not meeting 1008.01B that are not high-quality aquatic resources and wholly located within a deed or plat restriction may be utilized for detention greater than the required 2-year, 24-hour volume. The outlet design shall maintain or replicate the existing hydrologic condition of the wetland, unless changes are proposed to enhance the wetland function. Excavation or grading shall be considered an impact under the appropriate impact Category I, II, or III (1005.01A.1, 1005.01A.2, or 1005.01A.3, respectively).

**1008.02** The following shall apply when using [Isolated Waters of Lake County](#) for detention and not for [wetland](#) enhancement [mitigation](#) credit:

- A. The [applicant](#) shall use a wetland detention basin, and shall re-establish vegetation within the detention basin using the [Native Plant Guide for Streams and Stormwater Facilities in Northeastern Illinois](#), NRCS, et al., (as amended) as a minimum standard for the re-vegetation plan.
- B. Reduction of wetland area within the existing delineated wetland boundary from existing to proposed conditions shall be reviewed as an impact under the appropriate impact Category I, II, or III (1005.01A.1, 1005.01A.2, or 1005.01A.3, respectively).
- C. Excavation of existing wetland as part of the proposed wetland detention basin design shall be reviewed under Category IV (1005.01A.4) meeting the criteria of 1008.01A, 1008.01B, and 1008.01C.
- D. The wetland hydrology thresholds of §1006 Wetland Hydrology for Isolated Waters of Lake County shall apply for Isolated Waters of Lake County meeting the criteria of 1008.01A and 1008.01D.
- E. The requirements for water quality treatment of §504 Water Quality Treatment shall apply upstream of the Isolated Waters of Lake County.
- F. The [maintainable outlet](#) requirements of 502.03 shall apply.

**1008.03** The following shall apply when using Isolated Waters of Lake County for detention and for wetland enhancement mitigation credit:

- A. Isolated Waters of Lake County meeting the criteria of 1008.01 may be used for wetland enhancement mitigation credit.
- B. Wetland enhancement within the proposed detention basin shall be reviewed under Category IV (1005.01A.4) requirements, and the performance standards listed in Appendix N: H: PERFORMANCE STANDARDS, shall apply.
- C. Reduction of wetland area within the existing delineated wetland boundary from existing to proposed conditions shall be reviewed as an impact under the appropriate impact Category I, II, or III (1005.01A.1, 1005.01A.2, or 1005.01A.3, respectively).
- D. The mitigation requirements of §1007 Mitigation for Isolated Waters of Lake County shall apply.
- E. The wetland hydrology thresholds of §1006 Wetland Hydrology for Isolated Waters of Lake County shall apply.
- F. The requirements for water quality treatment of §504 Water Quality Treatment shall apply upstream of the Isolated Waters of Lake County.

## **§1009 Mitigation Hierarchy for Waters of the United States and Isolated Waters of Lake County**

**1009.01** Mitigation Hierarchy

A. Size Requirements

- 1. If the required [mitigation](#) acreage is less than one and one-half (1.5) acres, mitigation requirements shall follow the mitigation hierarchy in 1009.01.B.2 through 1009.01.B.4. If on-site mitigation increases an existing on-site [wetland](#) size to greater than or equal to one and one-half (1.5) acres, the [applicant](#) may use the mitigation hierarchy in 1009.01.B.1.
- 2. If the required [mitigation](#) acreage is one and one-half (1.5) acres or greater, mitigation requirements shall follow the mitigation hierarchy in 1009.01.B.1 through 1009.01.B.4.

B. Hierarchy

All [mitigation](#) shall occur in Lake County. Mitigation shall use the following hierarchy. Allowance to the next lower step is permitted only when justified through sequencing specified in 1005.01L and 1005.01M or when the higher step is not available or as specified in 1009.01.B.4:

- 1. On-site [wetland mitigation](#) meeting the requirements of the project mitigation document.
- 2. In the same [watershed](#) as [wetland impact](#): A U.S. Army Corps of Engineers Approved Wetland Mitigation Bank; or a SMC Approved Wetland Mitigation Bank; or off-site [wetland mitigation](#) meeting the requirements of the project mitigation document.
- 3. Outside of the [watershed](#) (at double the required [mitigation](#) acreage): A U.S. Army Corps of Engineers Approved Wetland Mitigation Bank; or a

SMC Approved Wetland Mitigation Bank; or off-site [wetland](#) mitigation meeting the requirements of the project mitigation document.

4. [SMC Wetland Restoration Fund](#). This [mitigation](#) option may only be used for [wetland impacts](#) where there are no available mitigation credits within the [watershed](#) and the corresponding fees and mitigation ratios shall be charged at the 'in-watershed' rate.

## Article 11: Inspections and Access

### §1100 Access Authority

Representatives of the SMC and of any federal, state, and local unit of government are authorized to enter upon any land or water to [inspect development](#) activity and to verify the existing conditions of a development site that is currently under permit review.

### §1101 Inspections

**1101.01** The [Enforcement Officer](#) may [inspect](#) site [development](#) at any stage in the construction process. For major developments, the Enforcement Officer shall conduct site inspections, at a minimum, at the end of the construction stages 1101.02A and 1101.02G. Construction plans approved by the Enforcement Officer shall be maintained at the development site during progress of the work.

**1101.02** The [Designated Erosion Control Inspector](#) (DECI) shall conduct inspections and document as described below, at a minimum, at the intervals in 1101.02A and 1101.02F, for those developments that require a Designated Erosion Control Inspector, until permanent stabilization and Enforcement Officer approval of appropriate as-built documentation and drawings.

- A. Upon completion of installation of sediment and runoff control measures (including perimeter controls and diversions), prior to proceeding with any other earth disturbance or grading.
- B. After stripping and clearing.
- C. After rough grading.
- D. After final grading.
- E. After seeding and landscaping deadlines.
- F. After every seven (7) calendar days or storm event with greater than one-half (0.5) inch of rainfall or [liquid equivalent precipitation](#).
- G. After final stabilization and landscaping, prior to removal of sediment and erosion controls.
- H. After removal of erosion and sediment controls.

**1101.03** Designated Erosion Control Inspector inspections may be performed at a reduced frequency, at the discretion of the Enforcement Officer, for projects with a valid Watershed Development Permit, that are permanently stabilized, have submitted a Notice of Termination to IEPA, and are entering a prolonged period of inactivity. Designated Erosion Control Inspector inspections shall only be required after storm events with greater than one-half (0.5) inch of rainfall or [liquid equivalent precipitation](#).

**1101.04** If a [wetland mitigation](#) area is constructed as part of the [Watershed Development Permit](#), the SMC or Isolated Waters of Lake County-Certified Community's [Certified Wetland Specialist](#) shall, at a minimum, perform the following inspections:

- A. After final grading and before seeding or plant installation.
- B. After seeding and plant installation.
- C. Annual inspections during the 5-year monitoring and maintenance period.

## §1102 Additional Protective Measures

- 1102.01** If at any stage of the grading of any development site the Enforcement Officer determines that the nature of the site is such that further work authorized by an existing permit is likely to imperil any property, public way, stream, lake, wetland, or drainage structure, the Enforcement Officer may require, as a condition of allowing the work to be done, that such reasonable additional protective measures be taken as is considered advisable to avoid the likelihood of such peril. Additional protective measures may include, but shall not be limited to, a more level exposed slope, construction of additional drainage facilities, berms, terracing, compaction, or cribbing, installation of plant materials for erosion control, and recommendations of a licensed soils engineer and/or engineering geologist which may be made requirements for further work.
- 1102.02** Where the Enforcement Officer determines that storm damage may result or has resulted because the grading on any development site is not complete, work may be stopped and the permittee required to install temporary structures or take such other measures as may be required to protect adjoining property or the public safety. On large developments or where unusual site conditions prevail, the Enforcement Officer may require that the operations be conducted in specific stages so as to ensure completion of protective measures or devices prior to the advent of seasonal rains.

## §1103 Designated Erosion Control Inspector Responsibilities

The Designated Erosion Control Inspector (DECI) shall inspect the development site as specified in 1101.02 and 1101.03 and, at a minimum, perform the following:

- 1103.01** Keep a copy of the Enforcement Officer-approved soil erosion and sediment control plans at the development site at all times.
- 1103.02** Keep a written log of all inspections that shall contain, at a minimum, conditions of the soil erosion and sediment control measures and any corrective actions that need to be taken. The Designated Erosion Control Inspector log shall be kept at the development site at all times and shall be made available for inspection upon request of the Enforcement Officer.
- 1103.03** Notify the Enforcement Officer within 24 hours when the development site is determined to be not in compliance with this Ordinance or the approved soil erosion and sediment control plans and the proposed corrective measures to be taken.
- 1103.04** Recommend to the applicant additional soil erosion and sediment control prevention measures, if necessary, to reduce sediment leaving a development.
- 1103.05** For development requiring conformance with §602 Stormwater Quality Runoff Standards, the Designated Erosion Control Inspector is responsible for site runoff sampling and reporting requirements.

## Article 12: Penalties and Legal Actions for Non-Compliance

### §1200 Stop Work Order

Whenever an [Enforcement Officer](#) finds a violation of this Ordinance, or of any permit or order issued pursuant thereto, within their respective jurisdiction, the Enforcement Officer may issue a stop work order on [development](#) activity on the subject property or on the portion of the activity in direct violation of the Ordinance. In every case, the Enforcement Officer shall issue an order that: (1) describes the violation; (2) specifies the time period for remediation; and (3) requires compliance with this Ordinance prior to the completion of the activity in violation.

### §1201 Fines

Failure to comply with any of the requirements of this Ordinance shall constitute a violation. Any violation thereof shall be subject to a fine of not more than one thousand (\$1000.00) dollars for each violation. Each day the violation continues shall be considered a separate offense.

### §1202 Legal Actions

**1202.01** The SMC or [Certified Community](#) may also take any other legal action necessary to prevent or remedy any violation including appropriate equitable or injunctive relief and, if applicable, an assessment to the violator for the removal, correction, or termination of any adverse effects upon any property resulting from any unauthorized activity for which legal action under this section may have been brought.

**1202.02** SMC or the [Certified Community](#) may record a notice of violation on the title to the property at the Lake County Recorder of Deeds Office.

**1202.03** The [Enforcement Officer](#) shall inform the owner that any such violation is considered a willful act to increase [flood](#) damages and, therefore, may cause coverage by a Standard Flood Insurance Policy to be suspended.

**1202.04** The SMC may enforce violations of this Ordinance in accordance with the Lake County Administrative Adjudication Ordinance.

## Article 13: Variances

### §1300 Administration

The Enforcement Officer, upon application, after hearing, and subject to the process and standards that follow, may grant variances to the provisions of this Ordinance as will not cause detriment to the public good, safety, or welfare nor be contrary to the spirit, purpose, and intent of this Ordinance where, by reason of unique and exceptional physical circumstances or condition of a particular property, the literal enforcement of the provisions of this Ordinance would result in an unreasonable hardship.

**1300.01** In communities that have received both Standard and Isolated Wetland Certifications, the community's Enforcement Officer shall administer the variance provisions.

**1300.02** In communities that have received only Standard Certification, the community's Enforcement Officer shall administer the variance provisions except for the Wetland provisions (Article 10: Wetland Requirements), which will be administered by the SMC Chief Engineer.

**1300.03** For development requiring a Watershed Development Permit from the SMC, the SMC Chief Engineer shall administer the variance provisions.

**1300.04** A public notice will be issued inviting public comment on proposed variances for major developments. In a Certified Community, a copy of the public notice shall be sent to the SMC Chief Engineer a minimum of thirty (30) days before the ruling to allow for SMC comment on the variance being issued. For variances under the administration of the SMC, the SMC shall send a copy of the public notice to the community a minimum of thirty (30) days before the ruling to allow for community comment

**1300.05** Written findings shall be made public for variances and shall be on file with the SMC.

### §1301 Variance Criteria

**1301.01** Variances shall be granted only upon:

- A. Showing of good and sufficient cause; and
- B. A determination that the variance is the minimum necessary to afford relief, considering the flood hazard and water quality; and
- C. A finding that failure to grant the variance would result in exceptional hardship to the applicant; and
- D. A finding that the granting of a variance would not result in increased flood heights, additional threats to public safety, or extraordinary public expense, nor create nuisances, cause fraud, or victimization of the public, nor conflict with existing local laws or ordinances and that all buildings will be protected by methods that minimize flood damage below the base flood elevation; and
- E. A finding that the development activity cannot be located outside the Regulatory Floodplain; and
- F. A determination that the activity is not in a Regulatory Floodway. No variances shall be granted to any development located in a Regulatory Floodway. No variance shall be granted pertaining to 701.02 Development in the Regulatory

Floodplain Without Regulatory Floodway, §703 Regulatory Floodway Performance Standards, and §707 Bridge, Culvert Crossing, and Roadway Approach Performance Standards; and

- G. The applicant's circumstances are unique and do not represent a general problem; and
- H. The granting of the variance will not alter the essential character of the area involved including existing stream uses.

## §1302 Conditions and Special Considerations

- 1302.01** Upon consideration of the factors noted in §1301 Variance Criteria and the intent of the Ordinance, the Enforcement Officer may attach such conditions to the granting of a variance deemed necessary to further the purposes and objectives herein.
- 1302.02** Variances requested in connection with restoration of a historic site or building listed on the National Register of Historical Places or documented as worthy of preservation by the Illinois Historic Preservation Agency may be granted using criteria more permissive than the requirements contained in Article 13: Variances.
- 1302.03** The Enforcement Officer shall notify an applicant in writing that a variance from the requirements of §706 Building Protection Requirements that would lessen the degree of protection to a building will result in increased premium rates for flood insurance up to amounts as high as \$25 for \$100 of insurance coverage, increase the risks to life and property, and require that the applicant will acknowledge in a signed exception to title the assumption of the risks and liability and will pay upon approval of the variance a recording fee above and beyond the usual permit review fee.
- 1302.04** In a Regulatory Floodplain without a Regulatory Floodway where the tributary drainage area is 640 acres or more, a variance may not be granted that will result in a loss of the Regulatory Floodplain storage of greater than 10% of the existing Regulatory Floodplain storage on the site.
- 1302.05** Variances requested in connection with the redevelopment of previously developed sites, that will further the public policy goals of downtown redevelopment and neighborhood revitalization, may be granted a variance provided the variance would not result in an increase in the pre-redevelopment runoff rate or volume and there will exist adequate downstream stormwater capacity. No variance shall be granted pertaining to Article 7: Regulatory Floodplain and Floodway Requirements.
- 1302.06** Due to the unique nature of public road developments occurring in a narrow right-of-way instead of an expansive tract of land, variances requested in connection with public road developments that will further the public policy of minimizing the condemnation of private or public property may be granted using criteria more permissive than the requirements of §1301 Variance Criteria to the minimum extent necessary to achieve the minimal amount of condemnation. No variances shall be granted pertaining to 701.02 Development in the Regulatory Floodplain Without Regulatory Floodway, §703 Regulatory Floodway Performance Standards, and §707 Bridge, Culvert Crossing, and Roadway Approach Performance Standards.

## Article 14: Appeals

### §1400 Appeal Process

- 1400.01** Any permit [applicant](#) aggrieved by the denial or conditions of a [Watershed Development Permit](#), Earth Change Approval, Conditional Approval, or Variance by a [Certified Community's Enforcement Officer](#) may request review thereof by the Certified Community's board of elected officials or the appropriate body within thirty (30) days of the disputed act or actions.
- 1400.02** Any permit [applicant](#) aggrieved by a permit decision, the denial or conditions of a [Watershed Development Permit](#), Earth Change Approval, Conditional Approval, or Variance by the [SMC Chief Engineer](#) may request review thereof by the SMC Director within thirty (30) days of the disputed act or actions.
- 1400.03** Any permit [applicant](#) aggrieved by a permit decision, the denial or conditions of a [Watershed Development Permit](#), Earth Change Approval, Conditional Approval, or Variance by the SMC Director may appeal it to the SMC by written notice filed with the SMC Director within thirty (30) days of the disputed act or actions.

## Article 15: Disclaimer of Liability

It is recognized that although the degree of flood protection required by this Ordinance is considered reasonable for regulatory purposes and is based on scientific and engineering considerations, on occasions greater floods can and will occur, and flood heights may be increased by man-made or natural causes. These provisions do not imply that land outside the flood-plain areas or that uses permitted within such areas will be free from flooding or flood damages. These provisions shall not create liability on the part of the Stormwater Management Commission nor any Certified Community nor any officer or employee thereof for any claims, damages, or liabilities that result from reliance on this Ordinance or any administrative decision lawfully made thereunder.

## **Article 16: Separability**

The provisions of this Ordinance shall be deemed separable and the invalidity of any portion of this Ordinance shall not affect the validity of the remainder.

## **Article 17: Abrogation and Greater Restrictions**

This Ordinance is not intended to repeal, abrogate, or impair any existing deed or plat restrictions. Where this Ordinance and other ordinance [deed or plat restrictions](#) conflict or overlap, whichever imposes the more stringent restrictions shall prevail. This Ordinance is intended to repeal the original Ordinance or resolution which was adopted to meet the National Flood Insurance Program regulations, but is not intended to repeal the resolution which the [community](#) passed in order to establish initial eligibility for the program.

## Appendix A: Definitions

adequate downstream stormwater capacity: A [stormwater management system](#) shall be considered to have adequate downstream stormwater capacity if the system can be shown to store or convey up to and including the 100-year stormwater runoff without increasing [damage](#) to adjoining properties or to a point downstream known to the [Enforcement Officer](#) to be a restriction causing significant backwater.

agricultural practices: These practices include: normal farming, silviculture, and ranching activities such as gardening, plowing, seeding, cultivating, harvesting for the production of food, fiber, forest products, nursery stock, and livestock; maintenance of agricultural drain tiles, irrigation and drainage ditches; maintenance of farm roads and other access areas for farm vehicles and equipment use.

applicant: Any person, firm, or governmental agency who owns property or the duly appointed representative that wishes to develop that property and one who executes the necessary forms to procure permit to carry out such [development](#) from the SMC or Certified Community.

Appropriate Use: Only uses of the [Regulatory Floodway](#) that are permissible and will be considered for permit issuance. The only uses that will be allowed are as specified in §703 Regulatory Floodway Performance Standards.

as-built drawings: See [record drawings](#).

base flood: The [flood](#) having a one percent (1%) probability of being equaled or exceeded in any given year. The base flood is also known as the 100-year frequency flood event. Application of the [base flood elevation](#) at any location is as defined in §700 Location of Regulatory Floodplain, Base Flood Elevation, and Regulatory Floodway of this Ordinance.

base flood elevation(BFE): The elevation delineating the level of flooding resulting from the 100-year flood frequency storm event.

basement: Any area of a building having its floor subgrade (below grade level) on all sides.

basin: Sub-[watershed](#) areas within Lake County that include the Fox River mainstem (including the Chain O' Lakes), Flint Creek, Tower Lake Drain, Slocum Drain, Mutton Creek, Squaw Creek, Fish Lake Drain, Sequoit Creek, the Des Plaines River mainstem, South Mill Creek, North Mill Creek, Newport Drainage Ditch, Bull Creek, Indian Creek, Aptakisic Creek, Buffalo Creek, Skokie River, Middle Fork-North Branch Chicago River, West Fork-North Branch Chicago River, Kellogg Creek, Dead River, Waukegan River, Pettibone Creek, and Lake Michigan Bluff/Ravines.

basin plan: A study and evaluation of an individual drainage basin's stormwater management and flood control needs.

building: A [structure](#) that is principally above ground and is enclosed by walls and a roof. The term includes a gas or liquid storage tank, a [manufactured home](#), mobile home, or a prefabricated building. This term also includes recreational vehicles and travel trailers to be installed on a site for more than 180 days.

buffer: An area of predominantly vegetated land to be left open, adjacent to drainageways, [wetlands](#), [lakes](#), ponds, or other surface waters for the purpose of eliminating or minimizing adverse impacts to such areas.

## Appendix A: Definitions

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by-pass: To route tributary [drainage area](#) runoff around and not through a stormwater control structure.

Certified Community: A community which has petitioned the SMC and has been found by the SMC to be capable of enforcing an ordinance (or ordinances) which contain stormwater and [Regulatory Floodplain](#) management rules and regulations which are consistent with, or at least as stringent as these of, this Lake County Watershed Development Ordinance.

Certified Wetland Specialist: Person meeting the minimum requirements of A., B., C., and D., as follows:

- A. Provide a one (1) page statement of qualifications in the areas noted below. The signed statement will be considered as evidence of qualifications.
- B. Pass the Certified Wetland Specialist Exam.
- C. Completion of a SMC-approved [wetland](#) delineation course and meet the requirements of one (1) of the following:
  1. Registered Professional Wetland Scientist (PWS) from the Society of Wetland Scientists; or
  2. Minimum of a Bachelor's Degree in an Earth Science or Biologic Science and at least one (1) of the following: Three (3) years (cumulative) full-time experience in the Upper Midwest Region on [wetland](#)-related projects; or the completion of one hundred (100) wetland delineations in the Upper Midwest; or a minimum of three hundred (300) hours spent in field review of wetlands in the Upper Midwest; or
  3. Six (6) years (cumulative) full-time experience in the Upper Midwest Region on wetland-related projects.
- D. Recertification as a Certified Wetland Specialist shall be required every three (3) years through the SMC. A minimum of twenty-four (24) work-related professional development hours including SMC mandatory training for this type of certification shall be obtained within the three-year period in order to qualify for recertification. Documentation shall be self-monitoring and shall be provided to SMC upon application of certification or recertification.

channel: Any river, [stream](#), creek, brook, branch, [natural](#) or artificial depression, ponded area, [lake](#), flowage, slough, ditch, conduit, culvert, gully, ravine, [swale](#), wash, or natural or man-made drainageway, in or into which surface or groundwater flows, either perennially or intermittently.

channel modification: Alteration of a channel by changing the physical dimensions or materials of its bed or banks. Channel modification includes damming, rip-rapping or other armoring, widening, deepening, straightening, relocating, and lining and significant removal of bottom or woody vegetation of the channel. Channel modification does not include the clearing of dead or dying vegetation, debris, or trash from the channel.

community: Any municipality, as defined in state statute [65 ILCS 5/1-1-2], or the unincorporated county within Lake County acting as a unit of local government.

compensatory storage: A volume of storage created to offset the loss or displacement of flood storage capacity due to a development activity.

conditional approval Regulatory Floodway map change: Pre-construction approval by the [IDNR/OWR](#) and the Federal Emergency Management Agency of a proposed change to the

Regulatory Floodway map and/or BFE. This pre-construction approval, pursuant to this Part, gives assurance to the property owner that once an Appropriate Use is constructed according to permitted plans, the Regulatory Floodway map and/or BFE can be changed, as previously agreed, upon review and acceptance of as-built plans.

Conditional Letter of Map Revision (CLOMR): A letter which indicated that the Federal Emergency Management Agency will revise base flood elevations, flood insurance rate zones, flood boundaries, or Regulatory Floodway and/or BFE as shown on an effective Flood Hazard Boundary Map or Flood Insurance Rate Map, once the as-built plans are submitted and approved.

control structure: A structure designed to control the rate of flow that passes through the structure, given a specific upstream and downstream water surface elevation.

critical duration: The design storm duration for a given frequency storm which produces the greatest peak flow, volume, or stage by analyzing all durations presented in Appendix I: Rainfall Depth Duration Frequency Tables for Lake County.

dam: All obstructions, wall embankments, or barriers, together with their abutments and appurtenant works, if any, constructed for the purpose of storing or diverting water or creating a pool. Underground water storage tanks are not included.

damage: A measurable rise in flood heights on property currently subject to flooding, flooding of property currently not subject to flooding unless it is contained within the streambanks or a deed or plat restricted area, or increases in velocity to the point where the rate of land lost to erosion and scour is significantly increased.

deed or plat restriction: Permanent easements, covenants, deed restricted open spaces, outlots, reserved plat areas, and conservation easements dedicated to meet the requirements of this Ordinance, or public road rights-of-way that contain any part of the stormwater management system of a development.

depressional storage areas: Non-riverine depressions where stormwater collects.

design storm: A selected storm event, described in terms of the probability of occurring once within a given number of years, for which stormwater or flood control improvements are designed and built.

Designated Erosion Control Inspector: A person responsible for, at a minimum, verifying compliance and on-going maintenance of the approved soil erosion and sediment control plan measures of a development and who is recommended to meet the minimum qualification requirements of A., B., C., and D., as follows:

- A. Provide a one (1) page statement of qualifications in the areas noted below and a request to be included on the SMC Designated Erosion Control Inspector qualified listing. The signed statement will be considered as evidence of qualifications.
- B. Pass the Designated Erosion Control Inspector Exam that is administered by the SMC.
- C. Complete a SMC-approved soil erosion and sediment control course and meet the requirements of one (1) of the following:
  1. Have an official designation as a Certified Professional in Erosion and Sediment Control (CPESC) or Certified Erosion, Sediment and Stormwater Inspector (CESSWI); or

2. Two (2) years cumulative experience in the Upper Midwest Region on soil erosion and sediment control inspections.
- D. The listing of Designated Erosion Control Inspectors shall be officially updated every three (3) years by the SMC. Continuing education requirements shall be as follows:
1. Attendance at each annual DECI training seminars shall be sufficient for the three-year listing period.
  2. Alternatively, DECI's must attend twenty-four (24) hours of work-related professional development hours within the three-year period for relisting.
- E. Documentation shall be self-monitoring and shall be provided to SMC upon application for listing.

Designated Erosion Control Inspector Exam: An exam that is formally adopted and administered by the Lake County [Stormwater Management Commission](#) to establish minimum qualifications for an individual to be listed as a [Designated Erosion Control Inspector](#) by the SMC.

detention facility: A man-made structure for the temporary storage of stormwater runoff with controlled release during or immediately following a storm.

Detention Volume Safety Factor: A multiplication factor applied to a [development's](#) detention volume when the [detention facility](#) is constructed on-stream.

development: Completion of a final plat, replat, or man-made change to private or public real estate including:

- A. Construction, [reconstruction](#), repair, or placement of a building or any addition to a building;
- B. Installation of a [manufactured home](#) on a site, preparation of a site for a manufactured home, or the placement of a recreational vehicle on a site for more than 180 days;
- C. Drilling, mining, installation of utilities, construction of roads, bridges, or similar projects;
- D. Clearing of land as an adjunct of construction;
- E. Construction or erection of levees, walls, fences, [dams](#), or culverts; [channel modification](#); filling, dredging, grading, excavating, paving, or other alterations of the ground surface; storage of materials; deposit of solid or liquid waste;
- F. Any other activity that might change the direction, height, volume, or velocity of [flood](#) or surface water, including the drainage of [wetlands](#) and removal of vegetation to the extent such that the wetland would no longer meet the criteria of supporting [hydrophytic vegetation](#) as defined in this Ordinance except that which would be considered appropriate for management purposes.

Development does not include maintenance of existing buildings and facilities such as resurfacing of roadways when the road elevation is not increased, or gardening, plowing, and similar agriculture practices that do not involve filling, grading, or construction of levees. Nor does development include agriculture practices outside of the [Regulatory Floodplain](#) involving filling or grading as part of a Natural Resources Conservation Service designed and approved conservation project (i.e., terraces, grass waterways). Additionally, development does not include fence installation, pole placement, drilling, or other minor auxiliary construction activity which does

not affect stormwater runoff rates or volumes as long as the development activity is not located in a Regulatory Floodplain, wetland, or channel.

dominant: For the purpose of this Ordinance, a dominant plant species is one that comprises greater than 50% of the vegetative layer. The vegetative layer is defined as a subunit of a plant community in which all component species exhibit the same growth form (e.g., trees, saplings, shrubs, herbs).

drain tile: A conduit, such as corrugated plastic tubing, clay tile, or pipe, installed beneath the ground surface to collect and/or convey drainage water.

drainage area: The land area above a given point that contributes stormwater to that point.

dry detention facility: A dry detention facility is a [detention facility](#) designed to drain completely after temporary storage of stormwater flows and to normally be dry over the majority of its bottom area.

elevation certificate: A form published by the Federal Emergency Management Agency that is used to certify the elevation to which a building has been constructed.

emergency overflow: The structure in a [stormwater management system](#) designed to protect the system in the event of a malfunction of the primary flow structure or a storm event greater than the system design. The emergency overflow capacity initiates at the facility design high water level or [base flood elevation](#).

Enforcement Officer: A person meeting the requirements of 201.02K and designated as follows:

- A. Within [communities](#) that have received Standard Certification, the Enforcement Officer shall be a person designated in writing by the community for the purpose of permitting [development](#), and administering and enforcing all of the provisions of this Ordinance except as noted in Article 13: Variances.
- B. Within [communities](#) that have not received Standard Certification, the Enforcement Officer shall be the [SMC Chief Engineer](#).
- C. Recertification as an Enforcement Officer shall be required every three (3) years through the SMC. A minimum of twenty-four (24) work-related professional development hours including SMC mandatory training for this type of certification shall be obtained within the three-year period in order to qualify for recertification. Documentation shall be self-monitoring and shall be provided to SMC upon application of certification or recertification.

erosion: The process whereby soil is removed by precipitation, flowing water, wave action, or wind.

farmed wetland: [Wetlands](#) that are farmed currently, or have been farmed within five (5) years previous to the permit application date, as defined in 7 CFR Part 12 (61 FR 47025).

fee-in-lieu of on-site stormwater storage: A fee assessed to a permit [applicant](#) used to contribute to the cost of a basin plan or [floodplain study](#) components; or other stormwater system improvements, "in-lieu-of" constructing on-site detention or for [compensatory storage](#) requirements for streambank and shoreline restoration fills of less than two hundred (200) cubic yards.

## Appendix A: Definitions

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**FEMA:** Federal Emergency Management Agency and its regulations codified as 44 CFR 59-79 effective as of October 1, 1986.

**flood:** A general and temporary condition of partial or complete inundation of normally dry land areas from overflow of inland or tidal waves, or the unusual and rapid accumulation of runoff of surface waters from any source.

**flood frequency:** A period of years, based on a statistical analysis, during which a [flood](#) of a stated magnitude may be expected to be equaled or exceeded.

**Flood Insurance Rate Maps (FIRM):** A map prepared by the Federal Emergency Management Agency or HUD that depicts the [Special Flood Hazard Area](#) (SFHA) within a [community](#). This map includes insurance rate zones and [Regulatory Floodplains](#) and may or may not depict [Regulatory Floodways](#).

**floodplain (regulatory):** See [Regulatory Floodplain](#).

**floodplain management:** An overall program of corrective and preventive measures for avoiding or reducing future [flood damage](#).

**floodplain study:** A study, formally adopted by the SMC, excluding [base flood](#) determinations performed for a specific [development](#) site, that examines, analyzes, evaluates, or determines the hydraulic and hydrologic characteristics of [flood](#) hazards for a [basin](#) or partial basin area. To be used as a regulatory instrument the study shall, at a minimum, meet the [FEMA](#) criteria specified in [Guidelines and Specifications for Flood Hazard Mapping Partners](#), most current version.

**flood-prone area:** Any area inundated by the [base flood](#).

**Flood Protection Elevation (FPE):** The elevation of the [base flood elevation](#) plus two (2) feet of [freeboard](#).

**flood-proofing:** Any combination of structural and non-structural additions, changes, or adjustments to structures or property which reduce or eliminate [flood damage](#) to real estate or improved real property, water and sanitary facilities, structures, and their contents.

**flood-proofing certificate:** A form published by the Federal Emergency Management Agency that is used to certify that a building has been designed and constructed to be structurally dry flood-proofed to the [Flood Protection Elevation](#).

**flood table land:** The land area immediately adjacent to [flood-prone areas](#) with greater than one hundred (100) acres of tributary [drainage area](#), the elevation of which is greater than the [base flood elevation](#) by two (2) feet or less.

**floodway (regulatory):** See [Regulatory Floodway](#).

**forested wetland:** A [wetland](#) area with thirty percent (30%) or greater areal coverage of trees. Trees refer to woody plants that are greater than three (3) inches in diameter at breast height (DBH) and with a height of greater than twenty (20) feet.

**freeboard:** An increment of height added to the [base flood elevation](#) to provide a factor of safety for uncertainties in calculations, unknown local conditions, wave actions, and unpredictable effects such as those caused by ice or debris jams.

## Appendix A: Definitions

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**functional assessment:** An assessment of a [wetland's](#) flood storage, water quality, and other beneficial functions.

**green infrastructure:** Any stormwater management technique or practice that reduces runoff volume through preserving, restoring, utilizing, or enhancing the processes of infiltration, evapotranspiration, and reuse. Approaches may include green roofs, naturalized detention facilities, trees and tree boxes, rain gardens, vegetated swales, wetlands, infiltration planters, porous and permeable pavements, porous piping systems, dry wells, vegetated median strips, reforestation/revegetation, rain barrels and cisterns, and protection and enhancement of riparian buffers and floodplains.

**high-quality aquatic resources (HQAR):** [Waters of the United States](#) or [Isolated Waters of Lake County](#) that are determined to be critical due to their uniqueness, scarcity, function, and/or value as defined in Appendix L: High-Quality Aquatic Resources of this Ordinance.

**historic structure:** A "Historic Structure" is any [structure](#) that is:

- A. Listed individually in the National Register of Historic Places or preliminarily determined by the Secretary of the Interior as meeting the requirements for individual listing on the National Register;
- B. Certified or preliminarily determined by the Secretary of the Interior as contributing to the historic district or a district preliminarily determined by the Secretary to qualify as a registered historic district;
- C. Individually listed on the State inventory of historic places by the Illinois Historic Preservation Agency; or
- D. Individually listed on a local inventory of historic places that has been certified by the Illinois Historic Preservation Agency.

**hydraulically equivalent compensatory storage:** [Compensatory storage](#) placed between the proposed normal water elevation and the proposed 100-year flood elevation. All storage lost or displaced below the existing 10-year flood elevation is replaced below the proposed 10-year flood elevation. All storage lost or displaced above the existing 10-year flood elevation is replaced above the proposed 10-year flood elevation. The additional compensatory storage required beyond a 1:1 ratio may be placed at any elevation between normal water level and the base flood elevation.

**hydrologic and hydraulic calculations:** Engineering analysis which determines expected [flood](#) flows and flood elevations based on land characteristics and rainfall events.

**hydric soil:** A soil that is saturated, flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part.

**hydrologically disturbed:** An area where the land surface has been cleared, grubbed, compacted, or otherwise modified to alter stormwater runoff, volumes, rates, flow direction, or inundation duration.

**hydrophytic vegetation:** Plant life growing in water, soil, or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content.

**IDNR/OWR:** Illinois Department of Natural Resources, Office of Water Resources, previously known as IDOT/DWR.

illicit discharge: Any discharge or dumping of material into the [stormwater management system](#) or a flood-prone area that is not composed entirely of stormwater, except for discharges allowed under NPDES Permit No. ILR40 Part I.B.2.

Illinois Urban Manual: The Natural Resources Conservation Service [Illinois Urban Manual](#). A technical manual designed for urban ecosystem protection and enhancement. This manual contains design guidance for a [development](#) site to meet the Watershed Development Ordinance performance standards for soil [erosion](#) and sediment control.

impervious surface: Any hard-surfaced, man-made area that does not readily absorb or retain water, including, but not limited to, building roofs, parking and driveway areas, graveled areas, sidewalks, and paved recreation areas.

in-kind replacement (culvert): An in-kind culvert replacement has an equivalent cross-sectional area, shape, roughness coefficient, and inlet and outlet elevations; or the replacement may be shown to have an equivalent hydraulic capacity using appropriate engineering calculations.

inspect: To visit, to review plans, or to oversee a site visit or plan review per generally accepted engineering practices.

Isolated Waters of Lake County: All waters such as [lakes](#), ponds, streams, [farmed wetlands](#), and wetlands that are not under U.S. Army Corps of Engineers jurisdiction. The limits of the Isolated Waters of Lake County extend to the [ordinary high water mark](#) or the delineated [wetland](#) boundary.

- A. The following are excluded from Isolated Waters of Lake County, as determined by the Enforcement Officer
  1. Excavations and impoundments that have received a permit from the appropriate jurisdictional authority.
  2. Excavations and impoundments permitted by right, prior to being a regulated activity, within 40% or more non-hydric soils. Areas designated as 'water' as depicted on the Soil Survey of Lake County, SCS, 1970 are determined as either hydric or non-hydric soils by connecting adjoining soil boundaries to create complete polygons of the depicted soil type.
  3. Wetlands created incidental to construction grading on development sites.
  4. [Roadside ditches](#).
- B. The following shall not be considered as meeting the exclusion criteria in Section A. of this definition:
  1. All areas meeting the definition of [high-quality aquatic resources](#).
  2. Wetland [mitigation](#) areas created to meet the requirements of this Ordinance or Section 404 of the Clean Water Act.
  3. Wetland areas created or restored using public funds.

lake: A [natural](#) or artificial body of water encompassing an area of two (2) or more acres which retains water throughout the year.

Letter of Map Amendment (LOMA): Official determination by [FEMA](#) that a specific [structure](#) is not in a [Special Flood Hazard Area](#); amends the effective Flood Hazard Boundary Map (FHBM) or [Flood Insurance Rate Map](#) (FIRM).

## Appendix A: Definitions

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Letter of Map Revision (LOMR): Letter issued by [FEMA](#) or [IDNR/OWR](#) that revises [base flood elevations](#), flood insurance rate zones, flood boundaries, or [Regulatory Floodways](#) as shown on an effective FHBM or FIRM.

Letter of No Impact (LONI): Written confirmation from SMC or Isolated Wetland Certified Community that no wetland impacts will occur from a proposed development, based on a review of plans or other applicable information provided by the applicant as specified in this Ordinance.

liquid equivalent precipitation: The amount of precipitation, including any frozen precipitation in its melted state (e.g., snow, sleet, freezing rain). With varying densities of frozen precipitation, the liquid equivalent precipitation indicates the actual amount of water that falls in a storm event, regardless of the type of precipitation.

low opening elevation: The elevation at which water could enter a [structure](#) through any non-watertight opening such as a doorway threshold, a window sill, or a [basement](#) window well.

lowest adjacent grade: The lowest finished grade adjacent to a [structure](#), not including the bottom of window wells.

lowest floor: Lowest floor of the lowest enclosed area, including [basement](#). An unfinished or flood resistant enclosure, usable solely for parking of vehicles, or building access in an area other than a basement area is not considered a building's lowest floor, provided that the requirements of 706.01B.2 are met.

maintainable outlet: A stormwater conveyance system (such as a storm sewer or overland flow path) that provides positive drainage to a [natural](#) watercourse or [stormwater management system](#). The natural watercourse or stormwater management system shall have [adequate downstream stormwater capacity](#). Stormwater management systems shall be within a recorded drainage easement or right-of-way.

manufactured home: A [structure](#), transportable in one or more sections, which is built on a permanent chassis and is designated for use with or without a permanent foundation when connected to the required utilities. The term manufactured homes also include park trailers, recreational vehicles, and other similar vehicles installed on-site for more than 180 consecutive days.

manufactured home park or subdivision: A parcel (or contiguous parcels) of land divided into two (2) or more [manufactured home](#) lots for rent or sale.

maximum extent practicable (MEP): For the purposes of this Ordinance, the maximum extent practicable (MEP) is defined as the highest level of runoff volume reduction (RVR) that is achievable for the development as determined by the applicant and approved by the Enforcement Officer (see Appendix O: Runoff Volume Reduction for runoff volume reduction quantities). The MEP RVR quantitative standard for the development shall not be required to exceed the minimum performance standards identified in 503.02. For public road developments, the MEP shall not necessitate the need to acquire right-of-way or deed and plat restricted areas outside of the right-of-way.

In making the determination that the RVR quantitative standard for the development is the MEP, the following objectives should be considered, when applicable, including, but not limited to:

- A. Prevention or reduction of existing, adjacent flood-related problems.
- B. Examination of adequate downstream capacity from the development.

- C. Preservation of existing wetland hydrology.
- D. Protection of adjacent streams from degradation due to increased volumes and prolonged bankfull flows.
- E. Minimization of off-site water quality impacts.
- F. Enhancement of aquifer recharge on-site.
- G. Evaluation of geographic features of the site (e.g., topography, soil structure, natural resources).
- H. Utilization of best available and feasible technology.
- I. Maximization of the performance of the design.
- J. Provide for sustainability through maintenance and management of the installed practices.

mitigation: Measures taken to eliminate or minimize [damage](#) from [development](#) activities, such as construction in [wetlands](#) or [Regulatory Floodplain](#) filling, by replacement of the resource.

NAVD 88: North American Vertical Datum of 1988. Supersedes NGVD29, effective September 18, 2013.

NGVD: National Geodetic Vertical Datum of 1929. Superseded by NAVD 88, effective September 18, 2013.

natural: When used in reference to streams and channels means those streams and channels formed by the existing surface topography of the earth prior to changes made by man. A modified [stream](#) and channel which has regained natural characteristics over time as it meanders and reestablishes vegetation may be considered natural.

non-riverine Regulatory Floodplain: [Regulatory Floodplains](#) not associated with streams, creeks, or rivers, such as isolated [depressional storage areas](#) or [lakes](#).

on-stream detention: Any [detention facility](#) that has off-site tributary [drainage area](#).

open waters: Permanently inundated [Isolated Waters of Lake County](#) that are greater than three (3) feet in depth below the normal water level or normal pool elevation.

ordinary high water mark: The point on the bank or shore at which the presence and movement of surface waters are continuous so as to leave a distinctive mark, such as by [erosion](#), destruction, or prevention of terrestrial vegetation, predominance of aquatic vegetation, or other such recognized characteristics.

overland flow path: An area of land which conveys stormwater for all events up to and including the [base flood](#) event. The overland flow path can be estimated using readily available topographic information and shall take into account all on-site and off-site tributary areas in accordance with 501.04.

ownership parcel: Any legally described parcel of land. This includes contiguous lots or parcels of land, owned in whole, or in part, by the same property owner.

Parcel Identification Number (PIN): Permanent index number used to identify properties for tax assessment.

pond: A [natural](#) or artificial body of water of less than two (2) acres which retains water year round.

public body of water: All open public rivers, streams, and [lakes](#) specifically designated by [IDNR/OWR](#) in Appendix F: Public Bodies of Water in Lake County of this Ordinance that are capable of being navigated by water craft, in whole or in part, for commercial uses and purposes, or which in their [natural](#) condition were capable of being improved and made navigable, or that are connected with or discharged their waters into navigable lakes or rivers within, or upon, the borders of the State of Illinois, together with all bayous, sloughs, backwaters, lakes that are open to the main channel or body of water and directly accessible thereto.

public flood control project: A [flood](#) control project within a deed or plat restricted area, which will be operated and maintained by a public agency to reduce flood damages to existing [buildings](#) or structures. A land stewardship not-for-profit corporation, or similar entity, may also own, operate, or maintain a public flood control project. In this circumstance, there shall also be an executed agreement with a public agency to take over ownership, operation, or maintenance if the corporation dissolves or fails to meet the operation and maintenance requirements for the project area. The project shall include a hydrologic and hydraulic study of the existing and proposed conditions of the [watershed](#) area affected by the project. Nothing in this definition shall preclude the design, engineering, construction, or financing, in whole or in part, of a flood control project by persons or parties who are not public agencies.

public road development: Any [development](#) activities which take place in a public right-of-way or part thereof that is administered and funded, in whole or in part, by a public agency under its respective roadway jurisdiction. [Rehabilitative maintenance](#) and in-kind replacement are considered to be a public road development if located in a [Regulatory Floodplain](#). A public road development located within a [Regulatory Floodway](#) and which has been approved by the Illinois Department of Transportation, Division of Highways (IDOT/DOH), Bureau of Local Roads and Streets is exempt from the hydraulic analysis requirements of this Ordinance. Individual recreation trail systems being constructed that are not part of another development project and linear railroad development projects shall be considered public road developments with respect to the requirements of this Ordinance.

reconstruction: The act of rebuilding a [structure](#).

record drawings: Construction drawings revised to show significant changes made during the construction process, usually based on marked-up prints, drawings, and other data furnished by the contractor to the [Enforcement Officer](#).

Registered Professional Engineer: An engineer registered in the State of Illinois, under the Professional Engineer Practice Act of 1989, [225 ILCS 325/1-49].

Regulatory Floodplain: Regulatory Floodplains may be either [riverine](#) or [non-riverine](#) depressional areas. Floodplain boundaries shall be delineated by projecting the [base flood elevation](#) onto the best available topography and by superimposing the Special Flood Hazard Area onto the base map. A [flood-prone area](#) is a Regulatory Floodplain if it meets any of the following descriptions:

- A. Any riverine area inundated by the [base flood](#) where there is at least 640 acres of tributary [drainage area](#).
- B. Any non-riverine area with a storage volume of 0.75 acre-foot or more when inundated by the [base flood](#).

- C. Any area indicated as a [Special Flood Hazard Area](#) on the [FEMA Flood Insurance Rate Map](#) or Letter of Map Revision.

**Regulatory Floodway:** The channel, including on-stream [lakes](#), and that portion of the [Regulatory Floodplain](#) adjacent to a [stream](#) or channel as designated by the Illinois Department of Natural Resources, Office of Water Resources, which is needed to store and convey the existing and anticipated future 100-year frequency flood discharge with no more than a 0.1 foot increase in stage due to the loss of flood conveyance or storage, and no more than a 10% increase in velocities. The location of the Regulatory Floodway shall be as delineated on the maps listed in Appendix C: FEMA Flood Insurance Study Maps and Profiles. Where interpretation is needed to determine the exact location of the Regulatory Floodway boundary, the [IDNR/OWR](#) should be contacted for the interpretation.

**rehabilitative maintenance (roadway):** Rehabilitative maintenance is repair or maintenance that does not increase the traffic lanes and does not involve changes to the roadway elevation.

**repair, remodeling, or maintenance:** Activities which do not result in any increases in the outside dimensions of a building or any changes to the dimensions of a [structure](#).

**repetitive loss:** [Flood](#)-related damages sustained by a [structure](#) on two separate occasions during a 10-year period for which the cost of repairs at the time of each such flood event, on the average, equals or exceeds twenty-five percent (25%) of the market value of the structure before the damage occurred.

**retention facilities:** A facility designed to completely retain a specified amount of stormwater runoff without release except by means of evaporation, infiltration, or pumping.

**riverine:** Relating to, formed by, or resembling a [stream](#) (including creeks and rivers).

**roadside ditches:** Drainage ditches within twenty-five (25) feet from the edge of the outside travel lane.

**sedimentation:** The process that deposits soils, debris, and other materials either on other ground surfaces or in bodies of water or watercourses.

**SMC-approved wetland bank:** A [wetland mitigation](#) bank approved by the SMC that conforms with Appendix M: SMC-Approved Wetland Mitigation Banking Requirements of this Ordinance.

**SMC Chief Engineer:** A [Registered Professional Engineer](#) representing the Lake County Stormwater Management Commission as the [Enforcement Officer](#) of the Watershed Development Ordinance.

**SMC Wetland Restoration Fund:** A fund that is administered and implemented for [wetland impact mitigation](#) that is approved and adopted by the SMC.

**Special Flood Hazard Area (SFHA):** Any area subject to inundation by the [base flood](#) from a river, creek, [stream](#), or any other identified channel or ponding and shown on the [Regulatory Floodplain](#) map as listed in Appendix B: SMC Regulatory Floodplain Maps and Profiles and Appendix C: FEMA Flood Insurance Study Maps and Profiles.

**stormwater management:** A set of actions taken to control stormwater runoff with the objectives of providing controlled surface drainage, [flood](#) control, and pollutant reduction in runoff.

## Appendix A: Definitions

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**Stormwater Management Commission (SMC):** The Lake County Stormwater Management Commission established and existing under state statute [55 ILCS 5/5-1062] for the purposes of developing, revising, and implementing a countywide [stormwater management](#) plan.

**stormwater management system:** The collection of [natural](#) features and man-made facilities which define the [stormwater management](#) for a [development](#).

**stream:** A course of running water flowing in a channel (includes creeks and rivers).

**structure:** The results of a man-made change to the land constructed on or below the ground, including the construction, [reconstruction](#), or placement of a building or any addition to a building; installing a [manufactured home](#) on a site; preparing a site for a manufactured home; or installing a recreational vehicle on a site for more than 180 days.

**substantial damage:** Damage of any origin sustained by a structure whereby the cost of restoring the structure to its before damaged condition would equal or exceed 50% of the market value of the structure before the damage occurred.

**substantial improvement:** Any repair, [reconstruction](#), rehabilitation, addition, or improvement of a [structure](#) which increases the total building floor area by more than 75% of the structure's first floor area or the cost of which equals or exceeds 50% of the market value of the current structure before the start of construction. This term includes structures which have incurred a [repetitive loss](#) or substantial damage, regardless of the actual repair work performed. For the purposes of this definition, "start of construction" is considered to occur when the first qualifying improvement, as described in FEMA Publication 480 National Flood Insurance Program Flood Management Requirements, commences or when the first alteration of any wall, ceiling, floor, or other structural part of the building commences, whether or not that alteration affects the external dimensions of the structure. This term includes all cumulative improvements within the last ten (10) years. The term does not, however, include either:

- A. Any project for improvement of a structure to comply with existing state or local health, sanitary, or safety code specifications which are solely necessary to assure safe living conditions; or
- B. Any alteration of a structure listed on the National Register of Historic Places or a State Inventory of Historic Places.

**swale:** A vegetated channel, ditch, or low-lying or depressional tract of land that is periodically inundated by conveying stormwater from one point to another.

**transition section:** Reaches of the [stream](#) or [Regulatory Floodway](#) where water flows from a narrow cross-section to a wide cross-section or vice-versa.

**water dependent:** Structures or facilities relating to the use of, or requiring access to, the water or shoreline. Examples of water dependent uses include, but are not limited to, pumping facilities, wastewater treatment facilities, facilities and improvements related to recreation boating or commercial shipping.

**watershed:** The land area above a given point on a channel that contributes stormwater to that point. In Lake County, the four major watersheds are officially defined as: the Lake Michigan Watershed, the North Branch of the Chicago River Watershed, the Des Plaines River Watershed, and the Fox River Watershed.

**watershed benefit:** A decrease in [flood](#) damages to structures upstream or downstream of the [development](#) site created by installation of the [stormwater management system](#). The benefit

## Appendix A: Definitions

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must be beyond the benefit provided by meeting the minimum Watershed Development Ordinance standards and TRM guidance.

Watershed Development Permit: A permit established by this Ordinance and issued, through the SMC or Certified Communities, prior to the approval of a building permit signifying conformance with provisions of this Ordinance.

Waters of the United States: For the purpose of this Ordinance, the term Waters of the United States refers to those water bodies and wetland areas that are under the U.S. Army Corps of Engineers jurisdiction.

wet detention facility: A wet detention facility is designed to maintain a permanent pool of water after the temporary storage of stormwater runoff.

wetland: A wetland is a specific type of natural or man-made drainageway as follows: Wetlands are land that is inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, under normal conditions, a prevalence of vegetation adapted for life in saturated soil conditions (known as hydrophytic vegetation). A wetland is identified based upon the three attributes: 1) hydrology, 2) soils, and 3) vegetation as mandated by the current Federal wetland determination methodology.

wetland impact: Isolated Waters of Lake County or Waters of the U.S. that are hydrologically disturbed or otherwise adversely affected by flooding, filling, excavation, or drainage which results from implementation of a development activity.

## Appendix B: SMC Regulatory Floodplain Maps and Profiles

Community   Waterway   Map Type   Map Date   Description

## Appendix C: FEMA Flood Insurance Study Maps and Profiles

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
ANTIOCH	170358#	September 18, 2013	17097C0010 K	February 17, 2016
		September 18, 2013	17097C0026 K	February 17, 2016
		September 18, 2013	17097C0027 K	February 17, 2016
		September 18, 2013	17097C0028 K	February 17, 2016
		September 18, 2013	17097C0029 K	February 17, 2016
		September 18, 2013	17097C0032 K	February 17, 2016
		September 18, 2013	17097C0034 K	February 17, 2016
		September 18, 2013	17097C0035 K	February 17, 2016
		September 18, 2013	17097C0055 K	February 17, 2016
BANNOCKBURN	170359#	September 18, 2013	17097C0259 K	February 17, 2016
		September 18, 2013	17097C0267 K	February 17, 2016
		September 18, 2013	17097C0278 K	February 17, 2016
BARRINGTON HILLS	170058#	September 18, 2013	17097C0286 K	February 17, 2016
		September 18, 2013	17097C0215 K	February 17, 2016
		September 18, 2013	17097C0216 K	February 17, 2016
		September 18, 2013	17097C0217 K	February 17, 2016
BARRINGTON	170057#	September 18, 2013	17097C0219 K	February 17, 2016
		September 18, 2013	17097C0216 K	February 17, 2016
		September 18, 2013	17097C0217 K	February 17, 2016
		September 18, 2013	17097C0219 K	February 17, 2016
		September 18, 2013	17097C0236 K	February 17, 2016
BEACH PARK	171022#	September 18, 2013	17097C0238 K	February 17, 2016
		September 18, 2013	17097C0059 K	February 17, 2016
		September 18, 2013	17097C0067 K	February 17, 2016
		September 18, 2013	17097C0069 K	February 17, 2016
		September 18, 2013	17097C0078 K	February 17, 2016
		September 18, 2013	17097C0086 K	February 17, 2016
		September 18, 2013	17097C0087 K	February 17, 2016
		September 18, 2013	17097C0088 K	February 17, 2016
		September 18, 2013	17097C0089 K	February 17, 2016
BUFFALO GROVE	170068#	September 18, 2013	17097C0253 K	February 17, 2016
		September 18, 2013	17097C0254 K	February 17, 2016
		September 18, 2013	17097C0261 K	February 17, 2016
		September 18, 2013	17097C0262 K	February 17, 2016
		September 18, 2013	17097C0263 K	February 17, 2016
		September 18, 2013	17097C0264 K	February 17, 2016
		September 18, 2013	17097C0266 K	February 17, 2016
		September 18, 2013	17097C0270 K	February 17, 2016
		September 18, 2013	17097C0267 K	February 17, 2016
DEERFIELD	170361#	September 18, 2013	17097C0270 K	February 17, 2016
		September 18, 2013	17097C0278 K	February 17, 2016
		September 18, 2013	17097C0286 K	February 17, 2016
		September 18, 2013	17097C0287 K	February 17, 2016
		September 18, 2013	17097C0288 K	February 17, 2016
		September 18, 2013	17097C0289 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE		
DEER PARK	171028#	September 18, 2013	17097C0217 K	February 17, 2016		
		September 18, 2013	17097C0236 K	February 17, 2016		
		September 18, 2013	17097C0237 K	February 17, 2016		
		September 18, 2013	17097C0238 K	February 17, 2016		
		September 18, 2013	17097C0241 K	February 17, 2016		
FOX LAKE	170362#	September 18, 2013	17097C0004 K	February 17, 2016		
		September 18, 2013	17097C0010 K	February 17, 2016		
		September 18, 2013	17097C0012 K	February 17, 2016		
		September 18, 2013	17097C0014 K	February 17, 2016		
		September 18, 2013	17097C0019 K	February 17, 2016		
		September 18, 2013	17097C0020 K	February 17, 2016		
		September 18, 2013	17097C0106 K	February 17, 2016		
		February 17, 2016	17097C0107 L	February 17, 2016		
		September 18, 2013	10797C0205 K	February 17, 2016		
		FOX RIVER GROVE GRAYSLAKE	170363#	September 18, 2013	17097C0043 K	February 17, 2016
September 18, 2013	17097C0044 K			February 17, 2016		
February 17, 2016	17097C0129 L			February 17, 2016		
February 17, 2016	17097C0131 L			February 17, 2016		
September 18, 2013	17097C0132 K			February 17, 2016		
February 17, 2016	17097C0133 L			February 17, 2016		
September 18, 2013	17097C0134 K			February 17, 2016		
February 17, 2016	17097C0137 L			February 17, 2016		
February 17, 2016	17097C0141 L			February 17, 2016		
September 18, 2013	17097C0142 K			February 17, 2016		
September 18, 2013	17097C0151 K			February 17, 2016		
September 18, 2013	17097C0153 K			February 17, 2016		
GREEN OAKS	170364#			September 18, 2013	17097C0158 K	February 17, 2016
				September 18, 2013	17097C0159 K	February 17, 2016
		September 18, 2013	17097C0166 K	February 17, 2016		
		September 18, 2013	17097C0167 K	February 17, 2016		
		September 18, 2013	17097C0168 K	February 17, 2016		
		September 18, 2013	17097C0169 K	February 17, 2016		
		GURNEE	170365#	September 18, 2013	17097C0044 K	February 17, 2016
				September 18, 2013	17097C0063 K	February 17, 2016
September 18, 2013	17097C0064 K			February 17, 2016		
September 18, 2013	17097C0068 K			February 17, 2016		
September 18, 2013	17097C0069 K			February 17, 2016		
September 18, 2013	17097C0132 K			February 17, 2016		
September 18, 2013	17097C0151 K			February 17, 2016		
September 18, 2013	17097C0152 K			February 17, 2016		
September 18, 2013	17097C0153 K			February 17, 2016		
September 18, 2013	17097C0154 K			February 17, 2016		
September 18, 2013	17097C0156 K			February 17, 2016		
September 18, 2013	17097C0157 K			February 17, 2016		
HAINESVILLE	171005#	February 17, 2016	17097C0127 L	February 17, 2016		
		February 17, 2016	17097C0129 L	February 17, 2016		
		February 17, 2016	17097C0131 L	February 17, 2016		
		February 17, 2016	17097C0133 L	February 17, 2016		

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
HAWTHORN WOODS	170366#	February 17, 2016	17097C0139 L	February 17, 2016
HAWTHORN WOODS	170366#	February 17, 2016	17097C0143 L	February 17, 2016
		September 18, 2013	17097C0226 K	February 17, 2016
		February 17, 2016	17097C0227 L	February 17, 2016
		September 18, 2013	17097C0228 K	February 17, 2016
		September 18, 2013	17097C0229 K	February 17, 2016
		September 18, 2013	17097C0231 K	February 17, 2016
		September 18, 2013	17097C0232 K	February 17, 2016
		September 18, 2013	17097C0233 K	February 17, 2016
		September 18, 2013	17097C0234 K	February 17, 2016
HIGHLAND PARK	170367#	September 18, 2013	17097C0277 K	February 17, 2016
		September 18, 2013	17097C0278 K	February 17, 2016
		September 18, 2013	17097C0279 K	February 17, 2016
		September 18, 2013	17097C0283 K	February 17, 2016
		September 18, 2013	17097C0285 K	February 17, 2016
		September 18, 2013	17097C0286 K	February 17, 2016
		September 18, 2013	17097C0287 K	February 17, 2016
		September 18, 2013	17097C0289 K	February 17, 2016
		September 18, 2013	17097C0291 K	February 17, 2016
		September 18, 2013	17097C0293 K	February 17, 2016
		September 18, 2013	17097C0295 K	February 17, 2016
HIGHWOOD	171033#	September 18, 2013	17097C0279 K	February 17, 2016
		September 18, 2013	17097C0283 K	February 17, 2016
INDIAN CREEK	170369#	September 18, 2013	17097C0251 K	February 17, 2016
ISLAND LAKE	170370#	September 18, 2013	17097C0112 K	February 17, 2016
		September 18, 2013	17097C0114 K	February 17, 2016
		September 18, 2013	17097C0116 K	February 17, 2016
		September 18, 2013	17097C0118 K	February 17, 2016
KILDEER	170371#	September 18, 2013	17097C0233 K	February 17, 2016
		September 18, 2013	17097C0234 K	February 17, 2016
		September 18, 2013	17097C0237 K	February 17, 2016
		September 18, 2013	17097C0241 K	February 17, 2016
LAKE BARRINGTON	170372#	September 18, 2013	17097C0118 K	February 17, 2016
		September 18, 2013	17097C0205 K	February 17, 2016
		September 18, 2013	17097C0206 K	February 17, 2016
		September 18, 2013	17097C0207 K	February 17, 2016
		September 18, 2013	17097C0208 K	February 17, 2016
		September 18, 2013	17097C0209 K	February 17, 2016
		September 18, 2013	17097C0215 K	February 17, 2016
		September 18, 2013	17097C0216 K	February 17, 2016
LAKE BLUFF	170373#	September 18, 2013	17097C0167 K	February 17, 2016
		September 18, 2013	17097C0169 K	February 17, 2016
		September 18, 2013	17097C0186 K	February 17, 2016
		September 18, 2013	17097C0188 K	February 17, 2016
		September 18, 2013	17097C0190 K	February 17, 2016
LAKE COUNTY UNINCORPORATED AREAS	170357#	DFIRM PANEL NUMBERS LISTED SEPARATELY AT END OF APPENDIX		
LAKE FOREST	170374#	September 18, 2013	17097C0169 K	February 17, 2016
		September 18, 2013	17097C0188 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
		September 18, 2013	17097C0190 K	February 17, 2016
LAKE FOREST	170374#	September 18, 2013	17097C0257 K	February 17, 2016
		September 18, 2013	17097C0259 K	February 17, 2016
		September 18, 2013	17097C0276 K	February 17, 2016
		September 18, 2013	17097C0277 K	February 17, 2016
		September 18, 2013	17097C0278 K	February 17, 2016
		September 18, 2013	17097C0279 K	February 17, 2016
		September 18, 2013	17097C0285 K	February 17, 2016
LAKE VILLA	170375#	September 18, 2013	17097C0028 K	February 17, 2016
		September 18, 2013	17097C0029 K	February 17, 2016
		September 18, 2013	17097C0035 K	February 17, 2016
		September 18, 2013	17097C0036 K	February 17, 2016
		September 18, 2013	17097C0037 K	February 17, 2016
		September 18, 2013	17097C0038 K	February 17, 2016
		September 18, 2013	17097C0039 K	February 17, 2016
		September 18, 2013	17097C0041 K	February 17, 2016
		September 18, 2013	17097C0043 K	February 17, 2016
LAKE ZURICH	170376#	February 17, 2016	17097C0227 L	February 17, 2016
		September 18, 2013	17097C0228 K	February 17, 2016
		September 18, 2013	17097C0229 K	February 17, 2016
		September 18, 2013	17097C0233 K	February 17, 2016
		September 18, 2013	17097C0236 K	February 17, 2016
		September 18, 2013	17097C0237 K	February 17, 2016
		September 18, 2013	17097C0241 K	February 17, 2016
LAKEMOOR	170915#	September 18, 2013	17097C0102 K	February 17, 2016
		September 18, 2013	17097C0104 K	February 17, 2016
		September 18, 2013	17097C0106 K	February 17, 2016
		September 18, 2013	17097C0108 K	February 17, 2016
LIBERTYVILLE	170377#	September 18, 2013	17097C0134 K	February 17, 2016
		September 18, 2013	17097C0142 K	February 17, 2016
		September 18, 2013	17097C0161 K	February 17, 2016
		September 18, 2013	17097C0162 K	February 17, 2016
		September 18, 2013	17097C0163 K	February 17, 2016
		September 18, 2013	17097C0164 K	February 17, 2016
		September 18, 2013	17097C0166 K	February 17, 2016
		September 18, 2013	17097C0168 K	February 17, 2016
		September 18, 2013	17097C0252 K	February 17, 2016
LINCOLNSHIRE	170378#	September 18, 2013	17097C0254 K	February 17, 2016
		September 18, 2013	17097C0257 K	February 17, 2016
		September 18, 2013	17097C0258 K	February 17, 2016
		September 18, 2013	17097C0259 K	February 17, 2016
		September 18, 2013	17097C0262 K	February 17, 2016
		September 18, 2013	17097C0266 K	February 17, 2016
		September 18, 2013	17097C0267 K	February 17, 2016
LINDENHURST	170379#	September 18, 2013	17097C0035 K	February 17, 2016
		September 18, 2013	17097C0041 K	February 17, 2016
		September 18, 2013	17097C0042 K	February 17, 2016
		September 18, 2013	17097C0044 K	February 17, 2016
LONG GROVE	170380#	September 18, 2013	17097C0144 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
		September 18, 2013	17097C0231 K	February 17, 2016
LONG GROVE	170380#	September 18, 2013	17097C0232 K	February 17, 2016
		September 18, 2013	17097C0233 K	February 17, 2016
		September 18, 2013	17097C0234 K	February 17, 2016
		September 18, 2013	17097C0241 K	February 17, 2016
		September 18, 2013	17097C0242 K	February 17, 2016
		September 18, 2013	17097C0251 K	February 17, 2016
		September 18, 2013	17097C0253 K	February 17, 2016
		September 18, 2013	17097C0254 K	February 17, 2016
		September 18, 2013	17097C0261 K	February 17, 2016
		September 18, 2013	17097C0263 K	February 17, 2016
METTAWA	170381#	September 18, 2013	17097C0164 K	February 17, 2016
		September 18, 2013	17097C0168 K	February 17, 2016
		September 18, 2013	17097C0169 K	February 17, 2016
		September 18, 2013	17097C0252 K	February 17, 2016
		September 18, 2013	17097C0256 K	February 17, 2016
		September 18, 2013	17097C0257 K	February 17, 2016
MUNDELEIN	170382#	February 17, 2016	17097C0139 L	February 17, 2016
		February 17, 2016	17097C0141 L	February 17, 2016
		September 18, 2013	17097C0142 K	February 17, 2016
		February 17, 2016	17097C0143 L	February 17, 2016
		September 18, 2013	17097C0144 K	February 17, 2016
		September 18, 2013	17097C0161 K	February 17, 2016
		September 18, 2013	17097C0163 K	February 17, 2016
		September 18, 2013	17097C0164 K	February 17, 2016
		September 18, 2013	17097C0232 K	February 17, 2016
		September 18, 2013	17097C0251 K	February 17, 2016
NORTH BARRINGTON	170383#	September 18, 2013	17097C0207 K	February 17, 2016
		September 18, 2013	17097C0208 K	February 17, 2016
		September 18, 2013	17097C0209 K	February 17, 2016
		September 18, 2013	17097C0217 K	February 17, 2016
		September 18, 2013	17097C0226 K	February 17, 2016
		September 18, 2013	17097C0228 K	February 17, 2016
		September 18, 2013	17097C0236 K	February 17, 2016
NORTH CHICAGO	170384#	September 18, 2013	17097C0159 K	February 17, 2016
		September 18, 2013	17097C0167 K	February 17, 2016
		September 18, 2013	17097C0180 K	February 17, 2016
		September 18, 2013	17097C0186 K	February 17, 2016
		September 18, 2013	17097C0190 K	February 17, 2016
OLD MILL CREEK	170385#	September 18, 2013	17097C0034 K	February 17, 2016
		September 18, 2013	17097C0042 K	February 17, 2016
		September 18, 2013	17097C0044 K	February 17, 2016
		September 18, 2013	17097C0055 K	February 17, 2016
		September 18, 2013	17097C0061 K	February 17, 2016
		September 18, 2013	17097C0062 K	February 17, 2016
		September 18, 2013	17097C0063 K	February 17, 2016
		September 18, 2013	17097C0064 K	February 17, 2016
PARK CITY	170386#	September 18, 2013	17097C0156 K	February 17, 2016
		September 18, 2013	17097C0157 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
		September 18, 2013	17097C0159 K	February 17, 2016
PORT BARRINGTON	170478#	September 18, 2013	17097C0114 K	February 17, 2016
		September 18, 2013	17097C0118 K	February 17, 2016
		September 18, 2013	17097C0205 K	February 17, 2016
RIVERWOODS	170387#	September 18, 2013	17097C0206 K	February 17, 2016
		September 18, 2013	17097C0259 K	February 17, 2016
		September 18, 2013	17097C0266 K	February 17, 2016
		September 18, 2013	17097C0267 K	February 17, 2016
		September 18, 2013	17097C0270 K	February 17, 2016
ROUND LAKE BEACH	170389#	September 18, 2013	17097C0286 K	February 17, 2016
		September 18, 2013	17097C0038 K	February 17, 2016
		September 18, 2013	17097C0039 K	February 17, 2016
		September 18, 2013	17097C0043 K	February 17, 2016
		February 17, 2016	17097C0126 L	February 17, 2016
		February 17, 2016	17097C0127 L	February 17, 2016
		February 17, 2016	17097C0131 L	February 17, 2016
ROUND LAKE HEIGHTS	170390#	September 18, 2013	17097C0038 K	February 17, 2016
ROUND LAKE PARK	170391#	February 17, 2016	17097C0127 L	February 17, 2016
		February 17, 2016	17097C0129 L	February 17, 2016
		February 17, 2016	17097C0133 L	February 17, 2016
		February 17, 2016	17097C0137 L	February 17, 2016
		February 17, 2016	17097C0141 L	February 17, 2016
ROUND LAKE	170388#	February 17, 2016	17097C0107 L	February 17, 2016
		February 17, 2016	17097C0109 L	February 17, 2016
		February 17, 2016	17097C0126 L	February 17, 2016
		February 17, 2016	17097C0127 L	February 17, 2016
		February 17, 2016	17097C0128 L	February 17, 2016
		February 17, 2016	17097C0129 L	February 17, 2016
		February 17, 2016	17097C0136 L	February 17, 2016
		February 17, 2016	17097C0137 L	February 17, 2016
THIRD LAKE	170392#	September 18, 2013	17097C0043 K	February 17, 2016
		September 18, 2013	17097C0044 K	February 17, 2016
		September 18, 2013	17097C0132 K	February 17, 2016
		September 18, 2013	17097C0151 K	February 17, 2016
TOWER LAKES	170393#	September 18, 2013	17097C0206 K	February 17, 2016
		September 18, 2013	17097C0207 K	February 17, 2016
VERNON HILLS	170394#	September 18, 2013	17097C0163 K	February 17, 2016
		September 18, 2013	17097C0164 K	February 17, 2016
		September 18, 2013	17097C0251 K	February 17, 2016
		September 18, 2013	17097C0252 K	February 17, 2016
		September 18, 2013	17097C0253 K	February 17, 2016
		September 18, 2013	17097C0254 K	February 17, 2016
		September 18, 2013	17097C0256 K	February 17, 2016
		September 18, 2013	17097C0258 K	February 17, 2016
VOLO	171042#	September 18, 2013	17097C0106 K	February 17, 2016
		February 17, 2016	17097C0107 L	February 17, 2016
		September 18, 2013	17097C0108 K	February 17, 2016
		February 17, 2016	17097C0109 L	February 17, 2016
		September 18, 2013	17097C0116 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
		February 17, 2016	17097C0117 L	February 17, 2016
WADSWORTH	170395#	September 18, 2013	17097C0055 K	February 17, 2016
		September 18, 2013	17097C0056 K	February 17, 2016
		September 18, 2013	17097C0057 K	February 17, 2016
		September 18, 2013	17097C0058 K	February 17, 2016
		September 18, 2013	17097C0059 K	February 17, 2016
		September 18, 2013	17097C0062 K	February 17, 2016
		September 18, 2013	17097C0064 K	February 17, 2016
		September 18, 2013	17097C0066 K	February 17, 2016
		September 18, 2013	17097C0067 K	February 17, 2016
		September 18, 2013	17097C0068 K	February 17, 2016
WAUCONDA	170396#	September 18, 2013	17097C0116 K	February 17, 2016
		February 17, 2016	17097C0117 L	February 17, 2016
		September 18, 2013	17097C0118 K	February 17, 2016
		September 18, 2013	17097C0119 K	February 17, 2016
		February 17, 2016	17097C0136 L	February 17, 2016
		February 17, 2016	17097C0138 L	February 17, 2016
		September 18, 2013	17097C0206 K	February 17, 2016
		September 18, 2013	17097C0207 K	February 17, 2016
WAUKEGAN	170397#	September 18, 2013	17097C0066 K	February 17, 2016
		September 18, 2013	17097C0067 K	February 17, 2016
		September 18, 2013	17097C0068 K	February 17, 2016
		September 18, 2013	17097C0069 K	February 17, 2016
		September 18, 2013	17097C0086 K	February 17, 2016
		September 18, 2013	17097C0087 K	February 17, 2016
		September 18, 2013	17097C0088 K	February 17, 2016
		September 18, 2013	17097C0089 K	February 17, 2016
		September 18, 2013	17097C0095 K	February 17, 2016
		September 18, 2013	17097C0154 K	February 17, 2016
		September 18, 2013	17097C0156 K	February 17, 2016
		September 18, 2013	17097C0157 K	February 17, 2016
		September 18, 2013	17097C0158 K	February 17, 2016
		September 18, 2013	17097C0159 K	February 17, 2016
		September 18, 2013	17097C0166 K	February 17, 2016
		September 18, 2013	17097C0177 K	February 17, 2016
		September 18, 2013	17097C0180 K	February 17, 2016
		September 18, 2013	17097C0185 K	February 17, 2016
WHEELING	170173#	September 18, 2013	17097C0264 K	February 17, 2016
		September 18, 2013	17097C0270 K	February 17, 2016
WINTHROP HARBOR	170398#	September 18, 2013	17097C0076 K	February 17, 2016
		September 18, 2013	17097C0077 K	February 17, 2016
		September 18, 2013	17097C0078 K	February 17, 2016
		September 18, 2013	17097C0079 K	February 17, 2016
		September 18, 2013	17097C0081 K	February 17, 2016
ZION	170399#	September 18, 2013	17097C0057 K	February 17, 2016
		September 18, 2013	17097C0059 K	February 17, 2016
		September 18, 2013	17097C0076 K	February 17, 2016
		September 18, 2013	17097C0077 K	February 17, 2016
		September 18, 2013	17097C0078 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
		September 18, 2013	17097C0079 K	February 17, 2016
ZION	170399#	September 18, 2013	17097C0081 K	February 17, 2016
		September 18, 2013	17097C0085 K	February 17, 2016
		September 18, 2013	17097C0086 K	February 17, 2016
		September 18, 2013	17097C0087 K	February 17, 2016
LAKE COUNTY UNINCORPORATED AREAS	170357#	September 18, 2013	17097C0004 K	February 17, 2016
		September 18, 2013	17097C0010 K	February 17, 2016
		September 18, 2013	17097C0012 K	February 17, 2016
		September 18, 2013	17097C0014 K	February 17, 2016
		September 18, 2013	17097C0019 K	February 17, 2016
		September 18, 2013	17097C0020 K	February 17, 2016
		September 18, 2013	17097C0026 K	February 17, 2016
		September 18, 2013	17097C0027 K	February 17, 2016
		September 18, 2013	17097C0028 K	February 17, 2016
		September 18, 2013	17097C0029 K	February 17, 2016
		September 18, 2013	17097C0032 K	February 17, 2016
		September 18, 2013	17097C0034 K	February 17, 2016
		September 18, 2013	17097C0035 K	February 17, 2016
		September 18, 2013	17097C0036 K	February 17, 2016
		September 18, 2013	17097C0037 K	February 17, 2016
		September 18, 2013	17097C0038 K	February 17, 2016
		September 18, 2013	17097C0039 K	February 17, 2016
		September 18, 2013	17097C0041 K	February 17, 2016
		September 18, 2013	17097C0042 K	February 17, 2016
		September 18, 2013	17097C0043 K	February 17, 2016
		September 18, 2013	17097C0044 K	February 17, 2016
		September 18, 2013	17097C0055 K	February 17, 2016
		September 18, 2013	17097C0056 K	February 17, 2016
		September 18, 2013	17097C0057 K	February 17, 2016
		September 18, 2013	17097C0058 K	February 17, 2016
		September 18, 2013	17097C0059 K	February 17, 2016
		September 18, 2013	17097C0061 K	February 17, 2016
		September 18, 2013	17097C0062 K	February 17, 2016
		September 18, 2013	17097C0063 K	February 17, 2016
		September 18, 2013	17097C0064 K	February 17, 2016
		September 18, 2013	17097C0066 K	February 17, 2016
		September 18, 2013	17097C0067 K	February 17, 2016
		September 18, 2013	17097C0068 K	February 17, 2016
		September 18, 2013	17097C0069 K	February 17, 2016
		September 18, 2013	17097C0076 K	February 17, 2016
		September 18, 2013	17097C0077 K	February 17, 2016
		September 18, 2013	17097C0078 K	February 17, 2016
		September 18, 2013	17097C0079 K	February 17, 2016
		September 18, 2013	17097C0081 K	February 17, 2016
		September 18, 2013	17097C0085 K	February 17, 2016
		September 18, 2013	17097C0086 K	February 17, 2016
		September 18, 2013	17097C0087 K	February 17, 2016
		September 18, 2013	17097C0088 K	February 17, 2016
		September 18, 2013	17097C0089 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
LAKE COUNTY UNINCORPORATED AREAS	170357#	September 18, 2013	17097C0095 K	February 17, 2016
		September 18, 2013	17097C0102 K	February 17, 2016
		September 18, 2013	17097C0104 K	February 17, 2016
		September 18, 2013	17097C0106 K	February 17, 2016
		February 17, 2016	17097C0107 L	February 17, 2016
		September 18, 2013	17097C0108 K	February 17, 2016
		February 17, 2016	17097C0109 L	February 17, 2016
		September 18, 2013	17097C0112 K	February 17, 2016
		September 18, 2013	17097C0114 K	February 17, 2016
		September 18, 2013	17097C0116 K	February 17, 2016
		February 17, 2016	17097C0117 L	February 17, 2016
		September 18, 2013	17097C0118 K	February 17, 2016
		September 18, 2013	17097C0119 K	February 17, 2016
		February 17, 2016	17097C0126 L	February 17, 2016
		February 17, 2016	17097C0127 L	February 17, 2016
		February 17, 2016	17097C0128 L	February 17, 2016
		February 17, 2016	17097C0129 L	February 17, 2016
		February 17, 2016	17097C0131 L	February 17, 2016
		September 18, 2013	17097C0132 K	February 17, 2016
		February 17, 2016	17097C0133 L	February 17, 2016
		September 18, 2013	17097C0134 K	February 17, 2016
		February 17, 2016	17097C0136 L	February 17, 2016
		February 17, 2016	17097C0137 L	February 17, 2016
		February 17, 2016	17097C0138 L	February 17, 2016
		February 17, 2016	17097C0139 L	February 17, 2016
		February 17, 2016	17097C0141 L	February 17, 2016
		September 18, 2013	17097C0142 K	February 17, 2016
		February 17, 2016	17097C0143 L	February 17, 2016
		September 18, 2013	17097C0144 K	February 17, 2016
		September 18, 2013	17097C0151 K	February 17, 2016
		September 18, 2013	17097C0152 K	February 17, 2016
		September 18, 2013	17097C0153 K	February 17, 2016
		September 18, 2013	17097C0154 K	February 17, 2016
		September 18, 2013	17097C0156 K	February 17, 2016
		September 18, 2013	17097C0157 K	February 17, 2016
		September 18, 2013	17097C0158 K	February 17, 2016
		September 18, 2013	17097C0159 K	February 17, 2016
		September 18, 2013	17097C0161 K	February 17, 2016
		September 18, 2013	17097C0162 K	February 17, 2016
		September 18, 2013	17097C0163 K	February 17, 2016
		September 18, 2013	17097C0164 K	February 17, 2016
		September 18, 2013	17097C0166 K	February 17, 2016
		September 18, 2013	17097C0167 K	February 17, 2016
		September 18, 2013	17097C0168 K	February 17, 2016
		September 18, 2013	17097C0169 K	February 17, 2016
		September 18, 2013	17097C0177 K	February 17, 2016
		September 18, 2013	17097C0180 K	February 17, 2016
		September 18, 2013	17097C0185 K	February 17, 2016
		September 18, 2013	17097C0186 K	February 17, 2016

**Appendix C: FEMA Flood Insurance Study Maps and Profiles**

COMMUNITY NAME	COMMUNITY MEMBER	DATE OF CURRENT EFFECTIVE MAP (OR MAP INDEX)	LAKE COUNTY DFIRM PANEL NUMBERS	EFFECTIVE FIS STUDY DATE
LAKE COUNTY UNINCORPORATED AREAS	170357#	September 18, 2013	17097C0188 K	February 17, 2016
		September 18, 2013	17097C0190 K	February 17, 2016
		September 18, 2013	17097C0205 K	February 17, 2016
		September 18, 2013	17097C0206 K	February 17, 2016
		September 18, 2013	17097C0207 K	February 17, 2016
		September 18, 2013	17097C0208 K	February 17, 2016
		September 18, 2013	17097C0209 K	February 17, 2016
		September 18, 2013	17097C0215 K	February 17, 2016
		September 18, 2013	17097C0216 K	February 17, 2016
		September 18, 2013	17097C0217 K	February 17, 2016
		September 18, 2013	17097C0226 K	February 17, 2016
		February 17, 2016	17097C0227 L	February 17, 2016
		September 18, 2013	17097C0228 K	February 17, 2016
		September 18, 2013	17097C0229 K	February 17, 2016
		September 18, 2013	17097C0231 K	February 17, 2016
		September 18, 2013	17097C0232 K	February 17, 2016
		September 18, 2013	17097C0233 K	February 17, 2016
		September 18, 2013	17097C0234 K	February 17, 2016
		September 18, 2013	17097C0236 K	February 17, 2016
		September 18, 2013	17097C0237 K	February 17, 2016
		September 18, 2013	17097C0241 K	February 17, 2016
		September 18, 2013	17097C0242 K	February 17, 2016
		September 18, 2013	17097C0251 K	February 17, 2016
		September 18, 2013	17097C0252 K	February 17, 2016
		September 18, 2013	17097C0253 K	February 17, 2016
		September 18, 2013	17097C0254 K	February 17, 2016
		September 18, 2013	17097C0256 K	February 17, 2016

## Appendix D: Total Suspended Solids Background Levels for Lake County Water Bodies

Lake County, Illinois Lakes Total Suspended Solids Concentrations (TSS in mg/L)

All data collected by the Lake County Health Department Lakes Management Unit (2000-2004)

All samples collected at a lake depth less than or equal to 3 feet

	SAMPLE	AVERAGE	MINIMUM	MAXIMUM
LAKE NAME	YEAR	TSS mg/L	TSS mg/L	TSS mg/L
ADID 127	2004	74.8	31.8	111.0
ADID 182	2004	111.0	111.0	111.0
ADID 203	2004	4.1	1.1	8.7
Albert Lake (Site 1 and Site 2)	2001	62.9	20.4	124.0
Ames Pit	2000	3.3	1.3	4.8
Antioch Lake	2001	15.2	8.0	21.0
Bangs Lake	2002	3.4	1.3	5.4
Big Bear Lake	2002	14.1	9.3	18.0
Bishop Lake	2004	14.3	2.6	30.7
Bittersweet Golf Course #13	2004	17.0	5.4	24.0
Bluff Lake	2002	10.2	5.0	18.0
Bresen Lake	2000	11.2	4.9	16.0
Broberg Marsh	2000	9.6	5.4	11.0
Buffalo Creek Reservoir	2001	34.7	21.0	58.6
Butler Lake	2001	2.1	1.9	2.5
Cedar Lake	2003	2.2	1.0	4.0
Channel Lake (Site 1 and Site 3)	2002	6.0	<1.0	9.0
College Trail Lake	2004	12.4	9.3	16.3
Columbus Park Lake	2000	19.0	7.9	26.0
Countryside Glen Lake	2004	6.7	4.3	7.9
Countryside Lake	2000	9.9	1.4	22.0
Cranberry Lake	2000	1.2	0.6	2.0
Crooked Lake	2001	13.7	9.4	17.0
Cross Lake	2003	2.2	1.3	3.3
Davis Lake	2000	2.1	1.0	3.2
Deep Lake	2003	2.4	<1.0	3.3
Deer Lake	2000	2.5	0.9	6.6
Deer Lake Meadow Lake	2004	23.2	16.0	35.0
Diamond Lake	2002	5.9	4.1	9.5
Dog Bone Lake	2004	39.4	26.2	66.0
Dog Pond	2001	1.4	<1.0	1.7
Druce Lake	2001	2.2	1.6	3.6
Drummond Lake	2002	52.1	27.0	93.1
Duck Lake	2001	20.6	6.1	31.0
Dugdale Lake	2003	2.2	1.2	4.0
Dunns Lake	2002	27.5	16.0	40.4
Eagle Lake (Site 1 and Site 2)	2002	11.5	<1.0	22.0

**Appendix D: Total Suspended Solids Background Levels for Lake County Water Bodies**

	SAMPLE	AVERAGE	MINIMUM	MAXIMUM
LAKE NAME	YEAR	TSS mg/L	TSS mg/L	TSS mg/L
East Loon Lake	2003	4.1	3.1	5.6
East Meadow Lake	2004	11.4	9.2	17.0
Echo Lake	2000	9.7	6.0	18.0
Fairfield Marsh	2003	81.6	19.0	165.0
Fischer Lake	2001	15.4	8.9	19.6
Fish Lake	2002	11.3	3.1	19.0
Flint Lake (Site 1 and Site 2)	2003	31.8	10.0	69.6
Forest Lake	2000, 03, 04	14.3	5.0	27.7
Fourth Lake	2000	1.8	0.6	3.0
Fox Lake (Site 1 and Site 3)	2002	30.8	21.0	43.0
Gages Lake	2003	7.0	4.2	11.0
Grand Avenue Marsh	2004	13.2	7.8	22.0
Grandwood Park Lake (Site 1 and Site 2)	2000	13.2	5.0	27.0
Grass Lake (Site 1 and Site 2)	2002	43.1	27.0	73.0
Grassy Lake	2000	27.1	16.0	43.2
Gray's Lake	2002	2.9	<1.0	3.5
Half Day Pit	2003	21.3	14.0	26.0
Harvey Lake	2000	19.8	14.0	28.0
Hastings Lake	2001	7.6	6.0	12.0
Hendrick Lake	2000, 04	3.4	2.0	5.4
Heron Pond	2004	1.8	1.5	2.3
Hidden Lake	2002	74.0	52.0	106.0
Highland Lake	2001	3.3	2.4	4.9
Honey Lake	2001	1.8	1.1	2.5
Hook Lake	2004	5.1	2.9	8.5
Independence Grove Lake	2000	3.5	2.5	4.2
International Mine and Chemical Lake	2003	4.4	1.8	8.1
Island Lake	2003	14.9	5.7	29.4
Lake Barrington	2001	9.6	0.2	18.0
Lake Carina	2001	3.4	2.2	4.7
Lake Catherine (Site 1 and Site 3)	2002	6.0	<1.0	16.0
Lake Charles	2000	16.3	9.0	27.2
Lake Christa	2004	8.2	2.2	18.0
Lake Eleanor (Site 1 and Site 2)	2001	32.4	12.0	54.0
Lake Fairfield	2000	5.1	2.0	8.8
Lake Fairview	2000	4.9	1.6	8.4
Lake Farmington	2004	21.2	11.0	34.0
Lake Forest Pond	2003	54.1	17.7	73.8
Lake Holloway	2002	14.6	1.6	31.0
Lake Kathryn	2004	2.1	1.1	3.9
Lake Lakeland Estates	2000	8.2	1.4	14.0
Lake Leo	2001	2.3	1.0	4.8

**Appendix D: Total Suspended Solids Background Levels for Lake County Water Bodies**

	SAMPLE	AVERAGE	MINIMUM	MAXIMUM
LAKE NAME	YEAR	TSS mg/L	TSS mg/L	TSS mg/L
Lake Linden	2002	2.3	1.1	3.7
Lake Louise (Site 1 and Site 2)	2003	22.6	8.8	49.1
Lake Marie (Site 1 and Site 3)	2002	15.1	7.0	20.0
Lake Matthews	2002	21.2	9.9	31.0
Lake Miltmore	2003	4.7	2.4	6.4
Lake Minear	2002	1.6	1.1	2.2
Lake Naomi	2001	5.0	2.9	7.1
Lake Napa Suwe (Site 1 and Site 2)	2002	51.9	25.0	122.0
Lake of the Hollow	2000	1.8	1.2	2.4
Lake Tranquility (Site 1 and Site 2)	2002	10.8	1.2	24.0
Lake Zurich	2002	4.9	2.7	7.5
Lakewood Marsh	2004	4.3	1.6	8.5
Lambs Farm Lake	2003	5.1	2.9	9.4
Leisure Lake	2000	11.5	3.5	17.0
Liberty Lake	2001	8.3	6.0	11.0
Little Bear Lake	2002	8.3	3.7	11.0
Little Silver Lake	2003	1.8	1.3	2.5
Loch Lomond Lake	2004	13.2	4.3	21.8
Lochanora Lake	2004	2.8	<1.0	4.4
Long Lake	2001	9.7	6.3	11.9
Longview Meadow Lake	2004	25.1	20.2	31.6
Lucky Lake	2001	8.1	4.3	15.5
Lucy Lake	2004	12.4	7.6	18.0
Mary Lee Lake	2004	3.5	2.3	5.4
McDonald Lake 1	2003	13.7	3.3	29.3
McDonald Lake 2	2003	70.1	58.8	84.0
McGreal Lake	2002	3.9	1.2	6.3
Nielsen Pond	2001	4.0	1.9	8.2
Nippersink Lake (Site 1 and Site 2)	2002	40.1	25.0	59.0
North Churchill Lake	2003	77.2	54.5	134.0
North Tower Lake	2001	2.8	0.7	6.1
Oak Hills Lake	2004	64.1	42.0	88.3
Old Oak Lake	2003	3.6	2.7	3.9
Old School Lake	2003	1.7	1.0	2.8
Owens Lake	2000	11.0	2.0	31.0
Patski Pond (Site 1 and Site 2)	2004	46.3	13.9	98.5
Peterson Pond	2001	3.8	1.7	8.5
Petite Lake	2002	12.8	9.0	15.0
Pistakee Lake (Site 1 and Site 3)	2002	33.9	10.0	57.0
Pond-a-Rudy	2001	26.0	1.1	50.2
Potomac Lake	2000	3.9	1.0	6.4
Pulaski Pond	2003	1.9	1.1	3.2

**Appendix D: Total Suspended Solids Background Levels for Lake County Water Bodies**

	SAMPLE	AVERAGE	MINIMUM	MAXIMUM
LAKE NAME	YEAR	TSS mg/L	TSS mg/L	TSS mg/L
Rasmussen Lake	2001	22.8	9.6	54.9
Redhead Lake	2002	36.8	18.0	68.0
Redwing Marsh	2003	28.2	11.0	50.0
Redwing Slough (Site 1 and Site 2)	2000	4.4	0.5	7.3
Rivershire Pond 2	2004	14.9	8.5	21.6
Round Lake	2003	3.5	2.6	4.5
Round Lake Marsh North	2004	20.2	<1.0	54.3
Salem Lake	2000	16.5	3.4	28.0
Sand Lake	2004	3.3	1.7	5.2
Sand Pond	2000	1.6	0.6	2.8
Schreiber Lake	2003	3.1	<1.0	4.5
Seven Acre Lake	2003	6.3	3.4	12.0
Slocum Lake	2001	39.2	24.6	48.0
Slough Lake	2000	33.8	16.0	61.0
South Churchill Lake	2003	43.6	29.0	51.7
Spring Lake	2002	12.8	8.0	18.0
St. Mary's Lake	2002	11.8	8.5	15.7
Sterling Lake	2003	3.0	2.3	3.7
Stockholm Lake	2004	10.6	2.2	29.5
Stone Quarry Lake	2004	3.5	1.7	6.8
Sullivan Lake	2002	5.2	2.9	9.7
Summerhill Estates Lake	2004	6.1	2.7	10.0
Sun Lake	2001	2.4	1.3	4.3
Sylvan Lake	2001	15.1	6.6	27.7
Taylor Lake	2003	8.4	5.9	12.0
Third Lake	2000	7.9	2.2	13.0
Timber Lake	2001	4.1	2.1	9.9
Timber Lake S	2000	15.0	5.7	27.6
Tower Lake	2001	15.0	5.6	26.2
Turner Lake	2002	6.0	3.0	8.7
Valley Lake	2000	12.2	5.7	17.0
Waterford Lake	2000	2.7	1.0	5.8
Werhane Lake	2001	13.7	7.0	20.9
West Loon Lake	2003	1.8	1.3	2.5
West Meadow Lake	2004	17.7	8.9	31.7
White Lake	2000	3.6	1.9	7.8
Willow Lake	2003	19.4	13.4	27.8
Windward Lake	2001	1.2	<0.1	1.3
Woodland Lake	2004	21.2	17.0	25.0
Wooster Lake	2003	3.4	1.3	6.9

**Total Lake County Lakes Sampled 161**

## Appendix E: Enforcement Officer Duties

This Appendix, as a part of this duly adopted Ordinance, delineates requirements or duties required of and accepted by a [community](#) and its designated [Enforcement Officer](#). Certain requirements or duties specified by [FEMA](#) or [IDNR/OWR](#) are for the purposes of that community obtaining or maintaining eligibility for participation in the National Flood Insurance Program and delegation of state permit authority. These certain requirements or duties relate only to the intergovernmental relationship between a community and FEMA or IDNR/OWR, and they do not and are not intended to create any third party beneficial rights in or for [applicants](#), property owners, or others.

- A. In Certified Communities, the appropriate development regulations officer shall be the [Enforcement Officer](#) for this Ordinance. In all other areas of Lake County, the [SMC Chief Engineer](#) shall be this Enforcement Officer. One of the primary duties of the Enforcement Officer shall be to review all Watershed Development Applications and issue permits for those projects that are in compliance with the provisions of the Ordinance. The Enforcement Officer shall be responsible for the administration and enforcement of this Ordinance. If the Enforcement Officer is contracted by a [Certified Community](#), then the contract scope shall be comprehensive enough to cover all specified duties herein or the duties shall be shared with a Co-Enforcement Officer who is an Employee of the Certified Community.
- B. The [Enforcement Officer](#) shall determine for each [development](#) if it is in a [Special Flood Hazard Area](#) (SFHA) using the criteria specified in §700 Location of Regulatory Floodplain, Base Flood Elevation, and Regulatory Floodway of this Ordinance. If a site is in a SFHA, a determination is required as to whether it is in a [Regulatory Floodway](#), or a [Regulatory Floodplain](#) on which a detailed study has not been conducted, or a [flood-prone area](#) with a tributary [drainage area](#) equal to or greater than 640 acres, greater than 100 acres, or greater than 20 acres.
- C. The [Enforcement Officer](#) shall ensure that an [IDNR/OWR](#) Dam Safety Permit is obtained or a letter stating that no Dam Safety Permit is required if the [development](#) includes a [dam](#) before the issuance of a [Watershed Development Permit](#). Reference Appendix G: IDNR/OWR Dam Safety Permitting Guidelines.
- D. Adopted [basin plans](#) and floodplain studies may be the basis for more specific regulations. These additional or more specific regulations will apply only in the specific study area of the basin plan or [floodplain study](#) and supersede those of this Ordinance only upon amendment to the Watershed Development Ordinance and formal adoption of the basin plan or floodplain study by SMC.
- E. To assure projects are built and maintained according to permitted plans, the [Enforcement Officer](#) shall determine applicable deed restrictions, performance guarantees, [as-built drawings](#), and maintenance guarantees for projects that affect stormwater runoff characteristics, impact wetlands or buffers, or impact floodplains. If such performance guarantees or other such adequate security as the Enforcement Officer may approve is required, the amount shall be at least 110% of the estimated cost to complete construction of the [stormwater management system](#) and soil erosion and sediment control measures required

by the [Watershed Development Permit](#), which the estimated probable cost shall be approved by the Enforcement Officer. The performance guarantee may be reduced upon verification of construction milestones or after approval of the as-built drawings and calculations. The performance guarantee shall be valid for a minimum of one (1) year beyond the date of project completion or two (2) years from the start of construction, whichever is greater. The performance guarantee shall not be reduced below ten percent (10%) of the original value until project as-built drawings are accepted. The performance guarantee may not be further reduced before the completion of a minimum two-year maintenance period.

- F. A [Registered Professional Engineer](#) in the employ or under contract with SMC or [Certified Community](#) shall review any plans, calculations, or analyses submitted by a Registered Professional Engineer pursuant to the requirements of this Ordinance.
- G. Proposed amendments to this Ordinance and appendices must be done in accordance with applicable state or federal law and approved by [IDNR/OWR](#) and [FEMA](#).
- H. Prior to the issuance of a [Watershed Development Permit](#), and based on the reliance that the application requirements of §400 Minor Developments, §401 Major Developments, §402 Public Road Developments, §403 IDNR/OWR Dam Safety Permit, and §701 Application Requirements have been met, the [Enforcement Officer](#) shall further ensure that the [applicant](#) has obtained and provided copies of any and all required federal, state, and local permits for [development](#) in the [Regulatory Floodplain](#). Reference Appendix H: Partial List of Permits Required (When Applicable) for Development in Lake County for a partial list of permits that may be applicable.
- I. The [Enforcement Officer](#) shall [inspect](#) (as defined in Appendix A: Definitions of this Ordinance) [development](#) projects before, during, and upon completion of construction to ensure proper elevation of the [structure](#) and to ensure compliance with the provisions of this Ordinance. The Enforcement Officer may require a pre-construction meeting as a condition of issuing a permit.
- J. Enforcement Officer Duties
  - 1. [IDNR/OWR](#) has retained permit review and approval authority over the following:
    - a. Illinois Department of Natural Resources projects, [dams](#), or impoundment structures as defined in Appendix A: Definitions and that meet the 'permit required' criteria for dams in Appendix G: IDNR/OWR Dam Safety Permitting Guidelines.
    - b. All other state, federal, and SMC [development](#) located in the [Regulatory Floodplain](#).
    - c. Permit issuance for development within or over Public Waters.
  - 2. For the following types of regulatory approvals or permit authority, SMC has jurisdiction within depressional flood-prone areas with greater than 20 acres of tributary area and [riverine](#) flood-prone areas with greater than 100 acres

of tributary area. [IDNR/OWR](#) has jurisdiction within Regulatory Floodways or Floodplains with greater than 640 acres (one square mile) of tributary area.

- a. [Base flood elevation](#) determinations where none now exist.
  - b. Any changes in the base flood elevation.
  - c. Changes to the Regulatory Floodway boundaries.
  - d. Determination that the development is a [public flood control project](#).
3. SMC has regulatory approval or permit authority for the following types of [development](#):
- a. Non-certified community development.
  - b. [Public road development](#).
  - c. Determination that an existing bridge or culvert crossing proposed to be modified is not a source of flood damage and the analysis indicating the proposed flood profile, per §707 Bridge, Culvert Crossing, and Roadway Approach Performance Standards.
  - d. Alternative transition sections and hydraulically equivalent compensatory storage as indicated in 703.04.
  - e. Lake County Forest Preserve District development.
  - f. Community and local unit of government development in the [Regulatory Floodplain](#).
  - g. Other development as specified within intergovernmental agreements with the SMC.
- K. The [Enforcement Officer](#) shall submit the data required to SMC, [IDNR/OWR](#), and the Federal Emergency Management Agency ([FEMA](#)) for proposed revisions to the [base flood elevation](#) of a [Regulatory Floodplain](#) study or a relocation of a [Regulatory Floodway](#) boundary.

The [Enforcement Officer](#) shall submit reports as required for the National Flood Insurance Program.

- L. The adopted Lake County Comprehensive Stormwater Management Plan states the SMC should “maintain a repository of stormwater management data for the county”. Toward that end, the [Enforcement Officer](#) shall:
1. Maintain records of every [Watershed Development Permit](#) application, permit, variance, hydrologic and hydraulic data, and enforcement action and shall allow periodic inspections of the records by SMC, [FEMA](#), or [IDNR/OWR](#) personnel.
  2. Maintain an [elevation certificate](#) and flood-proofing certificate file, to certify the elevation of the [lowest floor](#) (including [basement](#)) of a residential or non-residential building or the elevation to which a non-residential [building](#) has been flood-proofed, for buildings constructed in the [Regulatory Floodplain](#).

3. Maintain for public inspection and provide copies upon request of: [base flood](#) data and maps, variance documentation, Conditional Letters of Map Revision, Letters of Map Revision, Letters of Map Amendment, elevation and [flood-proofing certificate](#), other [Watershed Development Permit](#) related materials, elevation and flood-proofing [record drawings](#) for [buildings](#) requiring [flood-proofing](#) or constructed subject to the elevation criteria provisions of this Ordinance, and record drawings of the [stormwater management system](#) required by this Ordinance for each [development](#).
  4. Copy to the SMC, at agreed-upon intervals, but no later than a 5-year period, specified portions of the [Watershed Development Permit](#) records.
- M. The [Enforcement Officer](#) shall notify adjacent upstream and downstream communities, the SMC, and [IDNR/OWR](#) in writing thirty (30) days prior to the issuance of a permit for the alteration or relocation of a [channel](#) in a [Regulatory Floodplain](#).
- N. The Enforcement Officer of a community with FIL50 Certification shall provide SMC an annual report summarizing FIL50 fees received, project expenditures and status, categorized by watershed.

## Appendix F: Public Bodies of Water in Lake County

The following public bodies of water were navigable in their natural condition or were improved for navigation and opened to public use. The entire length and surface area in Illinois, including all backwater lakes and sloughs open to the main channel or body of water at normal flows or stages, are open to the public.

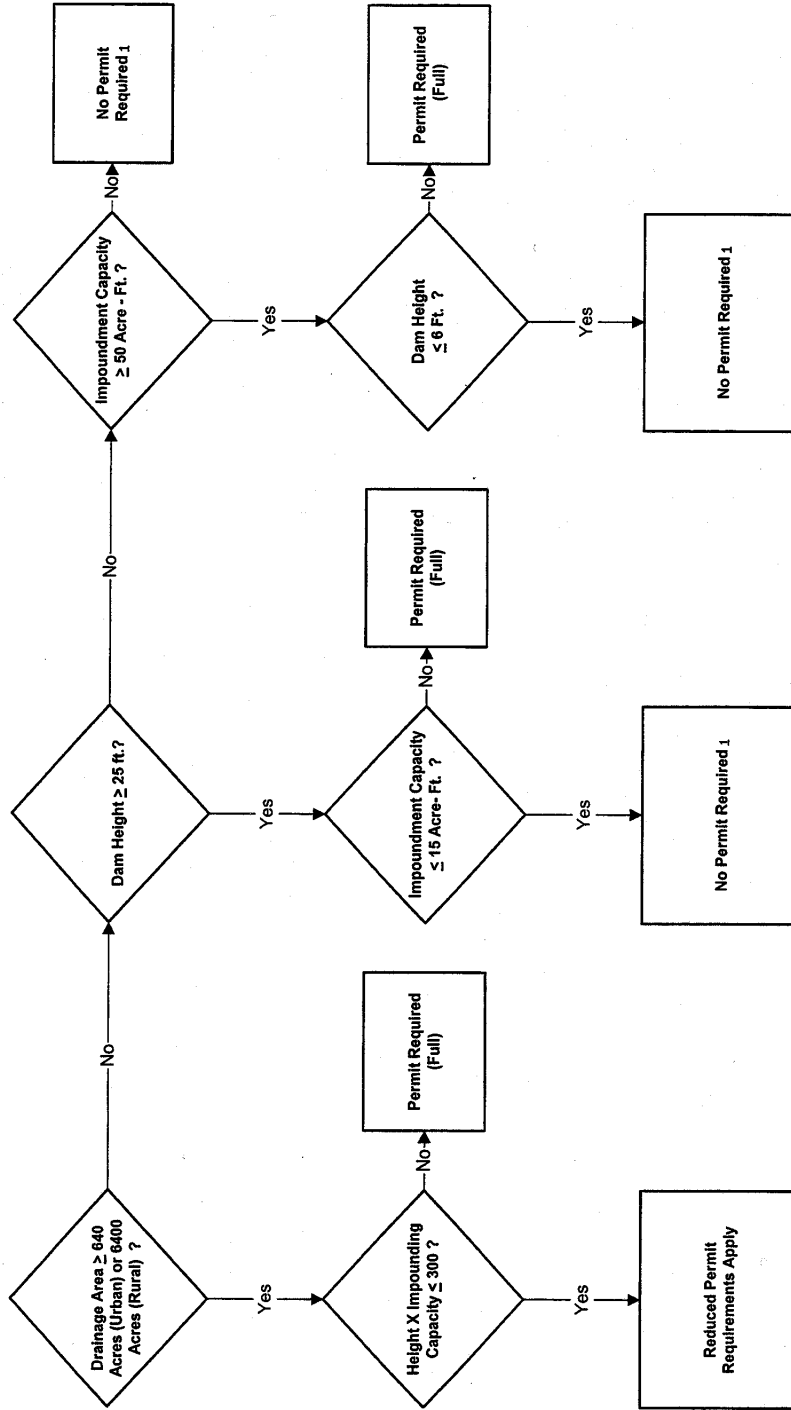
- 1) Lake Michigan
- 2) Fox River (Illinois River Basin)
- 3) Fox Chain-O-Lakes (Lake and McHenry Counties): Bluff Lake, Lake Catherine, Channel Lake, Fox Lake, Grass Lake, Lake Marie, Nippersink Lake, Dunns Lake, Pistakee Lake, Lake Jerilyn, Lac Louette, Redhead Lake

The following public bodies of water are navigable waters that were dedicated to public use. This list is incomplete. It is believed there are numerous channels and slips in subdivisions on the margins of public bodies of water which have been dedicated by plat. Additional channels and slips have been dedicated by common law.

- 1) Petite Lake, Spring Lake, and connecting channels between Bluff Lake and Fox Lake in Lake County

# Appendix G: IDNR/OWR Dam Safety Permitting Guidelines

## CLASS III, SMALL SIZE DAM



## REDUCED PERMIT REQUIREMENTS

- a) a completed "Application for Permit form,
  - b) construction plans and documents that are sealed, signed and dated by an engineer or qualified personnel
  - c) information describing the downstream floodplain for a distance of two miles,
  - d) calculations for the reservoir's 100-year flood pool elevation,
  - e) proof of flooding rights (see simple ownership or flood easement) of all lands within the reservoir's flood pool.
- f) right of access authorization for the State to inspect the dam site and immediate vicinity before, during and after construction for the life of the dam and its appurtenances, and
  - g) agreement to submit record ("as-built") plans and specifications upon completion of the project.
- <sup>1</sup> Unless known potential exists for downstream for flood related structural damage which would result from dam failure.

## **Appendix H: Partial List of Permits Required (When Applicable) for Development in Lake County**

United States Army Corps of Engineers

Illinois Department of Natural Resources, Office of Water Resources

Illinois Department of Natural Resources, Department of Natural Heritage

Illinois Department of Transportation, Division of Highways, District 1

Illinois Environmental Protection Agency

McHenry-Lake County Soil and Water Conservation District

Lake County Health Department

Lake County Division of Transportation

Community / County Building Permits

Illinois Historical Preservation Agency

United States Fish and Wildlife Service

Fox Waterway Agency

# Appendix I: Rainfall Depth Duration Frequency Tables for Lake County

## Rainfall Depth Duration Frequency Tables for Lake County Rainfall is in Inches

Storm Duration	2-month	3-month	4-month	6-month	9-month	1-year	2-year	5-year	10-year	25-year	50-year	100-year	500-year
5 minutes	0.19	0.22	0.24	0.27	0.31	0.33	0.40	0.52	0.62	0.77	0.90	1.03	1.35
10 minutes	0.35	0.40	0.43	0.49	0.56	0.61	0.73	0.95	1.13	1.42	1.65	1.89	2.47
15 minutes	0.42	0.49	0.53	0.61	0.69	0.75	0.90	1.16	1.39	1.74	2.03	2.32	3.04
30 minutes	0.58	0.66	0.73	0.83	0.94	1.03	1.24	1.59	1.91	2.39	2.78	3.17	4.16
1 hour	0.74	0.84	0.93	1.05	1.20	1.30	1.57	2.02	2.42	3.03	3.53	4.03	5.28
2 hours	0.91	1.04	1.14	1.30	1.48	1.61	1.94	2.49	2.99	3.74	4.35	4.97	6.52
3 hours	1.00	1.15	1.26	1.44	1.63	1.77	2.14	2.75	3.30	4.13	4.80	5.49	7.20
6 hours	1.18	1.35	1.48	1.68	1.91	2.08	2.51	3.23	3.86	4.84	5.63	6.43	8.43
12 hours	1.37	1.56	1.71	1.95	2.21	2.41	2.91	3.74	4.48	5.61	6.53	7.46	9.78
18 hours	1.48	1.69	1.85	2.11	2.39	2.61	3.14	4.04	4.84	6.06	7.05	8.06	10.57
24 hours	1.57	1.80	1.97	2.24	2.55	2.77	3.34	4.30	5.15	6.45	7.50	8.57	11.24
48 hours	1.72	1.97	2.16	2.46	2.79	3.04	3.66	4.71	5.62	6.99	8.13	9.28	12.10
72 hours	1.87	2.14	2.34	2.67	3.03	3.30	3.97	5.08	6.05	7.49	8.64	9.85	12.81
120 hours	2.08	2.38	2.61	2.97	3.37	3.67	4.42	5.63	6.68	8.16	9.39	10.66	13.81
240 hours	2.63	3.01	3.30	3.76	4.27	4.65	5.60	7.09	8.25	9.90	11.26	12.65	16.00

References: ISWS Bulletin 75 Precipitation Frequency Study for Illinois  
James R. Angel and Momcilo Markus  
Illinois State Water Survey, March 2020

### HUFF RAINFALL DISTRIBUTIONS

The Huff quartiles represent the typical rainfall distribution for 4 different storm duration ranges. The First quartile applies to storms less than or equal to 6 hours long. Second is for storms greater than 6 hours and less than or equal to 12 while the third is Huff quartile is for storms greater than 12 hours and less than or equal to 24 hours. Fourth quartile storms apply to storm durations greater than 24 hours.

#### AREA < 10 SM

#### AREA > 10 & AREA < 50

#### AREA > 50 & AREA < 400

Portion of the Storm	AREA < 10 SM				AREA > 10 & AREA < 50				AREA > 50 & AREA < 400			
	First Quartile	Second Quartile	Third Quartile	Fourth Quartile	First Quartile	Second Quartile	Third Quartile	Fourth Quartile	First Quartile	Second Quartile	Third Quartile	Fourth Quartile
0/24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/24	8.36	2.29	2.05	2.31	6.41	1.48	1.33	1.48	4.59	0.88	0.72	0.90
2/24	17.73	4.82	4.31	4.79	15.69	3.57	3.02	3.34	13.49	2.38	1.85	2.29
3/24	28.11	7.78	6.67	7.12	27.45	6.39	5.13	5.72	25.94	4.93	3.47	4.36
4/24	38.33	11.33	9.12	9.78	38.91	10.02	7.53	8.56	39.17	8.52	5.57	7.10
5/24	47.45	15.79	11.71	12.53	49.34	14.71	10.01	11.69	51.04	13.19	8.28	9.93
6/24	55.50	21.39	14.36	15.23	58.55	20.89	12.65	14.19	60.79	19.59	10.96	12.84
7/24	62.25	28.41	16.91	17.91	65.88	28.91	15.24	17.19	69.26	27.46	13.79	15.46
8/24	67.22	36.44	19.64	20.33	71.10	37.55	18.17	19.69	74.80	37.17	16.35	17.83
9/24	70.82	45.29	22.78	22.83	74.92	46.86	21.46	22.27	78.74	47.77	19.66	20.12
10/24	74.17	54.35	26.33	25.41	78.30	56.25	25.36	24.81	82.20	58.18	23.46	23.12
11/24	76.97	62.38	30.93	28.35	81.16	64.84	29.90	27.46	85.13	67.64	28.07	25.76
12/24	79.81	69.76	36.35	31.25	83.75	72.90	35.60	30.33	87.38	75.86	34.06	28.26
13/24	82.55	75.48	43.92	33.90	86.20	79.07	43.42	32.42	89.58	82.04	42.30	30.99
14/24	85.18	80.38	52.11	36.33	88.64	83.97	52.18	34.28	91.45	86.92	52.02	33.68
15/24	87.40	84.70	61.02	38.61	90.81	87.58	61.88	36.89	93.35	90.33	62.76	36.12
16/24	89.47	87.81	69.89	41.24	92.58	90.67	71.81	39.73	94.80	93.09	72.80	39.07
17/24	91.17	90.22	78.19	45.08	93.99	92.76	80.43	43.85	95.99	94.82	82.27	42.93
18/24	92.70	92.17	84.92	51.29	95.19	94.59	87.25	49.87	96.94	96.25	89.19	48.98
19/24	94.03	93.81	89.74	59.31	96.35	95.97	92.01	58.93	97.70	97.34	93.60	59.22
20/24	95.36	95.29	93.11	69.19	97.27	97.10	95.04	69.85	98.35	98.21	96.33	71.66
21/24	96.56	96.57	95.34	80.05	98.03	97.99	96.90	82.36	98.86	98.83	97.97	85.18
22/24	97.74	97.74	97.06	89.71	98.74	98.72	98.22	92.59	99.28	99.30	98.98	94.64
23/24	98.85	98.84	98.56	96.04	99.37	99.39	99.21	97.96	99.66	99.67	99.58	98.77
24/24	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00

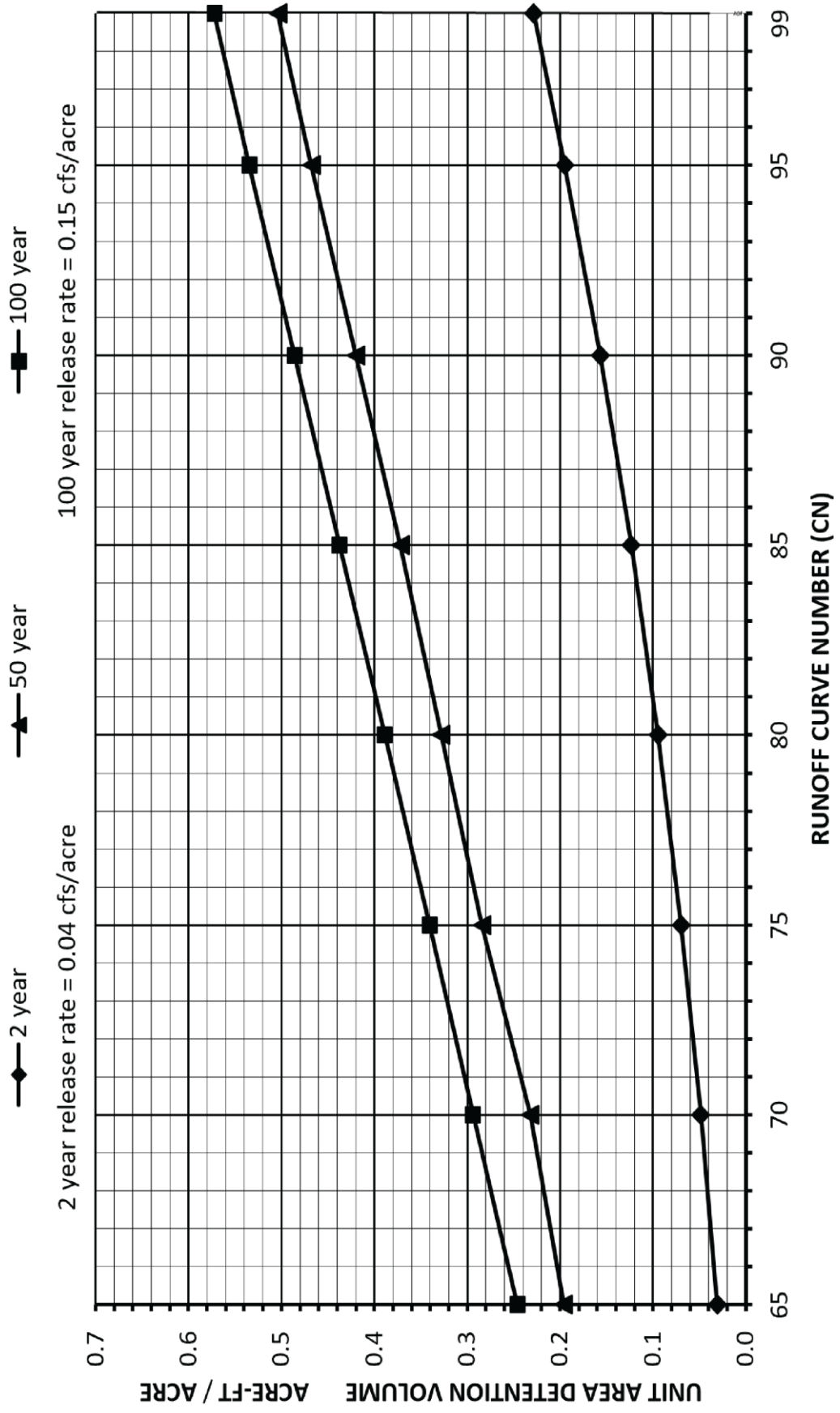
References: ISWS Bulletin 75 Precipitation Frequency Study for Illinois  
James R. Angel and Momcilo Markus  
Illinois State Water Survey, March 2020

## Appendix J: Watershed Specific Release Rates

WATERSHED		Release Rates (cfs/acre)		Comments <sup>1/</sup>
		100 Year	2 Year	
MAJOR TRIBUTARIES		100 Year	2 Year	
MINOR TRIBUTARIES		Storm Event	Storm Event	
<b>FOX RIVER</b>				
Fox River Mainstem		0.150	0.040	WDO Maximum Allowable
Flint Creek		0.150	0.040	WDO Maximum Allowable
Honey Lake Drain		0.150	0.040	WDO Maximum Allowable
Mutton Creek		0.150	0.040	WDO Maximum Allowable
Sequoit Creek		0.150	0.040	WDO Maximum Allowable
Slocum Lake Drain		0.150	0.040	WDO Maximum Allowable
Bang's Lake Drain		0.150	0.040	WDO Maximum Allowable
Squaw Creek Mainstem		0.090	0.020	Watershed Average Rate Based on 8/1/96 SMC adoption of the 11/3/82 FIS flow rate analysis.
Fish Lake Drain		0.090	0.020	Watershed Average Rate Based on 8/1/96 SMC adoption of the 11/3/82 FIS flow rate analysis.
Round Lake Drain		0.090	0.020	Watershed Average Rate Based on 8/1/96 SMC adoption of the 11/3/82 FIS flow rate analysis.
Eagle Creek		0.090	0.020	Watershed Average Rate Based on 8/1/96 SMC adoption of the 11/3/82 FIS flow rate analysis.
Tower Lake Drain		0.150	0.040	WDO Maximum Allowable
<b>DES PLAINES RIVER</b>				
Des Plaines River Mainstem		0.150	0.040	WDO Maximum Allowable
Aptakisic Creek		0.150	0.040	WDO Maximum Allowable
Buffalo Creek Mainstem		0.150	0.040	WDO Maximum Allowable
Tributary B to Buffalo Creek		0.150	0.040	WDO Maximum Allowable
Bull Creek Mainstem		0.150	0.040	WDO Maximum Allowable
Bull Creek Tributary		0.150	0.040	WDO Maximum Allowable
Gurnee Tributary		0.150	0.040	WDO Maximum Allowable
Indian Creek Mainstem		0.150	0.040	WDO Maximum Allowable
South Branch Indian Creek		0.150	0.040	WDO Maximum Allowable
West Branch Indian Creek		0.150	0.040	WDO Maximum Allowable
Forest Lake Drain		0.150	0.040	WDO Maximum Allowable
Seavey Creek		0.150	0.040	WDO Maximum Allowable
Diamond Lake Drain		0.150	0.040	WDO Maximum Allowable
Mill Creek Mainstem		0.150	0.040	WDO Maximum Allowable
North Mill Creek		0.150	0.040	WDO Maximum Allowable
Hastings Creek		0.150	0.040	WDO Maximum Allowable
Newport Drainage Ditch		0.150	0.040	WDO Maximum Allowable
Suburban Country Club Tributary		0.150	0.040	WDO Maximum Allowable
<b>LAKE MICHIGAN</b>				
Bluff/Ravine		0.150	0.040	WDO Maximum Allowable
Dead River		0.150	0.040	WDO Maximum Allowable
Bull Creek		0.150	0.040	WDO Maximum Allowable
Kellogg Creek		0.150	0.040	WDO Maximum Allowable
Pettibone Creek		0.150	0.040	WDO Maximum Allowable
Waukegan River		0.150	0.040	WDO Maximum Allowable
<b>NORTH BRANCH CHICAGO RIVER</b>				
Middle Fork		0.150	0.040	WDO Maximum Allowable
Skokie River		0.150	0.040	WDO Maximum Allowable
West Fork		0.150	0.040	WDO Maximum Allowable

<sup>1/</sup> Individual Communities within these watershed boundaries may have more restrictive release rates.

# Appendix K: Detention Volume Versus Curve Number



## Appendix L: High-Quality Aquatic Resources

The following are descriptions of [high-quality aquatic resources](#):

- A. Advanced Identification (ADID) sites: Aquatic sites that have been determined to provide Biological Values by the U.S. Army Corps of Engineers, Chicago District and U.S. Environmental Protection Agency (U.S. Environmental Protection Agency. 1992. Advanced Identification (ADID) Study, Lake County, Illinois. Chicago, Illinois) or latest ADID study.
- B. Bog: A low nutrient peatland, usually in a glacial depression, that is acidic in the surface stratum and often dominated at least in part by the genus *Sphagnum*.
- C. Ephemeral pool: A seasonally inundated depression within a [forested wetland](#) or upland community, usually located on a moraine, glacial outwash plain, or in an area shallow to bedrock; also known locally as a “vernal pool.” These areas may not be permanently vegetated.
- D. Fen: A peatland, herbaceous (including calcareous floating mats) or wooded, with calcareous groundwater flow.
- E. High Quality Forested wetland: A [forested wetland dominated](#) by native woody vegetation by at least one of the following species or genera: *Carya* spp., *Cephalanthus occidentalis*, *Cornus alternifolia*, *Fraxinus nigra*, *Juglans cinerea*, and *Quercus* spp.
- F. Sedge meadow: A [wetland dominated](#) by at least one of the following genera: *Carex* (except *Carex blanda*, *Carex grisea*, and *Carex vulpinodea*), *Calamagrostis*, *Cladium*, *Deschampsia*, *Rhynchospora*, *Scleria*, or *Eriophorum*.
- G. Seep: A [wetland](#), herbaceous or wooded, with saturated soil or inundation resulting from the diffuse flow of groundwater to the surface stratum.
- H. Streams shown on the most recent USGS quadrangle map as a perennial (solid blue line) or intermittent (dashed blue line) that are not determined to be a Waters of the U.S. If a site specific Index of Biological Integrity (IBI) assessment is lower than 35, this [stream](#) reach shall not be considered a [high-quality aquatic resource](#).
- I. Streamside marsh: An [Isolated Waters of Lake County wetland](#) that is within a 10-year [riverine](#) floodplain and dominated by herbaceous species.
- J. Wet prairie: A [wetland dominated](#) by native graminoid species with a diverse indigenous forb component that is seasonally saturated and/or temporarily inundated.
- K. [Wetlands](#) supporting Federal or Illinois endangered or threatened species: For current state-listed species, reference Illinois Endangered Species Protection Board’s “Checklist of Endangered and Threatened Animals and Plants of Illinois” and/or contact the Illinois Department of Natural Resources. For Federally-listed species, reference the U.S. Fish and Wildlife Service’s “Endangered and Threatened Wildlife and Plants” list (latest edition) and/or contact the U.S. Fish and Wildlife Service.
- L. [Wetlands](#) with a native mean coefficient of conservatism value (native mean C value) of greater than or equal to 3.5 or a native floristic quality index value (FQI) of greater than or equal to 20 as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version).
- M. [Wetlands](#) that are within a designated Illinois Natural Areas Inventory Site (INAI).

## Appendix M: SMC-Approved Wetland Mitigation Banking Requirements

### A. PURPOSE

This appendix includes the criteria for establishing, owning, and operating [wetland mitigation](#) banks. It further sets out the criteria for authorizing [applicants](#) (e.g., individuals, corporations, units of government) to withdraw credits from a mitigation bank to offset unavoidable [wetland impacts](#) that would result from the applicant's proposed activity.

### B. GOALS

Mitigation banks are a form of regional [mitigation](#), which encourage the development of large-scale [wetland](#) complexes that can be professionally managed and maintained in perpetuity for the benefit of the general public. The consolidation of multiple small mitigation projects allows for economies of scale in planning, implementation, and maintenance, and can produce wetlands of greater value because of their size and a high level of commitment to long-term management. The expected benefits include water quality management, wildlife habitat restoration and creation, flood control, conservation of biological diversity, education, recreation, and aesthetics. Further, this action will reduce administrative costs and delays in issuing permits for proposed activities that qualify for use of a mitigation bank.

Mitigation banking is intended to be a means of creating or restoring wetlands and generating bank credits in advance of the filling of wetlands for specific projects. As an interim measure, and as a way to encourage the initial development and implementation of banks, the sale of bank credits and the issuance of permits prior to the generation of bank credits at the bank site shall be allowed under conditions described elsewhere in this document.

### C. DEFINITIONS

1. **Creation:** Conversion of a non-wetland site into a [wetland](#) site by excavation, diking and flooding, or conversion of a deepwater site by filling.
2. **Credit Certification:** A formal determination by the SMC that [mitigation](#) bank credits have been generated. Certified credits result from fully meeting all certification standards (see Appendix M: O: CREDIT CERTIFICATION). Conditionally certified credits are those credits that are based on reasonable progress towards becoming certified credits. Uncertified credits are those credits that are based on full approval of the bank charter, and initial construction of the bank, including demonstration of [wetland](#) hydrology and planting. A maximum of 30% of the total potential credits may be sold upon approval of bank charter alone. An additional 20% of the total credits may be sold upon the demonstration of wetland hydrology. Upon completion of the approved planting plan, an additional 20% of the total credits may be sold. Using this formula, 70% of the total credits available from the bank may be sold as uncertified credits.
3. **Designated Service Area:** The designated service area of an SMC-approved [mitigation](#) bank is Lake County.

4. Enhancement: Altering the physical characteristics of an existing [wetland](#) such that it permanently improves one or more specific wetland functions and values. Because impacts associated with individual projects that propose to use bank credits will, in virtually all cases, be permanent, only enhancement that results in permanent improvement of a wetland's functions and values will generate credits.
5. Growing Season: The period between May 1 and October 10. This growing season definition is for the purposes of Appendix M alone, and is used to establish performance periods for determining compliance with revegetation standards. It does not establish the growing season for purposes of [wetland](#) delineation.
6. Ledger: Document to be used in the accounting of credits and debits. The ledger will be maintained by the bank sponsor and reviewed by the SMC.
7. Management: Actions taken within [mitigation](#) bank [wetlands](#) to establish and maintain desired habitat conditions. Representative management actions include water level manipulations, herbiciding, mechanical plant removal, and prescribed burning.
8. Mitigation Bank: A system of accounting for [wetland](#) loss and compensation, which can include one or more wetland [mitigation](#) sites. The minimum acreage requirements in this Ordinance shall apply to each site.
9. Mitigation Bank Charter: A written document which contains specifications pertaining to establishment, operation, and maintenance of a [wetland mitigation](#) bank, codification of the goals, objectives, procedures of the bank, and incorporating the relevant terms and conditions of this Ordinance. Principal types of banking charters are a legally binding agreement or a [Watershed Development Permit](#).
10. Mitigation Bank Credits: The unit of measure of bank credit will be acres by [wetland](#) type.
11. Mitigation Bank Site: The geographic location of created, restored, and enhanced [wetlands](#), which serve as the physical resource used to generate bank credits.
12. Monitoring: A specific program of data collection which documents the physical, chemical, and biological characteristics of the [mitigation](#) bank [wetlands](#), for the purpose of determining compliance with performance standards contained in the mitigation bank charter.
13. Phased Mitigation Bank: The construction of a [mitigation](#) bank in discrete steps, as authorized or agreed to in advance by the SMC. The bank prospectus must clearly describe each phase of the bank, and list the order in which the phases would be constructed.
14. Prospectus: A preliminary plan for a [wetland mitigation](#) bank prepared by a prospective sponsor and submitted for consideration to SMC.
15. Restoration: Re-establishing [wetland](#) conditions in areas that were wetland in historical times, but which have been modified such that they are now

considered non-wetland. Restoration converts previous wetland sites back to functional wetlands.

16. Site Development Plan: A plan for each bank site that identifies all actions that will be undertaken to generate bank credits. Representative elements of the site development plan include plans for site grading, revegetation, erosion control, structures, management, and monitoring.
17. Sponsor: The legally responsible individual or entity, proposing establishment of a wetland mitigation bank.
18. Wetland Mitigation: Replacement of wetlands, and wetlands functions and values, for the purposes of compensating for wetland impacts. The replacement of the wetland functions and values is generally accomplished through wetland restoration, creation, and enhancement.

D. RESERVED

E. CONSIDERATIONS IN ESTABLISHMENT AND USE OF MITIGATION BANKS

Charters of mitigation banks, mitigation sites, and associated wetland credits shall be subject to approval by the SMC. Every mitigation bank shall have as its primary purpose the creation, restoration, enhancement, and long-term protection and maintenance of wetland resources. All existing property rights remain in effect.

In all cases of a proposed bank, the SMC will issue a public notice describing the project. The public comment period for submittal of relevant comments on the bank prospectus will be a minimum of thirty (30) days. The Watershed Development Permit that is needed in order to construct, restore, or enhance wetlands on the bank site will follow normal permit processing procedures.

Operation and maintenance procedures approved by the SMC shall be employed to maintain the wetland resources in the bank in as high a qualitative state as is technically practicable. Management of the mitigation bank shall be based on a monitoring plan approved by the SMC. Monitoring shall include, but shall not necessarily be limited to, monitoring of the water, soil, and plants comprising the wetland assets of the bank. The bank sponsor shall strive to manage the assets to provide multiple wetland benefits such as water quality management, flood control, biological conservation, and educational and recreational opportunities. In general, mitigation banks should be planned and designed such that little or no management or maintenance other than prescribed burning is necessary once the plant communities are established.

F. GENERAL GUIDELINES

Using normal review procedures prescribed by this Ordinance, the SMC will conduct project evaluations and will determine the level of mitigation required, and whether a project is eligible to use a mitigation bank.

1. Ideally, mitigation banks should be a way of restoring and creating wetlands in advance of development projects that result in wetland losses. However, to promote the establishment of mitigation banks, this Ordinance provides for limited, incremental sales of uncertified credits, and for the issuance of Watershed Development Permits based on uncertified credits according to

the guidelines found in Appendix M: P: MITIGATION BANK CREDIT SALES. This provision is considered necessary to increase the economic viability of mitigation banks. Because the development plan for any given bank site may require the sale of a minimum number of credits before wetlands may be restored or constructed, it is recognized that a temporary deficit of wetlands may result. To address this possibility, the SMC will require a higher mitigation ratio for the use of uncertified and conditionally certified credit, and for funds to be maintained in an appropriate financial security to ensure construction of the bank's wetlands. This Ordinance also limits the number of credits that can be sold prior to construction, and prior to conditional certification. It also establishes a maximum amount of time that may elapse before pre-construction credit sales are converted to conditionally certified or fully certified credits.

2. Emphasis will be on the replacement of [wetland](#) acreage and type. Therefore, the preferred method of generating wetland bank credits will be the restoration of former wetlands or the creation of new wetlands, which will result in a net gain in wetland acreage on the bank site. Permanent wetland enhancement as a means of generating bank credits can be performed as specified in Appendix M: N: ESTABLISHING MITIGATION BANK CREDITS. Appropriate functional value assessment methodologies and credit ratios will be determined for each site by the SMC.
3. Mitigation banks generally shall be held to a higher standard of performance than conventional [wetland mitigation](#) sites. These standards are detailed in Appendix M: S: PERFORMANCE STANDARDS.
4. Permit applications for [wetland impacts](#) to [high-quality aquatic resources](#) generally will not be considered for [mitigation](#) banking, until the [applicant](#) has shown compliance with the avoidance and minimization requirements of this Ordinance.
5. The [mitigation](#) bank, once established, must be dedicated to maintaining the [wetland](#) functions and values to the exclusion of other conflicting uses, as determined by the SMC.

#### G. SITE SELECTION CRITERIA

The bank site will be reviewed with respect to the following site selection criteria. Failure to meet any of these criteria may be, depending on circumstances, grounds for rejection of a bank site. The site shall:

1. Be owned and/or under the full control of the bank.
2. Contain a majority of drained or hydrologically modified [hydric soils](#), recognizing that restoration of former [wetlands](#) is a preferred form of [mitigation](#).
3. Have no [high-quality aquatic resources](#) that would be adversely affected by the construction or restoration work.
4. Contain adequate perimeter upland areas to buffer the [wetlands](#) from potentially incompatible land uses on adjoining parcels and meet the [buffer](#) requirements of this Ordinance.

5. Be so situated that adequate hydrology can be ensured (e.g., be located on a [floodplain](#) or possess a high groundwater table).
6. Be proximate or adjacent to public land holdings so as to create contiguous, large-scale habitat areas.
7. Be part of an adopted or accepted open space plan, [watershed](#) plan, conservancy district, protected riparian corridor, or other local or regional conservation land use plan. This criterion has been established in order to help implement local and regional conservation plans, and to ensure maximum consistency and compatibility with future surrounding land uses.
8. Contain no known hazardous waste, which must be confirmed by an environmental assessment conducted by a qualified person or firm.
9. Have a minimum size of ten (10) acres or five (5) acres if within the Lake Michigan Watershed.

#### H. BANK OWNERSHIP

A [mitigation](#) bank may be either publicly or privately owned. The bank may be incorporated as for-profit or not-for-profit. If the bank is incorporated, it must be incorporated in the State of Illinois. Publicly owned refers to ownership of the bank site by any federal, state, regional, or local unit of government.

All land, including associated uplands, which are part of the mitigation bank shall be protected in perpetuity from future [development](#) by an appropriate [deed or plat restriction](#). This deed or plat restriction must be recorded with the Lake County Recorder of Deeds Office, attached to the abstract of title, with a certified copy of the registration provided to the SMC prior to the SMC authorizing the bank. The mitigation bank charter should also identify the entity responsible for the ownership and long-term management of the site. In addition, the bank sponsor is responsible for securing adequate funds for the operation and maintenance of the bank during its operational life, as well as for long-term management of the site. Bank sponsors are strongly encouraged to establish agreements for long-term management with public or private conservation organizations.

Transfer or sale of the mitigation bank may occur to a party willing and financially able to abide by the terms and conditions of the Mitigation Bank Charter entered into by the SMC and the bank owner. Any such transfer must be approved by the SMC.

#### I. INITIAL PLANNING

The individual or entity proposing to sponsor establishment of a [mitigation](#) bank will initially hold informal discussions with the SMC. The purpose of these discussions will be to acquaint the sponsor with the legal, regulatory, and ecological background relevant to banking and to provide procedural guidance to the prospective [applicant](#).

During this discussion the prospective bank sponsor will be informed that a formal request for the establishment of a bank must be made to the SMC. The formal request will include a prospectus and a [Watershed Development Permit](#) application, if required. The bank sponsor and the SMC shall develop an

authorizing document for the bank that shall be signed by all parties. The authorizing document should outline the responsibilities of the bank sponsor, and contain the necessary information outlined in this Ordinance governing the operation of the bank.

**J. PROSPECTUS DEVELOPMENT**

The purpose of the prospectus is to provide sufficient information to allow the SMC to determine if the general considerations and site evaluation criteria outlined in this Ordinance are likely to be met if the proposed bank is established. It is understood that the prospectus will become the basis of the mitigation bank charter. The prospectus should contain:

1. The bank location and size;
2. A delineation of any [wetlands](#) or other jurisdictional areas that may exist at the proposed bank location;
3. The type of real estate interest in bank property;
4. A legal description of the property;
5. The type of bank (i.e., single client, general use, market oriented, etc.);
6. The method of credit production (i.e., restoration, creation, enhancement), the number of proposed credits by each method, and the rationale for crediting;
7. A statement as to compliance with this document;
8. A general site plan showing the location of all existing and proposed [wetland](#) and upland habitats, roads, trails, structures, utilities, and any other existing or proposed site improvements;
9. An outline of management and maintenance responsibilities;
10. A preliminary construction plan and schedule of completion, preliminary planting plan, and preliminary administrative, management, monitoring, and financial plans; and
11. A charter of incorporation for the [mitigation](#) bank, if appropriate.

**K. FINANCIAL ASSURANCES**

The bank sponsor is responsible for securing sufficient funds or other financial assurances to cover contingency actions in the event of bank default or failure. In addition, the bank sponsor is responsible for securing adequate funding to monitor and maintain the bank throughout its operational life, and to make provision for long-term management through financial assurances or through agreements with land management organizations or agencies. Total funding requirements should reflect realistic cost estimates for monitoring, long-term maintenance, contingency, and remedial actions. Financial assurances may be in the form of performance bonds, irrevocable letters of credit, irrevocable trusts, escrow accounts, casualty insurance, or other approved sureties. Such assurances may be phased out or reduced once it has been demonstrated that the bank is functionally mature and/or self-sustaining in accordance with the approved performance standards. The financial plan must demonstrate that

the bank and its [wetlands](#) can be maintained in perpetuity whether through continual ownership or by conveyance to a public or private agency that will assume the responsibilities of the bank.

L. MITIGATION BANK APPLICATION PROCESS

The sponsor must submit a [Watershed Development Permit](#) application and a prospectus for the initial development of the bank. Upon receipt of these items the SMC shall begin a public interest review on the prospectus with input from government agencies and the general public. The public will be notified of all proposed banks by a public notice issued by the SMC for a 30-day comment period. Copies of all comments received during the public notice comment period will be given to the bank sponsor. Full consideration will be given to all comments received in evaluating the bank proposal. The bank sponsor and the SMC shall develop an authorizing document for the bank. The authorizing document should outline the responsibilities of the bank sponsor and contain the necessary information outlined in this Ordinance governing the operation of the bank. Additionally, the details of the bank sponsor's responsibilities shall be noted in any Watershed Development Permit in which the permittee's [mitigation](#) responsibilities are met through the use of the mitigation bank.

SMC shall make a site inspection of the bank area. A written response to the banking prospectus indicating the prospective bank's feasibility would then be prepared by the SMC based upon observations made during the site visit. An indication of feasibility in the letter should be interpreted as general acceptability of conceptual bank plans and either probable issuance of a Watershed Development Permit, or probable signatory approval of a Mitigation Bank Charter upon completion of detailed plans.

The formal request to the SMC for establishment of a bank shall include:

1. A [Watershed Development Permit](#) application to conduct the proposed work that is necessary to establish the bank;
2. A copy of the previously described prospectus; and
3. A plan that details the goals, objectives, and success criteria for creating [wetlands](#), including wetland types and their respective acreages.

M. DETAILED PLANNING STAGE

This is the final planning stage leading to issuance of a [Watershed Development Permit](#) for authorization, implementation, and operation of a bank. The preparation of detailed plans should be closely coordinated with the SMC and other local authorities as appropriate.

Each [mitigation](#) bank shall have a site development plan that must be approved by the SMC. This plan shall identify and incorporate the following, to the extent practicable and appropriate:

1. Diverse aquatic and supporting landscapes (e.g., shallow open water, riparian [wetlands](#), deep and shallow marshes, floodplain forests, wet meadows and prairies, upland buffers, etc.), which are interrelated, one to the other, so as to maximize wetland functions and values;

2. Diverse wildlife habitats and associated edge conditions;
3. Associated upland buffer areas contiguous to the wetlands to protect the wetlands from potential adverse effects of adjacent land uses, specifying the width and area of all such zones;
4. Wetland functions which will be created or enhanced by maximizing vegetative diversity and abundance, structuring specific wildlife habitats, optimizing wetland hydrology, and providing public access;
5. Species native to the area;
6. The use of native soils on the site;
7. The means for establishing the appropriate hydrology; and
8. The mitigation bank shall be designed to be as self-sufficient as possible and minimize maintenance.

N. ESTABLISHING MITIGATION BANK CREDITS

The units of wetland credit shall be acres of wetland. Mitigation bank credits shall be generated as wetlands are created, restored, or enhanced on the bank site, resulting in an increase in wetland acreage and/or quality on the bank site. Banking credits may be generated as follows: Full credit will be given for wetland creation from upland and for restoration of former wetlands. Partial credit (25% of the enhanced wetland acreage) can be given for permanent enhancement (e.g., re-establishment of hydrology) of degraded wetlands. A maximum of 30% of the total potential credits generated by the bank may consist of enhanced wetlands or enhanced uplands.

O. CREDIT CERTIFICATION

Mitigation bank credits shall be certifiable by the SMC when the bank credits conform to the criteria outlined in Appendix M: S: PERFORMANCE STANDARDS. Credits may be certifiable at any time, but the standards for certification shall be met no later than five (5) years from the date of planting unless otherwise specified in the bank charter and approved by the SMC. After the second full growing season following creation or restoration of wetlands, the SMC may conditionally certify the credits of the bank based on reasonable progress toward achieving the performance standards. Conditional certification shall be based on degree of conformance with the standards for conditional certification in Appendix M: S: PERFORMANCE STANDARDS, and on any interim corrective measures recommended by the SMC.

At the end of five (5) years, if any of the above conditions are not met, the authorized agent of the bank shall submit a plan to the SMC outlining corrective measures to be taken based on the ecological conditions of the site. Management activities shall continue until the standards are met, as verified by the SMC.

Certain types of enhancement of existing wetland can be an acceptable way of generating credits if the enhancement actions are scientifically sound and result in a substantial, measurable, and permanent increase in the level of

wetland function. The types of enhancement that will be acceptable include the following:

1. Restoration of [wetland](#) hydrology at sites that have been significantly modified through tile drainage or ditch drainage.
2. Restoration of diverse native plant communities where the original plant community has been totally destroyed, and the site is currently farmed or has revegetated with aggressive and/or exotic species such as reed canarygrass, cattails, purple loosestrife, phragmites, buckthorn, or other species. Restoration goals would include the removal of the exotic or aggressive species, and the introduction and establishment of a diverse assemblage of native species appropriate for the site considering geographic location, soils, hydrology, and other factors. Selective removal of exotic species in otherwise healthy native plant communities will normally not be considered eligible for credit.
3. Restoration of deep marsh habitat through shallow impoundment, where the purpose is to create hemimarsh conditions suitable for nesting by target [wetland](#) bird species of concern. This approach is appropriate at sites that have been significantly altered through partial drainage, and consist largely of dense monotypic stands of cattails or other aggressive species. It is not appropriate for sites that have existing biodiversity or habitat values that would be adversely affected by the proposed actions or where the level of benefit would be minimal.

The prospectus must specifically state which aspects of wetland function would be increased as a result of the enhancement actions, the level to which they would be increased, and the scientific basis for expecting the increase. It must also include a narrative description of how the enhancement would be accomplished, a schedule of completion, explicit performance standards, and performance milestones for enhancement actions to be carried out over an extended period of time.

Performance standards for enhancement work will be approved as part of the [Watershed Development Permit](#). Actions such as the restoration of hydrology can be implemented in a very short time and can be measured through immediate water level responses. Plant community restoration is a lengthier process, requiring sustained effort over a period of time. In such cases, interim performance milestones may be established, and credits resulting from such work would be included in the final 30% increment of credit released from the bank.

Credit ratios will be determined based on specific circumstances for each bank. Restoration of a historic wetland area or creation of a wetland from an upland area would receive a credit ratio of 100%. Actions that restore a very degraded wetland to a high degree of function, such as restoring normal hydrology to a drained wetland or restoring a high level of species diversity to a monotypic plant community, shall receive credit at a maximum ratio of 25% of the credit values awarded to restored or created wetlands.

All created, restored, or enhanced wetland areas on the mitigation bank site shall, at a minimum, meet the buffer width requirements of 505.01 of this Ordinance. All existing [high-quality aquatic resources](#) on the [mitigation](#) bank site shall, at a minimum, meet the [buffer](#) width requirements of 505.02 of this Ordinance.

The inclusion of upland and deepwater environments within a wetland mitigation bank may be inadvertent (i.e., due to topographic reasons and real estate considerations) or planned (i.e., to realize or enhance certain wetland functions). In the latter case, upland areas may be either naturally occurring or be artificially created and, depending on their basic purpose, may occur along the periphery of the bank or be dispersed throughout. Enhanced upland areas or enhanced wetland edges used to meet the buffer requirements of this Ordinance for the mitigation bank shall be credited at 25% of the enhanced acreage completed. Created or restored wetland edges used to meet the buffer requirements of this Ordinance for the mitigation bank shall be credited at 75% of the acreage created or restored.

Conditional certification will allow for a reduction of the posted financial security to a level sufficient to assure full certification. Corrective measures will be approved by the SMC prior to implementation. These measures should ensure that the mitigation standard is met at the end of the five-year management period from the day the planting is completed.

During construction of the mitigation wetlands, qualified personnel must make periodic inspections of the site to ensure that soil [erosion](#) control measures are employed and functioning properly. Inspection reports shall be submitted to the SMC on a monthly basis.

#### P. MITIGATION BANK CREDIT SALES

Upon authorization of the [mitigation](#) bank, through a [Watershed Development Permit](#), the sale of [wetland](#) credits and the [creation](#) or [restoration](#) of wetlands and [buffers](#) may commence. The mitigation bank credits may be sold for mitigation purposes in accordance with the following conditions:

1. Certified credits and conditionally certified credits may be sold provided that adequate funds, as approved by the SMC, are established through an escrow account, performance bond, irrevocable letter of credit, or other financial surety for the generation of certified credits and long-term maintenance of the bank site.
2. If an approved bank has only uncertified credits, then those uncertified credits may be sold for [mitigation](#) purposes, provided that adequate funds, as approved by the SMC, are established through an escrow account, performance bond, irrevocable letter of credit, or other financial surety for the generation of credits and long-term maintenance of the required bank site.
3. The SMC has sole authority to determine the number of credits available for withdrawal from the [mitigation](#) bank.

4. All mitigation bank credit sales shall require prior approval by the SMC to confirm credit availability and compliance with all other applicable provisions of this Ordinance.

In every event, the mitigation bank sponsor shall establish in a performance bond, escrow account, irrevocable letter of credit, or other financial surety, adequate funds to ensure the construction, planting, and long-term monitoring, management, and maintenance of the mitigation bank wetlands and associated uplands. The amount of the financial surety shall be based upon the calculated per acre cost of completing the approved plan, including grading and planting of the site. Cost estimates for the construction and/or planting and maintenance for all restored, created, or enhanced wetlands in the bank must be presented. A proposed schedule of release of the financial surety following completion of specific tasks associated with the establishment of the bank must also be submitted for approval. Construction estimates shall include an estimate of the cubic yards of earth to be moved during the grading of the site, as well as an estimated cost per cubic yard for the earthwork.

The interest on all such escrow accounts may be used by the bank sponsor for monitoring, management, and maintenance purposes only. The financial sureties must be maintained until all credits have been certified and sold or the SMC has determined the mitigation bank is self-sustaining. The amount of the financial surety will be reviewed annually based on the results of the monitoring report.

For all mitigation banks, credit sales may commence upon approval of the bank's charter. A maximum of 30% of the total potential credits may be sold prior to construction, based on approval of the bank's charter and the posting of adequate financial surety. Upon acceptance by the SMC that appropriate wetland hydrology has been demonstrated throughout all proposed wetlands at the site, an additional 20% of the total credits may be sold. Upon acceptance by the SMC that the site has been planted according to the approved plan, and after wetland hydrology has been demonstrated, another 20% of the total credits may be sold. The final 30% of the total credits may be sold upon full certification.

Incremental demonstration of wetland hydrology and incremental planting of the site may also be awarded credit. For example, peizometer data from a 50-acre wetland restoration area shows that 37 acres of the planned wetland meets the wetland hydrology criterion of the 1987 Federal Wetland Delineation manual (as amended, including applicable supplements).

These 37 acres represent 74% of the proposed wetland area. By applying this 74% factor to the allowable 20% increment of credits awarded for demonstrating wetland hydrology, the allowable increment of new credits for the bank would equal 14.8% of the proposed wetland on the site ( $0.74 \times .20 = 0.148$ , or 14.8%). The same method would be used for calculating credits due to incremental planting. In the event that the bank sponsor sells more than the number of credits approved by the SMC, the SMC reserves the right to deduct the amount of the oversale from the total potential credits available from the

bank. These credits will not be restored, even if future development of the bank results in the certification of additional credit sales.

No Watershed Development Permits will be granted to [applicants](#) proposing to use a mitigation bank unless credits are available in the bank, as specified in this Ordinance.

The initial physical and biological improvements at the bank site (including, but not limited to, grading, planting, and restoration of wetland hydrology) must be completed no later than the end of the third full growing season following the sale of the first mitigation bank credit.

The bank sponsor shall keep a ledger of all available credits, whether purchased or unpurchased, and of all credits sold or otherwise debited including individual sale prices. This ledger shall be made available to the SMC upon request. In addition, the bank sponsor must provide the SMC an updated ledger containing a list of all transactions, including sale prices at a given bank to date at the conclusion of every credit sale.

#### Q. MONITORING, MANAGEMENT, AND REPORTING

Monitoring shall occur for a period of five (5) years from the date of the completion of the approved planting plan. Management shall proceed on a continuing basis from the completion of planting through the end of the monitoring period. Management shall proceed as needed to reconcile current conditions with functional goals. Any required remedial measures will be based on information contained in monitoring reports and/or from SMC site inspections.

The monitoring results of the [mitigation](#) bank shall be provided to the SMC on an annual basis during the monitoring period. Following this, no report shall be required, but the SMC shall retain the right to [inspect](#) the mitigation bank as deemed appropriate. The SMC shall hold on file copies of any reports. The SMC will establish an annual compliance monitoring schedule that assures that all mitigation bank sites are inspected for compliance with the approved bank plan.

The mitigation bank sponsor shall be responsible for all monitoring, management, and reporting. However, the work may be done by bank employees, subcontractors, or public or private organizations.

The operational life of a bank shall consist of the period during which the terms and conditions of the mitigation bank charter are in effect. With the exception of arrangements for the long-term management and protection in perpetuity of the [wetlands](#) and/or other aquatic resources and associated uplands, the operational life of a mitigation bank terminates at the point when:

1. Wetland mitigation credits have been exhausted or banking activity is voluntarily terminated with written notice from the bank sponsor to the SMC; or
2. The SMC has determined that the debited bank is functionally mature and/or self-sustaining to the degree specified in the mitigation bank charter

and associated documents, including the performance standards outlined in this Ordinance.

R. LOSS OF BANK CHARTER

Should a bank not meet the terms of its charter, for whatever reason, the SMC shall inform the bank sponsor and shall specify a reasonable period of time in which to comply. Should any modifications to the charter be required, recommended changes shall be approved by the SMC. Continued non-performance of the bank shall result in revocation of the charter and forfeiture of financial securities.

S. PERFORMANCE STANDARDS

The following performance standards are established to ensure that [mitigation](#) banks create [wetlands](#), which compare favorably with moderate to high quality [natural](#) wetlands with respect to diversity, abundance, and distribution of plant species, and also to ensure that the created wetlands exhibit the hydrologic regimes of natural wetlands. These standards will be used to measure the performance of mitigation banks unless otherwise stated in the mitigation bank charter. The bank sponsor may propose other standards if native plant restoration is not the primary goal of the mitigation bank. For example, wildlife habitat enhancement goals may require the development of alternative standards based on habitat structure such as the interspersed of open water and cattails, or the seasonal establishment of mud flats. Justification for alternative standards must be provided in the bank prospectus. The SMC retains approval authority for any performance standards proposed which are different from those contained in this Ordinance.

Species Composition: Species selected for the planting shall be native to Lake County (ref. Wilhelm, G. and L. Rericha's Flora of the Chicago Region, 2017, Indianapolis: Indiana Academy of Science), and shall be appropriate for the hydrologic zone to be planted. A minimum number of native perennial species proposed for establishment must be present within each plant community to meet certification standards, as follows:

Marsh - minimum of 15 native perennial species

Sedge meadow/wet prairie - minimum of 35 native perennial species

Mesic prairie (buffer) - minimum of 25 native perennial species

In addition, at least 50% of the required minimum number of species must occur at a 10% frequency or greater.

Species Dominance: The following dominance standards are for wetland mitigation banking purposes only. Dominance shall be determined by calculating importance values, with at least two parameters, frequency and cover, used to calculate species importance. Cattails (*Typha* spp.), reed canary grass (*Phalaris arundinacea*), and non-native species shall cumulatively comprise not more than 5% of the total dominance measure for each community for which credit is granted.

The native perennial species within each wetland plant community shall represent at least 80% of the total dominance measure.

Wetland Hydrology: Wetland hydrology must be independently demonstrated within each wetland for which credit is sought from data gathered from peizometers placed throughout the bank site. Peizometer placement must be approved by the SMC prior to approval of the bank.

Conditional Certification: Credits shall be conditionally certified not sooner than the second full growing season after planting, based upon achieving the following standards:

75% of the minimum number of native perennial species required for full certification shall be present in each plant community.

The total of native perennial species within each plant community shall represent at least 15% of the total dominance measure.

# Appendix N: WDO Mitigation Requirements and Guidelines for Isolated Waters of Lake County Impacts

## INTRODUCTION

This Appendix contains the minimum requirements and guidelines for preparation of a Project Mitigation Document (PMD) related to the creation or enhancement of [wetlands](#) on a [development](#) site, or on an off-site property, to meet the [mitigation](#) provisions in §1007 Mitigation for Isolated Waters of Lake County of this Ordinance. These provisions do not apply for Category IV (1005.01A.4) impacts to [Isolated Waters of Lake County](#). The PMD shall provide, at a minimum, information needed by SMC or an Isolated Wetland Certified Community (IWCC) to evaluate the appropriateness and enforceability of a proposed mitigation plan. Additional requirements may apply for impacts to [Waters of the United States](#), as determined by the U.S. Army Corps of Engineers. For the purposes of Appendix N, the term *mitigation site* refers to the ownership parcel where the mitigation is to occur. *Mitigation area* refers to the location within the mitigation site where the actual mitigation will occur.

Each PMD shall include specific information in a standard format as outlined in Table 1 and described in Appendix N, Sections A-K.

**Table 1 – Standard Format for PMD**

Section	Topic
A	Mitigation Goals
B	Mitigation Site Information
C	Mitigation Design
D	Deed or Plat Restriction
E	Construction Schedule
F	Financial Assurance
G	As-Built Plans
H	Performance Standards
I	Monitoring and Management
J	Reports
K	Compliance and Completion

### A. MITIGATION GOALS

1. Discuss how the [wetland mitigation](#) shall duplicate or improve the hydrologic and biologic features of the impacted wetlands. Describe the specific functions of the wetlands to be created or enhanced versus the functions of the wetlands to be impacted.
2. Describe the acreage and vegetative community type of wetlands and wetland [buffers](#) to be created or enhanced to meet the minimum mitigation ratios required in 1007.02 of this Ordinance. Mitigation acreage shall be credited on the following basis:
  - a. 100% for each acre of wetland created or restored. For the purposes of Appendix N, wetland creation includes restoration of historic wetlands which have been filled, drained, or otherwise manipulated to the extent the areas no longer exhibit wetland characteristics. Open water creation shall be credited at 100% for in-kind mitigation (e.g., one (1) acre of open water created for one

(1) acre of open water impacted). No mitigation credit shall be given for open water creation to compensate for non-open water impacts.

- b. 25% for each acre of non-[farmed wetland](#) enhanced after a minimum ratio of 1:1 for wetland creation to [wetland impact](#) is achieved.
- c. Enhancement of farmed wetlands meeting the size criterion 1009.01A of this Ordinance may be used for up to 80% of the total mitigation requirement (e.g., if 2.0 acres of mitigation are required, up to 1.6 acres may be credited for farmed wetland enhancement, as long as the size criterion above is met).
- d. Enhanced upland areas or enhanced wetland edges used to meet the buffer requirements in §505 Buffer Areas of this Ordinance shall be credited at 25% for each acre enhanced. Created or restored wetland edges used to meet the buffer requirements of this Ordinance shall be credited at 75% for each acre created or restored. All high-quality aquatic resources existing on the mitigation site shall, at a minimum, meet the buffer requirements for high quality aquatic resources; all other existing enhanced, created, or restored wetland areas shall, at a minimum, meet the non-high-quality aquatic resource buffer requirements of this Ordinance.

## B. MITIGATION SITE INFORMATION

### 1. Site Location

Identify the mitigation site on a general location map (USGS quadrangle map preferred), plat of survey, and major [watershed](#) map (e.g., Fox River Watershed).

### 2. Physical Description

Describe the physical characteristics of the mitigation area. Provide information to support the mitigation site selection, including, but not limited to: wetland determination report meeting the requirements in §1000 Wetland Delineation of this Ordinance, NRCS-certified wetland determination (for agricultural land), topographic map with a minimum of 2-foot contour lines, recent and historic aerial photographs, current site photographs, [drain tile](#) information, USGS hydrologic atlas, [FEMA](#) flood insurance rate map and [base flood elevations](#) as required by this Ordinance, and SCS soil survey map and soil unit descriptions.

### 3. Land Use

Describe the past and current land use(s) of the mitigation site parcel. Submit a plan at a minimum scale of 1 in.=100 ft. showing the existing land use(s) and pertinent features, such as [buildings](#), roads, utility lines, drain tiles, culverts, landscaping, lot lines, etc. Include on the plan or provide a narrative of any adjacent land uses that could conflict with the mitigation proposal and any zoning restrictions. Discuss potential adverse impacts to the mitigation site, including stormwater runoff from adjacent properties or nearby [development](#) in the watershed. Include a copy of the current zoning map and comprehensive land plan showing proposed land use(s), roads, and trail systems.

4. Ownership

Identify the current owner(s) of the mitigation site property. If the owner is different from the permittee, provide the SMC or IWCC with a copy of an executed agreement between the owner(s) and permittee that grants permission by the owner(s) for the permittee to use the property for mitigation and specifies the responsibilities of each party for establishment of the mitigation site. Once mitigation is in place, the permittee shall notify the SMC or IWCC of any change in ownership. The new owner(s) shall provide written assurance to the issuer of the Watershed Development Permit of the transfer of the permit and intent to comply with the terms and conditions of the permit, specifically the mitigation plan.

5. Significant Biological Resources

The permittee shall consult with the Illinois Department of Natural Resources (IDNR) and the U.S. Fish & Wildlife Service (USFWS) regarding the possible presence of threatened or endangered species or critical habitat on the mitigation site. The SMC or IWCC shall not approve the mitigation area until documentation is provided confirming the proposed mitigation area is in compliance with the IDNR's Endangered Species Consultation Program and the Illinois Natural Areas Preservation Act [520 ILCS 10/11] and [525 ILCS 30/17] and the USFWS' consultation program under the federal Endangered Species Act.

C. MITIGATION DESIGN

1. Topography

If grading is proposed, submit a grading plan at a minimum scale of 1 in.=100 ft. showing existing and proposed grades with a minimum of 1-foot contour lines. Identify elevation and location of reference benchmarks. Include cross-sections for the mitigation wetlands with normal water level (NWL) and high water level (HWL) depicted, if applicable.

2. Hydrology

Identify the source(s) of water for the mitigation wetlands, both surface and subsurface. Describe any water control structures to be used and identify these structures on the grading plan, with invert elevations. Control structures with adjustable inverts are recommended to facilitate management of desired water levels in the mitigation wetlands. Describe the expected hydrologic regime of the mitigation wetlands. Provide hydrologic modeling results in both summary table and hydrograph form for the 2-year and 100-year, 24-hour storm events, at a minimum, to support the expected hydrologic regime of the mitigation wetlands. Verify that the mitigation design will not adversely impact the hydrology of existing on-site or nearby wetlands.

Discuss factors influencing the quality of stormwater runoff from on-site and off-site sources (e.g., roads, lawns, parking lots, etc.) and incorporate best management practices (BMPs) into the design to treat runoff before it discharges into the wetlands. Identify the BMPs on the grading plan.

Stormwater detention basins shall not be used for creation of wetlands to meet the wetland mitigation requirements of this Ordinance in §1007 Mitigation for Isolated Waters of Lake County.

3. Soils

A minimum of twelve (12) inches of suitable rooting medium shall be provided on the mitigation wetlands and wetland buffer areas. Use low ground pressure equipment to minimize soil compaction. Include information about whether topsoil will be imported from off-site.

If the mitigation site contains a drained hydric soil, include the SCS soil map unit description and describe the drainage system (e.g., [drain tile](#), ditches, channels, etc.). The drainage system shall be shown on the grading plan. Verify the hydric soil map unit by digging a 30-inch deep soil pit in a representative location of the map unit and write a detailed profile description of the soil, including horizons, soil colors using Munsell color charts, and soil texture and structure. Examine the soil profile for the presence of redoximorphic features such as iron/manganese accumulations, oxidized rhizospheres, mottles, and depleted zones. Record the type, relative abundance, location, and color of these features. Record other evidence of soil wetness such as the accumulation of partially decomposed organic matter at the soil surface.

4. Planting Plan

Submit a plan at a minimum scale of 1 in.=100 ft. depicting the location and acreage of each wetland and wetland buffer community type to be established. This plan shall also be used as the base map to show the locations of the vegetation monitoring transects and hydrology sampling points discussed in Appendix N: I: MONITORING AND MANAGEMENT. Provide the list of plants to be established in community by common and scientific name, along with the seeding or planting rate for each species. Seed and plant stock source(s) shall originate from within 150 miles of the mitigation site to maintain local genotypes.

D. DEED OR PLAT RESTRICTION

All mitigation wetlands, as well as other preserved wetlands or waters and wetland buffers on the mitigation site, shall be protected in perpetuity by a [deed or plat restriction](#). The permittee shall provide the SMC or IWCC with a draft copy of the proposed deed or plat restriction document and associated exhibit(s) showing the restricted areas for approval. Contact the SMC for example wetland and wetland buffer restrictive language.

E. CONSTRUCTION SCHEDULE

Provide a schedule with anticipated start date and duration for each phase of the mitigation site construction, including installation of soil [erosion](#) and sediment control measures, earthwork, and planting.

F. FINANCIAL ASSURANCE

The permittee shall provide the SMC or IWCC with a financial surety for 110% of the total estimated cost for construction, monitoring, and management of the mitigation wetlands and wetland buffers. The amount of the financial surety shall be based upon

the wetland consultant's detailed cost estimate for completing the approved mitigation plan, including earthwork, planting, and monitoring and management for a minimum of five (5) full growing seasons after planting is completed. The cost estimate shall be provided to the SMC or IWCC for approval prior to obtaining the financial surety. The financial surety may be in the form of a performance bond, irrevocable letter of credit, irrevocable trust, escrow account, casualty insurance, or other approved surety.

The financial surety shall be held by the SMC or IWCC until the mitigation site meets the performance standards in PERFORMANCE STANDARDS. Such surety may be phased out or reduced by the SMC or IWCC once it has been demonstrated that the mitigation site is functionally mature and/or self-sustaining in accordance with the performance standards in Appendix N: H: PERFORMANCE STANDARDS.

#### **G. AS-BUILT PLANS**

1. Upon the completion of earthwork, but prior to planting, the permittee shall provide an as-built topographic map to the SMC or IWCC for approval. The as-built map shall depict the constructed grades at a minimum of 2-foot contour intervals, along with spot elevations, and the invert elevations of all water control structures. The benchmark(s) used to establish the grades shall also be indicated on the plan. If the constructed grades and invert elevations are not in conformance with the approved grading and utility plan, the permittee shall be responsible for regrading or reinstalling the water control structures at the designed elevations to comply with the approved plan. If the as-built plan and site inspection are determined to be in conformance with the approved design, the SMC or IWCC shall issue a written approval of the as-built plan and planting activities may commence.
2. Upon the completion of planting activities, the permittee shall provide the SMC or IWCC with lists of the species actually planted in the mitigation wetlands and wetland buffers, including the common and scientific name of each species, the quantity of each species planted (e.g., weight of seeds/acre, number of plugged plants/acre), the source of the seeds/plants, the planting method(s) used, and the date(s) seeding or planting occurred.

#### **H. PERFORMANCE STANDARDS**

Performance standards are predetermined criteria for guiding and measuring mitigation success.

##### **1. Performance Period**

The performance period shall consist of a minimum five (5) years at which time the vegetation performance standards are met, unless the vegetation performance standards can be met earlier for two (2) consecutive growing seasons, at which time the performance period shall be considered complete. Conversely, the performance period may be required to be longer than five (5) years in order to meet the vegetation performance standards if they haven't been met after the standard five-year time frame.

##### **2. Wetland Vegetation Performance Standards**

The performance standards below apply to emergent, wet prairie, and sedge meadow communities. If other community types are proposed (e.g., aquatic,

forest, etc.), the permittee shall submit proposed performance standards for each community to the SMC or IWCC for approval.

- a. Floristic Quality: By the end of the performance period, a native mean coefficient of conservatism value (native mean C value) of greater than or equal to 3.5 and a native floristic quality index value (FQI) of greater than or equal to 20 shall be achieved for each wetland community as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version).
- b. Mean Wetness Coefficient: By the end of the performance period, the mean wetness coefficient (mean W) shall be less than or equal to 0 in each wetland community. Wetness coefficients are listed below, based on the category of each plant species designated in the National Wetland Plant List - Midwest Regional Plant List (U.S. Army Corps of Engineers, most recent version). The mean W for each wetland community is calculated by the following equation: Sum of wetness coefficients for all species/number of species.

**Wetness Coefficients**

<i>National Wetland Category</i>	<i>Wetness Coefficient</i>
Obligate (OBL)	2
Facultative Wetland (FACW)	1
Facultative (FAC)	0
Facultative Upland (FACU)	1
Upland (UPL)	2

- c. Vegetative Cover: By the end of the performance period, no area greater than one hundred (100) square feet within the created or enhanced wetlands shall be devoid of vegetation, as measured by percent areal coverage. Areas not meeting this standard shall be re-planted.
- d. Invasive Species Dominance: By the end of the performance period, none of the three
- e. dominant plant species in the emergent, wet prairie, or sedge meadow communities shall be non-native or weedy species, including, but not limited to, the following species: *Typha* spp., *Phragmites australis*, *Poa compressa*, *Poa pratensis*, *Lythrum salicaria*, *Salix interior*, *Echinochloa crusgalli*, or *Phalaris arundinacea*. Dominance shall be based on the relative importance value (RIV) of each species, which is calculated by the following equation:

$$RIVs = [RFs + RCs] / 2 \times 100, \text{ where:}$$

RIVs is the relative importance value of the individual species in the community,

RFs is the frequency of the individual species occurring in all quadrats/the total frequency of all species (adventive and native) occurring in all quadrats, and

RCs is the coverage of the individual species occurring in all quadrats/the total coverage of all species (adventive and native) occurring in all quadrats.

3. Wetland Buffer Vegetation Performance Standards

The performance standards below apply to the prairie community to achieve mitigation credit. If other community types are proposed for the wetland buffers (e.g., forest, savanna, etc.), the permittee shall submit proposed performance standards for each community to the SMC or IWCC for approval.

- a. Floristic Quality: By the end of the performance period, a native mean coefficient of conservatism value (native mean C value) of greater than or equal to 2.5 and a native floristic quality index value (FQI) of greater than or equal to 15 shall be achieved for the buffer as determined using the Chicago Region Floristic Quality Assessment Calculator (U.S. Army Corps of Engineers, Chicago District, most recent version).
- b. Vegetative Cover: By the end of the performance period, no area greater than one hundred (100) square feet within the created or enhanced mesic prairie buffers shall be devoid of vegetation, as measured by percent areal coverage. Areas not meeting this standard shall be re-planted.
- c. Invasive Species Dominance: By the end of the performance period, none of the three dominant plant species in the mesic prairie buffer community shall be non-native or weedy species, including, but not limited to, the following species: *Cirsium arvense*, *Melilotus* spp., *Alliaria petiolata*, *Poa compressa*, *Poa pratensis*, *Ambrosia artemisiifolia*, or *Rhamnus cathartica* and *R. frangula*. Dominance shall be based on the relative importance value (RIV) of each species, which is calculated using the equation in Appendix N: H.2.d.

I. MONITORING AND MANAGEMENT

1. Monitoring

- a. Monitoring Plan: The PMD shall contain a proposed five-year monitoring plan. Such plan shall include, at a minimum, a description of the sampling methodologies to be followed for evaluating hydrology in the mitigation wetlands and assessing vegetation in the mitigation wetlands and buffers, the frequency of sampling, and the report(s) to be generated.
- b. Vegetation Monitoring: A sufficient number of straight-line sampling transects shall be established in the mitigation wetlands and wetland buffers to achieve a representative amount of plant frequency and coverage data. The beginning and end points of each transect shall be monumented in the field with a metal stake. The location of each transect and the number of proposed quadrats per transect shall be accurately identified on the Planting Plan (Appendix N: C.4), which shall be included in the annual monitoring reports. Each transect shall consist of a series of sample quadrats either 0.25 or 1.0 square meter in size. Vegetation sampling shall be conducted by, or under the supervision of, a Certified Wetland Specialist twice during the growing season with at least one month between sampling dates (e.g., May/June and August/September). Vegetation sampling shall include the following, at a minimum:
  1. Record the number and estimated percent areal coverage of each vascular plant species in each quadrat, including all non-native (adventive) taxa and

native taxa. Use this data to perform the calculations in Appendix N, Section I.1.b.(2) through (4).

Photograph each end of the transect at the time of sampling.

2. Calculate the native mean C value, FQI, and mean wetness coefficient for each quadrat.
3. Calculate the native mean C value, native FQI, and mean wetness coefficient for each transect.
4. Calculate the RIVn of total native species by the following equation:

$RIVn = [RFn + RCn] / 2 \times 100$ , where:

RIVn is the relative importance value of the total native species in the community,

RFn is the total frequency of the native species occurring in all quadrats/the total frequency of all species (adventive and native) occurring in all quadrats, and

RCn is the total coverage of the native species occurring in all quadrats/the total coverage of all species (adventive and native) occurring in all quadrats.

- c. **Hydrology Monitoring:** A sufficient number of representative sample points shall be established in each mitigation wetland to assess the hydrologic conditions. The sample points shall be monumented in the field with a metal stake. The location of each sample point shall be accurately identified on the Planting Plan (Appendix N: C.4), which shall be included in the annual monitoring reports. At a minimum, hydrology monitoring shall be conducted on a bi-weekly basis during the first growing season and on a monthly basis during each succeeding growing season of the monitoring period. Hydrology sampling shall include the following, at a minimum:
  1. Depth of inundation (in. or cm.) based on NAVD 88 datum, which supersedes the NGVD29 datum used prior to September 18, 2013, and
  2. Soil moisture condition to a minimum depth of 12 in. (e.g., saturated, moist, dry).

## 2. Management

- a. **Management Plan:** The PMD shall contain a proposed five-year management plan. Such plan shall include a description of the anticipated management practices to be employed each year to meet the performance standards in Appendix N: H: PERFORMANCE STANDARDS, and a schedule of all proposed management practices (i.e., a calendar indicating month and year of activity). In addition, the plan shall identify the entity to assume responsibility for long-term management of the mitigation wetlands and wetland buffers after the performance period and the dedicated source of funding for long-term

management. At completion of the performance period, the SMC or IWCC shall require a written agreement between the permittee and the entity identified for long-term management.

- b. Management Practices: Describe the methods and equipment to be used for each proposed management practice (e.g., prescribed burning, control of invasive plant species by herbicide application or hand removal, mow management, etc.). List all permits or certifications/licenses required for the proposed management practices (e.g., IEPA open burn permit, local fire department permits, IDOA herbicide applicators license, etc.). Personnel who perform the management activities shall have appropriate licenses and qualifications.

#### J. REPORTS

At a minimum, an annual report prepared by, or under the supervision of, a Certified Wetland Specialist summarizing the results of the previous year's monitoring data shall be submitted to the SMC or IWCC by January 31<sup>st</sup> of the following year. The annual reports shall contain, at a minimum:

1. A narrative summary of the vegetation and hydrology monitoring data;
2. A discussion of the progress of native vegetation establishment relative to the performance standards in Appendix N: H: PERFORMANCE STANDARDS;
3. An appendix containing the monitoring data;
4. Photographs of the sample transects and panoramic views of the mitigation wetlands and buffers;
5. A narrative summary of the management practices employed during the previous year and photographs documenting these activities;
6. Recommendations for proposed management practices to be employed during the following year(s), based on the monitoring results to date; and
7. The proposed schedule for management practices in the following year(s).

#### K. COMPLIANCE AND COMPLETION

##### 1. Responsible Parties

The permittee shall be responsible for establishment of the mitigation wetlands and wetland buffers and all associated monitoring and management activities for the performance period. The permittee shall take corrective measures as necessary to meet the performance standards in Appendix N: H: PERFORMANCE STANDARDS, within the performance period.

After the performance period, the entity identified for long term management shall assume long-term management for the mitigation wetlands and wetland buffers. The permittee's responsibility for the mitigation wetlands and wetland buffers shall be released in writing by the SMC or IWCC.

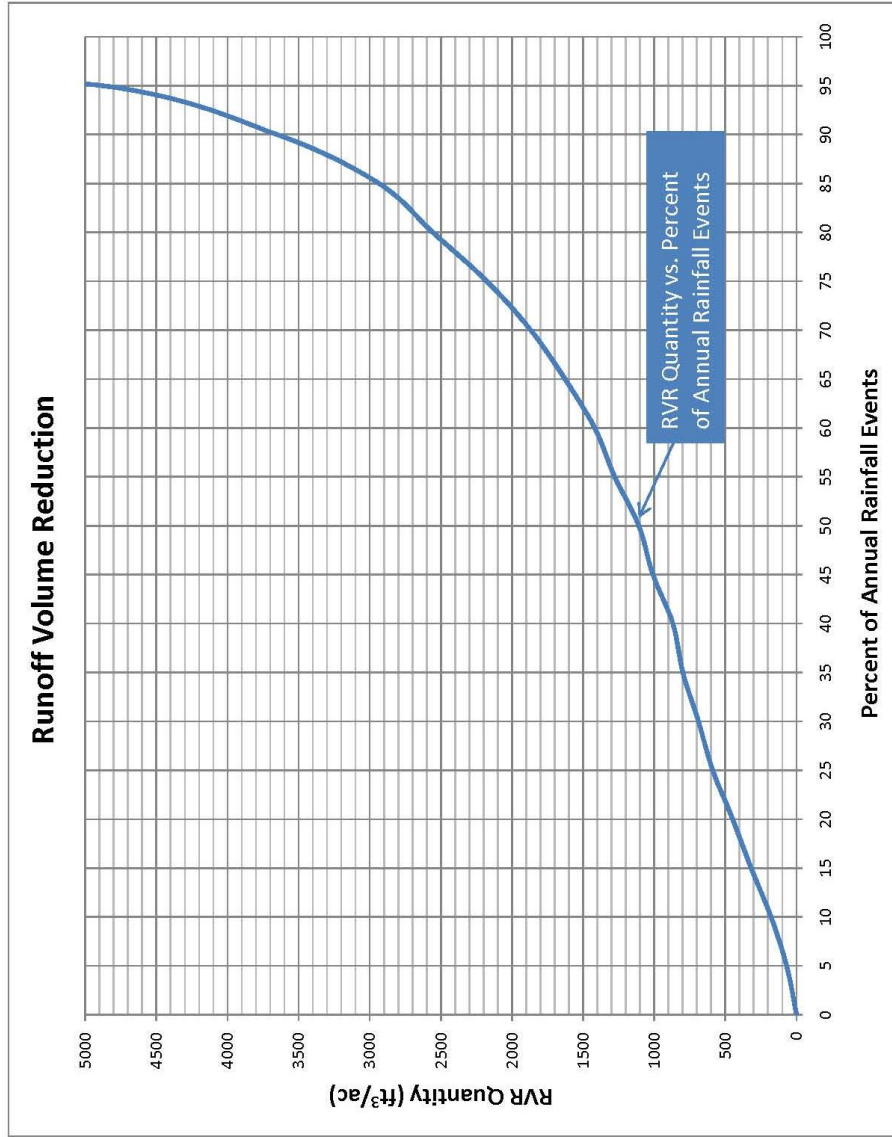
##### 2. Notification

After the performance period, the permittee shall provide written notification to the SMC or IWCC, along with following information: 1) a scaled plan (min. 1 in. = 100

ft.) showing the delineated boundaries and actual acreages of the mitigation wetlands and wetland buffers; and 2) a summary of how the performance standards have been met for each wetland and buffer. Upon notification, the SMC or IWCC shall review the submitted information and perform a site inspection to evaluate the success of the mitigation site. If the mitigation goals and performance standards have been met, the SMC or IWCC shall notify the permittee in writing that the permittee's responsibility for the mitigation site is released. A copy of the written release shall be provided to the entity designated for long-term management of the mitigation site.

If the SMC or IWCC determine that the mitigation goals or performance standards have not been met based on the information submitted and site inspection, the SMC or IWCC shall notify the permittee in writing of the specific shortfalls. The permittee shall be granted a specified time limit to respond to the identified shortfalls. Failure to fully respond to the identified shortfalls within the specified time limit may result in SMC or IWCC use of the mitigation surety to correct the shortfalls.

# Appendix O: Runoff Volume Reduction



Percent of Annual Rainfall Events	Runoff Depth (in)	RVR Quantity ft³/ac new impervious
0	0	0
5	0.02	70
10	0.05	180
15	0.09	320
20	0.12	450
25	0.16	590
30	0.19	690
35	0.22	800
40	0.24	870
45	0.28	1010
50	0.30	1110
55	0.35	1280
60	0.39	1420
65	0.45	1630
70	0.51	1870
75	0.60	2180
80	0.70	2560
85	0.81	2940
90	1.01	3660
95	1.35	4900
99	2.41	8760

Runoff Depth based on Figure 3 of the Center For Watershed Protection Report.

Runoff Depth = P\*R, where:

P = Rainfall Depth (inches)

R=Volumetric Runoff Coefficient = 0.95 for 100% impervious cover [0.05+0.009(I), where I is 100% (impervious cover)]

RVR Quantity = Runoff Depth (in) / 12 (in/ft) \* 43560 (ft²/ac)

## Activity 450 (Stormwater Management) Documentation Checklist:

### 1. Stormwater Management Regulation (SMR):

The Village building code requires new developments to not increase the offsite runoff post development. This is within municipal codes:

*Code 6-63 (i) No off site increase in runoff values will be acceptable except as approved by the village engineer, and*

*Code 6-64 (f) Runoff volumes and rates may not increase or change direction except as approved by the village engineer.*

### 2. Size of Development (SZ) documentation:

Per the municipal code, all improvements, including single lot developments, that increase runoff are required to detain the excess stormwater. This includes new houses, pools, additions, sport courts, large patios, etc.

*Code 6-63 (b) Stormwater drainage plans shall be required for all work on any site requiring a building permit except the following:*

*(a) Interior work;*

*(b) Roof maintenance or repair (as long as the volume, rate and direction of runoff are not altered);*

*(c) Any other work that does not make, or propose to make, any change to the exterior dimensions at grade level of the structures on the site; increase impervious area on the site or change the volume, rate and direction of runoff.*

These requirements are more stringent than the below Lake County ordinance as they pertain any increase in impervious. However, given some improvements are very small (patios, walkways, etc.), the Village does grant waivers for this requirement.

### 3. Design Storm (DS) documentation:

The following code requires design calculations for 2, 10, and 100 yr storms.

*Code 6-63 (e) The plan shall identify and quantify any runoff changes (volume, rate or direction) for existing conditions and postconstruction. Calculations to include a 2-, 10- and 100-year design storm.*

### 4. Low Impact Development (LID) documentation

The Lake County WDO, which the Village most recently adopted in 2021, has requirements to incorporate stormwater infiltration, evapotranspiration, reuse and other green infrastructure techniques within Article 5 of the Watershed Development Ordinance.

## 5. Public Maintenance (PUB) documentation

Under sec 6-68,

*(b) It shall be the duty of the owner of any site required to be improved and maintained in conformance with an approved stormwater drainage plan to bring such site into compliance with said engineering plans within fourteen (14) days following written notice from the director of community development that said site does not conform to the approved stormwater drainage plans for such property.*

For subdivisions properties, it is typical to grant the Village easement along these areas for future maintenance should the Village have to intervene.

## 6. Impact Adjustment for SMR

Maps for the West Fork of the North Branch of the Chicago River (NBCR) and Middle Fork of the NBCR attached.

## ADDITIONAL INFORMATION - Activity 450: Provide a copy of STORM WATER ORDINANCES

# Drainage Compliance

## Adoption of Lake County Watershed Development Ordinance

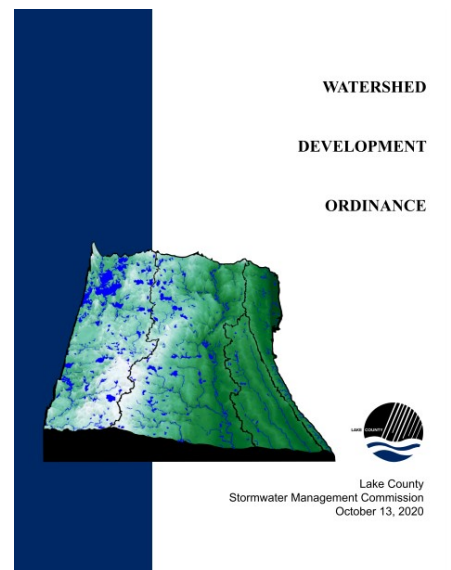
On October 13, 2020 the Lake County Board adopted amendments to the County-wide Watershed Development Ordinance (WDO). The amendment is currently effective and includes the minimum County-wide standards for regulated development. The amendments address new regulations including, but not limited to: updated storm water modeling (rainfall data and Bulletin 75), detention requirements, native planting requirements, earth stabilization for construction projects, water quality as related to WDO regulated development, and wetland determination among other things.

All communities in Lake County are required to adopt the revised ordinance by October, 8, 2012 as a requirement of the National Flood Insurance Program (NFIP) and to maintain community certification status. The Village of Deerfield is designated a "Certified Community" by the Lake County Stormwater Management Commission (SMC). Certified Communities are those communities that have been delegated authority by the SMC under the WDO to administer all, or portions of, the WDO within their community limits.

The original WDO was revised in 2020 and the Village of Deerfield adopted this revised WDO on 3/15/2021. A copy of the Lake County Watershed Development Ordinance (WDO) can be found on the Village website or on Lake County's website.

## Site Grading and Drainage Ordinance

The Village of Deerfield has developed a user guide to assist in the uniform interpretation of the subject ordinance. These requirements and procedures establish a basis for the Village to utilize in the administration of the ordinances of the Village of Deerfield. A copy of this manual can be found on the Village's website at <http://il-deerfield.civicplus.com/186/Drainage-Compliance>.



**COMPLETE MUNICIPAL CODE FOLLOWS:**

**CHAPTER 6. BUILDING.**

**Article 10. Site Grading and Drainage**

**Sec. 6-60. Definitions:**

For purposes of this article, the following words and phrases shall have the following meanings:

- (a) *As Built Grading Survey*: A survey by a licensed surveyor of actual grades at critical areas of the site, made following the completion of work and grading activities at the site, which is sufficient in the opinion of the village engineer to demonstrate drainage of stormwater runoff from the site in accordance with the approved stormwater drainage plan for the site.
- (b) *Engineer's Certificate Of Completion*: A certificate by a licensed engineer, following the completion of work and grading activities at the site, that the engineer has inspected the site following completion of the work and that future stormwater runoff from the site will be contained, routed and released in accordance with the approved stormwater drainage plan for the site.
- (c) *Grading*: Any excavation, clearing, filling or grading of a site that results in a change in elevation or a change in the volume, rate or direction of stormwater runoff.
- (d) *Grading Survey*: A survey by a licensed surveyor of actual grades at critical areas of the site sufficient in the opinion of the village engineer to demonstrate drainage of stormwater runoff from the site. A grading survey shall also show the top of foundation elevation of structures adjacent to the site and the actual grades at critical areas on property abutting the site as necessary in the opinion of the village engineer to establish existing drainage patterns that may be affected by the work.
- (e) *Impervious Surface Improvements*: A driveway, sidewalk, patio or other surface improvement that is constructed with materials rendering the same practically impervious to surface waters.
- (f) *Site*: Any lot, block, tract or parcel of land in the R-1, R-2, R-3, R-4 or R-5 residential zoning district, or in a residential planned unit development, where work or grading is proposed or performed.
- (g) *Stormwater Drainage Plan*: A plan for containing, routing and releasing stormwater runoff from a site approved by the village engineer. A stormwater drainage plan shall be consistent with the final engineering plans and drainage system, if any, approved for the subdivision in which the site is located and shall conform with all applicable laws and best engineering practices. A stormwater drainage plan shall address all portions of the site affected by grading activities, or by the construction of impervious surface improvements or any change which affects the rate, volume or direction of runoff.
- (h) *Stormwater Runoff*: Water that results from precipitation that is not absorbed by soil or plant material before draining from a site.

(i) *Work*: Any work on an existing or proposed residential building, structure or site which changes, or proposes to change, the exterior dimensions at grade level of the building or structures on the site, or the volume, rate or direction of runoff. (Ord. 0-09-09, 4-20-2009)

#### **Sec. 6-61. Drainage Plans Required With Building Permit Applications:**

No building permit shall be issued for a site until the owner of the site or his authorized agent has submitted a stormwater drainage plan, together with all other submissions required under village ordinances. Required stormwater drainage plans shall be submitted for review and approved prior to the start of construction work or grading activities. Stormwater drainage plans shall be required for all work on any site requiring a building permit except the following:

- (a) Interior work;
- (b) Roof maintenance or repair (as long as the volume, rate and direction of runoff are not altered);
- (c) Any other work that does not make, or propose to make, any change to the exterior dimensions at grade level of the structures on the site; increase impervious area on the site or change the volume, rate and direction of runoff.

All stormwater plans must reflect conformance with all applicable laws and best engineering practices. Such plans must be approved by the village engineer before any demolition or construction work may commence.

The appropriate unit of the building permit application must be completed and approved as provided in section 6-62 of this chapter for any recontouring or grading work to be done even if no demolition or construction work is contemplated.

All plans must be prepared and sealed by a licensed engineer. (Ord. 0-09-09, 4-20-2009)

#### **Sec. 6-62. Permits Required For Grading:**

- (a) No grading of a site shall be performed until the owner of the site has completed the appropriate unit of the building permit application, submitted supporting documentation and been issued a permit approving a stormwater drainage plan for the site. A stormwater drainage plan is required for the issuance of a permit.
- (b) A permit shall not be required for routine and ordinary landscape activities, provided that such grading or landscape activities do not result in a material change in the volume, rate and pattern of stormwater runoff onto or off of the site.
- (c) A separate permit is not required when a stormwater drainage plan is approved with a building permit issued for a site. The stormwater drainage plan must be submitted to and approved by the village engineer, prior to building permit issuance. (Ord. 0-09-09, 4-20-2009)

#### **Sec. 6-63. Stormwater Drainage Plan Components:**

Required stormwater drainage plans must address both existing and proposed stormwater drainage conditions and drainage channels on the site and the location on the site of excavated soil to be

stockpiled during construction. In particular, surface drainage patterns on the site during and after construction must be shown. The following is required at a minimum:

(a) A grading survey which shows the existing stormwater runoff patterns and the location of any special flood hazard areas prior to demolition of any habitable building and before any grading of the site.

(b) An engineered stormwater drainage plan that shows the proposed drainage patterns during and after construction. Site drainage conditions during and after construction may not be any worse than before construction, or impose a greater burden on downstream or upstream property owners than existed before construction. Site runoff volume, rate and direction must be included in the drainage plan for existing and postconstruction conditions. Any increase must be diverted or detained. Easements must be identified. A stormwater drainage plan shall include maintenance provisions.

(c) Sufficient information to substantiate the stormwater drainage patterns proposed, including spot elevations or topographic lines as necessary indicating:

(1) The slope of the property;

(2) The location of any dry wells or storm sewer intakes;

(3) The grades at the top of, and adjacent to, the foundation;

(4) The property lines;

(5) The location of all downspouts (and sump discharges) and their connection to the storm sewer serving the property;

(6) Downspout discharges and overland flow routes as applicable;

(7) Overland flow path(s) and emergency overflow route(s); and

(8) Base flood elevation and floodplain/floodway information (if applicable).

(d) An excavated materials plan showing where the stockpiling will occur, how stormwater runoff will be accommodated and the facilities to be provided to prevent soil erosion or silting of downstream areas.

(e) The plan shall identify and quantify any runoff changes (volume, rate or direction) for existing conditions and postconstruction. Calculations to include a 2-, 10- and 100-year design storm.

(f) Calculate capacity of downstream storm sewers (not necessary if 0 net discharge).

(g) Existing and/or proposed easements for overland flow path(s) and for emergency access.

(h) Maintenance instructions to describe expectations for maintenance of stormwater features including overland flow route(s).

(i) No off site increase in runoff values will be acceptable except as approved by the village engineer.

(j) During construction, spot surveys shall be provided immediately after the foundation pour, including top of foundation (T/F), brick ledge(s) as well as the location of the foundation relative to the building lines.

(k) One set of architectural drawings (with updates as needed) to be provided to the village engineer with the engineering submittal(s). (Ord. 0-09-09, 4-20-2009)

#### **Sec. 6-64. Downspouts And Sump Discharges:**

(a) All new and existing residential buildings whose additions increase the amount of property covered by buildings or modify downspouts and sump discharges must connect all downspouts and sump discharges to the available storm sewer system, unless the village engineer determines that downstream sewer capacity is insufficient, or that a direct connection of downspouts and sump discharges to the available storm sewer system is not necessary to prevent an increased burden upon adjoining property by reason of stormwater runoff in accordance with applicable laws and best engineering practices.

(b) Prepare downstream sewer capacity analysis for existing and proposed conditions prior to connecting to the public storm sewer.

(c) Demonstrate and quantify the existing and proposed runoff volume, rate and direction. Any increase must be diverted or detained.

(d) Direct connection of downspouts to the storm sewer system is not required if the public storm sewer system is more than two hundred feet (200') from the site, is not within easements or street right of way, or if applicable laws prohibit the direct inflow of stormwater.

(e) Discharges shall be directed away from adjacent properties and at a minimum setback from the property line (not less than 1/2 the building setback lines).

(f) Runoff volumes and rates may not increase or change direction except as approved by the village engineer.

(g) Direct downspout and sump discharges shall be released onto the site in a manner that provides positive drainage without adversely affecting adjacent property. (Ord. 0-09-09, 4-20-2009)

#### **Sec. 6-65. Stockpiled Materials:**

(a) Material stockpiles may not be located in areas where they might erode onto adjacent properties, public streets, or sidewalks. Stockpiles and excavated materials may not be placed in areas where potential damage to trees may occur or may cause root suffocation.

(b) Excavated material stockpiles must meet the requirements of the Lake County watershed development ordinance including erosion and sediment control. (Ord. 0-09-09, 4-20-2009)

#### **Sec. 6-66. As Built Grading Survey; Certificate Of Completion:**

- (a) An "as built" grading survey shall be provided after completion of the following construction work and grading activities for which a stormwater drainage plan was required, and subject to the further requirements set forth in subsections (b) through (j) of this section:
- (1) The construction of a new single-family residential building;
  - (2) Any work or grading activity which increases the runoff volume or rate, or changes the runoff pattern;
  - (3) Any work or grading activity within a drainage easement or swale.
- (b) An approved licensed design professional shall provide certified calculations for runoff volume, rate and sewer capacity. Postconstruction as built survey is to be prepared and certified by the original design professional for the project and is to include elevations for top of foundation (T/F), brick ledge(s), and adjacent grades at foundation, rim and inverts for all drainage structures, downspout and sump discharges and drainage swales, at a minimum.
- (c) All work within the flood prone zones shall be documented.
- (d) Datum for surveys shall be NAVD 88 or the latest datum used by the village.
- (e) All as built drawings are to be submitted on paper and electronically in the latest format compatible with the village's geographical information system (GIS).
- (f) After original plan approval, all subsequent changes must be submitted in writing with supporting calculations. Submittals will also be required for building additions and any work necessitating a stormwater drainage plan.
- (g) As a condition of approval of an as built grading plan, written maintenance instructions are to be submitted for review and approval. The owner must provide a maintenance commitment to the village.
- (h) The owner of the site shall provide a certificate of completion by owner's contractor, or by a surveyor, after completion of all construction work and grading activities not described in subsection (a) of this section for which a stormwater drainage plan was required. A certificate of completion from owner's contractor or from a surveyor is acceptable only with prior approval of the village engineer. Otherwise, only an "engineer's certificate of completion", as defined in section 6-60 of this chapter, shall be acceptable.
- (i) The village engineer shall approve the "as built" grading survey or certificate of completion if the village engineer determines that the approved stormwater drainage plan for the site has been implemented as required by this article. No occupancy permit of any kind shall be issued until such survey or certificate has been approved by the village engineer and is on file with the director of community development.
- (j) All "as built" grading surveys shall include public record easement information for the site. "As built" grading surveys shall be provided to the village in paper and electronic formats. (Ord. 0-09-09, 4-20-2009)

**Sec. 6-67. Waiver Of Grading Survey Requirement:**

The village engineer, upon a written appeal by the property owner, may, for good cause shown, waive or modify the requirement for a grading survey prior to construction or grading activities, and/or the requirement for an "as built" grading survey after the completion of construction and/or grading activities. For purposes of this article, "good cause" shall be deemed to be evidence satisfactory to the village engineer that compliance with the requirements and intent of an approved stormwater drainage plan can be determined without the full topographic survey information otherwise required by this article. (Ord. 0-09-09, 4-20-2009)

**Sec. 6-68. Duty Of Property Owner:**

- (a) It shall be unlawful for the owner of any site that has been improved or graded in accordance with a stormwater drainage plan approved pursuant to this article to alter or change any structure, grade, contour line, drainage channel or stormwater storage area in contravention of such approved drainage plan, or to allow the site to remain in a condition which does not conform to such approved stormwater drainage plan.
- (b) It shall be the duty of the owner of any site required to be improved and maintained in conformance with an approved stormwater drainage plan to bring such site into compliance with said engineering plans within fourteen (14) days following written notice from the director of community development that said site does not conform to the approved stormwater drainage plans for such property. (Ord. 0-09-09, 4-20-2009)

**MUNICIPAL CODE**

**CHAPTER 20. SUBDIVISIONS AND STORM WATER**

The subdivision ordinance of the village is saved from repeal and printed separately by the village which is filed in the office of the village clerk or in the office of the director of community development. (Subdivision Ord.)

There is hereby adopted by the president and board of trustees for the purpose of establishing storm water management standards, that certain code attached to ordinance 0-92-38 available for inspection in the office of the village manager to be known as the *VILLAGE OF DEERFIELD STORM WATER MANAGEMENT CODE*, of which not less than three (3) copies have been and are now filed in the office of the village manager and the same are hereby adopted and incorporated as fully as if set out in length herein, and from the date on which this ordinance shall take effect, the provisions hereof shall be controlling within the corporate limits of the village. (Ord. 0-92-38, 8-17-1992)

There is hereby adopted by the president and the board of trustees for the purpose of assuring the proper installation of private utilities, streets and other improvements in planned unit developments as provided for by the zoning ordinance of the village, a village of Deerfield development code of which not less than three (3) copies have been and are now filed in the office of the village manager and the same are hereby adopted and incorporated as fully as if set out in length herein and from the date in which this ordinance shall take effect the provisions thereof shall be controlling within the corporate limits of the village. (Ord. 0-93-54, 10-4-1993)

There is hereby adopted by the president and board of trustees for the purpose of establishing storm water management standards, the Lake County comprehensive storm water management plan adopted

by ordinance of the Lake County board on July 12, 1994, which plan shall be known as the *AMENDED AND RESTATED VILLAGE OF DEERFIELD STORM WATER MANAGEMENT CODE*, of which not less than three (3) copies have been and are now filed in the office of the village manager and the same are hereby adopted and incorporated as fully as if set out in length herein, and from the date on which this ordinance shall take effect, the provisions hereof shall be controlling within the corporate limits of the village. (Ord. 0-94-47, 12-5-1994)

There is hereby adopted by the president and board of trustees for the purpose of establishing storm water management standards, that certain code attached to ordinance 0-00-35 available for inspection in the office of the village manager to be known as the *AMENDED AND RESTATED VILLAGE OF DEERFIELD STORM WATER MANAGEMENT CODE* , of which not less than three (3) copies have been and are now filed in the office of the village manager and the same are hereby adopted and incorporated as fully as if set out in length herein, and from the date on which the ordinance codified herein shall take effect, the provisions hereof shall be controlling within the corporate limits of the village of Deerfield. (Ord. 0-00-35, 10-16-2000)



**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

RE: Activity 502 – Repetitive Loss Properties

Dear Mr. Arkens:

Since our last cycle visit on September 24, 2019, the Village has been informed that there are only nine unmitigated repetitive loss properties within the Village. For those existing properties within our limits, the main reason for flooding is due to overland flow and/or proximity to existing creeks. However, due to a lack of historical information, some of the reasons for specific properties remain unknown. Attached you will find the maps, letters, and an address list of each of the areas where repetitive loss letter have been mailed.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield

<b>Area 1A</b>		<b>Area 3</b>		<b>Area 7A</b>	
905 North Ave		972 Maple Ct		790 Smoke Tree Rd	
885 North Ave		964 Maple Ct		780 Smoke Tree Rd	
865 North Ave		956 Maple Ct		760 Smoke Tree Rd	
880 Northwoods Dr		937 Holmes Ave		750 Smoke Tree Rd	
850 Northwoods Dr		931 Holmes Ave		740 Smoke Tree Rd	
840 Northwoods Dr		925 Holmes Ave		730 Smoke Tree Rd	
834 Northwoods Dr		919 Holmes Ave			
832 Northwoods Dr		913 Holmes Ave			
	8	1384 Arbor Vitae			6
		940 Cedar St		<b>Area 7B</b>	
<b>Area 1B</b>		936 Cedar St		680 Bent Creek Ridge	
930 Summit Dr		930 Cedar St		670 Bent Creek Ridge	
920 Summit Dr			12	660 Bent Creek Ridge	
900 Summit Dr		<b>Area 4</b>		650 Bent Creek Ridge	
890 Summit Dr		1228 Holly Ln		630 Bent Creek Ridge	
935 Summit Dr		1224 Holly Ln		620 Bent Creek Ridge	
925 Summit Dr		920 Holly Ln		637 Wicklow Rd	
1750 East Summit Ct		918 Stratford Rd		635 Wicklow Rd	
	7	911 Stratford Rd		625 Wicklow Rd	
		901 Stratford Rd		615 Wicklow Rd	
<b>Area 2</b>		900 Wayne Ave			10
1674 Cranshire Ct		910 Wayne Ave		<b>Area 8</b>	
1670 Cranshire Ct		914 Wayne Ave		1121 Central	
1668 Cranshire Ct			9	1131 Central	
1664 Cranshire Ct		<b>Area 5</b>		1115 Central	
1654 Cranshire Ct		385 We Go Ct		1109 Central	
1653 Cranshire Ct		380 We Go Ct		526 Princeton Ln	
1657 Cranshire Ct		390 We Go Ct		530 Princeton Ln	
1661 Cranshire Ct		375 We Go Ct		1106 Brookside Ln	
1665 Cranshire Ct		380 Castlewood Ln			7
1671 Cranshire Ct		390 Castlewood Ln		<b>Area 9</b>	
1675 Cranshire Ct		412 Castlewood Ln		241 Forestway Dr	
1676 Garand Dr			7	237 Forestway Dr	
1674 Garand Dr		<b>Area 6</b>		231 Forestway Dr	
1668 Garand Dr		238 Willow Ave		225 Forestway Dr	
1664 Garand Dr		244 Willow Ave		219 Forestway Dr	
1660 Garand Dr		232 Willow Ave		234 Forestway Dr	
1656 Garand Dr		226 Willow Ave		228 Forestway Dr	
1663 Garand Dr		259 Burr Oak Ave		222 Forestway Dr	
1659 Garand Dr		245 Burr Oak Ave		216 Forestway Dr	
1653 Garand Dr		237 Burr Oak Ave			9
1651 Garand Dr		233 Burr Oak Ave			
1040 Hampton Ct			8		
1114 Hampton Ct					
1118 Hampton Ct					
	24				
	39		36		32



Resident  
Area 1A; Area 1B; Area 5; Area 7A  
Deerfield, IL 60015

Dear Resident:

You have received this letter because your property is in an area that has flooded several times between 1981 and 1991 due to heavy rain, snow melts in the area, or sump pump malfunctions.

Here are some things you can do to protect yourself and your neighborhood from flood damage:

1. Prepare for flooding by doing the following:
  - Know the flood safety guidance on the last page of this letter.
  - Know how to shut off the electricity and gas to your house when a flood comes.
  - Make a list of emergency numbers and identify a safe place to go to.
  - Make a household inventory, especially of basement contents.
  - Put insurance policies, valuable papers, medicine, etc. in a safe place.
  - Collect and put cleaning supplies, camera, waterproof boots, etc. in a handy place.
  - Develop a disaster response plan – See the Red Cross’ website for a copy of the brochure “Your Family Disaster Plan”: <http://www.redcross.org/www-files/Documents/pdf/Preparedness/checklists/Flood.pdf>
  - Get a copy of *Returning Home after a Hurricane or Flood* from the Red Cross’ website.
  
2. Consider some permanent flood protection measures.
  - Mark your fuse or breaker box to show the circuits to the floodable areas. Turning off the power to the basement can reduce property damage and save lives.
  - Consider elevating your house above flood levels.
  - Check your building for water entry points. These can be basement windows, the basement stairwell, doors, and dryer vents. These can be protected with low walls or temporary shields.
  - Install a floor drain plug, standpipe, overhead sewer, or sewer backup valve to prevent sewer backup flooding.

## Flood Outreach

Page Two

- More information can be found in *Homeowner's Guide to Retrofitting: Six Ways to Protect Your House from Flooding* at <http://www.fema.gov/rebuild/mat/fema312.shtm>
  - Note that some flood protection measures may need a building permit and others may not be safe for your type of building, so be sure to talk to the Building Department, 847-719-7484.
3. Talk to the Engineering Department for information on financial assistance.
- Get a flood insurance policy – it will help pay for repairs after a flood and, in some cases, it will help pay the costs of elevating a substantially damaged building.
4. Get a flood insurance policy.
- Homeowner's insurance policies do not cover damage from floods. However, because the Village participates in the National Flood Insurance Program, you can purchase a separate flood insurance policy. This insurance is backed by the Federal government and is available to everyone, even properties that have been flooded. Because the Village participates in the Community Rating System, you will receive a reduction in the insurance premium.
  - Some people have purchased flood insurance because it was required by the bank when they got a mortgage or home improvement loan. Usually these policies just cover the building's structure and not the contents. There is often more damage to the furniture and contents than there is to the structure. Be sure you have contents coverage.
  - Don't wait for the next flood to buy insurance protection. In most cases, there is a 30-day waiting period before National Flood Insurance Program coverage takes effect.
  - Contact your insurance agent for more information on rates and coverage.

If you have any questions regarding this letter or the National Flood Insurance Program please contact the Village of Deerfield Engineering Department at 847-317-2490 or via email at [engineering@deerfield.il.us](mailto:engineering@deerfield.il.us).

Sincerely,

The Village of Deerfield Engineering Department

## ***Flood Safety***

### ***Outdoors***

**Do not walk through flowing water.** Drowning is the number-one cause of flood deaths. Currents can be deceptive; six inches of moving water can knock you off your feet. Use a pole or stick to ensure that the ground is still there before you go through an area where the water is not flowing.

**Do not drive through a flooded area.** More people drown in their cars than anywhere else. Do not drive around road barriers; the road or bridge may be washed out. A car can float in as little as two feet of water.

**Stay away from power lines and electrical wires.** The number two flood killer after drowning is electrocution. Electrical current can travel through water. Report downed power lines to ComEd at 1-800-edison1.

### ***Indoors***

**Turn off your electricity if your building is flooded.** If you don't feel safe doing this, call an electrician. Some appliances, such as television sets, can shock you even after they have been unplugged. Don't use appliances or motors that have gotten wet unless they have been taken apart, cleaned, dried and inspected by a professional.

**Watch for animals.** Small animals like rats and snakes that have been flooded out of their homes may seek shelter in yours. Use a pole or stick to poke and turn items over and scare away small animals.

**Look before you step.** After a flood, the ground and floors are covered with debris including broken bottles and nails. Floors and stairs that have been covered with mud can be very slippery.

**Be alert for gas leaks.** Use a flashlight to inspect for damage. Don't smoke or use candles, lanterns, or open flames unless you know the gas has been turned off and the area has been thoroughly aired out. If you have questions on gas, call North Shore Gas. If it is an emergency call 866-556-6005 or if you just have questions call 866-556-6004.

**Carbon monoxide exhaust kills.** Use a generator or other gasoline-powered machine outdoors. The same goes for camping stoves. Fumes from charcoal are especially deadly — cook with charcoal outdoors.

**Clean everything that got wet.** Flood waters have picked up sewage and chemicals from roads, farms, factories, and storage buildings. Spoiled food and flooded cosmetics and medicines are health hazards. **When in doubt, throw them out.**

**Take good care of yourself.** Wear gloves and boots. Wash your hands frequently during clean up. Recovering from a flood is a big job. It is tough on both the body and spirit and the effects a disaster has on you and your family may last a long time. Keep your eyes open for signs of anxiety, stress, and fatigue in you and your family.

# Help Burst those Flood Insurance Myths

An important component of promoting flood insurance is dispelling the myths that persist about it. Below are a few of the most salient misunderstandings about flood insurance and some straightforward explanations of what is really true.

## **MYTH My homeowner's insurance covers flooding.**

This may be the most prevalent misinformation of all. In fact, almost no homeowner's insurance policies cover flood damage. That is why the federal government created the National Flood Insurance Program (NFIP). Flood insurance is sold as a separate policy, so even if a person's regular agent doesn't handle flood insurance, it can be obtained from another agent who serves that area. To find one, people can contact the NFIP call center at 800-427-4661 or [www.FloodSmart.gov](http://www.FloodSmart.gov).

## **MYTH I don't need flood insurance, because I'm not in a high-risk zone.**

The reality is that it can flood almost anywhere, and it doesn't take much water to cause expensive damage. In fact, about 1/3 of all flood disaster assistance and 1/3 of all flood insurance claims payments go to people who have been flooded even though they were outside of the mapped high-risk zone (Special Flood Hazard Area). With a changing climate, scientists say that extreme weather events—like the tremendous rain that accompanied hurricanes last summer and caused localized flooding—will be more likely in the future. So living in a location that so far has been thought to be at low risk does not mean that is safe now.

## **MYTH I can't get flood insurance, because I'm not in a high-risk zone.**

Virtually anyone who lives in or owns property in an NFIP-participating community can buy flood insurance for a residential building, business, condo, or apartment, and the contents can be insured as well (or instead). Flood insurance through the NFIP has never been restricted to people located in the high-risk zone (Special Flood Hazard Area). In fact, for people outside the high-risk zone, flood insurance is an even better deal, because the premiums are lower. An overview of the availability, coverage, and costs of flood insurance - in clear language and with sources of more information - can be found on the FloodSmart website.

## **MYTH Even if my house did flood, it wouldn't be by much.**

There may not be very much water, but that doesn't mean there won't be much damage. Only one inch of water in an average home can cause more than \$25,000 in damage.

## **MYTH I don't need flood insurance because FEMA gives disaster assistance.**

The truth is that FEMA can only provide disaster assistance when the president issues a disaster declaration—this happens for less than half of all floods. Even if there is a disaster declaration, FEMA can only provide small grants, not enough to cover all losses and certainly not enough to rebuild. For example, in Hurricane Harvey the average individual grant FEMA distributed was only \$7,000. Most other federal disaster assistance comes in the form of loans, which much be repaid. By contrast, in Hurricane Harvey, the average NFIP claim payment was over \$100,000—that's a payment from the insurance policy and of course never has to be repaid. And, a flood insurance policy pays for any covered damage, even if it results from a small (not disastrous) flood.

## *Prospective Buyers & Realtors*

### **FLOOD HAZARD: CHECK BEFORE YOU BUY**

Flooding and other surface drainage problems can occur well away from a river, lake, or ocean. If you're looking at a property, it's a good idea to check out the possible flood hazard before you buy. Here's why:

- The force of moving water or waves can destroy a building.
- Slow moving floodwaters can knock people off their feet or float a car.
- Even standing water can float a building, collapse basement walls, or buckle a concrete floor.
- Water-soaked contents, such as carpeting, clothing, upholstered furniture, and mattresses may have to be thrown away after a flood. Some items, such as photographs and heirlooms, may never be restored to their original condition.
- Floodwaters are not clean: floods carry mud, farm chemicals, road oil, and other noxious substances that cause health hazards.
- The impact of a flood, cleaning up, making repairs, and the personal losses can cause great stress to you, your family, and your finances.

**Floodplain Regulations:** Your community regulates construction and development in the floodplain to ensure that buildings will be protected from flood damage. Filling and similar projects are prohibited in certain areas. Houses that are substantially damaged by fire, flood, or any other cause must be elevated above the flood level when they are repaired.

**Check for the Flood Hazard:** Before you commit yourself to buying property, do the following:

- Ask the real estate agent if the property is in a floodplain, if it has ever been flooded, and if it is subject to any other hazards, such as sewer backup or subsidence.
- Ask the seller and the neighbors if the property is in a floodplain, how long they have lived there, if the property has ever been flooded, and if it is subject to any other hazards.
- Ask the local building, zoning, or engineering department if the property is in a floodplain, if it has ever been flooded, what is the flood depth, velocity, and warning time, if it is subject to any other hazards, and what building or zoning regulations are in effect.

**Flood Protection:** A building can be protected from most flood hazards, sometimes at a relatively low cost. New buildings and additions can be elevated above flood levels. Existing buildings can be protected from shallow floodwaters by regrading, berms, or floodwalls. There are other retrofitting techniques that can protect a building from surface or subsurface water.

**Flood Insurance:** One of the best protection measures for a building with a flood problem is National Flood Insurance, which is purchased through any property insurance agent. If the building is located in a floodplain, flood insurance will be required by most mortgage lenders. Ask an insurance agent how much a flood insurance policy would cost.



Resident

Area 2; Area 3; Area 4; Area 8; Area 9  
Deerfield, IL 60015

Dear Resident:

You have received this letter because your property is in an area that has flooded several times. Between 1982 and 1992, substantial flooding was caused by overflow of the West Fork of the North Branch of the Chicago River and/or Lake Eleanor. Flooding may be due to heavy rain or snow melts in the area.

Here are some things you can do to protect yourself and your neighborhood from flood damage:

1. Prepare for flooding by doing the following:

- Know the flood safety guidance on the last page of this letter.
- Know how to shut off the electricity and gas to your house when a flood comes.
- Make a list of emergency numbers and identify a safe place to go to.
- Make a household inventory, especially of basement contents.
- Put insurance policies, valuable papers, medicine, etc. in a safe place.
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## *Prospective Buyers & Realtors*

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- Ask the real estate agent if the property is in a floodplain, if it has ever been flooded, and if it is subject to any other hazards, such as sewer backup or subsidence.
- Ask the seller and the neighbors if the property is in a floodplain, how long they have lived there, if the property has ever been flooded, and if it is subject to any other hazards.
- Ask the local building, zoning, or engineering department if the property is in a floodplain, if it has ever been flooded, what is the flood depth, velocity, and warning time, if it is subject to any other hazards, and what building or zoning regulations are in effect.

**Flood Protection:** A building can be protected from most flood hazards, sometimes at a relatively low cost. New buildings and additions can be elevated above flood levels. Existing buildings can be protected from shallow floodwaters by regrading, berms, or floodwalls. There are other retrofitting techniques that can protect a building from surface or subsurface water.

**Flood Insurance:** One of the best protection measures for a building with a flood problem is National Flood Insurance, which is purchased through any property insurance agent. If the building is located in a floodplain, flood insurance will be required by most mortgage lenders. Ask an insurance agent how much a flood insurance policy would cost.



Resident  
Area 6  
Deerfield, IL 60015

Dear Resident:

You have received this letter because your property is in an area that has flooded several times between 1996 and 2007. Flooding may have been due to heavy rain, snow melts, or sump pump malfunctions.

Here are some things you can do to protect yourself and your neighborhood from flood damage:

1. Prepare for flooding by doing the following:
  - Know the flood safety guidance on the last page of this letter.
  - Know how to shut off the electricity and gas to your house when a flood comes.
  - Make a list of emergency numbers and identify a safe place to go to.
  - Make a household inventory, especially of basement contents.
  - Put insurance policies, valuable papers, medicine, etc. in a safe place.
  - Collect and put cleaning supplies, camera, waterproof boots, etc. in a handy place.
  - Develop a disaster response plan – See the Red Cross' website for a copy of the brochure "Your Family Disaster Plan": <http://www.redcross.org/www-files/Documents/pdf/Preparedness/checklists/Flood.pdf>
  - Get a copy of *Returning Home after a Hurricane or Flood* from the Red Cross' website.
  
2. Consider some permanent flood protection measures.
  - Mark your fuse or breaker box to show the circuits to the floodable areas. Turning off the power to the basement can reduce property damage and save lives.
  - Consider elevating your house above flood levels.
  - Check your building for water entry points. These can be basement windows, the basement stairwell, doors, and dryer vents. These can be protected with low walls or temporary shields.
  - Install a floor drain plug, standpipe, overhead sewer, or sewer backup valve to prevent sewer backup flooding.

## Flood Outreach

### Page Two

- More information can be found in *Homeowner's Guide to Retrofitting: Six Ways to Protect Your House from Flooding* at <http://www.fema.gov/rebuild/mat/fema312.shtm>
  - Note that some flood protection measures may need a building permit and others may not be safe for your type of building, so be sure to talk to the Building Department, 847-719-7484.
3. Talk to the Engineering Department for information on financial assistance.
- Get a flood insurance policy – it will help pay for repairs after a flood and, in some cases, it will help pay the costs of elevating a substantially damaged building.
4. Get a flood insurance policy.
- Homeowner's insurance policies do not cover damage from floods. However, because the Village participates in the National Flood Insurance Program, you can purchase a separate flood insurance policy. This insurance is backed by the Federal government and is available to everyone, even properties that have been flooded. Because the Village participates in the Community Rating System, you will receive a reduction in the insurance premium.
  - Some people have purchased flood insurance because it was required by the bank when they got a mortgage or home improvement loan. Usually these policies just cover the building's structure and not the contents. There is often more damage to the furniture and contents than there is to the structure. Be sure you have contents coverage.
  - Don't wait for the next flood to buy insurance protection. In most cases, there is a 30-day waiting period before National Flood Insurance Program coverage takes effect.
  - Contact your insurance agent for more information on rates and coverage.

If you have any questions regarding this letter or the National Flood Insurance Program please contact the Village of Deerfield Engineering Department at 847-317-2490 or via email at [engineering@deerfield.il.us](mailto:engineering@deerfield.il.us).

Sincerely,

The Village of Deerfield Engineering Department

## ***Flood Safety***

### ***Outdoors***

**Do not walk through flowing water.** Drowning is the number-one cause of flood deaths. Currents can be deceptive; six inches of moving water can knock you off your feet. Use a pole or stick to ensure that the ground is still there before you go through an area where the water is not flowing.

**Do not drive through a flooded area.** More people drown in their cars than anywhere else. Do not drive around road barriers; the road or bridge may be washed out. A car can float in as little as two feet of water.

**Stay away from power lines and electrical wires.** The number two flood killer after drowning is electrocution. Electrical current can travel through water. Report downed power lines to ComEd at 1-800-edison1.

### ***Indoors***

**Turn off your electricity if your building is flooded.** If you don't feel safe doing this, call an electrician. Some appliances, such as television sets, can shock you even after they have been unplugged. Don't use appliances or motors that have gotten wet unless they have been taken apart, cleaned, dried and inspected by a professional.

**Watch for animals.** Small animals like rats and snakes that have been flooded out of their homes may seek shelter in yours. Use a pole or stick to poke and turn items over and scare away small animals.

**Look before you step.** After a flood, the ground and floors are covered with debris including broken bottles and nails. Floors and stairs that have been covered with mud can be very slippery.

**Be alert for gas leaks.** Use a flashlight to inspect for damage. Don't smoke or use candles, lanterns, or open flames unless you know the gas has been turned off and the area has been thoroughly aired out. If you have questions on gas, call North Shore Gas. If it is an emergency call 866-556-6005 or if you just have questions call 866-556-6004.

**Carbon monoxide exhaust kills.** Use a generator or other gasoline-powered machine outdoors. The same goes for camping stoves. Fumes from charcoal are especially deadly — cook with charcoal outdoors.

**Clean everything that got wet.** Flood waters have picked up sewage and chemicals from roads, farms, factories, and storage buildings. Spoiled food and flooded cosmetics and medicines are health hazards. **When in doubt, throw them out.**

**Take good care of yourself.** Wear gloves and boots. Wash your hands frequently during clean up. Recovering from a flood is a big job. It is tough on both the body and spirit and the effects a disaster has on you and your family may last a long time. Keep your eyes open for signs of anxiety, stress, and fatigue in you and your family.

# Help Burst those Flood Insurance Myths

An important component of promoting flood insurance is dispelling the myths that persist about it. Below are a few of the most salient misunderstandings about flood insurance and some straightforward explanations of what is really true.

## **MYTH My homeowner's insurance covers flooding.**

This may be the most prevalent misinformation of all. In fact, almost no homeowner's insurance policies cover flood damage. That is why the federal government created the National Flood Insurance Program (NFIP). Flood insurance is sold as a separate policy, so even if a person's regular agent doesn't handle flood insurance, it can be obtained from another agent who serves that area. To find one, people can contact the NFIP call center at 800-427-4661 or [www.FloodSmart.gov](http://www.FloodSmart.gov).

## **MYTH I don't need flood insurance, because I'm not in a high-risk zone.**

The reality is that it can flood almost anywhere, and it doesn't take much water to cause expensive damage. In fact, about 1/3 of all flood disaster assistance and 1/3 of all flood insurance claims payments go to people who have been flooded even though they were outside of the mapped high-risk zone (Special Flood Hazard Area). With a changing climate, scientists say that extreme weather events—like the tremendous rain that accompanied hurricanes last summer and caused localized flooding—will be more likely in the future. So living in a location that so far has been thought to be at low risk does not mean that is safe now.

## **MYTH I can't get flood insurance, because I'm not in a high-risk zone.**

Virtually anyone who lives in or owns property in an NFIP-participating community can buy flood insurance for a residential building, business, condo, or apartment, and the contents can be insured as well (or instead). Flood insurance through the NFIP has never been restricted to people located in the high-risk zone (Special Flood Hazard Area). In fact, for people outside the high-risk zone, flood insurance is an even better deal, because the premiums are lower. An overview of the availability, coverage, and costs of flood insurance - in clear language and with sources of more information - can be found on the FloodSmart website.

## **MYTH Even if my house did flood, it wouldn't be by much.**

There may not be very much water, but that doesn't mean there won't be much damage. Only one inch of water in an average home can cause more than \$25,000 in damage.

## **MYTH I don't need flood insurance because FEMA gives disaster assistance.**

The truth is that FEMA can only provide disaster assistance when the president issues a disaster declaration—this happens for less than half of all floods. Even if there is a disaster declaration, FEMA can only provide small grants, not enough to cover all losses and certainly not enough to rebuild. For example, in Hurricane Harvey the average individual grant FEMA distributed was only \$7,000. Most other federal disaster assistance comes in the form of loans, which much be repaid. By contrast, in Hurricane Harvey, the average NFIP claim payment was over \$100,000—that's a payment from the insurance policy and of course never has to be repaid. And, a flood insurance policy pays for any covered damage, even if it results from a small (not disastrous) flood.

## *Prospective Buyers & Realtors*

### **FLOOD HAZARD: CHECK BEFORE YOU BUY**

Flooding and other surface drainage problems can occur well away from a river, lake, or ocean. If you're looking at a property, it's a good idea to check out the possible flood hazard before you buy. Here's why:

- The force of moving water or waves can destroy a building.
- Slow moving floodwaters can knock people off their feet or float a car.
- Even standing water can float a building, collapse basement walls, or buckle a concrete floor.
- Water-soaked contents, such as carpeting, clothing, upholstered furniture, and mattresses may have to be thrown away after a flood. Some items, such as photographs and heirlooms, may never be restored to their original condition.
- Floodwaters are not clean: floods carry mud, farm chemicals, road oil, and other noxious substances that cause health hazards.
- The impact of a flood, cleaning up, making repairs, and the personal losses can cause great stress to you, your family, and your finances.

**Floodplain Regulations:** Your community regulates construction and development in the floodplain to ensure that buildings will be protected from flood damage. Filling and similar projects are prohibited in certain areas. Houses that are substantially damaged by fire, flood, or any other cause must be elevated above the flood level when they are repaired.

**Check for the Flood Hazard:** Before you commit yourself to buying property, do the following:

- Ask the real estate agent if the property is in a floodplain, if it has ever been flooded, and if it is subject to any other hazards, such as sewer backup or subsidence.
- Ask the seller and the neighbors if the property is in a floodplain, how long they have lived there, if the property has ever been flooded, and if it is subject to any other hazards.
- Ask the local building, zoning, or engineering department if the property is in a floodplain, if it has ever been flooded, what is the flood depth, velocity, and warning time, if it is subject to any other hazards, and what building or zoning regulations are in effect.

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**Flood Insurance:** One of the best protection measures for a building with a flood problem is National Flood Insurance, which is purchased through any property insurance agent. If the building is located in a floodplain, flood insurance will be required by most mortgage lenders. Ask an insurance agent how much a flood insurance policy would cost.



Resident  
Area 7B  
Deerfield, IL 60015

Dear Resident:

You have received this letter because your property is in an area that has flooded several times between 2000 and 2018 due to overflow of the Middle Fork of the North Branch of the Chicago River in the event of a heavy rain or a big snow melt.

Here are some things you can do to protect yourself and your neighborhood from flood damage:

1. Prepare for flooding by doing the following:
  - Know the flood safety guidance on the last page of this letter.
  - Know how to shut off the electricity and gas to your house when a flood comes.
  - Make a list of emergency numbers and identify a safe place to go to.
  - Make a household inventory, especially of basement contents.
  - Put insurance policies, valuable papers, medicine, etc. in a safe place.
  - Collect and put cleaning supplies, camera, waterproof boots, etc. in a handy place.
  - Develop a disaster response plan – See the Red Cross’ website for a copy of the brochure “Your Family Disaster Plan”: <http://www.redcross.org/www-files/Documents/pdf/Preparedness/checklists/Flood.pdf>
  - Get a copy of *Returning Home after a Hurricane or Flood* from the Red Cross’ website.
2. Consider some permanent flood protection measures.
  - Mark your fuse or breaker box to show the circuits to the floodable areas. Turning off the power to the basement can reduce property damage and save lives.
  - Consider elevating your house above flood levels.
  - Check your building for water entry points. These can be basement windows, the basement stairwell, doors, and dryer vents. These can be protected with low walls or temporary shields.
  - Install a floor drain plug, standpipe, overhead sewer, or sewer backup valve to prevent sewer backup flooding.

## Flood Outreach

### Page Two

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- Get a flood insurance policy – it will help pay for repairs after a flood and, in some cases, it will help pay the costs of elevating a substantially damaged building.
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- Homeowner's insurance policies do not cover damage from floods. However, because the Village participates in the National Flood Insurance Program, you can purchase a separate flood insurance policy. This insurance is backed by the Federal government and is available to everyone, even properties that have been flooded. Because the Village participates in the Community Rating System, you will receive a reduction in the insurance premium.
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## ***Flood Safety***

### ***Outdoors***

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**VILLAGE OF DEERFIELD**

January 23, 2023

Brad Arkens, CFM  
CRS Resource Specialist  
ISO, Community Hazard Mitigation

Subject: Activity 510 – Flood Plain Management Planning

Dear Mr. Arkens:

On October 2, 2017, the Village of Deerfield held a public hearing and approved the resolution to adopt the revised 2017 Lake County All-Natural Hazards Mitigation Plan (ANHMP). This plan was developed by the Lake County Local Planning Committee, of which the former Director of Public Works and Engineering for the Village of Deerfield (Barbara K. Little, P.E.) was a member. In addition to Ms. Little's participation, department staff (Justin Keenan, Robert Phillips, & Tyler Dickinson) also provided input via the community questionnaire during the annual ANHMP plan update process. The agenda for the most recent annual meeting held on January 26, 2022 is attached. Also attached is the Village Board Agenda announcing that the resolution was to be presented to the Village Board for adoption, the executed Village Resolution, the ANHMP community questionnaire, and finally, the 2020 annual progress report. The most recent update has not been released yet. The full plan, which is nearly 300 pages long, may be obtained through the Lake County and Deerfield websites.

If you have any questions or need additional information please feel free to contact me.

Sincerely,

Tyler K. Dickinson, P.E.  
Assistant Director of Public Works & Engineering  
Village of Deerfield



**Lake County, Illinois  
2022 Hazard Mitigation Plan Update**

**Kick-off Meeting  
Date: January 26, 2022, 2:00 PM EST**

First Name	Last Name	Organization/Agency	Signature
Tom	Shaughnessy	Antioch Township	Tom Shaughnessy
Justin	Keenan	Village of Deerfield	Justin Keenan
Andrea	Larson	Village of Buffalo Grove	
Darren	Monico	Village of Buffalo Grove	
Michael	Brown	Village of Lake Zurich	
Johnathan	Meyer	Village of Volo	

**Signature:** *Tom Shaughnessy*  
Tom Shaughnessy (Feb 1, 2022 13:25 CST)  
**Email:** tshaughnessy@antiochtownshipil.gov

**Signature:** *Justin Keenan*  
Justin Keenan (Feb 2, 2022 08:54 CST)  
**Email:** jkeenan@deerfield.il.us

**Signature:**  
**Email:** dmonico@vbg.org

**Signature:**  
**Email:** mike.brown@lakezurich.org

**Signature:**  
**Email:** jmeyer@villageofvolo.com

**AGENDA FOR THE BOARD OF TRUSTEES**  
**Monday, October 2, 2017, 7:30 P.M.**

Call to Order  
Roll Call  
Minutes of Previous Meeting  
Treasurer's Report  
Bills and Payroll  
Public Comment

**REPORTS**

17-81 Report and Recommendation of the Plan Commission re: Request for Special Use to Permit the Establishment of The Dump Luxe Furniture Store at the South End of Deerbrook Shopping Center, in the former Great Indoors and Wonder space at 250 S. Waukegan Road (Haynes Furniture and Sears Roebuck & Co.)

**CONSENT AGENDA**

17-82 Resolution Adopting the 2017 Lake County All Natural Hazards Mitigation Plan

**OLD BUSINESS**

17-78-1 Ordinance Approving a Final Development Plan for an Independent Living Facility Located at 1627 Lake Cook Road (Jewish United Fund/Jewish Federation of Metropolitan Chicago, JFMC Facilities Corporation and Banner Development, LLC) – 1R (Petitioner Requests to Table to October 16)

17-80-1 Ordinance Authorizing a Special Use for a Beauty Salon and Spa for a Jon'Ric Spa at 654 Deerfield Road in the Former RHT Kitchen and Bath Store (Jon'Ric International and Jonathan Berger/Bensenville Associates, LLC) – 1R

**NEW BUSINESS**

17-83 Ordinance Authorizing an Intergovernmental Agreement between the Village of Deerfield and Lake County – 1R

Items for discussion by Mayor and Board of Trustees  
Reports of the Village Manager  
Adjournment

## REQUEST FOR BOARD ACTION

Agenda Item: 17-82

**Subject:** Adopt Resolution to participate in the Lake County, IL All Natural Hazards Mitigation Plan

**Action Requested:** Adoption of Resolution

**Originated By:** Department of Public Works and Engineering

**Referred To:** Mayor and Board of Trustees

### **Summary of Background and Reason for Request:**

The Lake County All Natural Hazards Mitigation Plan (ANHMP) was last adopted by Lake County and participating municipalities in 2012. The ANHMP allows the County and municipalities to be eligible for hazard mitigation grants from the Federal Emergency Management Agency (FEMA). Grant funds can be applied for when a mitigation project is identified. The ANHMP must be updated every five years. The Village of Deerfield has participated in the Hazard Mitigation Planning Committee (HMPC) since it began in 2006 and have attended meetings annually. The 2017 ANHMP is the second update of the 2006 ANHMP.

The ANHMP meets the requirements of the FEMA National Flood Insurance Program's Community Rating System (CRS). The CRS allows communities to earn credit towards discounts in flood insurance premiums. The Village is currently at Level 6, which provides a 20% discount.

The HMPC reviewed and reaffirmed the goals of the ANHMP. The ANHMP goals are:

- Goal 1. Protect the lives, health, and safety of the people of Lake County from the impact and effects of natural hazards.
- Goal 2. Protect public services, utilities and critical facilities from potential damage from natural hazard events.
- Goal 3: Mitigate existing buildings to protect against damage from natural hazard events.
- Goal 4. Ensure that new developments do not create new exposures of people and property to damage from natural hazards.
- Goal 5. Mitigate to protect against economic and transportation losses due to natural hazards.

It is important that all Lake County communities participate. Participation in the planning process and adoption of the updated 2017 ANHMP are FEMA requirements for mitigation grant funding. The ANHMP is a "multi-jurisdictional" plan, rather than a countywide plan, which means that the County and individual communities must each adopt the plan in order to be eligible for mitigation grant money. Please note that FEMA hazard mitigation grant funding is additional funding beyond disaster assistance. Each municipality that adopts the ANHMP can apply to IEMA/FEMA for mitigation grants on their own.

The Director of Public Works and Engineering requests Board approval and the Mayor's signature on the *Resolution-Adoption of the 2017 Lake County All Natural Hazards Mitigation Plan*.

### **Reports and Documents Attached:**

- *Resolution-Adoption of the 2017 Lake County All Natural Hazards Mitigation Plan*

**Date Referred to Board:** October 2, 2017

**Action Taken:** \_\_\_\_\_

**VILLAGE OF DEERFIELD  
LAKE COUNTY, IL  
RESOLUTION R-17-11  
ADOPTION OF THE 2017 LAKE COUNTY  
ALL NATURAL HAZARDS MITIGATION PLAN**

**WHEREAS**, Lake County is subject to flooding, tornadoes, severe summer and winter storms, and other natural hazards that can damage property, close businesses, disrupt traffic, and present a public health and safety hazard; and

**WHEREAS**, the Lake County Hazard Mitigation Planning Committee has prepared and recommended the 2017 update of *Lake County All Natural Hazards Mitigation Plan* that reviews the County's options to protect people and reduce damage from hazards; and

**WHEREAS**, the Lake County and Lake County municipalities prepared and adopted the 2012 *Lake County All Natural Hazards Mitigation Plan* and the 2017 *Lake County All Natural Hazards Mitigation Plan* is an update required by the Federal Emergency Management Agency; and

**WHEREAS**, the 2017 *Lake County All Natural Hazards Mitigation Plan* was developed as a multi-jurisdictional plan and has been submitted and approved by Illinois Emergency Management Agency and the Federal Emergency Management Agency; and

**WHEREAS**, the preparation and adoption of a community mitigation plan is a requirement of the Federal Emergency Management Agency in order for Lake County and the Village of Deerfield to be eligible for federal mitigation funds under Section 104 of the Disaster Mitigation Act of 2000 (42 USC 5165), and under 44 CFR (Code of Federal Regulations) Part 201.

**NOW, THEREFORE BE IT RESOLVED**, that the *2017 Lake County All Natural Hazards Mitigation Plan*, is hereby adopted as an official plan of the Village of Deerfield, and;


**BE IT FURTHER RESOLVED**, that Barbara K. Little, P.E., Director of Public Works and Engineering, is hereby appointed as the Village's representative on the Lake County Hazard Mitigation Planning Committee and she will keep the Village apprised of the mitigation action items undertaken by or reported to the Lake County Hazard Mitigation Planning Committee, and

**BE IT FURTHER RESOLVED**, that the Village Clerk is hereby requested to distribute a certified copy of this Resolution to the Lake County Stormwater Management Commission.

**ADOPTED** this 02 day of October, 2017.

  
\_\_\_\_\_ Clerk

**APPROVED** this 02 day of October, 2017

  
\_\_\_\_\_ Village President

## ANHMP Community Specific Action Item Update 2020

Community: Village of Deerfield, IL

Representative & Title: Justin Keenan, Assistant to the Director of PW

Date: 5/10/2021

Action Item	Description	Question:	Response: Please answer all questions. Use additional sheets if needed.
1	<b>Adoption</b>	N/A	N/A
2	<b>Monitor &amp; Maintain</b>	N/A	N/A
3	<b>Incorporate ANHMP in Other Plans</b>	Did your community incorporate goals or action items of the 2017 Update to the ANHMP into other community plans? If so, which plan(s)?	Yes, the Village is in the process of adopting a storm water master plan. The goal is to reduce structure, roadway and property flooding.
4	<b>Implement WDO &amp; NFIP</b>	Has your community maintained good standing with the NFIP and continued its responsibilities with the Lake County WDO?	Yes
5	<b>Public Information</b>	Did your community initiate or continue any public information and education efforts that pertained to severe summer and/or winter storms, floods, or tornadoes during the past year? If so, when and through what format (website, newsletter, etc.) ?	We include FEMA required public outreach information via our website, bi-monthly newsletter and direct mailing to flooding areas.
6	<b>Alternate Power Sources</b>	Has your community identified or installed alternate power sources (backup generation needs) for your community's critical facilities? Has your community worked with other critical facility owners (e.g., shelter facilities) on backup power issues?	No significant upgrades but maintained existing systems as required.
7	<b>Mitigation of Critical Facilities</b>	Did your community investigate or mitigate any critical facilities (municipal buildings, schools, etc.) that could be impacted by severe summer or winter storms, floods or tornadoes in the past year?	No, there is no immediate threat to existing facilities. However, an assesment was completed as part of the storm water master plan.
8	<b>Capacity of Drainage Systems</b>	Has your community undertaken any projects (study, design or construction) to improve the drainage capacity of the surface water system (channels or pipes) in the past year? If so, please explain.	The Village completed a Villagewide storm water master plan in 2021. The Village also restructured Woodvale avenue and as part of the program installed new storm sewers thereby increasing capacity.
9	<b>Maintain Drainage Systems</b>	Does your community implement formal and regular drainage system inspection and maintenance program? If so, do you have written procedure? If not, has your community considered developing a program?	The Village has a robust cleaning, televising and lining program for storm sewers.
10	<b>Property Protection Projects</b>	Did your community investigate or mitigate any properties that are subject to flood damage or impact of severe summer storms (acquire, elevate, floodproof, or retrofit) in the past year? If so, please explain.	No
11	<b>Reduce Inflow and Infiltration</b>	Has your community undertaken any programs or projects (study, design or construction) to reduce inflow or infiltration into your combined sewer system? If so, please describe.	Yes, the Village spends \$400,000 to line sanitary sewers and grout service connections to reduce I/I.
12	<b>Wind Mitigation &amp; Safe Rooms</b>	Did your community identify or undertake any wind mitigation projects for the protection of buildings, or provided safe rooms and sheltering? If so, please describe.	No
13	<b>Tree City USA</b>	Is your community continuing its participation in Tree City USA? Or, has your community joined, or has your community considered joining, Tree City USA?	Yes, the Village Tree City USA Participant
14	<b>NIMS Compliance</b>	Are officials in your community NIMS compliant?	No
15	<b>Improve Building Codes</b>	Has your community made any revisions to adapted building codes in the past year? Any change in your community's BCEGS rating?	No
16	<b>Seek Grant Funding</b>	Did your community investigate or mitigate any properties that are subject to flood damage from the impact of severe summer storms (acquire, elevate, floodproof, or retrofit) in the past year? If so, please describe.	Staff investigated numerous properties that are subjected to flood issues.
17	<b>StormReady</b>	Is your community a StormReady community, or have you considered becoming a StormReady community?	No

## ANHMP Community Specific Action Item Update 2020

Action Item	Description	Question:	Response: Please answer all questions. Use additional sheets if needed.
18	<b>Emergency Response</b>	<i>Has your community developed or made revisions to its emergency response efforts and assessment teams for emergency management response, health department concerns and post-disaster mitigation?</i>	No
19	<b>Response &amp; Recovery Information</b>	<i>Has your community implemented or made revisions to systems to help ensure coordination of response and recovery efforts during and after natural hazard events? Has your community identified or implemented additional training opportunities (annual exercises and/or table top exercises)? If so, please describe.</i>	No
20	<b>CRS Participation</b>	<i>Any change in your CRS class since last year?</i>	No
21	<b>Map Natural Hazard Impacts &amp; Vulnerability Assessments</b>	<i>Does your community identify and map structures, infrastructure and critical facilities at risk for natural disasters? Has your community conducted vulnerability assessments to evaluate potential hazard mitigation projects? If so, please explain.</i>	The Village completed a risk and resiliency study in 2021. The results will be submitted to the EPA in June.
22	<b>SMC Flood Mitigation Projects</b>	<i>Has your community identified and implemented any new watershed management efforts or flood mitigation projects? If so, please describe.</i>	No
23	<b>Development of Flood Stage Maps</b>	<i>Did your community develop flood stage and inundation maps for floodplain areas? If so, please describe.</i>	Yes, floodplain and inundation maps were developed as part of the storm water master plan.
24	<b>Snow removal plan</b>	<i>Did your community develop or enhance a snow removal plan? If so, please describe.</i>	No
25	<b>Utility tree trimming</b>	<i>Has your community implemented a plan or schedule for utility tree trimming? If so, how often or describe.</i>	This is completed by ComEd. The Village is not responsible for any overhead utilities.
26	<b>Sump Pump Disconnects</b>	<i>Did your community implement or revise regulations for the disconnection of sump pumps from sewer system(s)? Does your community have any incentive programs for this? If so, please describe.</i>	Yes, Deerfield offers an 80/20 cost share where the Village will reimburse 20% of the total cost to residents for disconnecting their sump pumps.
27	<b>Local Drainage Studies</b>	<i>Has your community investigated urban flooding and local drainage issues to reduce the impact of flooding to buildings and infrastructure? If so, please describe.</i>	Yes, the Village is in the process of adopting a storm water master plan.
28	<b>Increase Detention</b>	<i>Has your community identified opportunities for additional stormwater detention capacity? If so, please describe.</i>	Yes, the Village is in the process of adopting a storm water master plan that lists potential locations.
29	<b>Investigate Countywide Warning System</b>	<i>Did your community investigate additional warning systems for natural hazard events?</i>	No
30	<b>Investigate Future Conditions &amp; Impact on Depth &amp; Frequency of Flooding</b>	<i>Has your community conducted or identified any new studies or updated existing studies to determine the potential of future increases in flood depths and frequency? If so, please list or describe.</i>	Yes, the Village is in the process of adopting a storm water master plan.
31	<b>Lincolnshire Creek Improvements</b>	<i>Has your community identified or implemented mitigation measures to reduce flooding in Lincolnshire Creek?</i>	N/A
32	<b>Mitigate Septic Discharge; Leaching into Waterways</b>	<i>Did your community initiate or continue any public information and education efforts that pertained to septic discharge and the protection of surface and ground water quality? If so, when and through what format (website, newsletter, etc.)?</i>	No
33	<b>Implement the FFRMS</b>	<i>Did your community have any new construction and/or substantial improvement projects where federal funds were included and where the flood protection standard exceeded the WDO standard? If yes, please describe.</i>	No
34	<b>Des Plaines River Neighborhood Flood Protection</b>	<i>Did your community undertake any mitigation measure(s) to protect the Des Plaines River Neighborhoods from the impact from flooding? If so, when? Please describe.</i>	N/A
35	<b>Action Item(s) not identified by your community.</b>	<i>Implementation of an ANHMP Action Item(s) not identified by your community. If so, which Action Item? Please describe.</i>	No

**CRS Activity 510  
Annual Progress Report on Implementation of Credited Plan**

**Which Plan is this for (use separate templates for each credited Plan):**

- Floodplain Management Plan (Hazard Mitigation Plan)**
- Repetitive Loss Area Analysis**
- Floodplain Species Plan**
- Substantial Damage Plan**

Name of Community: Village of Deerfield

Date this Annual Progress Report was prepared (not the date of adoption of the credited Plan): 1/16/2023

Name of Plan: Lake County All Natural Hazards Mitigation Plan

Date of Adoption of Plan: October 2, 2017

*5 Year CRS Expiration Date: January 2025*

1. How can a copy of the credited Plan be obtained:

They entire plan can be found on the Lake County's and the Village's websites.

2. Describe how ***this annual progress report*** (not the credited Plan) was prepared and how it was submitted to the governing body, released to the media, and made available to the public:

The report was developed by the Village of Deerfield and was made available to the Village Board, local media, and the public via the Village's website (see attached).

3. Provide a description of the implementation of each recommendation or action item in the action plan or area analysis report, including a statement on how the project was implemented or not implemented during the previous year:

See attached for the latest Lake County's 2020 Annual Report. A more current update has not yet been released by Lake County.

4. Discuss why any objectives were not reached or why implementation is behind schedule:

N/A

5. What are the recommendations for new projects or revised recommendations?

N/A



**Lake County  
All-Natural Hazards  
Mitigation Plan**

Lake County, Illinois

**2020 Annual  
Evaluation Report**  
of 2017 All-Natural Hazard Mitigation Plan

# Lake County, Illinois

## 2020 Annual Evaluation Report

### All-Natural Hazards Mitigation Plan

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#### Overview

The Lake County Hazard Mitigation Planning Committee (HMPC), Lake County departments and agencies, Lake County municipalities, and other stakeholders together conducted the 2017 update of the 2012 Lake County All-Natural Hazard Mitigation Plan (ANHMP). The HMPC has been in place since the development of the 2006 ANHMP and continues to meet annually. The Lake County Stormwater Management Commission (SMC) and Lake County Emergency Management Agency (LCEMA) coordinate the efforts of the HMPC.

This ANHMP, an update of the 2017 plan, assesses the natural hazards that affect Lake County, sets mitigation goals, considers mitigation efforts currently being implemented, evaluates additional mitigation strategies, and recommends mitigation actions to be implemented between 2017 and the next five-year update in 2021. The mitigation actions are designed to protect the people and assets of Lake County and designed to be undertaken by both the public and private sectors.

*Action Item 2: “Participation on the Hazard Mitigation Planning Committee and Plan Monitoring and Maintenance”* calls for the Lake County Hazard Mitigation Planning Committee (HMPC) to meet annually to evaluate and monitor progress on implementation of the ANHMP, and to organize for the next update of this ANHMP. The HMPC should submit the annual evaluation report to the County Board as an informational item.

The HMPC met on July 29, 2021, via Zoom to develop this 2020 Annual Evaluation Report. This report is based on discussions at the meeting and information collected from the HMPC, Lake County departments and agencies, municipalities, and stakeholders. Appendix A to this report contains the meeting’s agenda.

# Lake County Natural Disaster Declarations

## *Post-Plan Development & Adoption*

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### **Illinois COVID-19 FEMA-4489-DR**

#### **Declared March 26, 2020**

On March 24, 2020, Governor JB Pritzker requested a major disaster declaration due to the Coronavirus Disease 2019 (COVID-19) pandemic beginning on January 20, 2020 and continuing. The Governor requested a declaration for Individual Assistance (all programs) statewide and emergency protective measures (Category B), including direct Federal assistance under the Public Assistance program statewide. This event was of the severity and magnitude that the need for supplemental Federal assistance was determined to be necessary prior to the completion of joint Federal, State, and local government Preliminary Damage Assessments (PDAs). Per 44 C.F.R. § 206.33(d) and § 206.36(d), the requirement for a joint PDA may be waived for those incidents of such unusual severity and magnitude that formal field damage assessments are not required to establish the need for supplemental Federal assistance under the Stafford Act.<sup>1</sup>

On March 26, 2020, President Trump declared that a major disaster exists in the State of Illinois. This declaration made Individual Assistance limited to the Crisis Counseling Program requested by the Governor available in all areas in the State of Illinois. This declaration also made emergency protective measures (Category B) not authorized under other Federal statutes, including direct Federal assistance, under the Public Assistance program requested by the Governor available to state and eligible local governments and certain private nonprofit organizations on a cost-sharing basis for all areas in the State of Illinois.

Spring 2020 caused numerous flooding events in Lake County. In a 48-hour period between the dates of April 28-30, Lake County received between 2.92 inches (Buffalo Grove) and 4.50 inches (Fox Lake Hills) of rain. On May 15, 2020, Zion experienced flooding that shut down multiple intersections, including IL-173 and Wadsworth. On May 17, 2020, US-41 was closed at IL-60 in Lake Forest due to flooding. Residential streets near Deerfield and Wilmot Roads were flooded in Deerfield. Additionally, flooding was observed on Appley Avenue near Oak Spring Road in Libertyville. May 2020 was 0.6" away from breaking the record for wettest May ever in Chicago.

Following one of the wettest spring seasons on record came one of the driest summers on record – the summer of 2020. The summer of 2020 was also the warmest summer on record for Chicagoland. Further, there were 7 consecutive days in November where temperatures were in the 70s. Only one 70+ degree day during the month is the average.

On August 10, 2020, a derecho passed through Iowa and Northern Illinois. The National Weather Service defines a derecho as, "a widespread, long-lived windstorm that is associated with a band of rapidly moving showers or thunderstorms." The derecho produced an EF-1 tornado that touched down in Spring Grove, IL. Its path was nearly 4 miles long and 150 yards wide. The tornado caused no deaths or injuries. Most of the damage from this tornado was done to trees, but most of the structural damage occurred in Lake County before it passed north over the state line. It was also reported that trees in Lakemoor lost limbs up to 20 feet long and 8-10 inches in diameter due to strong winds.

## Status of Action Items

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The Action Plan (Chapter 6) in the Lake County All-Natural Hazards Mitigation Plan contains 33 action items. These action items were taken from the hazard mitigation recommendations made in Chapter 3 through 5. The status of the implementation of the action items are summarized below.

### **ACTION ITEM 1: PLAN ADOPTION**

Adoption of the *Lake County All-Natural Hazards Mitigation Plan* by resolution. See Table 1 for a list of communities and adoption dates.

Status: This Action Item was completed.

### **ACTION ITEM 2: PARTICIPATION ON THE HAZARD MITIGATION PLANNING COMMITTEE AND PLAN MONITORING AND MAINTENANCE**

A Lake County Local Planning Committee (HMPC) meeting will be held at least once a year to evaluate and monitor progress on implementation of the ANHMP, and to organize for the next update of this ANHMP. An annual report should be submitted to the County Board by the HMPC as an information item.

Status: The HMPC met on July 29, 2021. This Action Item was completed.

### **ACTION ITEM 2: INCORPORATE ANHMP INTO OTHER COUNTY AND MUNICIPAL PLANS**

Lake County communities have a variety of plans and ordinances in place. Actions identified in this ANHMP should be incorporated into comprehensive, stormwater management, capital improvement, land-use, and emergency management plans, zoning ordinances, building codes, and post-disaster mitigation policies and procedures. Each jurisdiction participating in this ANHMP will be responsible for reviewing their plans, ordinances, and policies and, as appropriate, revising those documents.

Each community that has adopted this mitigation plan will take the following actions to facilitate the incorporation of mitigation actions into their plans and ordinances:

Within one year of the adoption of the ANHMP by the community, the lead individual for each community (emergency manager, public works director, engineer, or planner) will lead a local committee that will complete an evaluation of the Villages Plans, Codes and Ordinances to determine those that need to be modified to incorporate the action items of the ANHMP.

When the plans, codes or ordinances are updated or modified for any purpose, a recommendation will be made to make the modifications noted in number 1 above.

Next time the ANHMP is updated or modified, a review will be completed within one year of adoption to determine if any additional modifications must be made to local plans, codes, or ordinances.

Status: Ongoing

Deer Park implemented a two-phase Stormwater Master Plan in May and October 2017.

Fox Lake incorporated aspects of ANHMP in their Strategic Plan (2018) and their Parks Master Plan (2018-19). They expect to incorporate aspects of ANHMP in future plan updates, such as their comprehensive plan which will be updated in 2022-23.

Round Lake Beach and Lincolnshire incorporated aspects of ANHMP in their Natural Hazard Mitigation Plan updated in August 2020 and March 2020 respectively.

Several communities have updated with Emergency Operations Plans with aspects from ANHMP.

The Village of Wauconda completed an Inflow and Infiltration study to improve their sanitary sewer system.

Communities involved: the County of Lake, Deer Park, Grayslake, Gurnee, Hawthorn Woods, Libertyville, Lincolnshire, Riverwoods, Fox Lake, Lake Barrington, Round Lake, Round Lake Beach, Volo, Wauconda, Beach Park, Winthrop Harbor, Highland Park

### **ACTION ITEM 3: CONTINUED IMPLEMENTATION OF THE WDO AND NFIP REQUIREMENTS**

Lake County and municipalities, whether certified or non-certified, should continue to fully implement and enforce the Lake County Watershed Development Ordinance (WDO) for all applicable developments.

Status:

- Des Plaines River Watershed: 10 communities
- Fox River Watershed: 10 communities
- North Branch Watershed: 4 communities
- Lake Michigan Watershed: 4 communities
- County-wide: Yes

### **ACTION ITEM 4: IMPROVE NATURAL HAZARDS PUBLIC INFORMATION EFFORTS WITH FOCUS ON THE PROMOTION OF FLOOD INSURANCE AND HOW PEOPLE CAN PROTECT THEMSELVES AND THEIR PROPERTY**

Education regarding natural hazards that can impact Lake County should be provided to all Lake County property owners and residents. Public information efforts have been implemented, but these efforts should be improved to reach people more effectively and to provide effective messages regarding life, health and safety and property protection. Public information and education efforts should focus on severe summer and winter storms, floods and tornadoes and materials should be developed specifically for Lake County and tailored to Lake County needs.

Status: Many communities involved have information posted on their respective websites or send out information in newsletters. Less common alternatives include making posts on Facebook and Twitter.

- Des Plaines River Watershed: 9 communities
- Fox River Watershed: 9 communities
- North Branch Watershed: 4 communities
- Lake Michigan 6 communities
- County-wide: Yes

### **ACTION ITEM 5: IDENTIFY NEEDS AND OBTAIN ALTERNATE POWER SOURCES FOR CRITICAL FACILITIES AND SHELTERS**

The July 2011 storms in Lake County highlighted the need for alternate power sources at critical facilities. The HMPC recognizes that FEMA mitigation funds are not available for this action item but recognizes the importance of all agencies and facility and shelter owners determining back-up power source needs and obtaining equipment and/or service.

Status: The communities involved have backup generators at their critical facilities. Examples of critical facilities are townhalls, police stations, fire stations, etc. The Village of Beach Park has backup power at all their critical facilities and are working on getting school districts and shelters set up with backup power capabilities. The backup generator at the Village Hall of North Barrington is tested weekly. Port Barrington purchased two additional portable generators in the past year.

- Des Plaines River Watershed: Kildeer, Lincolnshire, Vernon Hills
- Fox River Watershed: Barrington, North Barrington, Port Barrington, Round Lake Beach, Wauconda
- North Branch Watershed: Bannockburn, Deerfield, Green Oaks, Highland Park
- Lake Michigan Watershed: Beach Park, North Chicago, Zion
- County-wide: No

### **ACTION ITEM 6: REVIEW OF CRITICAL FACILITIES AND IMPLEMENT OF APPROPRIATE MITIGATION MEASURES**

Critical facilities should be evaluated to determine their vulnerability to tornadoes, severe storms, and floods. The availability of safe rooms and sheltering should be reviewed. Critical facilities have been mapped in the County's GIS. As the County further examines building footprints and floodplains as part of the stormwater management program, the review of critical facilities should be included. 20 Lake County critical facilities are in the floodplain, and other critical facilities are vulnerable to wind and severe storms. Where necessary, critical facilities should be mitigated and protected from identified natural hazards.

Status: The Village of Deer Park floodproofed their Village Hall. North Chicago floodproofed their main power source to eliminate transformer shutdown from flood waters.

- Des Plaines River Watershed: Deer Park
- Fox River Watershed: None
- North Branch Watershed: Highland Park
- Lake Michigan Watershed: North Chicago
- County-wide: No

### **ACTION ITEM 7: IMPROVE CAPACITY OF DRAINAGE SYSTEMS AND/OR PROVIDE ADDITIONAL STORAGE OF FLOOD WATERS**

When opportunities arise and when downstream areas are not adversely impacted (or mitigated), communities should strive to increase the capacity of drainage systems. Drainage improvements may include opening restrictive culverts or bridges, storm sewer improvements, etc. When appropriate and when opportunities are identified, the systems should be augmented with additional detention or retention to reduce runoff rates and runoff volumes.

Status: The Village of Barrington completed a Flint Creek restoration project which included streambank and online detention regrading which provides additional volume and flow capacity. The Village of Deerfield reconstructed a road in town and included storm sewers in the project to increase capacity. The Village of Green Oaks completed construction a project to reduce the frequency and magnitude of chronic nuisance flooding in two residential areas. Part of a subdivision in Lake Barrington had a drainage pipe replacement. The Village of Lincolnshire completed a village-wide drainage study and installed a 6" emergency standpipe connection to allow for quick hookup of flood relief pumps during an emergency.

- Des Plaines River Watershed: Deer Park, Hawthorn Woods, Lincolnshire, Third Lake
- Fox River Watershed: Barrington, Lake Barrington, Lake Zurich
- North Branch Watershed: Deerfield, Green Oaks, Highland Park
- Lake Michigan Watershed: Zion
- County-wide: Yes

#### **ACTION ITEM 8: IMPLEMENT MAINTENANCE PROGRAMS FOR DRAINAGE SYSTEMS, INCLUDING STREAMBANK AND RAVINE STABILIZATION EFFORTS**

The County, municipalities, and townships should develop and implement formal and regular drainage system maintenance programs. This effort should include the inspection of privately maintained drainage facilities. It is understood that each municipality and township will make these considerations based on available staffing and financial resources. Both urban and rural streams need maintenance. Also, bridges and culverts (active or abandoned) that restrict flood flows should be evaluated. The removal or enlargement of stream crossings, in cases where a modification will not cause an increase in downstream flooding, should be considered, and funded. Streambank and ravine or shoreline stabilization efforts should also be evaluated and implemented. Public information should be provided to property owners on how best to protect streambanks and shorelines.

Status: The communities involved have written plans and procedures in place to maintain and monitor drainage systems. Many communities conduct additional procedures following major storm events.

- Des Plaines River Watershed: 7 communities
- Fox River Watershed: 5 communities
- North Branch Watershed: 3 communities
- Lake Michigan Watershed: 1 community
- County-wide: No

#### **ACTION ITEM 9: IMPLEMENT PROPERTY PROTECTION PROJECTS FOR FLOOD MITIGATION**

Properties that are exposed to flood damage, severe storms, and severe erosion throughout Lake County should be protected through property protection measures where regional structural projects are not feasible. Property protection measures should include, but not be limited to, acquisition, elevation, floodproofing, or retrofitting. Priority should be given to repetitive loss properties and homes subject to the impacts of severe erosion, however, all flood prone properties (floodplain, depressional storage or SMC problem areas) including critical facilities should be included.

Status: In the City of Highland Park, 6 homes are participating in the voluntary buyout program since 2017 and the City is working with SMC to complete the projects. The Village of Libertyville incorporated recommendations from their Master Stormwater Management Plan into the design for upcoming construction projects, including the Rockland Road Corridor Flood Reduction Project and drainage improvements in the Highlands Subdivision study area. The Village of Lindenhurst built a stormwater depressional storage area at Lindenhurst Drive (near Sand Lake) to protect homes in the area. Des Plaines River Watershed: 3 (Deer Park, Libertyville, Lindenhurst)

- Fox River Watershed: Lake Barrington, Port Barrington
- North Branch Watershed: Highland Park
- Lake Michigan Watershed: North Chicago
- County-wide: No

**ACTION ITEM 10: REDUCE INFLOW AND INFILTRATION TO PROTECT AGAINST SEWER BACKUPS**

Municipalities should evaluate options and implement programs to reduce the inflow and infiltration of stormwater into the sanitary sewer system to reduce the wastewater treatment plant flow during severe storm and flood events. Efforts can be undertaken on a regional basis.

Status: The Village of Green Oaks completed Contract 1 of the TIF District Sanitary Sewer Rehabilitation Project. The City of Highland Park lines several miles of sanitary system to reduce inflow/infiltration and maintains the structural and functional capacity of the sanitary sewer. The City also offers a Voluntary Sewer Lateral Cost share program that provides up to \$1,260 in funding assistance to qualified residents per each location for flood protection measures such as installation of overhead sewers, lining lateral services or complete lateral replacements.

- Des Plaines River Watershed: Hawthorn Woods
- Fox River Watershed: Lake Zurich
- North Branch Watershed: Deerfield, Green Oaks, Highland Park
- Lake Michigan Watershed: None
- County-wide: No

**ACTION ITEM 11: IDENTIFY WIND MITIGATION OPPORTUNITIES FOR THE PROTECTION OF BUILDINGS, AND TO PROVIDE SAFE ROOMS AND SHELTERING**

Wind mitigation, and safe rooms and sheltering, needs can arise through planning efforts, building design efforts, and retrofitting opportunities. When needs, safety, and sheltering deficiencies are identified, alternatives for providing mitigation should be developed and funding sought.

Status: No new progress this year. Communities involved with this action item report upkeep of existing safe rooms and/or further investigation for new ones.

**ACTION ITEM 12: CONTINUE PARTICIPATION OR CONSIDER PARTICIPATION IN TREE CITY USA (URBAN FORESTRY)**

Lake County municipalities that are Tree City USA communities will maintain their status in the nationwide program, and communities that are not in the program will consider joining the program. It is understood that each municipality will make these considerations based on available staffing and financial resources.

Status: The communities involved are Tree City USA communities. Eighteen of those who responded this year reported continued participation in Tree City USA.

- Des Plaines River Watershed: 7 communities
- Fox River Watershed: 6 communities
- North Branch Watershed: 3 communities
- Lake Michigan Watershed: 2 communities
- County-wide: No

#### **ACTION ITEM 13: CONTINUE WORK FOR NIMS COMPLIANCE**

The county and all municipalities should ensure that they are NIMS compliant. Training opportunities for all first responders and other identified personnel on NIMS and ICS should be shared with all agencies.

Status: The communities involved are NIMS compliant.

- Des Plaines River Watershed: 7 communities
- Fox River Watershed: 5 communities
- North Branch Watershed: 2 communities
- Lake Michigan Watershed: 3 communities
- County-wide: No

#### **ACTION ITEM 14: IMPROVE BUILDING CODES AND BUILDING CODE ENFORCEMENT**

Communities that have not adopted the International Code series of building codes should do so, and for all communities, future code revisions should be pursued to strengthen new buildings against damage by high winds, tornadoes, hail, earthquakes, and flooding. The Building Code Effectiveness Grading Schedule (BCEGS) program is designed to evaluate the code adoption and enforcement efforts of a community, with emphasis on natural hazard mitigation. The County and most municipalities participate in BCEGS, and communities should strive to improve their rating to a 4/4, if not already attained. Requiring tornado “safe rooms” in certain structures should be considered. The floodplain provisions (design flood elevation) should also be considered in conjunction with the Lake County WDO.

Training should be developed and conducted for building department staff on building code administration, enforcement, the natural hazards aspects of the International Codes, regulation of mobile home installation, flood provisions, and any other provisions applicable to hazard mitigation.

Status: The Village of Bannockburn adopted the 2018 International Building Code in 2019. The Village of Gurnee accepted in the 2018 International Code Council. The City of Highland Park updated to the 2018 International Building Code. Lake Barrington updated to the 2018 ICC Building Codes in February 2020. Their BCEGS ratings are 4 (out of 10 where 1 is the highest) for one- and two-family residential property as well as commercial and industrial properties. The Village of Round Lake Beach accepted the 2018 ICC.

- Des Plaines River Watershed: Gurnee
- Fox River Watershed: Lake Barrington, Round Lake Beach
- North Branch Watershed: Bannockburn

- Lake Michigan Watershed: None
- County-wide: No

**ACTION ITEM 15: SEEK MITIGATION GRANT FUNDING FOR ADDITIONAL MITIGATION PLANNING AND COST BENEFICIAL PROJECTS**

The County, municipalities, other agencies, and institutions should apply for mitigation grant funding through available IEMA and FEMA programs for mitigation planning and mitigation projects. As required by IEMA and FEMA programs, projects must be cost beneficial. FEMA hazard mitigation funding including PDM, HMGP, FMA and Section 406 of the Stafford Act (for facilities and infrastructure damaged due to a presidentially declared disaster) should be considered.

Status: The Village of Beach Park is working with SMC’s buyout program to demolish two homes that were in the process of sliding in the creek behind them. The Village of Gurnee also participates in the buyout program and has had three awaiting demolitions. In the City of Highland Park, 5 homes were demolished in the past year.

- Des Plaines River Watershed: Gurnee
- Fox River Watershed: None
- North Branch Watershed: Highland Park
- Lake Michigan Watershed: Beach Park
- County-wide: Yes

**ACTION ITEM 16: CONTINUE PARTICIPATION OR CONSIDER PARTICIPATION IN STORMREADY**

Lake County municipalities that are National Weather Service StormReady communities will maintain their status in the nationwide program, and Lake County communities, other agencies, and colleges should consider joining the StormReady program. The StormReady program has been developed to provide communities guidelines to improve the timeliness and effectiveness of hazardous weather-related warnings for the public.

Status: The communities involved are StormReady communities.

Communities involved: Gurnee, Libertyville

**ACTION ITEM 17: IMPROVE EMERGENCY RESPONSE AND DEVELOP ASSESSMENT TEAMS**

Lake County and the municipalities should work to improve emergency response and to develop assessment teams for emergency management response, health department concerns and needs and for post-disaster mitigation.

If a community waits until a disaster occurs to plan post-disaster mitigation policies and procedures, they are too late. The time to prepare is before the disaster occurs. Preparation includes assigning post disaster tasks to:

- Determine the extent of the damages, including whether the structures are substantially damaged as defined in the WDO
- Determine the health and safety needs

- Ensure that the public is aware of actions that they should be taking, and that the community is taking to mitigate damages, as well as encouraging property owners and renters to work with their insurance agents to help cover their losses
- Ensuring that residents have the proper permits before repairing structures and ensuring that the repair is completed according to code
- Determine what mitigation actions are appropriate given the extent of damages
- Determine whether any temporary permit and construction moratoriums need to be put in place after the disaster

Response teams should be developed through the LCEMA and other county agencies and the HMPC. Individuals that may be needed for post disaster activities should be trained, should be aware of their potential assignments and should prepare documents that they may need to use after the disaster occurs.

Status: The communities involved have updated their Emergency Operations Plan.

Communities involved: The County of Lake, Beach Park, Grayslake, Gurnee, Highland Park, Riverwoods, Round Lake, Winthrop Harbor

#### **ACTION ITEM 18: ENHANCE RESPONSE AND RECOVERY INFORMATION SHARING AND COLLABORATION AND IDENTIFY ADDITIONAL TRAINING OPPORTUNITIES**

Improve information sharing between Lake County, municipal/township agencies and services providers, such as ComEd, during and after natural hazard events. Systems should be put in place to help ensure that response and recovery efforts are coordinating. Additional training opportunities should be identified, including annual exercises and tabletop exercises.

Status: Most of the communities involved updated plans and had city officials complete various training exercises. The Village of Barrington used a tabletop exercise to update their Emergency Operations Plan.

Communities involved: Barrington, Grayslake, Highland Park, Kildeer, Lincolnshire, Round Lake

#### **ACTION ITEM 19: CONTINUE PARTICIPATION OR CONSIDER PARTICIPATION IN THE NFIP'S COMMUNITY RATING SYSTEM**

Municipalities that participate in the NFIP should consider participating in the Community Rating System (CRS). Lake County and communities already participate in CRS, and they should also continue their participation.

Status: The communities involved maintain their CRS rating. The Village of Port Barrington became a CRS level 7 community.

#### **ACTION ITEM 20: CONTINUE TO MAP NATURAL HAZARD IMPACTS AND CONTINUE VULNERABILITY ASSESSMENTS**

Lake County should continue to identify the number and type of existing structures, infrastructure, and critical facilities at risk to natural hazards and to map available data and

information. Also, the potential dollar losses from vulnerable hazards should be assessed and used to evaluate potential hazard mitigation projects.

Status: The Village of Round Lake initiated a vulnerability assessment of its public water supply system.

### **ACTION ITEM 21: CONTINUE WITH IDENTIFICATION AND IMPLEMENTATION OF SMC FLOOD MITIGATION PROJECTS**

Based on the findings in Chapter 3 of this ANHMP, it is important for the Lake County SMC to continue with their watershed management efforts for flood mitigation in unincorporated Lake County and within the Lake County municipalities. The SMC should continue making use of their annual funding and available FEMA grant funding to provide flood mitigation. Based on the number of SMC flood problem areas identified, the SMC recognized the Des Plaines River and the Fox River watersheds as priority areas.

#### 1. Priority actions for the **Des Plaines River Watershed** in the next five years include:

- Floodplain buyout program  
Status: Ongoing. Homes in Gurnee and Newport Township are awaiting buyout and demolition.
- Floodplain remapping/studies for Newport Creek, Indian Creek, Bull Creek and Mill Creek  
Status: Ongoing.
- Watershed planning/coordination for Des Plaines River - Phase II, North Mill Creek, Newport Creek, Bull Creek, and Indian Creek  
Status: Ongoing.

Involved communities: Antioch, Beach Park, Buffalo Grove, Green Oaks, Grayslake, Gurnee, Hainesville, Hawthorn Woods, Indian Creek, Kildeer, Lake Forest, Lake Zurich, Libertyville, Lincolnshire, Lindenhurst, Long Grove, Mettawa, Mundelein, Old Mill Creek, Park City, Riverwoods, Round Lake Beach, Round Lake Park, Third Lake, Vernon Hills, Wadsworth, Wheeling, Zion

#### 2. Priority actions for the **Fox River Watershed** in the next five years include:

- Floodplain buyout program  
Status: Ongoing. Homes in Fox Lake and Grant Township are awaiting buyout and demolition.
- Floodplain remapping/studies for Fish Lake Drain, Sequoit Creek, Squaw Creek, and Round Lake Drain/Eagle Creek/Long Lake  
Status: Ongoing.
- Watershed planning/coordination for Fish Lake Drain and Squaw Creek watersheds.  
Status: Ongoing.

Involved communities: Antioch, Barrington, Barrington Hills, Deer Park, Fox Lake, Fox River Grove, Grayslake, Hainesville, Hawthorn Woods, Island Lake, Lake Barrington, Lake Villa, Lake Zurich, Lakemoor, Lindenhurst, Mundelein, North Barrington, Port Barrington, Round Lake, Round Lake Beach, Round Lake Heights, Round Lake Park, Tower Lakes, Wauconda, Volo

3. Priority actions for the **North Branch of the Chicago River Watershed** in the next five years include:

- Increase flood storage capacity and detention  
Status: Ongoing.
- Floodplain buyout program  
Status: Homes in Highland Park are awaiting buyout and demolition.
- Watershed planning/coordination for Skokie River  
Status: Ongoing.
- Flood response/damage assessments  
Status: Ongoing.

Involved communities: Bannockburn, Deerfield, Green Oaks, Gurnee, Highland Park, Highwood, Lake Bluff, Lake Forest, Lincolnshire, Mettawa, Park City, North Chicago, Riverwoods, Waukegan

4. Priority actions for the **Lake Michigan Watershed** in the next five years include:

- Floodplain buyout program  
Status: Ongoing. Two homes in Beach Park were acquired and demolished.
- Floodplain remapping/studies for Kellogg Creek  
Status: Ongoing.
- Watershed planning/coordination for Dead Creek and Kellogg Creek  
Status: Ongoing.
- Flood response/damage assessments  
Status: Ongoing.

Involved communities: Beach Park, Highland Park, Highwood, Lake Forest, Lake Bluff, North Chicago, Wadsworth, Waukegan, Winthrop Harbor, Zion

5. Ongoing and anticipated efforts of the SMC in the next five years for **all four major watersheds** include:

- Flood response/damage assessments  
Status: Ongoing.
- Local drainage project cost-share program  
Status: Continue WMB & SIRF programs. The STOCIP program was introduced by Lake County SMC to fund and enhance local drainage projects.
- Rain gauge program  
Status: Ongoing.
- GIS mapping and countywide base flood elevation layer, LOMA/LOMRs  
Status: Ongoing.
- Implementation of Watershed Development Ordinance (WDO)  
Status: The WDO continues to be administered county-wide.

#### **ACTION ITEM 22: DEVELOP FLOOD STAGE MAPS**

Flood stage maps should be developed to show varying depths of flooding and the respective area of inundation for floodplain areas within Lake County's major watersheds. The maps should be developed by watershed based on available hydrologic and hydraulic models. Flood stage maps can be used by all agencies to determine early protection actions.

Status: The communities involved developed flood stage maps as part of other studies and updates of plans. For example, flood inundation maps were made in the Village of Deerfield as part of their Stormwater Master Plan.

Communities involved: Deerfield, Lincolnshire

#### **ACTION ITEM 23: DEVELOP OR ENHANCE THE COMMUNITY'S SNOW REMOVAL PLAN**

Severe winter storms are a priority hazard for Lake County. People and businesses are impacted by heavy snow and blizzard conditions. Impassable roads are a problem for emergency services. Products and techniques for clearing roads or dealing with icy conditions are changing and newer approaches help protect the environment.

Status: The communities involved have snow removal plans that are updated annually.

Communities involved: Antioch (township), Barrington, Green Oaks, Gurnee, Hawthorn Woods, Highland Park, Lake Zurich, Lincolnshire, North Barrington, North Chicago, Port Barrington, Round Lake Beach, Vernon Hills, Wauconda, Zion

#### **ACTION ITEM 24: UTILITY TREE TRIMMING**

Trees and branches on power lines is a common hazard. Down power lines can impact significant areas. More attention and better scheduling (rotation) of tree trimming would benefit communities and unincorporated Lake County.

Status: Ongoing

#### **ACTION ITEM 25: SUMP PUMP DISCONNECTS**

Sump pumps, when operating properly can keep basements dry from rainwater that collects around foundations. In areas of the county, sump pumps discharge directly into the underground sewer system. The discharge contributes to the amount of sanitary sewage that needs to be treated at wastewater treatment plants or contributes to the total runoff that storm sewers need to carry. This action item calls for the disconnection of sump pump discharge from the sewer system(s), and for the discharge to be above ground. This could be to lawns or French drains. Communities should consider changes in regulations to accomplish the disconnects; other communities could consider rebate or other incentive programs.

Status: The Village of Deerfield offers 20% rebate to homeowners that disconnect their storm discharges from the sanitary main. The City of Highland Park offers a discounted rate on the stormwater management fee to residents that do not discharge into the city storm sewer.

Communities involved: Deerfield, Highland Park

**ACTION ITEM 26: CONDUCT LOCAL DRAINAGE STUDIES**

Urban flooding and local drainage issues should be investigated by communities and by the SMC to determine alternatives to reduce the impact of flooding to buildings and infrastructure.

Status: The Village of Hawthorn Woods performed a village-wide analysis of drainage problems in 2016 and it was updated in 2018. The City of Highland Park installed backflow preventers in two of the most flood-prone areas in the City. The Village of Lincolnshire completed a village-wide drainage study to identify projects needed to reduce flooding. Park City has a project with SMC regarding drainage issues and the Dady Slough. The City of Zion completed two studies for improvements to the 26<sup>th</sup> Street detention and to upgrade the 20<sup>th</sup> Street storm system.

Communities involved: The County of Lake, Hawthorn Woods, Highland Park, Lincolnshire, Park City, Zion

**ACTION ITEM 27: INCREASE STORMWATER DETENTION CAPACITY**

Where opportunities are identified, additional stormwater detention capacity should be created. This may include the expansion of storage capacity at existing sites or new sites. While the Lake County WDO required storage of runoff due to developed, a large remedial effort is needed to detain and retain stormwater from older development.

Status: The Army Corps of Engineers conducted a study in the City of Highland Park to identify additional localized storage basins.

Communities involved: The County of Lake, Barrington, Highland Park, Lake Zurich, Round Lake Beach

**ACTION ITEM 28: INVESTIGATE COUNTYWIDE WARNING SYSTEM**

Warning dissemination for natural hazard events is key to protecting life and safety. Some areas of the County have some warning systems in-place. Additional warning systems should be investigated that would be effective for various seasons and various patterns of populated locations (e.g., daytime or nighttime). The investigation should examine alternatives, costs, potential phasing, and so forth.

Status: The Village of Grayslake rehabilitated their siren network and added a sixth siren in the south area of the Village.

Communities involved: Antioch (township), Grayslake, Highland Park, North Chicago, Port Barrington, Round Lake Beach, Wauconda

**ACTION ITEM 29: INVESTIGATE FUTURE CONDITIONS AND THE IMPACT ON DEPTH AND FREQUENCY OF FLOODING**

Future conditions can include new development, redevelopment or changing weather and weather patterns, and should be investigated with recent studies or updates to existing studies to determine potential increases in flood characteristics (depth and extent) and in frequency.

Status: Ongoing

**ACTION ITEM 30: LINCOLNSHIRE CREEK IMPROVEMENTS**

Lincolnshire Creek in Lincolnshire should be studied to identify alternatives to reduce flood losses.

Status: The Village of Lincolnshire completed the Lincolnshire Creek Streambank Stabilization project in the Spring of 2019.

**ACTION ITEM 31: MITIGATE SEPTIC DISCHARGE; LEACHING INTO WATERWAYS**

Maintenance of septic systems is important for the protection of water quality for both surface water and groundwater. Preventing ground water pollution from failing septic systems should be a priority of every community and every homeowner. Contamination of the ground water source can lead to pollution of local wells, lakes, streams, and ponds – exposing family, friends and neighbors to waterborne diseases and other health risks. When a septic system fails, inadequately treated domestic waste can reach the ground water. Bacteria and viruses from human waste can cause dysentery, hepatitis, and typhoid fever. Serious outbreaks of these diseases have been caused by contaminated drinking water. Nitrates and phosphates, also found in domestic wastewater, can cause excessive algae growth in lakes and streams called algal blooms. These blooms cause aesthetic problems and impair other aquatic life. Nitrate is also the cause of methemoglobinemia, or blue baby syndrome, a condition that prevents the normal uptake of oxygen in the blood of young babies.

Status: Lake Barrington routinely posts information regarding groundwater quality on their website and social media. Port Barrington also posts information on their website and in newsletters. They also uphold illicit discharge and water protection area ordinances.

Communities involved: Lake Barrington, Port Barrington, Round Lake Beach

**ACTION ITEM 32: IMPLEMENT THE FEDERAL FLOOD RISK MANAGEMENT STANDARD (FFRMS)**

Executive Order 13690 calls for a flood protection standard for projects implemented with federal funds. New construction and substantial improvements implemented through private developers or property owners must meet the flood standard within the Lake County WDO, which is the base flood elevation plus 2 feet of freeboard. If a federal agency sets a standard because of the FFRMS, that exceeds the WDO standard, then communities must meet the higher standard when federal dollars are included in a community project.

Status: Ongoing

**ACTION ITEM 34: DES PLAINES RIVER NEIGHBORHOOD FLOOD PROTECTION PROJECT**

The Village of Lincolnshire is working to reduce flood losses and impacts to residents in neighborhoods at risk of flooding from the Des Plaines River.

Status: The Village of Lincolnshire deployed pumps numerous times to protect community members and their homes along Lincolnshire Drive from Des Plaines River flooding.

Communities involved: Lincolnshire

**Table 1: Community Adoption of All-Natural Hazard Mitigation Plan**

<b>Community Name</b>	<b>Date of Adoption Resolution</b>	<b>Community Name</b>	<b>Date of Adoption Resolution</b>
Village of Antioch	10/13/2017	Village of Libertyville	10/10/2017
Village of Bannockburn	9/25/2017	Village of Lincolnshire	10/9/2017
Village of Barrington	10/9/2017	Village of Lindenhurst	9/25/2017
Village of Barrington Hills	10/23/2017	Village of Long Grove	9/26/2017
Village of Beach Park	10/30/2017	Village of Mettawa	10/17/2017
Village of Buffalo Grove	9/26/2017	Village of Mundelein	9/25/2017
Village of Deer Park	9/21/2017	Village of North Barrington	2/28/2018
Village of Deerfield	10/2/2017	City of North Chicago	10/16/2017
Village of Fox Lake	9/27/2017	Village of Old Mill Creek	10/10/2017
Village of Fox River Grove	McHenry Co.	City of Park City	9/21/2017
Village of Grayslake	12/5/2017	Village of Port Barrington	9/20/2017
Village of Green Oaks	9/27/2017	Village of Riverwoods	9/19/2017
Village of Gurnee	10/9/2017	Village of Round Lake	10/2/2017
Village of Hainseville	9/26/2017	Village of Round Lake Beach	10/23/2017
Village of Hawthorn Woods	10/23/2017	Village of Round Lake Heights	10/10/2017
City of Highland Park	10/9/2017	Village of Round Lake Park	10/3/2017
City of Highwood	10/10/2017	Village of Third Lake	9/18/2017
Village of Indian Creek	10/10/2017	Village of Tower Lakes	9/18/2017
Village of Island Lake	2/8/2018	Village of Vernon Hills	10/3/2017
Village of Kildeer	9/19/2017	Village of Volo	10/3/2017
Village of Lake Barrington	10/10/2017	Village of Wadsworth	10/3/2017
Village of Lake Bluff	9/25/2017	Village of Wauconda	9/18/2017
City of Lake Forest	10/2/2017	City of Waukegan	2/22/2018
Village of Lake Villa	9/27/2017	Village of Winthrop Harbor	11/7/2017
Village of Lake Zurich	10/6/2017	City of Zion	9/19/2017
Village of Lakemoor	9/20/2017	Lake County	10/10/2017



**LAKE COUNTY ALL-NATURAL HAZARDS MITIGATION PLAN  
ANNUAL MEETING**  
Thursday, July 29, 2021  
1:00 – 2:30 p.m.  
VIA Zoom

- **Welcome, Introductions** – Sharon Østerby, SMC
- **ANHMP Update for 2022** – Sharon Østerby, SMC
- **Natural Hazard Mitigation Activities** - Sharon Østerby, SMC
  - SMC Floodplain Buyout Program
    - Grant Project Update & Future Funding Opportunities
  - Other Mitigation Efforts (community/watershed-wide initiatives, special projects)
    - 2020 WMB & SIRF Project
    - Other Special Projects (Kurt Woolford)
- **Natural Hazards and Emergency Management Activities 2020 (LCEMA)**
  - LCEMA Review of 2020 Flood Impacts and Improvements (Dan Eder & Paul Mazzino)
- **Review of the Yearly Report Requirements, Action Plan Items** – Sharon Østerby, SMC
  - 2020 Annual Reporting and Community Questionnaires
- **Roundtable of Local Mitigation Activities, Natural Hazard Incidents, Challenges, Lessons Learned**
- **Adjourn**

## Additional Flood Information & Village Services

### Flood Hazard Areas

Special Flood Hazard Areas (100-year floodplain) in the Village of Deerfield are located near the Middle Fork and West Fork of the North Branch of the Chicago River. The eastern portion of Deerfield is in the Middle Fork floodplain, while the western part of town is in the West Fork floodplain. For a detailed map visit the Village of Deerfield website [www.deerfield.il.us](http://www.deerfield.il.us) under maps and information.

Guidance on whether your property is in the 100-year floodplain can be obtained by visiting the Engineering Department and having a staff member help you. However, staff cannot make an official determination but can advise residents on the process with FEMA. Maps are available to look at as well as other flood-related information. Contact the Engineering Department at 847-317-2490 for further assistance.

### Flood Safety

The following common sense guidelines can help protect you from the dangers of flooding:

- Do not drive through a flooded area. More people drown in cars than anywhere else.
- Do not drive around barriers.
- Do not walk through flowing water. Currents can be deceptive. Six inches of water can knock you off your feet.

### Village of Deerfield Flood Recommendations

- Stay away from power lines and electrical wires. If your house is about to be flooded, turn off the power at the service box. Electrical current can travel through water. Electrocution is the 2nd leading cause of death during floods.
- Be alert to gas leaks. Turn off the gas to your house before it floods. If you smell gas, report it to a Village official or your gas company. Do not use candles, lanterns or open flames if you smell gas or are unsure if your gas has been shut off.
- Keep children away from the flood waters, ditches, culverts and storm drains. Flood waters can carry unimaginable items that have dislodged themselves. Culverts may suck smaller people into them rendering them helpless.
- Clean everything that has been wet. Flood water will be contaminated with sewage and other chemicals which pose severe health threats.
- Look out for animals, especially snakes. Small animals that have been flooded out of their home may seek shelter in yours.

- Do not use gas engines, such as generators, or charcoal fires indoors during power outages. Carbon monoxide exhaust can pose serious health hazards.

## Property Protection Measures

If your property is susceptible to flooding, there are many flood damage reduction measures you can employ:

- Watertight seals can be applied to brick and block walls to protect against low-level flooding.
- Utilities such as heating and air conditioning systems, water heaters and other major appliances can be elevated to higher floors in the structure or on raised platforms.
- Temporary measures such as moving furniture and other valuables to higher floors or sandbagging exterior openings will also help.
- Elevating or relocating the entire structure may also be a feasible option.

## Historical Flooding & Natural Floodplain Functions

In addition to floodplain mapping assistance the Village of Deerfield Engineering Department provides the following services:

- Historical flooding information.
- Natural flood plain function information.
- Information on soil types when available.
- Flood protection assistance recommendations.

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available to look at as well as other flood-related information. With questions please contact the Engineering Department at 847-317-2490.

## Additional Information

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov website](https://www.fema.gov)
- Physical Address of Village of Deerfield Engineering Department  
465 Elm Street  
Deerfield, IL 60015
- Engineering Phone Number: 847-317-2490

- [Flood FAQs](#)
- [Deerfield Public Library](#)
- [Lake County Flood Information, Programs and All Natural Hazards Mitigation Plan \(ANHMP\)](#)
- [Deerfield 2020 Annual Progress Report](#)

## Quick Links

- [FEMA Map Service](#)
- [The National Flood Insurance Program \(on FEMA\)](#)
- [Protect Your House from Flooding](#)
- [Homowner's Guide to Retrofitting](#)
- [Guide to Flood Protection in NE Illinois](#)
- [Elevation Certification Website](#)

[View All](#)

## Brochures & Map

- [2014 Deerfield Flood Brochure \(PDF\)](#)
- [Contractor Combined September 5 2008 \(PDF\)](#)
- [FEMA Update \(PDF\)](#)

# Storm System Maintenance

## Public Works - Post July 23, 2022 Storm (3"+)

Location	Date Inspected	Work Done
<b>River</b>		
Middle Fork	7/23/2022	Visual Monitoring
West Fork	7/23/2022	Visual Monitoring
<b>Reservoir</b>		
Reservoir 27	7/23/2022	Maintenance as needed
Reservoir 29A	7/23/2022	Spring and Fall inspections with MWRD & maintenance as needed
<b>Bridges</b>		
Carlisle/Carriage Way Bridge	7/23/2022	Debris Rem on 4/27, 5/3, 7/27, & 10/5/22
Pfingsten Rd Bridge	None	None
Lake Cook Rd Bridge	None	None
Ped Walk at Hackberry	None	None
Central Ave Bridge	None	None
Deerfield Rd Bridge - WF	7/23/2022	None
Juniper Ct Bridge	None	None
Hazel Ave Bridge	None	None
Wilmot Rd Bridge	None	None
<b>Open Ditch</b>		
Somerset from Prairie to Cherry	None	None
Broadmoor from Hazel to Greenwood	None	None
Cherry from Hazel to Greenwood	None	None
Woodvale Ditchline	7/23/2022	Visual inspections and Vegetation maintenance

Carriage Way Bridge Cleared – 5/2/2022

Before photo (no after photo provided but was cleared on 5/2/22)



# VILLAGE OF DEERFIELD

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Deerfield, Illinois 60015  
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Visit us online at  
[www.deerfield.il.us](http://www.deerfield.il.us)

# D-TALES

Your Municipal News Source

## VILLAGE BOARD APPROVES CARBON ACTION REPORT TO REDUCE GREENHOUSE GASSES

On June 6, the Village Board approved a Climate Action Report from the Greenhouse Gas Reduction Ad Hoc Working Group to reduce emissions by 45% by 2030 and become carbon neutral by 2050.

The creation of the working group stemmed from a February 18, 2020, Village Board proclamation urging local governments and municipalities to lead the global effort to fight climate change.

The Climate Action Report is the output of several months of analysis by the Working Group and is intended to serve as a guiding document that can inform implementation efforts and future climate/adaptation/resiliency plans for longer-term implementation. The report establishes a greenhouse gas emissions baseline and sets high-level objectives to obtain the Village Board's established greenhouse gas mitigation goals.

The Village Board adopted three specific objectives recommended by the Working Group:

- Convert 100% of electricity to renewable sources by 2030
- Reduce transportation emissions by 55% by 2030
- Reduce waste emissions by 66% by 2030

Implementing strategies and tactics that achieve the three objectives noted above will result in a 45% reduction of GHG emissions by 2030, as compared to the 2017 baseline year. The report organizes the proposed GHG mitigation efforts into four focus areas – energy, transportation, waste and ecosystem/food/goods and services. Along with the discussion of each focus area is an identification of the general resources

*Climate Report Continued on Page 2:*

## DEERFIELD FAMILY DAYS BACK FOR ANOTHER BLAST

Deerfield Family Days will kick off another two days of fun July 3rd and 4th. Join family and friends for a holiday filled with fun and entertainment!

The spectacular fireworks show will be held Sunday, July 3rd, at Brickyards Park with live entertainment and kids' activities. The gates will open at 5 p.m. and food and drink concessions will be available for purchase.

On Monday, July 4th, head on over to the festivities at Jewett Park including breakfast in the park, dog show, the flower show and a variety of games. The parade starts at noon on Monday and will travel from Deerspring Pool, west to Waukegan Road, north to Hazel and end at Jewett Park.

This year's Parade Marshals are Mayor Emeritus Harriet Rosenthal and the League of Women Voters of Deerfield/Lincolnshire. Rosenthal served 12 years as Mayor and 24 years as a Village Trustee. The League of Women Voters was founded in Chicago on February 14, 1920. Since then, the League has worked to register voters, sponsor candidate forums, provide non-partisan election materials about candidates, and study issues on the local, state and national levels in order to create a better-informed electorate.

*See the full schedule on Page 10 or visit [www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)*

## MEETING SCHEDULE

Meeting times/dates subject to change  
For a complete list of meetings, please visit [www.deerfield.il.us](http://www.deerfield.il.us)

### July

#### Board of Trustees

July 5 & 18, 7:30 p.m.

#### Community Relations Commission

July 12, 6:30 p.m.

#### Plan Commission

July 14 & 28, 7:30 p.m.

#### Sustainability Commission

July 21, 7:00 p.m.

#### Appearance Review Commission

July 25, 7:30 p.m.

### August

#### Board of Trustees

August 1 & 15, 7:30 p.m.

#### Plan Commission

August 11 & 25, 7:30 p.m.

#### Appearance Review Commission

August 22, 7:30 p.m.

Have a happy and safe Fourth of July!

## CHECK IT OUT!

### Page 2:

- Property Taxes Explained

### Page 3:

- Fireworks Safety

### Page 5:

- Water Quality Report





Climate Report Continued from Page 1:



that are needed to accompany the various strategies. You can read the full report at [www.deerfield.il.us](http://www.deerfield.il.us).

Residents can take actions now to help the Village reach these goals. For the energy goals, this includes switching to renewable energy sources, such as reducing energy usage, participating in the Community Solar Program at [www.northshorecommunitysolar.com](http://www.northshorecommunitysolar.com) and upgrading to energy efficient appliances. To reduce transportation emissions, residents can walk, bike or take public transportation, consider purchasing an electric vehicle and reduce vehicle idling. For the waste reduction goals, residents can improve their recycling literacy and make use of the Village's no-cost compost program at [deerfield.il.us/785/Compost-Program](http://deerfield.il.us/785/Compost-Program).

“Municipalities have an unparalleled opportunity to make changes that can transform local economies and positively impact peoples’ lives both locally, and even globally,” said Mayor Daniel C. Shapiro. “It is time for us to roll up our sleeves and get to work to preserve a future we can all be proud to pass along to our children and grandchildren.”

Members of the Greenhouse Gas Reduction Ad Hoc Working Group include Trustee Mary Oppenheim (Chairperson), Trustee Elaine Jacoby, Sustainability Commission Chairperson Donald Anderson, Sustainability Commissioner William Mertes, Go Green Deerfield Chairperson Art Wilde, Go Green Deerfield Member Camilla Dadey, and Business Community Representative Victoria Street, Executive Director of the DBR Chamber of Commerce.

The Mayor and Village Board thank all of the members of the Working Group for their efforts. 

## YOUR PROPERTY TAX BILL EXPLAINED

Property taxes are used by multiple units of local government for revenue. Every person and business in Illinois is affected by property taxes — whether by paying the tax or receiving services or benefits that are paid for by property taxes.

Anyone who attends public school, drives on roads or streets, uses the local library, has police protection or has fire protection receives services provided in part by property taxes.

The Village of Deerfield is one of more than 10 units of local government that comprise the typical resident’s overall property tax bill including the county, fire protection district, township, park district, school districts and others. **For property taxes due in 2022, the Village accounted for approximately 6.56% of the overall property tax bill.**

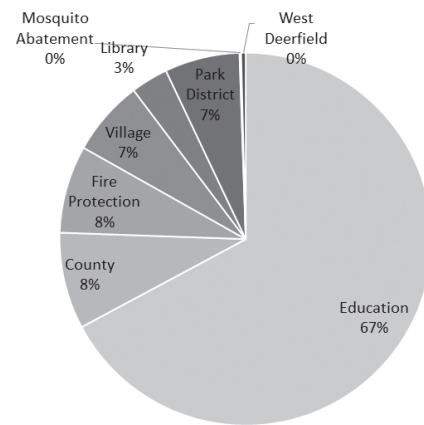
As separate, independent units of government, the Village has no control over the other components of a resident’s property tax bill.

One common question regarding property taxes concerns is how property taxes are calculated. The calculation of property taxes is a multistep process that involves four distinct areas:

### ASSESSMENT

The assessment determines the fair market value of the property. From the assessment, the township assessor determines the equalized assessed value (EAV). The EAV should be approximately 33.33% of the total market value in a given area. In order to ensure that the equalized assessed value of all properties is equal to 33.33% of the market value, the Illinois Department of Revenue may apply an equalization factor to the EAV as determined by the assessor.

Deerfield Property Tax Allocation



### LEVY

The levy is the official request from a unit of local government for the funds it determines it requires from the property tax.

### EXTENSION

The extension is a determination of the property tax rate. Once the County has received all levy requests, it determines the rate that must be applied in order for the unit of local government to receive its requested levy.

### COLLECTION

Once the rates have been applied, property tax bills are sent to each property owner. The taxes are remitted to the County Clerk or Treasurer and dispersed to the various units of local government who are listed on the property tax bill.

There are several factors that could make your tax bill increase: an increase in the property equalized assessed value, an increase in tax rates, which come from the individual taxing districts, and new referendums approved by voters. Please pay close attention to your total exemptions, these exemptions could lower your current tax bill. Call your Township Assessor to verify that you are receiving the exemptions for which you qualify. They can also answer any questions of your assessed valuation.

For more information about property taxes, visit the Lake County Treasurer's FAQ at [www.lakecountyil.gov/FAQ.aspx?TID=19](http://www.lakecountyil.gov/FAQ.aspx?TID=19).





## FIREWORKS NOT ALLOWED

The Deerfield Police Department reminds residents that fireworks are dangerous and unpredictable by nature. The discharging of fireworks including firecrackers, bottle rockets, and Roman candles is a violation of state law and Village ordinances. Novelty fireworks, such as snakes, sparklers, and party-poppers are not regulated by the state. While sparklers are legal, they are extremely dangerous because they burn at temperatures of up to 1,200 degrees Fahrenheit and remain extremely hot long after the sparks have ceased.

Each July 4th, thousands of people nationwide, most often children and teens, are injured while using consumer fireworks. The best way to protect your family is to not use any fireworks at home. Many professional displays are scheduled on July 3rd and 4th for the enjoyment of all.

Please only call 911 to report illegal fireworks if you can give an exact location and preferably a description of those involved.

Moreover, there are many people, including our veterans, that are alarmed by unexpected fireworks – especially the ones they don't know are coming. Unexpected fireworks can trigger a PTSD reaction. Please be compassionate and safe and do not use illegal fireworks. ~

## THE 100 DEADLIEST DAYS FOR TEEN DRIVERS

For years, motor vehicle crashes were the leading cause of injury-related deaths for youths, although it was recently displaced by deaths from firearm-related injuries. Even so, with Memorial Day Weekend behind us, we are now in the 100 Deadliest Days (the days from Memorial Day to Labor Day) for teen drivers.

According to AAA, new teen drivers ages 16-17 are three times as likely as adults to be involved in a deadly crash, and there are more daily deaths in crashes involving teen

drivers during the summer months than the rest of the year because teens tend to have more unstructured time behind the wheel.

Parents can help their teen driver stay safe by laying down ground rules before handing over the car keys. Talk to your teen about the dangers and consequences of driving too fast, impaired or distracted. You can also be a good role model by practicing safe driving habits. *For more information visit <https://www.nhtsa.gov/road-safety/teen-driving>* ~

## KEEP YOUR DOGS COOL THIS SUMMER

Every year, dogs suffer and die when their guardians make the mistake of leaving them in a parked car – even for “just a minute” – while they run an errand.

Parked cars are deathtraps for dogs; on a 78-degree day, the temperature inside a parked car can soar to between 100 and 120 degrees in just minutes, and on a 90-degree day, the interior temperature can reach as high as 160 degrees in less than 10 minutes.

Animals can sustain brain damage or die from heatstroke in just 15 minutes. Beating the heat is challenging for dogs because they can only cool themselves by panting and by sweating through their paw pads.

If you see a dog left alone in a hot car, take down the car's color, model, make and license plate number and call 9-1-1. If possible, have someone keep an eye on the dog until help arrives. ~

## OVERNIGHT PARKING

By Village Ordinance, vehicles are not allowed to park on the street between the hours of 2 a.m. and 6 a.m. This ordinance helps to reduce crime and improve the overall safety and appearance of our community.

If you require an exception, call the Deerfield Police non-emergency number, 847.945.8636, before 2 a.m. and be prepared to provide the license plates of the

affected vehicles. ~

## 2022 COP ON A ROOFTOP

On Friday, August 19, Deerfield Police Officers will spend 5 a.m. to noon on the roof of our local Dunkin Donuts, 499 Lake Cook Road, not on surveillance, but rather raising awareness and funds for Special Olympics Illinois (SOIL).

This year marks the 20th anniversary of this partnership where, to date, more than \$6.7 million has been raised statewide. This is one of the many events the Police Department participates in annually as part of their commitment to the Law Enforcement Torch Run benefitting SOIL.

Consider a coffee run for your family or office on August 19. In return, you will not only be getting a great cup of coffee, you will also receive a coupon for a free donut and the satisfaction of knowing you have improved the life of an athlete.

The Police Department will also be selling SOIL merchandise and raffle tickets for a Harley Davidson and camper. We are hoping the Chicago Bears “Staley Da Bear” will join us again this year and help us meet our goal of raising \$3,000!

*For more information, please contact: Communications Director Mary Anne Glowacz at [mglowacz@deerfield.il.us](mailto:mglowacz@deerfield.il.us) or Desirae Kuceba at [dkuceba@deerfield.il.us](mailto:dkuceba@deerfield.il.us).*

## BIKE SAFETY BOOTH AT FARMERS MARKET

Join the Deerfield Police Department for a bike and pedestrian safety booth at the Deerfield Farmers Market on July 30 and August 13.

The Bike Safety Event will include bike officers and bike safety advocates who will talk about bike safety, bike maintenance and bike laws.

*For more information, e-mail Commander Oliver Cachola at [ocachola@deerfield.il.us](mailto:ocachola@deerfield.il.us)*



# PUBLICWORKS

## 2022 STREET REHABILITATION PROJECT UPDATE

The 2022 Street Rehabilitation Project was awarded in April and work began in early May. This \$3.3 million project consists of the full reconstruction or the resurfacing of selected streets, as well as the installation of new water main along Price Lane and Rosewood Avenue.

The following roads are associated with this year's project:

- Charing Cross from Pine Street to Indian Hill Road
- Gordon Terrace from Willow Avenue to Pine Street
- Kenmore Avenue from Hackberry Road to the south limits
- Montgomery Road from Wilmot Road to the west limits
- Plum Tree Road from Pine Street to Gordon Terrace
- Price Lane from Osterman Avenue to the north limits
- Rosewood Avenue from Birchwood to Kenmore Avenue
- Poet's Corner Subdivision (Longfellow Avenue, Byron Court, Hermitage Drive, and Whittier Avenue).

Many of the above locations are anticipated to be completed by early August and the remaining locations should be completed by the middle of September. ~

## FLOOD INFORMATION

### NATURAL & BENEFICIAL FUNCTIONS

Floodplains play a valuable role in providing natural and beneficial functions to Deerfield and the surrounding area to both human and natural systems. They provide aesthetic pleasure as well as improving the environment. Parts of both the Middle and West Fork of the North Branch of the Chicago River floodplain help filter chemical run-off so that these areas can maintain bio-diversity and ecosystem sustainability. Both floodplains

also contain historic and archeological sites that provide opportunity for education and study. They enhance waterfowl, fish and other wildlife habitats and provide feeding/breeding grounds. Lastly, both floodplains provide open space and natural erosion control to reduce further flooding damage.

### DRAINAGE SYSTEM MAINTENANCE

As simple as it may sound, keeping smaller ditches and streams free of debris can dramatically improve the run-off capacity of low-lying areas, as well as greatly reduce incidental blockage that significantly contributes to flooding. Drainage districts are charged with this responsibility.

Please note that it is illegal to dump materials into a required waterway and violators may be fined. If you see someone in the act of dumping or see debris in one of our watercourses, please contact the Village Engineering Department at 847.317.2490.

### FLOOD WARNING SYSTEM

Many times, flooding along the West and Middle Forks of the North Branch of the Chicago River within Deerfield can be predicted days in advance, giving ample warning for preparation and evacuation. In the event of a flash flood due to a large rain event, you may be the first to notice the oncoming situation, so please notify the Village Police Department/Fire District. You can also tune your radio to WGN-720 AM and WBBM-780 AM for local and national weather updates. You will also see regular interruption on local radio and television stations advising you of the situation.

### ADDITIONAL INFORMATION

The Village of Deerfield Engineering Department also provides assistance with flooding or drainage concerns. Village staff can visit your property, if required, and help to assess the problem and may be able to offer solutions. Also, guidance on whether your property is in the 100-year floodplain, floodway, wetland or historical flooding area, can be obtained by contacting the Engineering Department and having a staff member help you. Maps are available

as well as other flood-related information. Contact the Engineering Department with questions at 847.317.2490.

If you should require further or more detailed information regarding flood-related issues in Deerfield, here are some additional sources:

- [FEMA.gov](https://www.fema.gov) website
- Engineering Department, 465 Elm Street 847-317-2490
- Flood FAQs page on the Village's website, [www.deerfield.il.us](http://www.deerfield.il.us)
- Deerfield Public Library, 890 Waukegan Road 847.945.3311
- Union Drainage District #1 (West Fork) 847.945.0600
- Union Drainage District #1 (Middle Fork) 773.481.2700
- West Skokie Drainage District 312.782.4780 ~

## SAVE THE DATE: HARVEST FEST SEPTEMBER 17

Let's celebrate! Deerfield's Harvest Fest is back September 17 with fireworks and fun community events for everyone.



- Start the day at the Deerfield Farmers Market between 7 a.m. and 12:30 p.m. with special kids' activities and the popular touch-a-truck.
- Gates open at Shepard Park at 4:30 p.m. for events including live concerts from Maggie Speaks and Rosie and the Rivets, food, a beer tent, carnival games and fireworks.

Harvest Fest is hosted by the Village of Deerfield and the DBR Chamber of Commerce. Watch for an event mailer with more details and a list of sponsors in early September. ~




VILLAGE OF DEERFIELD

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

*This information is being published in accordance with the 1996 Safe Drinking Water Act, as directed by the United States Environmental Protection Agency.*

## INTRODUCTION TO WATER QUALITY REPORT

We are once again pleased and proud to present to you the Annual Water Quality Report. This Consumer Confidence Report (CCR) is designed to inform you about the water we deliver to you every day. Our goal is to provide you with a safe and dependable supply of drinking water. The Village is committed to ensuring the quality and delivery of your water. We hope you find this information useful. If you have any questions about this report or water quality, contact Tyler Dickinson, Responsible Operator In Charge, at 847.719.7463 or [tdickinson@deerfield.il.us](mailto:tdickinson@deerfield.il.us) or visit [www.deerfield.il.us](http://www.deerfield.il.us).

We are also pleased to report that the drinking water provided by the Village meets or exceeds all State of Illinois and United States Environmental Protection Agency (EPA) regulations and that we are not operating under any variance or exemption from the established drinking water regulations or standards. Opportunities for participation in the decision-making process that affects drinking water quality are also available at the Deerfield Village Board meetings on the first and third Mondays of every month. 

## ABOUT THE DATA

On the following pages you will find information regarding:

**Organic Carbon** – The percentage of Total Organic Carbon (TOC) removal was measured each month, and the system met all TOC removal requirements set, unless a TOC violation is noted in the violations section.

**Turbidity (NTU)** – Turbidity is a measure of the cloudiness of the water. It is monitored because it is a good indicator of water quality and the effectiveness of the filtration and disinfectants.

**Sodium** – There is no State or Federal maximum contaminant level (MCL) for sodium. Monitoring is performed to provide information to consumers and health officials that are concerned about sodium intake due to dietary precautions. Those on a sodium-restricted diet should consult a physician about the level of sodium in the water.

**Lead & Copper** – The Village continues to be in compliance with regulations for lead and copper control. (See *Lead and Copper Explanation*).

**Unregulated Contaminants** – An MCL for this has not been established by either State or Federal regulations, nor has mandatory health effects language. The purpose for

monitoring this is to assist the U.S. EPA in determining the occurrence of unregulated contaminants in drinking water and whether future regulation is warranted.

In addition to the above-mentioned tests, Deerfield continuously monitors and tests your water through our water control system as well as with weekly physical samples. These samples are submitted to the Central Lake County Joint Action Water Agency, an EPA certified laboratory, for analysis. This ensures a rapid response should there ever be a problem.

## GENERAL INFORMATION

The sources of drinking water (both tap and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs and wells. As water travels over the surface of the land or through the ground, it can dissolve naturally occurring minerals and radioactive material and can pick up substances resulting from the presence of animals or from human activity. Possible contaminants consist of:

**Microbial contaminants**, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations and wildlife.

**Inorganic contaminants**, such as salts and metals, which can be naturally

occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.


**Pesticides and herbicides**, which may come from sources such as agriculture, urban storm water runoff and residential uses.

**Organic chemical contaminants**, including synthetic and volatile organic chemicals, which are by-products of industrial processes and petroleum production, and can also come from gas stations, urban storm water runoff and septic systems.

**Radioactive contaminants**, which may be naturally occurring or the result of oil and gas production and mining activities.

To ensure that tap water is safe to drink, EPA prescribes regulations that limit the amount of certain contaminants in water provided by public water systems. FDA regulations establish limits for contaminants in bottled water, which must provide the same protection to ensure public health.

## Contaminants monitoring results

The Village of Deerfield and City of Highland Park routinely monitor for contaminants in your drinking water according to Federal and State laws. 

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

Containment (units)	EPA MCLG	EPA MCL	High-Level Found	Range of Detection	Violation	Date of Sample	Typical Source of Contamination
<b>Microbial Contaminants</b>							
Turbidity (%<0.3 NTU)*	n/a	0.3 NTU	100%	n/a	NO	2021	Soil runoff
Turbidity (1.0 NTU)* Highest measurement	n/a	1 NTU	0.30 NTU	n/a	NO	2021	Soil runoff
<b>Inorganic Contaminants</b>							
Barium (ppm)*	2	2	.019	.019-.019	NO	2021	Discharge from drilling wastes, metal refineries, erosion of natural deposits.
Fluoride (ppm)*	4	4	.752	.752-.752	NO	2021	
Sodium (ppm)*	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits; water additive that promotes strong teeth; discharge from fertilizer/aluminum factories.
Nitrate (ppm) Measured as Nitrogen	10.0	10.0	.30	.30-.30	NO	2021	Erosion of natural deposits; Used as water softener. This contaminant is not currently regulated by the USEPA.
Coliform	0	0	0	0	NO	2021	Naturally present in environment
Fecal coliform or E. Coli. MCL: A routine sample and a repeat sample are total coliform and one is also fecal coliform or E Coli positive.							

**2021 WATER QUALITY DATA - JANUARY 1 TO DECEMBER 31, 2021**

<b>Disinfection / Disinfection Byproducts</b>							
Chlorine (ppm)	4	4	1.54	1.10-1.24	NO	2021	Water additive used to control microbes.
Total Haloacetic Acids [HAAS] (ppb)	n/a	60	27.6	7.8-35.3	NO	2021	By-product of drinking water chlorination.
TTHM [Total Trihalomethanes] (ppb)	n/a	80	55.6	17.0-66.4	NO	2021	By-product of drinking water chlorination.

**Additional Unregulated Contaminants**

In an effort to ensure the safest water possible, the State has required us to monitor some contaminants not required by Federal regulations. Of those contaminants, only the ones listed below were found in your water.

Hardness Total (ppm)(as CaCo3)	n/a	n/a	140	140-140	NO	2021	Erosion of natural deposits.
Alkalinity	n/a	n/a	110	110-110	NO	2021	Erosion of natural deposits.
Total Dissolved Solids	n/a	n/a	310	310-310	NO	2021	Erosion of natural deposits.
Sulfate	n/a	n/a	23.0	23.0-23.0	NO	2021	Erosion of natural deposits.
Chloride	n/a	n/a	21.0	21.0-21.0	NO	2021	Erosion of natural deposits.
Calcium	n/a	n/a	35	35-35	NO	2021	Erosion of natural deposits.
Magnesium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.
Sodium	n/a	n/a	12	12-12	NO	2021	Erosion of natural deposits.


**LEAD AND COPPER - JANUARY 1 TO DECEMBER 31, 2021**

Lead MCLG	Lead Action Level (AL)	Lead 90th %-tile	# Sites Over Lead AL	Copper MCLG	Copper Action Level (AL)	Copper 90th %-tile	# Sites Over Copper AL	Likely Source of Contamination
0	15 ppb	0 ppb	0	1.3 ppm	1.3 ppm	0.19 ppm	0	Corrosion; erosion

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## LEAD AND COPPER TESTING

The IEPA lead and copper testing program began in 1992. Due to consistent low concentration levels of lead and copper, the Village has been placed on a reduced testing cycle by the IEPA and is only required to test every three years. Currently, a round of testing consists of 30 samples. Our most recent round of lead and copper testing took place in 2021 and Deerfield remains in compliance so as to continue with the IEPA-mandated reduced lead and copper testing cycle. Our next round of testing will occur in 2024.

The Village is in full compliance with all State and Federal regulations governing the control of lead and copper within public drinking water supplies. If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. The Village is responsible for providing high-quality drinking water, but cannot control the variety of materials used in plumbing components. When water has been sitting for several hours, minimize potential for lead exposure by flushing the tap for 30 seconds to 2 minutes before using water for drinking or cooking. Those concerned about lead in water, may wish to have their water tested. Information on lead in drinking water, testing methods and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline at 800.426.4791 or at [www.epa.gov/safewater/lead](http://www.epa.gov/safewater/lead). 

## DEFINITIONS

In the previous tables you will find many terms and abbreviations with which you may not be familiar. To help you better understand these terms, we have provided the following definitions:

**ppm** - Parts per million or milligrams per liter (mg/L) – or one ounce per 7,350 gallons of water.

**ppb** - Parts per billion or micrograms per liter (mcg/L) – or one ounce per 7,350,000 gallons of water.

**ppt** - Parts per trillion or nanograms per liter (nanograms/L) – or one ounce per 7,350,000,000 gallons of water.

**NTU - Nephelometric Turbidity Unit**; used to measure the cloudiness in drinking water.

**% < 0.3 NTU** - Percent samples less than 0.3 NTU.

**Mrem/yr** - Millirems per year, used to measure radiation absorbed by the body.

**pCi/l** - Picocuries per liter; used to measure radioactivity.

**# pos/mo** - Number of positives per month.

**AL - Action Level** or the concentration of a contaminant that, if exceeded, triggers treatment or other requirements which a water system must follow.

**TT - Treatment Technique** or a required process intended to reduce the level of a contaminant in drinking water.

**MCL - Maximum Contaminant Level** or the highest level of a contaminant allowed in drinking water. MCLs are set as close to the MCLGs as feasible, using the best available treatment technology.

**MCLG - Maximum Contaminant Level Goal** or the level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

**n/a** - Not applicable. 

## LAKE MICHIGAN: OUR WATER SOURCE

The Village of Deerfield purchases all of its water from the City of Highland Park. Highland Park draws its raw water from a 54-inch intake pipe located a mile off shore in Lake Michigan at a depth of approximately 30 feet. In addition, there are two smaller pipes used as secondary intakes, which are 16 and 20 inches in diameter.

Lake Michigan, like the other Great Lakes, was formed as glaciers retreated north during the last ice age. Lake Michigan is the largest lake completely within the United States at 118 miles wide and 307 miles long. Lake Michigan averages 279 feet in depth and reaches 925 feet at its deepest point. The lake's drainage basin, which is approximately twice as large as its 22,300 square miles of surface water, includes portions of Illinois, Indiana, Michigan and Wisconsin. The Great Lakes are among the world's most valuable sources of fresh surface water. Almost half of all the liquid fresh water in the world is found in the Great Lakes. Most of the world's surface fresh water is locked away in the ice caps around the North and South Poles, which makes us appreciate the Great Lakes that much more.

All sources of drinking water, including Lake Michigan, are subject to potential contamination by items that are naturally occurring or man made. Those elements may be microbes, organic or inorganic chemicals or radioactive materials. All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants.

The presence of contaminants does not necessarily indicate that the water poses a health risk. Susceptibility is defined as the likelihood for the source water of a public water system to be contaminated at concentrations that would pose a concern.

# ANNUAL DRINKING WATER QUALITY REPORT VILLAGE OF DEERFIELD, ILLINOIS 2021

## OUR WATER SOURCE CONTINUED

The Illinois EPA (IEPA) considers all surface sources of the community water supply to be susceptible to potential pollution problems. The very nature of surface water allows contaminants to migrate into the intake with no protection, only dilution, hence the reason for mandatory treatment for all surface water supplies in Illinois.

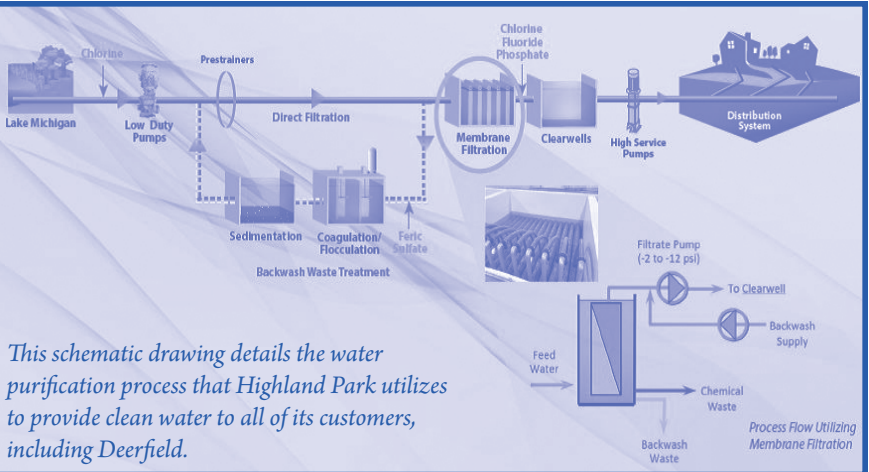
As previously mentioned, Highland Park has three intake lines. The 54-inch intake pipe is normally used alone with the two smaller intakes used to augment high demand or during maintenance of the 54-inch pipe. As these are closer to the shore, they have a greater susceptibility to be influenced by potential sources of contamination. However, regardless of which lines are used, the finished water leaving the Highland Park Water Plant always meets or exceeds all IEPA and EPA regulations.

More information about contaminants and potential health effects can be obtained by calling the Environmental Protection Agency's Safe Drinking Water Hotline at 800.426.4791. To access the Highland Park Water Assessment Summary, visit: [www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show\\_facility\\_detail&facility\\_number=0970500&cws=y](http://www.epa.state.il.us/cgi-bin/wp/swap-fact-sheets.pl?rm=show_facility_detail&facility_number=0970500&cws=y). ↻

## TOP 10 WAYS TO CONSERVE WATER

Conserving water is easy if you follow these helpful tips:

1. Test for a leaking toilet by adding food coloring to the tank. If any color appears in the bowl after 30 minutes, your toilet is leaking. Leaking toilets can waste thousands of gallons of water. Flush as soon as the test is done, since food coloring may stain the tank.



2. Use water-conserving plumbing fixtures and water-flow restrictors on sinks and showers. Bathroom facilities typically constitute 75% of the water used in homes.
3. Only run your dishwasher and washing machine when you have a full load.
4. Take a short shower instead of a bath. A bath uses 30 to 50 gallons of water. Showers use about a gallon of water per minute.
5. Store drinking water in the refrigerator instead of letting the tap run when you want a glass of cool water.
6. Never put water down the drain when there may be another use for it such as watering a plant or garden, or doing housework.
7. Be conscientious of the amount of water you use when running your garbage disposal. Have your food scraps cut into small pieces so they can be disposed of quickly, minimizing the amount of time you need to run the faucet. You can also compost instead.
8. For landscaping and gardens, choose plants that are native to the area in which you live or plants that are drought resistant. Native plants are accustomed to the natural amount of precipitation that occurs in the area where they are found and normally

do not require any additional watering. Group plants together based on similar watering needs.

9. Water your lawn and/or garden during the coolest part of the day to minimize evaporation. Apply water slowly, exactly where it is needed. Position sprinklers so that water lands on the lawn and shrubs, not on paved areas. Keep in mind that sprinkling restrictions are in place from May 15 - September 15.

10. Use a bucket of water and a spray head on the hose to wash your car. A running hose can waste hundreds of gallons of water in the time it takes to wash a car. ↻

## SPECIAL INFORMATION

Some people may be more vulnerable to contaminants in drinking water. Immunocompromised individuals, such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline at 800.426.4791. ↻



The following is a synopsis of actions taken by the Village Board since the January/February issue of D-Tales. For complete sets of minutes for Village Board meetings or to watch meetings on demand, please visit the Village's website at [www.deerfield.il.us](http://www.deerfield.il.us).

## VILLAGE BOARD ACTION

- Approved a Resolution to award the Village Hall monopole painting contract
- Approved a Resolution to award the monopole radio equipment contract
- Approved an Ordinance authorizing an amendment to the Deerfield Park Plaza Planned Unit Development for site changes and an amendment to the Goddard Special Use to permit the expansion of the Goddard School into the adjacent 471 Lake Cook Road tenant space in Deerfield Park Plaza Shopping Center
- Approved a Resolution to award chemical phosphorus removal project
- Approved the report and recommendation of the Greenhouse Gas Reduction Working Group regarding a Climate Action Report
- Approved a Resolution approving an intergovernmental agreement by and between the Village of Deerfield and the West Deerfield Township Assessor for access to Village permit and plan tracking system
- Approved a Resolution authorizing a grant to the Lake County Convention and Visitor Bureau

## HONORS AND RECOGNITIONS

- Recognized Rochelle Zell Jewish High School Model U.N. Team for eighth consecutive Team Award of Distinction
- Proclaimed May Mental Health Month
- Recognized Yaokai Yang, EIU Academic Challenge - Computer Science State Champion
- Proclaimed June LGBTQ Pride Month
- Proclaimed June 19, 2022 Juneteenth
- Proclaimed Neurofibromatosis Awareness Day

# COMMUNITYCALENDAR



### DEERFIELD PARK DISTRICT

For more information or to register for Park District programs, call 847.945.0650, or visit [www.deerfieldparks.org](http://www.deerfieldparks.org).

We Weekly summer camps are still available! Check out options in our Summer Camp Guide at [deerfieldparks.org/programguide](http://deerfieldparks.org/programguide) or stop by the park district today!

Bring your furry friend to Jaycee Park on July 16 for an afternoon of dog-friendly fun at Woofstock! Enjoy games and activities, music, snacks, and more! Register at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Enjoy Summer Concerts at Floral Park from 5 – 6:30 p.m. in July and August. Join your friends and neighbors, bring a picnic dinner, chair or blanket while different artists perform each week. Dates and artist bios can be found at [deerfieldparks.org/events](http://deerfieldparks.org/events).

Put on your Blue Suede Shoes and get ready to Shake, Rattle and Mix at the Patty Turner Center as Highwood's very own Roger That takes to the stage to perform the jukebox hits of the 50s and 60s. Advanced registrations are required. For details please call: 847-940-4010

Open Pickleball at Sachs Recreation Center for all players no matter their age or ability level. Drop-in and play on one of our seven courts. The summer Open Play schedule runs June 13-August 12. Open Play is rack format M/W/F 8 a.m.-noon \$7R/9NR/Free for SRC Members

Eat to the Beat Concerts at Jewett Park Pavilion from 11:30 a.m. – 12:15 p.m. on July 6, 13, 20 & 27. Bring a picnic lunch, listen to music and play in the park!

Deerfield Family Theater auditions for Big Fish will be held the week of August 24. Visit [deerfieldfamilytheater.com](http://deerfieldfamilytheater.com) to select an audition slot!

### DEERFIELD PUBLIC LIBRARY

All Library programs are free and open to the public. Register in advance by phone at 847.945.3311, online at [deerfieldlibrary.org](http://deerfieldlibrary.org), or in person at 920 Waukegan Rd. Online program description notes program platform (online, in-person, or hybrid).

Memory Café  
July 6, August 3, 10-11:30 a.m.  
The Café is offered to support and connect those experiencing memory loss and their care partner.

MakerSpace Open House  
July 8, 3-4 p.m., Grades 5+  
Come learn about amazing equipment and projects!

Blues 101 with Fruteland Jackson  
July 9, 2-3:30 p.m.  
Blues music history through song, lecture, and discussion.

Professor Moptop Presents Paul McCartney  
July 19, 7-8:30 p.m.  
The Professor will share videos, songs, and stories about John and the Fab Four.

Deerfield's Got Talent!  
July 26, 7-8:30 p.m., Students entering Grades 2 and up  
Share your special talent, and just come enjoy the show. All PG talents welcome!

Craftivism 101  
July 27, 4-5 p.m., Students entering Grades 4-8  
Are you creative, and care about the world? Learn how to combine these two things with Craftivism.

PLACE Programs: Community for Everyone

July 30, August 27, 6:30-7:30 p.m.  
PLACE welcomes adults with intellectual and developmental disabilities and their parents and caregivers. Join us for an evening of reading, conversation, and fun. For more info and to register contact Vicki Karlovsky, [vkarlovsy@deerfieldlibrary.org](mailto:vkarlovsy@deerfieldlibrary.org).

Bad Guys Party  
August 4, 4-5:30 p.m., Students entering Grades 1-5  
Call all Bad Guys fans! We'll play trivia, do a craft, and be GOOD.

Jutta & the Hi-Dukes Concert  
August 20, 2-3:30 p.m.  
Experience music from many different cultures and countries, and bring your dancing shoes!.

Unconventional Photography of Chicago  
August 31, 7-8 p.m.  
Learn how to keep your photography spontaneous! Cosponsored by the Village Fine Arts Commission

For more information and a full listing of events, please visit [www.deerfieldlibrary.org](http://www.deerfieldlibrary.org).



# COMMUNITY INFO

## TOWNSHIP UPDATES PARADE COOLING CENTER

West Deerfield Township's lobby will serve as a cooling center during the July 4th parade. Stop in at 601 Deerfield Road to take a break from the heat or grab a refreshing bottle of water.

## ASSESSOR'S OFFICE

Please visit the Assessor's office weekdays between 8:30 a.m. and 4:30 p.m. to meet the new staff that is here to help you. We've been hard at work helping residents file for all the exemptions they qualify for, please stop in to make sure you're getting all the savings available.

Assessment notices for 2022 will be posted

and mailed out mid-August this year. The 30-day window to appeal your assessments begins that day, so don't delay filing once you receive your blue assessment notice. We'll be here to assist you with that too.

Contact the Assessor's Office at 847.945.3020 or [assessor@wdtassessor.org](mailto:assessor@wdtassessor.org).

## "GREEN UP" YOUR PARKWAY WITH THE 50/50 TREE PROGRAM

The Deerfield Public Works Department offers a 50/50 program that allows residents to pay 50% of the cost for a new parkway tree (plus the \$80 planting fee) while the Village pays the remaining 50%.

Your tree is guaranteed for one year and will be planted for you in the fall by the Public Works Department. Trees will be planted in the parkway only and cannot be planted on private property - this program is for residential properties only.

The application for the program is available in person or online at [www.deerfield.il.us](http://www.deerfield.il.us). After making your tree selection, fill out our Tree Order Form and return it to us with a check in the proper amount. The deadline for ordering trees is August 30.

To learn more about the program and to see which trees are available for planting, visit [www.deerfield.il.us](http://www.deerfield.il.us) or contact Public Works at 847.317.7245.

59<sup>th</sup> Annual

# DEERFIELD

## Family Days

[www.deerfield.il.us/familydays](http://www.deerfield.il.us/familydays)

### Sunday, July 3rd Brickyards Park

5:00 p.m. Festivities Begin: Concession sales (food and soft drinks available)

5:00 p.m. to 8:00 p.m. Inflatables, Rides and Carnival Games

6:00 p.m. Entertainment by Energy Productions!

7:00 p.m. Raising of the Flag by the American Legion and singing of the National Anthem

Dusk Fireworks

### Monday, July 4th Jewett Park

8:00 a.m. Deerfield Rotary Club 5k Race: Registration from 7:15 a.m. to 7:45 a.m. Starts at Maplewood Park. Register at [www.deerfield.il.us](http://www.deerfield.il.us)

8:00 a.m. to 10:30 a.m. Breakfast in the Park by the Wild Roaster

8:00 a.m. to 3:00 p.m. Arts and Crafts Fair

8:30 a.m. to 9:00 a.m. Bike Parade: Parking lot at Rosemary and Deerfield Bike parade starts at 9:00 a.m. and bikes must be pre-decorated

8:45 a.m. to 10:00 a.m. Dog Show: BYOD (Bring Your Own Dog)

10:00 a.m. to 2:00 p.m. Sensory Friendly Play Area

10:00 a.m. to 3:00 p.m. Inflatables, Rides, Carnival Games, Concessions and Corporate Booths

11:00 a.m. to 3:00 p.m. Flower Show: New Location - Jewett Park Pavilion  
Submit flowers for judging from 8:00 a.m. to 10:00 a.m.

12:00 p.m. SPECTACULAR PARADE  
Parade Marshals: Mayor Emeritus Harriet Rosenthal and The League of Women Voters  
Parade Route: Deerspring Pool to Waukegan Road, Waukegan Road to Hazel Avenue, ending at Jewett Park

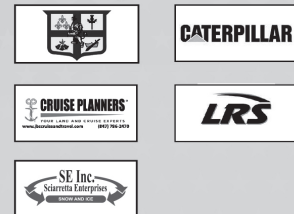
1:00 p.m. to 5:00 p.m. Free Swimming for everyone at Deerspring Pool and Mitchell Pool

*All adults and children going on rides or inflatables must have wristband-no exceptions. Wristband sales are cash only.*

### Food Vendors

- Donut Jester      My Funnel Truck
- Judy's Pizza      Nothing Bundt Cakes
- Mario's Cart      ...and more!

### Thank you to our Gold Sponsors



### Thank you to our Bronze Sponsors



CELEBRATE 59 YEARS OF FIREWORKS, FOOD AND FUN WITH FAMILY AND FRIENDS!  
Thank you to all local partners!





## LAWN IRRIGATION RPZ REGULATIONS

As a reminder, all irrigation systems are required to have a backflow prevention device called a Reduced Pressure Zone Backflow Preventer (RPZ). This must be certified annually by a licensed Cross Connection Device Inspector. This testing and certification must be completed every year prior to the system going into service.

The Village has contracted with Backflow Solutions, Inc. (BSI) to administer the backflow prevention tracking program. The annual backflow assembly test report must be submitted electronically by your inspector via the BSI Online system at [www.BsiOnline.com](http://www.BsiOnline.com).

For more information, contact the Public Works Department at 847.317.7245. ☞

## YARD WASTE REMINDERS

Any yard waste placed in your compost container does not require a sticker. Yard waste can be placed in the compost container year-round and does not require a sticker. Yard waste stickers will be needed for bag service, and may be purchased at Village Hall and retailers that currently sell stickers. Stickers cost \$3.00. ☞

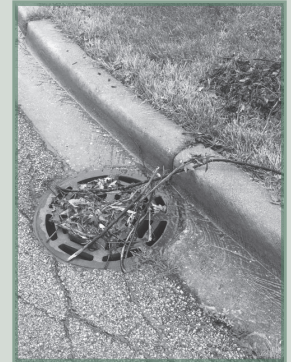
## SPRINKLING RESTRICTIONS

The Illinois Division of Water Resources requires that municipalities using Lake Michigan water restrict lawn sprinkling between May 15th and September 15th. Accordingly Deerfield's restrictions during this period are as follows:

- Even numbered addresses may sprinkle on even numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Odd numbered addresses may sprinkle on odd numbered days from midnight to noon and from 6:00 p.m. to midnight.
- Sprinkling is not allowed for anyone between the hours of noon to 6:00 p.m. ☞

## GRATE KEEPERS PROGRAM PROTECTS WATERWAYS

Become a gate keeper of our waterways by registering for the Village's Grate Keepers Program. Residents and businesses can adopt the storm water inlets near their property and pledge to clean the areas around them to reduce local flooding and keep litter and yard waste from polluting local waterways and impeding proper flow.



Using the Villages GIS mapping program, residents can search their neighborhood to find nearby grates. Then they get to name their grate and show their commitment to reduce trash and organic pollutants.

Rain washes anything that's on streets and paved surfaces down storm drains and into the local branches of the Chicago River, and eventually to the Mississippi River and to the Gulf of Mexico. Dog waste carries harmful bacteria. Leaves, grass and dirt feed algae and turn lakes and rivers green. Trash clogs drains and pipes, causing flooding.

With more than 4,000 individual inlets and catch basins in the Village, this is a task that Public Works cannot tackle all on its own.

Participants will be sent a welcome packet containing instructions on how to properly clean around storm grates, materials needed and safety information. The Village will send emails to participants a few times a year reminding them of their commitment. To register, visit [www.deerfield.il.us/gratekeepers](http://www.deerfield.il.us/gratekeepers).

For more information, contact Communications Coordinator David Fitzgerald-Sullivan at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us) or at 847.719.7400. ☞

## STAY CONNECTED WITH THE VILLAGE ON SOCIAL MEDIA

The Village of Deerfield is on social media and invites residents to connect with us to receive valuable information. Like and follow the Village of Deerfield here:

- [Facebook.com/VillageofDeerfield/](https://www.facebook.com/VillageofDeerfield/)
- [@Deerfield\\_IL](https://twitter.com/Deerfield_IL)
- [Instagram.com/villageofdeerfield/](https://www.instagram.com/villageofdeerfield/)  
(@villageofdeerfield)

You can also register to receive the weekly e-blast with Village news and events at [www.deerfield.il.us](http://www.deerfield.il.us). Simply click the "Notify Me" icon on the homepage.

We encourage you to submit your questions, comments and concerns and look forward to engaging with the community further!

For more information, contact David Fitzgerald-Sullivan, Communications Coordinator at 847.719.7400 or by email at [dfitzgerald@deerfield.il.us](mailto:dfitzgerald@deerfield.il.us). ☞



VILLAGE OF DEERFIELD

D-Tales  
850 Waukegan Road  
Deerfield, Illinois 60015

PRESORTED  
STANDARD U.S.  
POSTAGE  
PAID  
Permit No. 1  
Deerfield, Illinois

POSTAL CUSTOMER  
DEERFIELD, ILLINOIS 60015



## VILLAGENOTES

# FOOD Truck



## Thursdays

**June 23, July 21, August 18**

4:30 p.m. to 8 p.m. at Jewett Park Hazel Avenue Parking Lot

**Live Music | Kids Activities**

Sponsored by: The Village of Deerfield



Village Officials:

**Mayor:**

**Daniel C. Shapiro** - 312.763.9640  
Email: [dshapiro@deerfield.il.us](mailto:dshapiro@deerfield.il.us)

**Trustees:**

**Robert "Bob" L. Benton** - 847.945.1570

Email: [rbenton@deerfield.il.us](mailto:rbenton@deerfield.il.us)

**Larry Berg** - 847.612.0777

Email: [lberg@deerfield.il.us](mailto:lberg@deerfield.il.us)

**Elaine Jacoby** - 847.644.3354

Email: [ejacoby@deerfield.il.us](mailto:ejacoby@deerfield.il.us)

**Rebekah Metts-Childers** - 847.899.1449

Email: [rmettschilders@deerfield.il.us](mailto:rmettschilders@deerfield.il.us)

**Mary M. Oppenheim** - 847.948.9423

Email: [moppenheim@deerfield.il.us](mailto:moppenheim@deerfield.il.us)

**William S. Seiden** - 847.945.2442

Email: [wseiden@deerfield.il.us](mailto:wseiden@deerfield.il.us)

**Village Manager:**

**Kent S. Street** - 847.719.7400

E-mail: [kstreet@deerfield.il.us](mailto:kstreet@deerfield.il.us)

**Village Hall/Police Department**

850 Waukegan Road

Deerfield, Illinois 60015

847.945.5000 (Switchboard and Finance)

847.719.7484 (Community Development)

847.945.8636 (Police non-emergency)

**Public Works and Engineering**

465 Elm Street

847.317.7245

847.317.2490 (Engineering)

**Sec. 17-7. Unauthorized Discharge:**

No person shall discharge any wastes or sewage into any watercourse, or tributary thereof, or into the ground by percolation of injection without a permit from the village engineer subject to prior approval of the president and board of trustees. (1963 Code)

# VILLAGE OF DEERFIELD

**“NO DUMPING ALLOWED” SIGN AT THE END OF OSTERMAN AVENUE**

