May 31, 2022

To: Illinois Environmental Protection Agency
Water Pollution Control
Compliance Assurance Section #19
P.O. Box 19276
Springfield, IL 62794-9276

RE: Village of Channahon (REL # 16-R0770.CHN)
NPDES Permit MS4 Annual Report
Reporting Cycle 2021-2022
Permit No. ILR40-0623

Dear Sir/Madam:

On behalf of the Village of Channahon, please find enclosed the Annual Report regarding the Village's NPDES Permit for Stormwater Discharges from Municipal Separate Storm Sewer Systems (MS4).

This report is being emailed to epa.ms4annualinsp@illinois.gov. If you have questions, please email me at knewman@reltd.com or call me at (217) 530-4084.

Very truly yours,

Karl F. Newman, PG
Senior Project Scientist

Encl.

xc: Edward Dolezal, Director of Public Works – Village of Channahon
Jay Patel – IEPA, Des Plaines office

Illinois Environmental Protection Agency

Bureau of Water • 1021 N. Grand Avenue E. • P.O. Box 19276 • Springfield • Illinois • 62794-9276

Division of Water Pollution Control
ANNUAL FACILITY INSPECTION REPORT
for NPDES Permit for Storm Water Discharges from Separate Storm Sewer Systems (MS4)

This fillable form may be completed online, a copy saved locally, printed and signed before it is submitted to the Compliance Assurance Section at the above address. Complete each section of this report.

Report Period: From March, 2021 To March, 2022

Permit No. ILR40 0623

MS4 OPERATOR INFORMATION: (As it appears on the current permit)

Name: Village of Channahon Mailing Address 1: 24555 S. Navajo Drive

Mailing Address 2: County: Will

City: Channahon State: IL Zip: 60410 Telephone: 815-467-6644

Contact Person: Ed Dolezal Email Address: edolezal@channahon.org
(Person responsible for Annual Report)

Name(s) of governmental entity(ies) in which MS4 is located: (As it appears on the current permit)

Village of Channahon Will County

THE FOLLOWING ITEMS MUST BE ADDRESSED.

A. Changes to best management practices (check appropriate BMP change(s) and attach information regarding change(s) to BMP and measurable goals.)

1. Public Education and Outreach ☐
2. Public Participation/Involvement ☐
3. Illicit Discharge Detection & Elimination ☐
4. Construction Site Runoff Control ☐
5. Post-Construction Runoff Control ☐
6. Pollution Prevention/Good Housekeeping ☐

B. Attach the status of compliance with permit conditions, an assessment of the appropriateness of your identified best management practices and progress towards achieving the statutory goal of reducing the discharge of pollutants to the MEP, and your identified measurable goals for each of the minimum control measures.

C. Attach results of information collected and analyzed, including monitoring data, if any during the reporting period.

D. Attach a summary of the storm water activities you plan to undertake during the next reporting cycle (including an implementation schedule.)

E. Attach notice that you are relying on another government entity to satisfy some of your permit obligations (if applicable).

F. Attach a list of construction projects that your entity has paid for during the reporting period.

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

Edward S. Dolezal
Owner Signature:

5/19/22
Date:

Edward Dolezal
Printed Name:

Director of Public Works
Title:

EMAIL COMPLETED FORM TO: epa.ms4annualinsp@illinois.gov

or Mail to: ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
WATER POLLUTION CONTROL
COMPLIANCE ASSURANCE SECTION #19
1021 NORTH GRAND AVENUE EAST
POST OFFICE BOX 19276
SPRINGFIELD, ILLINOIS 62794-9276

This Agency is authorized to require this information under Section 4 and Title X of the Environmental Protection Act (415 ILCS 5/4, 5/39). Failure to disclose this information may result in: a civil penalty of not to exceed $50,000 for the violation and an additional civil penalty of not to exceed $10,000 for each day during which the violation continues (415 ILCS 5/42) and may also prevent this form from being processed and could result in your application being denied. This form has been approved by the Forms Management Center.

BMPs MEASURABLE GOALS IMPLEMENTED & PROGRESS

A. Public Education and Outreach

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
1	Distribute paper material	Stormwater related materials available for pick up at the front counter of Village Hall.	Individual various flyers picked up at front counter.	Continue to provide materials at counter.	Public Works Director
1	Distribute paper material	Stormwater related materials provided to new residents in Welcome Packet.	Welcome Packets handed out.	Continue to provide materials in welcome packets.	Public Works Director
6	Other Public Education	Stormwater related information provided on Village cable channel, social media (Facebook page) and Village website.	Provided information on Village cable channel, Facebook page and website.	Continue to provide content and links.	Public Works Director

B. Public Participation/Involvement

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
4	Public Hearing	Hold a public meeting annually to discuss MS4 program	Deferred.	Hold public meeting.	Public Works Director
6	Program Involvement	Spring yard waste pick-up notification provided on Village cable channel, Facebook page and website.	Provided information on Village cable channel, Facebook page and website.	Continue program.	Public Works Director
6	Program Involvement	Fall leaf collection provided October 1st through November 30th; notification provided on Village cable channel, Facebook page and website.	Provided information on Village cable channel, Facebook page and website.	Continue program.	Utility Billing Rep.
6	Program Involvement	Christmas tree pickup provided with three regular garbage pickup days; notification provided on Village cable channel, Facebook page and website.	Provided information on Village cable channel, Facebook page and website.	Continue program.	Utility Billing Rep.
6	Program Involvement	Spring Tree & Shrub Sale, Village organizes sale of trees to residents at lower prices; notification provided on Village cable channel, Facebook page and website.	Provided information on Village cable channel, Facebook page and website.	Continue program.	Development Director
6	Program Involvement	Village support of river clean-up days organized by Park District and area conservation foundations; promote other clean-up initiatives.	Provided support to available public programs.	Continue support of programs.	Public Works Director

C. Illicit Discharge Detection and Elimination

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
1	Storm Sewer Map Preparation	A comprehensive storm sewer map has been implemented using ArcGIS technology; this includes floodplain and wetland maps. Map is kept up to date.	Map was updated.	Continue updating database as improvements are accepted.	Public Works Director
2	Regulatory Program	Village Staff inspection verifies all connections to Village storm sewer system.	Connections were reported.	Continue inspection and management.	Public Works Director
4	Illicit Discharge Tracing Procedures	Trace sources of illicit discharges if discovered during annual outfall inspections.	No illicit discharges discovered.	Continue.	Public Works Director
5	Illicit Discharge Removal Procedures	Remove sources of illicit discharges if discovered during annual outfall inspections	No illicit discharges discovered	Continue.	Public Works Director
7	Visual Dry Weather Screening	Annually inspect end-of-line storm sewer outfalls.	Performed outfall inspections	Complete outfall inspections.	Public Works Director
10	Other Illicit Discharge Controls	Provide online submittal portal for citizen reports of illicit discharges and other stormwater related items.	Maintained online inquiry/complaint form.	Continue	Public Works Director

D. Construction Site Runoff Control

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
1	Regulatory Control Program	Enforce Village and County Ordinances requiring erosion and sediment controls as well as compliance with ILR10 requirements.	Ordinances enforced.	Continue.	Development Department
2	Erosion and Sediment Control BMPs	Verify that erosion and sediment control BMPs are specified on plans and installed and maintained during construction	Performed site plan review.	Continue stringent review.	Development Department
4	Site Plan Review Procedures	Stringent review of proposed erosion and sediment control measures for new developments.	Preconstruction meetings held as decided on a case-by-case basis.	Continue stringent review.	Development Department
5	Public Information Handling Procedures	Provide accessibility to public for stormwater/drainage related comments and concerns, i.e. drainage problems, storm sewer damage, etc.	Complete stormwater related work orders written.	Continue as needed.	Public Works Director

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
5	Public Information Handling Procedures	The Village now logs resident calls as "Citizens Inquiries."	Recorded citizens inquiries and managed via visits and emails.	Continue.	Public Works Director
5	Public Information Handling Procedures	Village Staff provides accessibility to public for floodplain related questions and concerns.	Information requests were processed this reporting period.	Continue to provide assistance and information to residents.	Public Works Director
6	Site Inspection/ Enforcement Procedures	Developers to perform weekly and post rain inspections.	Reports provided to Village Staff upon request. Village Staff responded to inquiries as needed.	Continue.	Development Department

E. Post Construction Runoff Control

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
3	Long Term O&M Procedures	Street Sweeping.	Performed street sweeping.	Continue.	Public Works Director
3	Long Term O&M Procedures	Storm Sewer Jetting/Cleaning.	Performed storm jetting/cleaning.	Continue as needed.	Public Works Director
3	Long Term O&M Procedures	Storm Sewer repair.	Performed storm sewer repair	Continue as needed.	Public Works Director
4	Pre-Construction Review of BMP Designs	Verify that erosion and sediment control BMPs are specified on plans and installed and maintained during construction	Performed site plan review.	Continue stringent review.	Development Department
6	Post-Construction Inspections	Stringent review of post construction asbuilt data; includes all stormwater related improvements.	Performed asbuilt review.	Continue as needed.	Development Department
6	Post-Construction Inspections	Stringent inspection of constructed improvements and requirement to correct deficiencies; includes all stormwater related improvements.	Performed inspection and punchlist work.	Continue as needed.	Development Department

F. Pollution Prevention/Good Housekeeping

	BMP	Measurable Goals	Activities This Reporting Year	Planned Activities Next Year	Responsible Position/Party
1	Employee Training Program	Educate employees on topics beneficial to stormwater management.	Village staff training completed.	Continue training.	Department Heads
2	Inspection and Maintenance Program	Code Enforcement officer and other Village Staff search out incidences of Ordinance violations including erosion and sediment control and drainage violations.	Record violations.	Continue inspections.	Development Department
2	Inspection and Maintenance Program	Street Sweeping.	Street sweeping completed.	Continue.	Public Works Director
2	Inspection and Maintenance Program	Storm Sewer Jetting/Cleaning.	Storm sewer jetting/cleaning completed.	Continue as needed.	Public Works Director
5	Flood Management/Assess Guidelines	Village Staff provides accessibility to public for floodplain related questions and concerns.	Requests processed as received.	Continue to provide assistance and information to residents.	Public Works Director
6	Other Municipal Operations Controls	Village of Channahon sits on Will County Stormwater Management Committee, Grundy County Stormwater Management Committee, Lower DuPage River Watershed Coalition and Lower Des Plaines River Watershed Group.	Regular attendance at meetings.	Continue to participate.	Public Works Director

MARCH 2021

DISCOVER CHANNAHON

Information & News for the Channahon Community

MAYOR'S MESSAGE

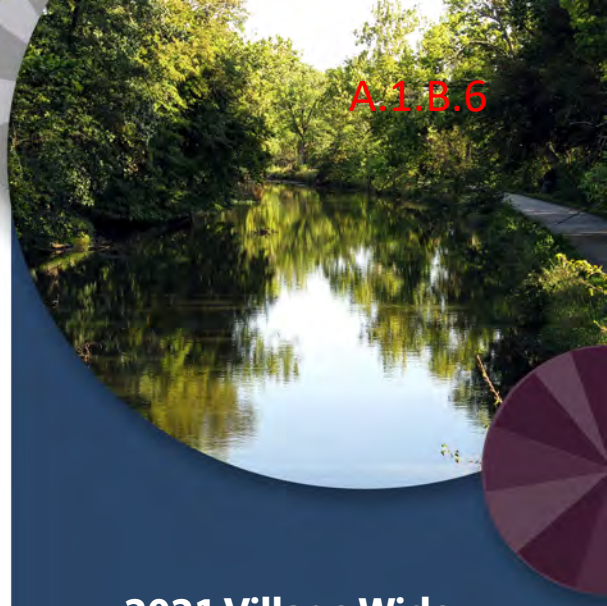
Recently, a resident asked me a question regarding residential property tax and whether recent development in the Village of Channahon would result in a reduction of residential taxes, so I wanted to take a few minutes to address that question here. The first thing, often not realized, is the Village of Channahon gets less than 8 cents of your property tax dollar. With that 8 cents, the Village provides police protection and all other Village services, including public works functions like street maintenance, snow plowing, mowing of public areas, tree trimming, street lights, etc. More to the question, however, the Village has reduced the tax levy rate in each of the past 5 years, resulting in a 6.15% reduction since 2015. We are always looking for ways to benefit our residents. After all, we are residents, and taxpayers, too.

Non-residential development helps to broaden the tax base, easing the burden on residents. Development has been considered very carefully and deliberately to help us do just that. The industrial parks south of Rt. 6 and east of I-55 were located adjacent to already existing industrial uses both within the municipal limits of Joliet with whom we share a border, and unincorporated Will County. The property taxes generated by those buildings, and not those from existing residents and businesses, have helped pay for more than $12 million in public infrastructure improvements. That area is nearly built out, and the Village of Channahon elected officials have consistently declined to consider further new industrial development in this area.

The recent development of businesses in that area, coupled with frequently changing tax laws, makes it difficult to predict the long term tax revenues other than property taxes that will be generated from some businesses in the park. Regardless of the actual amount, those tax dollars will help us to offset needed capital and public infrastructure improvements now and into the future, allowing us to better serve the utility needs of our communities' growth. Also, as the aquifer from which our municipal water is drawn is depleting more quickly than it is regenerating, geological studies have determined that all local communities in the region must consider alternative water sources in the near future. Again, the hope is non-residential tax revenue can help to dramatically offset what promises to be an enormous cost. Perhaps more immediately, connection of multi-use paths and other public infrastructure projects are being considered to provide additional amenities without further burden to residential taxpayers.

What does the future hold? Interest in the Channahon area continues to grow, from residential, to retail and commercial to industrial. New home building continues to grow our community. In spite of the pandemic, our businesses have persevered. Much of our as yet vacant land lies on the far west side of the Village, some of which was annexed and zoned for industrial use several years ago. A full interchange was constructed at I-80 and Brisbin Rd. that will serve this future industrial development, and the existing heavy industrial factories. Channahon, Morris and Minooka all share boundaries at the interchange. Inquiries about further industrial development in the community are directed to that area. We realize the eventuality of development in that area and have planned it for some time, and at the Village of Channahon, we are working to prepare for that development in order to minimize the impacts and maximize the benefits for our community.

Want to receive the Discover Channahon Newsletter sent directly to your email?
Visit www.channahon.org to sign up.



YARD WASTE PICKUP RESUMES MARCH 15

Yard Waste pickup will begin the week of March 15th. This service is provided on a weekly basis through December 15th. Residents are allowed to place yard waste in biodegradable kraft type bags or use the 95-gallon yard waste cart provided.

Yard waste consists of grass trimmings, leaves, twigs, branches, shrubbery cuttings, outdoor plants and flowers. Tree limbs are also acceptable and should be less than four inches in diameter bundled a maximum of two feet in diameter and three feet in length.

Unacceptable items include plastic bags, animal waste, cardboard, concrete, rock, fruits, vegetables, dirt, stone, indoor plants, tree roots and stumps larger than three inches.

Place carts and/or bags at the curb with the wheels against the curb by 6:00 a.m. on your designated collection day and remove the same day once they have been picked up. Keep carts at least four feet from parked cars, mailboxes and other obstacles that may prevent Environmental Recycling & Disposal from picking it up.

To request a cart or report a missed pickup, please contact Environmental Recycling & Disposal at 815-725-4555 during normal business hours.

DO YOU HAVE AN EMERGENCY PLAN?

The National Safety Council recommends every family have an emergency plan in place in the event of a natural disaster or other catastrophic event. Spring is a great time to review that plan with family members. Have a home and car emergency kit. The Federal Emergency Management Agency says an emergency kit should include one gallon of water per day for each person, at least a three-day supply of food, flashlight and batteries, first aid kit, filter mask, plastic sheeting and duct tape, and medicines. Visit Ready.gov for an emergency supply list.

2021 Village Wide Garage Sales

At this time, we do not know if we will be having our annual garage sales due to the pandemic. If we do, the 2021 Village Wide Garage Sale dates will be as follows:

- Spring - April 29, 30 and May 1
- Fall - September 9, 10 and 11

While the Village Wide Garage Sales are undecided, residents may still host their own individual garage sales. We encourage residents to take the following precautions for themselves and potential customers should you choose to host your own garage sale:

- Display posters to remind customers about social distancing
- Tables and chairs should be at least 6 feet apart
- Use tape to direct visitors through the sale
- Disinfect merchandise before putting it out for sale
- Clean tables and chairs throughout the day
- Supply hand sanitizer on tables and elsewhere for customers
- Wear masks and disposable gloves

Never miss an update! Sign up for Village of Channahon alerts by visiting www.channahon.org and clicking "Alerts" on the home page.

A.1.B.6

APRIL 2021

DISCOVER CHANNAHON

Information & News for the Channahon Community

MAYOR'S MESSAGE

I love springtime in Channahon. The weather is starting to warm up, residents are enjoying the outdoors and our beautiful community is already greening up with fresh grass, bright flowers and budding trees. The Village takes great pride in our landscape and abundant trees, as demonstrated by our recognition as a Tree City USA designee by the National Arbor Day Foundation for more than 20 consecutive years.

Unfortunately, many of the beautiful trees that line our parkways, yards and open spaces were affected by the Emerald Ash Borer beetles that found their way to Channahon years ago. In 2014, the Village launched a proactive campaign to remove and replace affected trees - an effort which, due to its immensity, is still ongoing today.

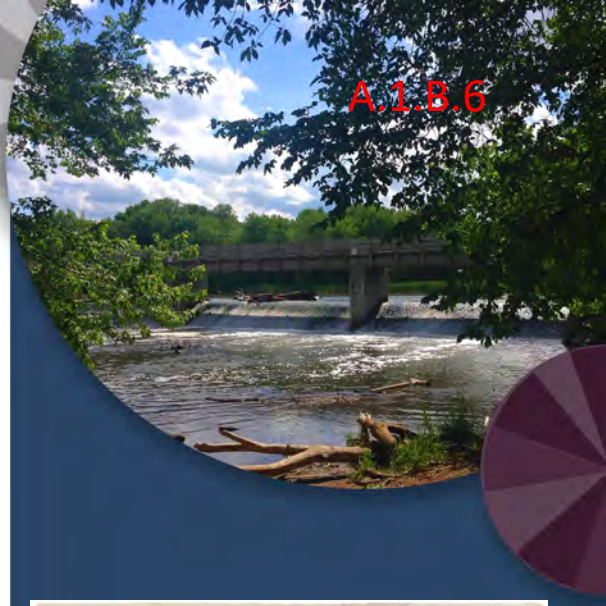
As part of the effort to replace those trees and in conjunction with our 60th anniversary celebration this year, the Village is excited to announce our inaugural ***Tree for All*** tree sapling giveaway. We have purchased 1,000 tree saplings for our residents to plant in their yards to help keep Channahon beautiful for another 60-plus years. There will be a variety of saplings to choose from, including:

- Black Hills Spruce
- Blue Spruce
- Eastern White Pine
- Redbud
- Red Maple
- Scarlet Oak
- Sugar Maple
- Tuliptree
- White Dogwood

These tree saplings were fully funded by fees paid for tree removal by Crow Holdings when they built the industrial building that is now home to Camso/Michelin. Village ordinance requires that when trees can't be replaced on a site after development, a payment must be made for the Village enabling us to plant trees elsewhere in the community.

The giveaway will be on a first come, first serve basis, with a limit of one sapling per resident. We do not yet have a firm arrival date for the saplings, so the exact date and time of the giveaway will be announced at a future date. Keep an eye on our social media pages and our website for more details!

Want to receive the Discover Channahon Newsletter sent directly to your email?
Visit www.channahon.org to sign up.



2021 PINK HEALS WALK

SAVE THE DATE!

Pink Heals, along with the Village of Channahon, is hosting its 7th Annual Mother's Day Walk to Father's Day on Sunday, June 20, 2021.

The walk will take place in-person, with the option to join virtually if you prefer. Please visit https://www.signmeup.com/site/reg/register.aspx?fid=M82VSG7 for more information and to register.

SPRING VILLAGE WIDE GARAGE SALES

The Village's Spring Garage Sales will take place April 29-May 1. Registration opens on Monday, April 5 at www.channahon.org and will close Thursday, April 22. Registration is not required, but it is encouraged so that your home can be included on the garage sale maps. Maps will be available for pickup on Thursday, April 29 at Village Hall, Three Rivers Library, Casey's General Store, Feed Loft, Mac's Country Market and www.channahon.org.

The Village encourages residents to take the following precautions for themselves and potential customers should you choose to participate in the garage sales:

- Display posters to remind customers about social distancing
- Place tables and chairs at least 6 feet apart
- Use tape to direct visitors through the sale
- Disinfect merchandise before putting it out for sale
- Clean tables and chairs throughout the day
- Supply hand sanitizer on tables and elsewhere for customers
- Wear masks and disposable gloves

For more information or questions, please contact the Village at 815-467-6644.

E-WASTE PICKUP WEEK OF MAY 17-21

As part of their service to the Village of Channahon, Environmental Recycling & Disposal offers residents a quarterly e-waste pickup and disposal service. The next quarterly e-waste pickup for the Village will take place the week of May 17-21. You must schedule your pickup at least 24 hours in advance of the pickup day. An additional fee of $35 per item will apply.

For more information or questions, please contact Environmental directly at 815-725-4555 or visit www.envrd.com/channahon.

Take a peek at these historic postcards of Channahon State Park! While the exact date of these postcards is unknown, they used to be available for purchase at Petrusa's Grocery Store, which opened in Channahon in 1947.

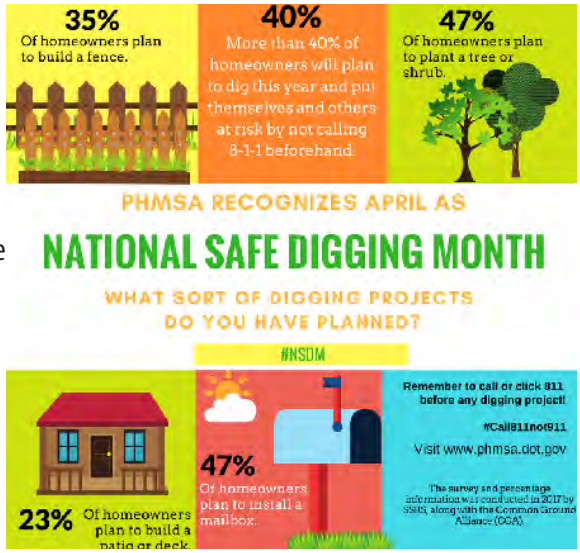
Special thanks to the Galloway family for sharing these postcards with us.

Do you have Channahon memories you'd like to share? Email them to 60thAnniversary@channahon.org

FOLLOW US

NATIONAL SAFE DIGGING MONTH

April is National Safe Digging Month! More than 40% of homeowners will plan to dig this year and put themselves and others at risk by not calling 8-1-1 beforehand. Follow these five steps for safe digging this year:



1. **NOTIFY:** Call 8-1-1 or make a request online two to three days before your work begins. The operator will notify the utilities affected by your project.
2. **WAIT:** Wait two to three days for affected utilities to respond to your request. They will send a locator to mark any underground utility lines.
3. **CONFIRM:** Confirm that all affected utilities have responded to your request by comparing the marks to the list of utilities the 8-1-1 call center notified.
4. **RESPECT:** Respect the markers provided by the affected utilities. The markers are your guide for the duration of your project.
5. **DIG CAREFULLY:** If you can't avoid digging near the markers, consider moving your project location.

CHANNAHON
"WHERE THE WATERS MEET"
ILLINOIS

UPCOMING COMMITTEE OF THE WHOLE & VILLAGE BOARD MEETINGS

Monday, April 5, 2021
6:00 p.m.

Monday, April 19, 2021
6:00 p.m.

Monday, May 3, 2021
6:00 p.m.

Monday, May 17, 2021
6:00 p.m.

CONTACT US

Village of Channahon
24555 S. Navajo Drive
Channahon, IL 60410

Phone: (815) 467-6644
Fax: (815) 467-9774

A.6.B.6

Used Paint Disposal Alternatives

•Keep Painting!

What better place to put that last pint or so of paint but right up there on the wall where it blends in perfectly with all the other paint you just put up there.

•Paint Something Else!

Use an old piece of cardboard, some scrap lumber, or the inside of your garage. Just about anywhere would probably work to use up that last bit of paint. Again, let the can dry and recycle or dispose of it.

•Use an Absorbent like Kitty Litter!

Kitty litter, sawdust, shredded paper or just about anything else that will absorb moisture and let the paint dry out should work here. You may be able to empty the can, dry it out, and recycle it.

•Give it to Someone!

Look around and you may find somebody who needs to paint a small area.

•Store it for Later!

For "touch-ups" , cover the opening with plastic wrap, and make sure the lid fits securely so the paint doesn't leak. Then turn the paint can upside down! This creates a tight seal, and keeps the paint fresh to use again.

A.6.B.6

Landscape Waste

There are many landscape waste disposal options:

- Leave grass clippings and leaves on the lawn as a nutrient.
- Mulch grass clippings, leaves, and wood chips for lawn and garden application.
- Take landscape waste to a permitted compost facility.
- Participate in community landscape waste collections.
- Construct an on-site, well maintained, household compost bin. Use the compost as a soil amendment.

Did you know that landscape waste has been banned from landfills since July l, 1990.

A.6.B.6

10 THINGS YOU CAN DO TO PREVENT STORM WATER RUNOFF POLLUTION

- Use fertilizers sparingly & sweep up driveways, sidewalks & gutters
- Never dump anything down storm drains or in streams
- Vegetate bare spots in your yard
- Compost your yard waste
- Use least toxic pesticides follow labels & learn how to prevent pest problems
- Direct downspouts away from paved surfaces; consider starting a rain garden
- Take your car to the car wash instead of using your driveway
- Check your car for leaks and recycle your motor oil
- Pick up after your pet
- Have your septic tank pumped & system inspected regularly

EPA UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Yard Waste Pickup

Place yard waste curbside in biodegradable bags or in the provided 95 gallon yard waste cart.

Branches, shrubbery cuttings & tree limbs

- **Tree limbs must be 4" or less in diameter**
- **Bundled - in 3' lengths**
- **Bundles - max of 2' in diameter**
- **Bundles - must be less than 50 lbs.**

Questions? Call 815-725-4555

Environmental
Recycling & Disposal

	Electronics & HHW 2 TV limit, 15 gal paint limit, 15 bulb limit – per vehicle	CHANNAHON For location information visit willgountygreen.com Residential Only *Appointment Required*	One Day May 15	8am- 3pm Saturday
	Book Reuse & Recycling All types of books hardcover, soft cover,magazine collections *Please keep educational books separate for charity*	Joliet Park District's Pilcher Park Nature Center 2501 Highland Park Joliet, IL 60432 Tentative Based on Covid Restrictions	3 Days June 4, 5 & 6 Tentative Based on Covid Restrictions	9am -4pm Friday Saturday Sunday Tentative Based on Covid Restrictions
	*Confidential Document Destruction SHRED EVENT* *Limit 3 boxes per vehicle*	St. Boniface Church –Lot 5304 Main Street Monee, IL 60449	One Day July 31	9am – 11am Saturday

VILLAGE OF
CHANNAHON
24555 S. NAVAJO DRIVE • CHANNAHON, ILLINOIS 60410
(815) 467-6644 • FAX (815) 467-9774 • www.channahon.org

ENVIRONMENTAL JUSTICE AREA

Name of Person filling out form: Donald Kinzler, P.E., CFM, Village of Channahon
Positon: Engineering Project Manager
Date: 05-26-21

Evaluation: *Municipality vs. State of Illinois*

The following information was taken from U.S. Census Bureau website:
https://www.census.gov/quickfacts/fact/table/IL,channahonvillageillinois/PST045219

Date of Census: July 1, 2019

	Illinois	Channahon
Minority Population		
Black or African American alone (%)	14.6	1.2
American Indian and Alaska Native alone (%)	0.6	0.2
Asian alone (%)	5.9	0.3
Native Hawaiian and Other Pacific Islander alone (%)	0.1	0.0
Two or More Races (%)	2.1	0.8
Hispanic or Latino (%)	17.5	10.6
Population Characteristics		
Foreign born persons (%) 2014-2018	14.1	3.0
Income & Poverty		
Median Household Income (in 2018 dollars), 2014-2018	$65,886	$91,897
Persons in poverty (%)	11.5	4.2

Municipal Separate Storm Sewer System (MS4)

Documents

- MS4 Stormwater Plan (PDF)
- Village of Channahon MS4 Notice of Intent 2021 (PDF)
- Environmental Justice Area Evaluation (PDF)

Annual Facility Inspection Report

- Most recent Inspection Report (PDF)
- 2020 NPDES MS4 Annual Report (PDF)
- View all archived Inspection Reports

Select Language

From: Sydney Thompson
To: Don Kinzler
Subject: Re: NPDES MS4 Permit Annual Report Data
Date: Monday, March 28, 2022 11:48:36 AM

Don,

See below for the stats that I pulled. **One thing to note:** the company that we use for our website, CivicPlus, changed website analytics providers about halfway through the year. As such, the website hits may be skewed slightly as there was an overlap between the previous and new providers.

Search Term	Website	Facebook (people reached)	Twitter (people reached)	Instagram (people reached)
Yard Waste Begins	976	13,733	804	715
Leaf Pickup	N/A	N/A	N/A	N/A
I&M Canal Cleanup	N/A	8,106	N/A	387
Electronic Waste Event	786	8,350	389	434
Household Hazardous Waste Drop Off Event	209	5,462	N/A	240
Water Quality Report	1,360	605	297	N/A
Christmas Tree Pickup	69	N/A	N/A	N/A
Newsletter	2,284	9,998	2,598	1,744
Downloads of VOC Annual Facility Inspection Report - 2018	83	N/A	N/A	N/A

From: Daryl Cole
To: Don Kinzler
Subject: RE: NPDES MS4 Permit Annual Report Data
Date: Thursday, April 14, 2022 1:33:40 PM
Attachments: image001.png

Before you bug out of here (Congrats on your Retirement) here is the information we have on our environmental programming. We were still limited to what programs we offered because of Covid restrictions.

The I & M Canal Clean-up had 107 people participate working 203 hours to clean up. We advertised the clean-up of the canal for two weeks.

We also had a couple of Eagle Scout projects that were environmentally related.

- One Scout created a butterfly garden at Arroyo Trails – An estimated 10 people who assisted her on the project.
- Another Eagle Scout built and installed bat houses at Community Park. 8 people assisted him with the project.

I you have any questions or need additional information, let me know.

Daryl R. Cole
Project Coordinator

Channahon Park District
24856 W Eames
Channahon, Illinois 60410
Office: 815-521-3103
Cell: 815-592-6409
Main Line: 815-467-7275
www.ChannahonPark.org

50th-Email-Signature-sq

From: Don Kinzler [mailto:dkinzler@channahon.org]
Sent: Tuesday, March 22, 2022 2:49 PM
To: Daryl Cole <dcole@channahonpark.org>
Cc: Mike Leonard <mleonard@channahonpark.org>
Subject: NPDES MS4 Permit Annual Report Data

Hi Daryl,

Hoping you can help me out again this year with data for the Village's IEPA MS4 (Municipal Separate Storm Sewer System) Permit annual report. The IEPA wants MS4 communities to quantify certain 'minimum control measures' and the data you provide is truly helpful and important.

I'm putting together this year's report and would appreciate if you could provide some attendance figures from park district activities which relate to keeping stormwater clean (and rivers) or educating the public about the environment. This would only be for events held within the **March 1, 2021 to February 28, 2022** reporting period.

Important information from the Park District could include, but is not limited to:

- Attendance figures at Recycle Days and/or I&M Canal or other river cleanups.
- Number of rain barrels sold; not even sure if you are still doing this.
- Electronic Sign data like last year is fine.
- Did you do a Spring Clean Your Parks Day?
- Was there anything else the park district was involved with like a river clean up, stormwater/environmental awareness, etc.?

As always, nothing has to be too exact. Names, addresses, sign in sheets and the like are not required. Just estimates on how many attended or how many sold, as applicable.

Thanks for your/the Park District's help Daryl. It is very useful and much appreciated.

Regards,

Don

CAUTION: This email originated from outside the organization. Do not click links or open attachments unless you recognize the sender and their email address and were expecting the content and know the content is safe.

C-1

Village of Channahon

Outfall Location Map

Legend

- Final Outfalls

N

W E

S

1:12,000

MAY 2018

SHOREWOOD

JOLIET

MINOOKA

CHANNAHON

ELWOOD

MORRIS

N

1:100,000

C.10

General Inquiry/Complaint Form

Please complete the online form below to submit your complaint.

Contact Information

Name:*

Address:*

City:*

State: * **Zip:***

Home Phone Number:*

Daytime Phone Number:

Email Address:*

Please Specify General Inquiry or Complaint*

* indicates required fields.

Submit Reset Cancel

Select Language

Stormwater Outfall Inspection Data Form

Section 1: Background Data

Subwatershed: Quarry	Outfall ID: 1	
Date: 8/2/21	Time (Military): 1440	
Temperature: 74 °F	Inspector(s): Matthew	
Previous 48 Hours Precipitation: 0	Photo's Taken (Y/N)	If yes, Photo Numbers:

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
Storm Sewer (Closed Pipe)	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Clay / draintile ☐ Other: _____	☐ Circular ☒ Elliptical ☐ Box ☐ Other: ____	☒ Single ☐ Double ☐ Triple ☐ Other:_____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
Open drainage (swale/ditch)	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	

Section 3: Physical Indicators

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe algea/growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Do physical indictors suggest an illicit discharge is present (Y/N):			

Flow Present?	☐ Yes	☒ No	**If No, Skip to Section 7 and Close Illicit Discharge Investigation**
Flow Description	☐ Trickle	☐ Moderate	☐ Substantial

Section 4: Physical Indicators (Flowing Outfalls Only)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Sulfide ☐ Petroleum/gas ☐ Laundry ☐ Other:	☐ 1–Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color (color chart)	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange/Red ☐ Multi-Color ☐ Other:	☐ 1–Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1–Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage ☐ Grease ☐ Petroleum (oil sheen) ☐ Suds and Foam ☐ Other:	☐ 1–Few/slight; origin not obvious	☐ 2 – Some; indications of origin	☐ 3 - Some; origin clear
Do physical indictors (flowing) suggest an illicit discharge is present (Y/N):					

Section 5: On-Site Sampling / Testing (Flowing Outfalls Only)

PARAMETER	RESULT	ACCEPTABLE RANGE	WITHIN RANGE (Y/N)	EQUIPMENT
Temperature		NA	NA	Thermometer
pH		6 – 9		5-in-1 Test Strip
Ammonia		<3 mg/L April – Oct < 8 mg/L Nov - March		Test Strip
Free Chlorine		NA	NA	5-in-1 Test Strip
Total Chlorine		< 0.05 mg/L		5-in-1 Test Strip
Phenols		< 0.1mg/L		Test Kit
Detergents as Surfactants		> 0.25 mg/L residential > 5 mg/L non-residential		Test Kit
Copper		<0.025 mg/L		Test Strip
Alkalinity		NA	NA	5-in-1 Test Strip
Hardness		NA	NA	5-in-1 Test Strip
Sample Location				

(Note NA values used for future tracing procedures)

Section 6: Data Collection for Lab Testing (see flow chart)

1. Sample for the lab?	☐ Yes	☐ No
2. If yes, collected from:	☐ Flow	☐ Pool

PARAMETER	RESULT (from lab)	ACCEPTABLE RANGE	WITHIN RANGE (Y/N)
Fecal Coliform		400 per 100 mL	
Flouride		0.6 mg/l	
Potassium		Ammonium/Potassium ratio or > 20mg/l	

*note label sample with outfall number

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Stormwater Outfall Inspection Data Form

Section 1: Background Data

Subwatershed: Quarry	Outfall ID: 2	
Date: 8/2/21	Time (Military): 1520	
Temperature: 74 °F	Inspector(s): Matthews	
Previous 48 Hours Precipitation: 0	Photo's Taken (Y/N)	If yes, Photo Numbers:

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
Storm Sewer (Closed Pipe)	☐ RCP ☐ CMP ☒ PVC ☐ HDPE ☐ Steel ☐ Clay / draintile ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: ____	☒ Single ☐ Double ☐ Triple ☐ Other:_____	Diameter/Dimensions: 12"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☒ No ☐ Partially ☐ Fully
Open drainage (swale/ditch)	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	

Section 3: Physical Indicators

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe algea/growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Do physical indictors suggest an illicit discharge is present (Y/N):			

Flow Present?	☐ Yes	☒ No	**If No, Skip to Section 7 and Close Illicit Discharge Investigation**
Flow Description	☐ Trickle	☐ Moderate	☐ Substantial

Section 4: Physical Indicators (Flowing Outfalls Only)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Sulfide ☐ Petroleum/gas ☐ Laundry ☐ Other:	☐ 1–Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color (color chart)	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange/Red ☐ Multi-Color ☐ Other:	☐ 1–Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1–Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage ☐ Grease ☐ Petroleum (oil sheen) ☐ Suds and Foam ☐ Other:	☐ 1–Few/slight; origin not obvious	☐ 2 – Some; indications of origin	☐ 3 - Some; origin clear
Do physical indictors (flowing) suggest an illicit discharge is present (Y/N):					

Section 5: On-Site Sampling / Testing (Flowing Outfalls Only)

PARAMETER	RESULT	ACCEPTABLE RANGE	WITHIN RANGE (Y/N)	EQUIPMENT
Temperature		NA	NA	Thermometer
pH		6 – 9		5-in-1 Test Strip
Ammonia		<3 mg/L April – Oct < 8 mg/L Nov - March		Test Strip
Free Chlorine		NA	NA	5-in-1 Test Strip
Total Chlorine		< 0.05 mg/L		5-in-1 Test Strip
Phenols		< 0.1mg/L		Test Kit
Detergents as Surfactants		> 0.25 mg/L residential > 5 mg/L non-residential		Test Kit
Copper		<0.025 mg/L		Test Strip
Alkalinity		NA	NA	5-in-1 Test Strip
Hardness		NA	NA	5-in-1 Test Strip
Sample Location				

(Note NA values used for future tracing procedures)

Section 6: Data Collection for Lab Testing (see flow chart)

1. Sample for the lab?	☐ Yes	☐ No
2. If yes, collected from:	☐ Flow	☐ Pool

PARAMETER	RESULT (from lab)	ACCEPTABLE RANGE	WITHIN RANGE (Y/N)
Fecal Coliform		400 per 100 mL	
Flouride		0.6 mg/l	
Potassium		Ammonium/Potassium ratio or > 20mg/l	

*note label sample with outfall number

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

Stormwater Outfall Inspection Data Form

Section 1: Background Data

Subwatershed: Quarry	Outfall ID: # 3	
Date: 8/2/21	Time (Military): 1450	
Temperature: 74 °F	Inspector(s): Matthew	
Previous 48 Hours Precipitation: 0	Photo's Taken (Y/N)	If yes, Photo Numbers:

Land Use in Drainage Area (Check all that apply):

- ☐ Industrial
- ☒ Residential
- ☐ Commercial
- ☐ Open Space
- ☐ Institutional
- Other: _____
- Known Industries: _____

Section 2: Outfall Description

LOCATION	MATERIAL	SHAPE		DIMENSIONS (IN.)	SUBMERGED
Storm Sewer (Closed Pipe)	☒ RCP ☐ CMP ☐ PVC ☐ HDPE ☐ Steel ☐ Clay / draintile ☐ Other: _____	☒ Circular ☐ Elliptical ☐ Box ☐ Other: ____	☒ Single ☐ Double ☐ Triple ☐ Other:_____	Diameter/Dimensions: 16"	In Water: ☒ No ☐ Partially ☐ Fully With Sediment: ☐ No ☒ Partially ☐ Fully
Open drainage (swale/ditch)	☐ Concrete ☐ Earthen ☐ rip-rap ☐ Other:	☐ Trapezoid ☐ Parabolic ☐ Other:		Depth: Top Width: Bottom Width:	

Section 3: Physical Indicators

INDICATOR	CHECK if Present	DESCRIPTION	COMMENTS
Outfall Damage	☐	☐ Spalling, Cracking or Chipping ☐ Peeling Paint ☐ Corrosion	
Deposits/Stains	☐	☐ Oily ☐ Flow Line ☐ Paint ☐ Other:	
Abnormal Vegetation	☐	☐ Excessive ☐ Inhibited	
Poor pool quality	☐	☐ Odors ☐ Colors ☐ Floatables ☐ Oil Sheen ☐ Suds ☐ Excessive Algae ☐ Other:	
Pipe algea/growth	☐	☐ Brown ☐ Orange ☐ Green ☐ Other:	
Do physical indictors suggest an illicit discharge is present (Y/N)			

Flow Present?	☒ Yes	☐ No	**If No, Skip to Section 7 and Close Illicit Discharge Investigation**
Flow Description	☒ Trickle	☐ Moderate	☐ Substantial

Section 4: Physical Indicators (Flowing Outfalls Only)

INDICATOR	CHECK if Present	DESCRIPTION	RELATIVE SEVERITY INDEX (1-3)		
Odor	☐	☐ Sewage ☐ Rancid/sour ☐ Sulfide ☐ Petroleum/gas ☐ Laundry ☐ Other:	☐ 1–Faint	☐ 2 – Easily detected	☐ 3 – Noticeable from a distance
Color (color chart)	☐	☐ Clear ☐ Brown ☐ Gray ☐ Yellow ☐ Green ☐ Orange/Red ☐ Multi-Color ☐ Other:	☐ 1–Faint colors in sample bottle	☐ 2 – Clearly visible in sample bottle	☐ 3 – Clearly visible in outfall flow
Turbidity	☐	See severity	☐ 1–Slight cloudiness	☐ 2 – Cloudy	☐ 3 – Opaque
Floatables -Does Not Include Trash!!	☐	☐ Sewage ☐ Grease ☐ Petroleum (oil sheen) ☐ Suds and Foam ☐ Other:	☐ 1–Few/slight; origin not obvious	☐ 2 – Some; indications of origin	☐ 3 - Some; origin clear
Do physical indictors (flowing) suggest an illicit discharge is present (Y/N):					

Section 5: On-Site Sampling / Testing (Flowing Outfalls Only)

PARAMETER	RESULT	ACCEPTABLE RANGE	WITHIN RANGE (Y/N)	EQUIPMENT
Temperature		NA	NA	Thermometer
pH		6 – 9		5-in-1 Test Strip
Ammonia		<3 mg/L April – Oct < 8 mg/L Nov - March		Test Strip
Free Chlorine		NA	NA	5-in-1 Test Strip
Total Chlorine		< 0.05 mg/L		5-in-1 Test Strip
Phenols		< 0.1mg/L		Test Kit
Detergents as Surfactants		> 0.25 mg/L residential > 5 mg/L non-residential		Test Kit
Copper		<0.025 mg/L		Test Strip
Alkalinity		NA	NA	5-in-1 Test Strip
Hardness		NA	NA	5-in-1 Test Strip
Sample Location				

(Note NA values used for future tracing procedures)

Section 6: Data Collection for Lab Testing (see flow chart)

1. Sample for the lab?	☐ Yes	☐ No
2. If yes, collected from:	☐ Flow	☐ Pool

PARAMETER	RESULT (from lab)	ACCEPTABLE RANGE	WITHIN RANGE (Y/N)
Fecal Coliform		400 per 100 mL	
Flouride		0.6 mg/l	
Potassium		Ammonium/Potassium ratio or > 20mg/l	

*note label sample with outfall number

Section 7: Any Non-Illicit Discharge Concerns (e.g., trash or needed infrastructure repairs)?

NONE

D.1,D.2,D.4,E.3,E.4

VILLAGE OF CHANNAHON

TO: **Alex Hasan, Yazour Group Systems, LLC; Mike Rogina, Rogina Engineers & Surveyors, LLC**

FROM: **Karen A. James, Planner**

CC: **Michael C. Petrick, Director of Community Development & Information Systems; Ed Dolezal, Director of Public Works; Donald Kinzler, Engineering Project Manager; Gabe Zavala, Engineering Technician**

DATE: **July 6, 2021**

SUBJECT: **Alliance Transportation & Logistic Services - Final Engineering Review 4**

The Village of Channahon has received the following:

- *Improvement Plans* prepared by Rogina Engineers & Surveyors, LLC, dated June 16, 2021
- *Plat of Easement* prepared by Rogina Engineers & Surveyors, LLC, dated June 16, 2021
- *Long-Term Maintenance & Operation Plan of Stormwater Drainage System* prepared by Rogina Engineers & Surveyors, LLC, dated June 16, 2021
- *Will County Health Department Permit No. 0N7470* dated June 18, 2021

The village considers *the IMPROVEMENT PLANS AND PLAT OF EASEMENT FOR ALLIANCE TRANSPORTATION & LOGISTICS SERVICES* in substantial conformance with Village engineering requirements. Please provide the following with Engineer and NPDES Inspector Certifications signed and/or stamped where applicable:

- Three (3) complete size final engineering plan sets;
- Three (3) 11x17 final engineering plan sets;
- One (1) electronic disc with:
  - Complete final engineering plan set in Adobe pdf format;
  - Complete Stormwater Management Plan with exhibits;
  - Complete CAD drawings.
- Plat of Easement, executed by engineer/surveyor and owner where necessary, with the addition of the below village approved Owner and Village Certificates, Authorization to Record, and Mail To statement.
- An Improvements Completion Guarantee is required for this work. The amount of the guarantee and acceptable templates are attached.

D.1,D.2,D.4,E.3,E.4

VILLAGE OF CHANNAHON

TO: **Lauren Downing, P.E., ARC Design Resources, Inc.**

FROM: **Karen A. James, Planner**

CC: **Michael C. Petrick, Director of Community Development & Information Systems; Ed Dolezal, Director of Public Works; Donald Kinzler, Engineering Project Manager**

DATE: **November 10, 2021**

SUBJECT: **Casey's General Store - Final Engineering Approval**

The Village of Channahon has reviewed the revised engineering documents with last revision date of November 9, 2021.

The village considers *SITE IMPROVEMENT PLANS FOR CASEY'S GENERAL STORE-CHANNAHON, IL* in substantial conformance with Village engineering requirements contingent upon receiving a copy of the approved IDOT permit. Please provide the following with Engineer and NPDES Inspector Certifications signed and/or stamped where applicable:

- Three (3) complete size final engineering plan sets;
- Three (3) 11x17 final engineering plan sets;
- One (1) electronic disc with:
  - Complete final engineering plan set in Adobe pdf format;
  - Complete Stormwater Management Plan with exhibits;
  - Complete CAD drawings.
- Plat of Easement and Plat of Vacation, each with all signatures except the Village's and the County Recorder, to the Village for recording
  - Prior to printing the plat for signatures, revise to include the "Mail To" Statement per review comments 16.8 and 17.16
  - One (1) full-size paper original
  - If the developer or engineer require a hard copy of the recorded plats, please provide such copies in addition to the above. A digital copy of the recorded plats can be provided by staff upon request;
- An Improvements Completion Guarantee in the amount of $1,156,255.00; Acceptable templates were previously provided via email;
- Cash in lieu of planting payment of $17,484.35 for removed preservation species;
- A pre-construction meeting is required prior to commencement of any earth disturbing activities.

D.1,D.2,D.4,E.3,E.4

VILLAGE OF CHANNAHON

TO: **Scott Pritchett, ARSA Schneider Architects; Brian Hertz, P.E., MG2A**

FROM: **Karen A. James, Planner**

CC: **Michael C. Petrick, Director of Community Development & Information Systems; Ed Dolezal, Director of Public Works; Donald Kinzler, Engineering Project Manager**

DATE: **November 16, 2021**

SUBJECT: **WashCove Express Car Wash – Final Engineering**

The Village of Channahon has reviewed the revised engineering documents with last revision date of October 26, 2021.

The village considers *SITE IMPROVEMENT PLANS FOR WASHCOVE EXPRESS CAR WASH* in substantial conformance with Village engineering requirements contingent upon correction of review comments 1.9 and 7.2 below. Please provide the following with Engineer and NPDES Inspector Certifications signed and/or stamped where applicable:

- Two (2) complete size final engineering plan sets;
- Three (3) 11x17 final engineering plan sets;
- One (1) electronic disc with:
  - Complete final engineering plan set in Adobe pdf format;
  - Complete Stormwater Management Plan with exhibits;
  - Complete CAD drawings.
- Copies of NOI and executed ILR10 Permit;
- Fully signed IEPA sanitary construction permit applications for Village signature;
- Executed IEPA sanitary construction permit;
- Improvements Completion Guarantee in the amount of $75,900, Village approved acceptable templates are attached;
- A pre-construction meeting and receipt of all items by the village are required prior to commencement of any earth disturbing activities. All contractors are required to be registered with the village.

Outstanding Review Comments

1.9 There are duplicate, and non-matching, recorded distances and bearings for property lines on all plan sheets.

7.2 Include a spot grade on the newly proposed bike rack concrete pad.

From: Gabriel
To: Janice Johnson
Cc: dkinzler@channahon.org
Subject: RE: Storm sewers
Date: Tuesday, March 2, 2021 4:30:02 PM

Good Afternoon Mrs. Johnson. I will stop by tomorrow around 2:00 PM. I will give your husband a call before I head out.

Thank You,

Gabriel Zavala
Village of Channahon

Sent from Mail for Windows 10

From: Janice Johnson
Sent: Tuesday, March 2, 2021 4:15 PM
To: gzavala@channahon.org
Cc: dkinzler@channahon.org
Subject: Storm sewers

I have spoken with both of you this past year regarding the possibility of getting storm sewers on Leslie Drive in The Highlands. I took some photos of standing water over the weekend, and am sending them to you five at a time and hoping that one or both of you can stop
By tomorrow (my husband is off tomorrow) and look around since the thaw will start again. Our address
Is 26234 Leslie Dr, white two-story with wagon wheel and wooden flag on the front of the house—our phone is 815/521-0126–he will be home all day, and we hope you can help do something since village did put them in last year for the houses behind us.
Many thanks,

Janice and Allen Johnson

From: Don Kinzler
To: Christine Crockett Johnson
Bcc: Jeff Barrett
Subject: RE: Drainage on canal side of Blackberry
Date: Thursday, March 4, 2021 9:28:04 AM

Christine,

Public Works cleaned and graded both crossing outlets on the canal side to the canal. I see no significant blockage of either outfall from the canal side at this time. The water level at the outlets today is equalized ponding from the canal.

Regards,

Don

From: Christine Crockett Johnson <crockett4081@msn.com>
Sent: Tuesday, February 16, 2021 11:34 AM
To: Don Kinzler <dkinzler@channahon.org>
Subject: Drainage on canal side of Blackberry

Don,
Hope all is well with you and your family. Wanted to touch base with you on a matter I know that we had previously mentioned; the need of drainage improvements on canal side of Blackberry, on the part of the Village. With all this snow, and inevitably spring rains, eventually my concern is as follows:

Public works cleaned out the end of the south pipe crossing on the canal side of the road. The problem is that the ditch bottom is higher than the pipe outlet all the way to the canal finger that drains on our property. The result is that that south pipe, and to some extent the north pipe, can only flow half of their intended volume. This is and will continue to be drainage bottleneck until it's corrected.

Please let me know any thoughts/plans you or the Village may have concerning this matter.

Thank you! Stay warm!

Chrissy Johnson
815-922-7187

D.5,F.2,F.5

Public Works Department Work Order

Work Order No.	**8292**
Date	12/16/2021
Requested by	Bette, J
Assigned to	Choate, S
Assigned to	Kratochvil, C
To Be Completed By	
Division	Streets
JULIE #	
Request	Vac/Jet at corner of S Edwin Dr and S Egret Dr and also at W Peak Dr and S Edwin Dr.
Work Performed	Completed.
Date complete	12/15/2021
Completed by	Serdar,Matt
Completed by	Stobaugh,E

D.5,F.2,F.5

Public Utility Viewer

8/5/2021, 3:07:15 PM

- Drain Tile
- Pipe
- End
- Inlet
- Dry Well
- Catch Basin
- Manhole
- Dry Well
- Outlet Control Structure
- Storm Missing Structure

Work order
VAC/Jet
15-Dec-2021
Complete
Matt Berdan
Eric Stegall

Done

D.5,F.2,F.5

Public Works Department Work Order

Work Order No.	**8278**
Date	11/29/2021
Requested by	Bette, J
Assigned to	Choate, S
Assigned to	
To Be Completed By	
Division	Streets
JULIE #	
Request	Resident called because of water flowing over sidewalk 26856 Kimberly Ln. Phillip LouVon 815-382-9053.
Work Performed	Resident's drainage pipe was plugged.
Date complete	11/29/2021
Completed by	Choate, S
Completed by	

D.5,F.2,F.5

Public Works Department Work Order

Work Order No.	**8268**
Date	10/28/2021
Requested by	Reiter, S
Assigned to	Choate, S
Assigned to	Kratochvil, C
To Be Completed By	
Division	Streets
JULIE #	
Request	Please inspect the dentention pond behind 26039 Highland. The resident believes there nmay be a critter blocking the restrictor which is causing flooding. Kay 815-467-6737
Work Performed	INSPECT STORM SEWER AS WELL AS RETENTION POND AND FOUND NO OBSTRUCTIONS IN SURROUNDING AREA
Date complete	10/29/2021
Completed by	Gordon
Completed by	

D.5,F.2,F.5

Public Works Department Work Order

Work Order No.	**8262**
Date	10/19/2021
Requested by	Bette, J
Assigned to	Choate, S
Assigned to	Kratochvil, C
To Be Completed By	
Division	Streets
JULIE #	
Request	Storm Sewer repair at 26254 Erin Isle 26163 S Bell Rd 24337 Edwin Dr 23001 Francis Way 22730 Park Place
Work Performed	Done All Addresses
Date complete	12/14/21
Completed by	Gordon
Completed by	

ENTERED

D.5,F.2,F.5

Public Works Department Work Order

Work Order No.	**8255**
Date	10/13/2021
Requested by	Barrett, J
Assigned to	Choate, S
Assigned to	Kratochvil, C
To Be Completed By	
Division	Streets
JULIE #	
Request	Please check drain in backyard at 26147 Highland.
Work Performed	UNCLOGGED RESTRICTOR RECHECKED ONE HOUR LATER FOR FLOW GOOD TO GO
Date complete	10/14/21
Completed by	GORDON
Completed by	MATT S.

E.6

Channahon DNJ

Punchlist for Acceptance - Steps 1-4

April 28, 2021

#	ITEM	STEP	ID/LOCATION	STREET	DEFICIENCY AND CORRECTION
1	Storm Sewer	1	MH 54		No bench in this structure. Concrete bench should be poured per details shown in the plans.
2	Water Main	1	VV 1		Neenah lid on structure. Replace with approved East Jordan lid stamped "Channahon" per detail.
3	Water Main	1	FH 1		Auxilary valve box isn't plumb. Straighten and plumb valve box, make sure valve is keyable.
4	Water Main	1	VB 2		Remove marking post from this valve box.
5	Water Main	1	VV Existing		This valve vault was buried with DNJ grading and restoration. Raise the vault using a barrel section. See attached exhibit for location.
6	Water Main	1	FH Existing		This fire hydrant's auxillary box was buried, and the fire hydrant partially buried, with DNJ grading and restoration. Raise the hyrant and auxillary box. See attached exhibit for location.
7	Water Main	1	FH Existing		This fire hydrant's auxillary box was buried, and the fire hydrant partially buried, with DNJ grading and restoration. Raise the hyrant and auxillary box. See attached exhibit for location.
8	Water Main	1	FH Existing		This fire hydrant's auxillary box was buried, and the fire hydrant partially buried, with DNJ grading and restoration. Raise the hyrant and auxillary box. See attached exhibit for location.
9	Topsoil, seed, & blanket restoration	4	Total Project	All turf areas	The expectation for turf area restoration is 70% coverage by the specified seed mix in a given location, and that the proper amount (depth) of topsoil has been installed with no cobble stones present. It is the responsibility of the developer and GC to ensure 70% germination rate is achieved.

E.6

Channahon Roadway Improvements for Exchange Blvd

Punchlist for Acceptance - Steps 1-4

November 9, 2021

#	ITEM	STEP	ID/LOCATION	STREET	DEFICIENCY AND CORRECTION
1	Curb and Gutter	2	Sta 55+20	Exchange Blvd	Remove and replace damamged curb and gutter near Sta 55+20 SB. This section of curb and gutter has been damaged by equipment driving over it for granding and landscaping work.
2	Curb and Gutter	2	Total site	Exchange Blvd	Some concrete build up remains from where wash out areas were set up. Remove concrete wash out build up from curb and gutter to ensure proper water conveyance.
3	Street Lighting	3	Roadway	Exchange Blvd	Street lights are on 24 hours a day. Set up timer as specified for all street lights.
4	Material stock piles	4	West of detention pond	Exchange Blvd	A topsoil stockpile and structural fill stockpile both remain on site. This material will have to be used up during final restoration or removed from the job site unless other arrangements have been made with the Village. If these stockpiles are going to remain, proper erosion and sediment control devices will have to be installed and maintained.

MEMO

TO: **Chad Bruner, Love's**

FROM: **Donald Kinzler, Engineering Project Manager**

CC: **Roger Patterson, Loves; Lauren Alvarado, CESO; Ed Dolezal, VOC; Mike Petrick, VOC; Karen James, VOC; Steve VanDeveer, Thomas Engineering; Tony Spinelli, Strand Associates**

DATE: **January 11, 2022**

SUBJECT: **Love's Travel Stop – Comprehensive Punch List**

Please contact Steve VanDeveer of Thomas Engineering to inspect corrected improvements. Provide updated record drawings Sheets C5.1, C5.5, C5.6 and C5.9 in pdf and CAD format

Punch List Items - Site

1. The south section of the west detention is not constructed as proposed with various discrepancies resulting in steeper slopes and possible non-containment of the approved stormwater volume and/or overtopping occurring somewhere other than the concrete overflow weir:
    a. The south side top-of-berm is wider than proposed which would cause steeper side slopes. Regrade to proposed design, restore landscaping per plan, and provide updated record drawings.
    b. An asbuilt 571 elevation does not extend to the emergency overflow weir per plan, overtopping could occur anywhere northeast of the designated weir. Regrade to proposed design, restore landscaping per plan, and provide updated record drawings.
    c. An asbuilt 571 elevation does not extend to the southwest end of the basin to the west side of the designated overflow weir, overtopping could occur in this area instead of at the weir. Regrade to proposed design, restore landscaping per plan, and provide updated record drawings.
    d. The southeast side slope from the sign pole is not correct. Regrade to proposed design bringing the 568 elevation nearer to the pole base, restore landscaping per plan, and provide updated record drawings.
2. Landscaping corrections per previously provided Loves Landscape Punch List Markup, DRK_07-29-21. Attached again here.

Punch List Items – Bluff Road Improvements

1. Reapply all pavement markings.

MEMO

TO: **Tom Carroll, P.E., Geotech Inc**

FROM: **Donald Kinzler, Engineering Project Manager**

CC: **Anthony Spinelli, Strand Associates, Inc**

DATE: **May 7, 2021, REV 01-11-22**

SUBJECT: **Peninsula Ph.1 & Dollar General - Record Drawing Review 1**

The Village of Channahon has received the following:

- *Peninsula Phase 1 and Dollar General* Record Drawings prepared by Geotech Inc., dated January 28, 2021.

Please direct the applicant to provide a written response to these comments (including VOC comments) and (2) two copies of full-size site plans as well as all other materials submitted for review with an identical submittal to Tony Spinelli, P.E. at Strand Associates, Inc.

Based upon Public Work's review of the submitted materials, we offer the following comments:

1. **Grading Plan - Sheet 4**
   - 1.1 Provide as-built elevations for the BERM - NORTH LINE cross-section.
   - 1.2 Provide as-built elevations for the DETENTION BASIN cross-section.
2. **Utility Plan - Sheet 5**
   - 2.1 Provide as-built elevations in the utility conflicts table. Watermain can be considered to have been constructed per design.
   - 2.2 Provide as-built information with proposed data for Notes 4, 9, 11, 12, 13, 15, 16 and 19. (THIS COMMENT ADDED VIA 1-11-22 EMAIL)
3. **Peninsula Dr. Plan and Profile - Sheet 6**
   - 3.1 Provide as-built information for all structures and piping which list proposed elevations and pipe information.
   - 3.2 Provide as-built vertical curve information in the profile viewport.
4. **Construction Details - 2 - Sheet 11**
   - 4.1 Provide as-built information for the DETENTION BASIN OVERFLOW WEIR detail.
   - 4.2 Provide as-built information for the RESTRICTOR MANHOLE detail.

F.1

Certificate of Attendance

This certifies that:

Karen James

Attended the

"Green Infrastructure Maintenance: It Can be Successful!" Webinar

January 13, 2022

1 Professional Development Hour

Sponsored by:
The Conservation Foundation
&
DuPage County Stormwater Management

Janice Roehll

Signature

10s 404 Knoch Knolls Road
Naperville, Illinois, 60565
p (630) 428-4500

VILLAGE OF CHANNAHON
24555 S. NAVAJO DR.
CHANNAHON, IL 60410
PHONE(815) 467-6644
FAX:
WWW.CHANNAHON.ORG

PO # 21-1039 F.2

VENDOR CODE: BRIESERCON
POST DATE: 03/23/2021
ORDERED BY: JBARRETT
PO TYPE: REGULAR
PO NUMBER: 21-1039

VENDOR:

BRIESER CONSTRUCTION COMPANY
24101 S MUNICIPAL DR
CHANNAHON, IL 60410

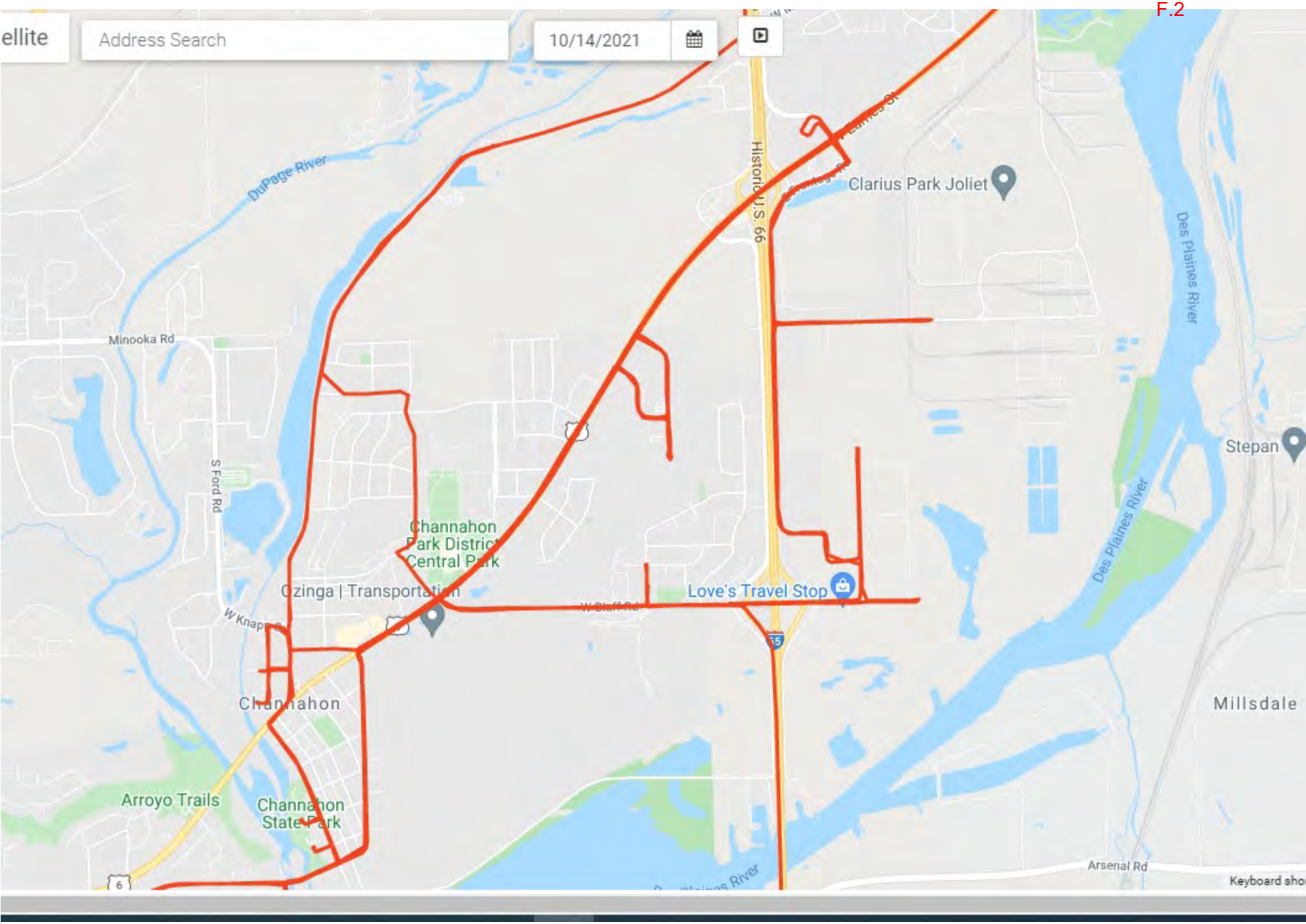
SHIP TO:

VILLAGE OF CHANNAHON
PUBLIC WORKS
26156 BLACKBERRY LANE
CHANNAHON, IL 60410

QUANTITY	LINE ITEM DESCRIPTION & GL DISTRIBUTION	UNIT PRICE	TOTAL AMOUNT
1	CLEAN STORM MANHOLES & PIPING ON BUNGALO 01-53-538.000	5,730.00	5,730.00

Total: $5,730.00

STREET SWEEPING ROUTE ON 10/14/2021



From: Don Kinzler
To: "Stephen Kuczkowski"
Subject: RE: 25516 W Cherry St. Bridge St. permit app.
Date: Tuesday, December 7, 2021 3:02:00 PM

Steve,

Review of the Elevation Certificate.

- A7 indicates a Build Diagram Number 1A, but a diagram is not provided.
- B9. The BFE shown on the Elevation Certificate appears to be accurate based on comparison with the applicable FIRM panel.
- C1. They checked Building Under Construction, so I assume the Elevation Certificate is for a proposed building.
- C2.a) The lowest floor elevation is 0.3 ft below the BFE and 1.3 ft below the FPE (BFE + 1 ft).

Associated VOC ordinance associated with building construction in floodplain:

- These comments assume a "new" building is being constructed. Somewhere below they indicate they are replacing an existing structure, but I don't see anything but small shed looking back on Google Earth.
- 153.48 (B). If fill is being placed to bring the lowest floor to the FPE or higher, they'll need a LOMR from FEMA.
- 153.48 (C) and 153.76. If any portion of floodplain is filled below the BFE, or where portions of a building are constructed below the BFE, compensatory storage at 1.5 times the volume of storage lost to fill or structure must be provided.
- 153.72. Defines what is required to be provided for a Building Permit in a floodplain.
- 153.72. In regards to site engineering plans, at minimum we would need an existing conditions sheet with property boundaries, 1 ft contours extending at least 25 ft beyond property, the BFE on the property, the creek, etc., and a proposed conditions sheet with building and proposed topography tied into existing contours, and the BFE.
- 153.85 – 153.88, PERMIT REQUIREMENTS APPLICABLE TO ALL FLOOD PLAIN AREAS also apply.
- 153.88, PROTECTING BUILDINGS.
    - **(A) If lowest floor is below the FPE, they must protect the building from flood damage up to the FPE.**
    - (B)(1) If placed on fill, the lowest floor has to be at or above the FPE; compensatory storage will apply.
    - **(C)(3) Areas below the FPE must be constructed of flood damage resistant materials** with utilities above FPE.
    - (C)(4) They can't store "items or materials" below the FPE.
    - **(D)(1) Nonresidential buildings can be dry floodproofed in lieu of elevation, but require certification by a P.E.**

    - (D)(2) Discusses construction of “tool sheds” and “detached garages” on “existing single family platted lot,” but requires waterproof materials; anchored; less than 500 sf; value less than $5000; can store only vehicles or tools.
- There is more, but those are some highlights.

Regards,

Don

From: Stephen Kuczkowski <skuczkowski@channahon.org>
Sent: Tuesday, December 7, 2021 1:04 PM
To: Don Kinzler <dkinzler@channahon.org>
Subject: Fwd: 25516 W Cherry St. Bridge St. permit app.

for review

---------- Forwarded message ---------
From: **bob concannon** <bigbob8610@gmail.com>
Date: Tue, Dec 7, 2021 at 12:09 PM
Subject: Re: 25516 W Cherry St. Bridge St. permit app.
To: Stephen Kuczkowski <skuczkowski@channahon.org>

Here you go. How soon can I proceed or pick up permit ?

much appreciated

On Tue, Nov 30, 2021 at 7:26 AM Stephen Kuczkowski <skuczkowski@channahon.org> wrote:

> Bob, We need that final base flood certificate. Once that is here the village engineer will review, Steve
>
> On Mon, Nov 29, 2021 at 3:39 PM bob concannon <bigbob8610@gmail.com> wrote:
>
> > Steve
> > I have been working with Daniel and Mary Jane in regards to obtaining a permit for an out building on my residence that I purchased back in May of this year. I am replacing a previous structure that was in disrepair. I am enlarging the structure footprint. That being said, I have paid all fees and have provided all paperwork up to date. I believe, the last remaining document is a base flood cert. I have secured the original surveyor/engineer and should have that document this week. I sent over the paid invoice to Daniel. Im am a superintendent for a construction firm and I do travel, My work schedule only allows me to work on the weekends on the structure, it's been on hold until the permit is issued. I have this week off utilizing my last week of vacation time. I'm asking, with all the documents submitted and the base flood cert pending this week, can I move forward at the owner's risk to at least get the structure under

> roof before freezing weather and/or snow prevents me. I have over 5K work of lumber materials sitting under plastic. I am self performing all the work.
>
> much appreciated

--

Stephen Kuczkowski

Chief Building Official

skuczkowski@channahon.org | **P** 815.467.6644 | **F** 815.467.9774
Village of Channahon | www.channahon.org
24555 S. Navajo Drive, Channahon, IL 60410

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Stephen Kuczkowski

Chief Building Official

skuczkowski@channahon.org | **P** 815.467.6644 | **F** 815.467.9774
Village of Channahon | www.channahon.org
24555 S. Navajo Drive, Channahon, IL 60410

From: Don Kinzler
To: Daniel Grosse
Subject: NPDES ILR10 Permits
Date: Tuesday, January 11, 2022 3:38:00 PM
Attachments: 19-513 notice-intent-construction-CTC U2A-3 Channahon.pdf
E161t-NPDES PERMIT-Project Tarpon, Infrastructure, Bldg B MG.pdf

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Dan,

Just for your knowledge. The developer submits a Notice of Intent (NOI) to the IEPA to obtain an NPDES ILR10 Permit to Discharge Storm Water Associated with Construction Site Activities. I attached the one for Town Center U-2A&3. NPDES = National Pollutant Discharge Elimination System.

The IEPA will issue the NPDES ILR10 permit allowing the site to go under land disturbing construction, i.e. grading, grubbing, etc. I attached one for Venture One Bld B Mass Grading. ILR10 is the beginning of all permit numbers, then they add letters and numbers specific to the project. An NPDES ILR10 permit is required for all development on 1 or more acres.

I have both of these for TC U-4, but not scanned.

Regards,

Don

F.6

Invoice

Lower DuPage River Watershed Coalition

10S404 Knoch Knolls Road
Naperville, IL 60565

Date	Invoice #
6/18/2021	207

Bill To
Village of Channahon 24555 S. Navajo Drive Channahon, IL 60410

Description	Amount
Agency Membership Dues Mar. 1, 2021 - Feb. 28, 2022	2,648.00
	Total $2,648.00

AGENCY MEMBERSHIP PROFILE

Agency Name: Village of Channahon
Address: 24555 S. Navajo Drive
City, Zip: Channahon, IL 60410 County: Will
Phone: 815-467-6644 Website: www.channahon.org
Chief Executive: Title: Engineering Project Manager

If your Agency operates a wastewater treatment plant, please provide the following information for each facility:

NPDES Permit #:
Receiving Stream:
Design Average Flow:
Expiration Date:

NPDES Permit #:
Receiving Stream:
Design Average Flow:
Expiration Date:

Organization contacts for trainings & outreach (if applicable):

Winter Deicing Supervisor: Jeff Barrett Email: jbarrett@channahon.org
Outreach/Communications: Don Kinzler Email: dkinzler@channahon.org
MS4 Reporting: Don Kinzler Email: dkinzler@channahon.org

DESIGNATED REPRESENTATIVE:

Name: Don Kinzler
Title: Engineering Project Manager
Direct Line:
Email: dkinzler@channahon.org

ALTERNATE REPRESENTATIVE:

Name: Ed Dolezal
Title: Director of Public Works
Direct Line:
Email: edolezal@channahon.org

The Designated Representative is authorized to vote at LDRWC meetings on the agency's behalf and the Alternate Representative is authorized to vote in the absence of the Designated Representative.

Signature _____ Title Engineering Project Manager Date 06-28-21
(digital signature OK)

Please complete this Member Information Profile and email to ncinatl@theconservationfoundation.org

Please direct questions to Jennifer Hammer, Director of Watershed Programs
jhammer@theconservationfoundation.org or 630-428-4500 x114.

Melanie Arnold

From: Don Kinzler <dkinzler@channahon.org> on behalf of Don Kinzler
Sent: Tuesday, May 12, 2020 11:35 AM
To: Melanie Arnold
Subject: Channahon MS4

Hi Melonie,

Ed Dolezal, P.E., Director of Public Works, is the District 6 Municipal Representative for the Will County Stormwater Management Planning Committee.

Regards,

Don

Lower DuPage River Watershed Coalition ILR40 Activities
March 2021 – February 2022

PART I. COVERAGE UNDER GENRAL PERMITS ILR40

Not applicable to the work of the LDRWC.

PART II. NOTICE OF INTENT (NOI) REQUIREMENTS

Not applicable to the work of the LDRWC.

PART III. SPECIAL CONDITIONS

Not applicable to the work of the LDRWC.

PART IV. STORM WATER MANAGEMENT PROGRAMS

A. Requirements

Not applicable to the work of the LDRWC.

B. Minimum Control Measure

1. Public Education and Outreach on Stormwater Impacts

LDRWC outreach activities for 2021-2022 included:

- A new joint website for the LDRWC and Lower Des Plaines Watershed Group was created with more information for the general public on local water quality issues and what they can do to help, as well as more information on the monitoring program, outreach program, and NARP. The new URL is www.LDPWatersheds.org
- Watershed Outreach materials were developed and shared with member throughout the year. The "Outreach Materials" page on the website includes all past and present watershed outreach materials for download. Materials are now organized by topic instead of season on the new website to make it easier to see what is available. Materials for each topic include text for websites, newsletters, posters, blogs and social media posts. The new website has a blog page with blogs for all of the topics that members can link to. The blog page also provides a place for site visitors to find information. Examples of materials created are attached at end of report. For the winter season www.SaltSmart.org website is also used as a clearinghouse of winter BMPs for residents, public agencies and private deicing companies. This website has provided a wider reach beyond the Lower DuPage River watershed, LDRWC is an active partner in the Salt Smart Collaborative.

  Seasonal outreach topics:
  - Spring – Rain Gardens, Garden Refresh, Freshwater Mussels
  - Summer – River Responsible, Pet Waste
  - Fall – Proper leaf collection/disposal, Where do the leaves go?

- Winter – SaltSmart – Winter Snow & Ice Management BMPs, Lose the Crunch-Love the Lines Anti-Icing, Winter Helpers Comic

LDRWC also maintains a Facebook page and posts all materials developed so that communities can just share the posts if that is easier. https://www.facebook.com/lowerdupageriverwc

2. Public Involvement and Participation – Due to the Coronavirus pandemic restrictions the LDRWC did not attend any in-person events. LDRWC did work with members to provide resources on setting up rain barrel sales program and materials to encourage residents to install rain barrels and rain gardens to help minimize stormwater runoff from residential properties.

The LDWG and Lower DuPage River Watershed Coalition worked with The Conservation Foundation on a Pet Waste Campaign, funded through a grant from Illinois American Water. Over 50 signs and 10 poop bag dispensers were distributed to communities, park districts and homeowner's associations across the two watershed areas. Social media, messaging and other digital materials were made available through the outreach page on the website.

Figure 1. Pet Waste Signs & Dispenser

3. Illicit Discharge Detection and Elimination – no activities

4. Construction Site Storm Water Runoff Control - no activities

5. Post-Construction Stormwater Management in New Development and Redevelopment - no activities

6. Pollution Prevention/Good Housekeeping for Municipal Operations

Chloride Reduction Workshops

In 2021 the LDRWC partnered with Lower Des Plaines Watershed Group, DRSCW, The Conservation Foundation and Lake County Stormwater/Health Department to jointly offer five

Winter Deicing Workshops, three on Public Roads and two on Parking Lots and Sidewalks. Due to precautions necessitated by the Coronavirus pandemic, the trainings were held in a virtual format. Registration was widely advertised throughout northeastern Illinois. Accordingly, the webinars were attended by staff in DuPage, Will, Kane, Kendall, Lake, McHenry, Boone, Lee, Cook and Winnebago counties. Additionally, three technical webinar briefs were held.

Figure 2. Deicing Workshops Registration Form, 2021.

Public Roads Deicing Workshops were held on September 30, October 5 and October 12, 2021. Fortin Consulting, Inc. from Minnesota was engaged to present the material. A registration fee was required per agency in order to participate in the training. The links were sharable so the webinars could be viewed individually or in groups. Based on polling results, a minimum of 743 people participated in the three workshops. The Parking Lots and Sidewalks Deicing Workshop were held on September 28 and October 7 with Fortin Consulting, Inc. presenting. Based on polling results a minimum of 196 people participated in the two workshops. Certificates of attendance were provided to those who requested them. Evaluation surveys were sent to the persons who logging in to the webinars. A link to the *Minnesota Pollution Control Agency Winter Parking Lot & Sidewalk Maintenance Manual* was provided to each registrant. Questions from participants were entered into the chat and answered by Fortin Consulting staff, Workgroup staff as well as others participating in the training.

Figure 3. Welcome & Introduction to Parking Lots & Sidewalks Presentation, 2021.

To complement the Winter Deicing Workshops, the Winter Technical Briefs – Mini-Webinar Series was presented to focus on specific issues. Topics in 2022 included: November 16 – Liquids for Snow & Ice Control (13 agencies attended) , November 30 – Snow & Ice Communications with your Residents (14 agencies attended), and December 7 – Reducing Chloride Emissions: The Boost & Reduce Method (11 agencies attended). These webinars are posted at www.saltsmart.org .

Figure 4. Winter Technical Briefs, 2021.

Qualifying State, Country or Local Program
Not applicable to the work of the LDRWC.

C. Sharing Responsibility

This report outlines the activities conducted by the LDRWC on behalf of its' members related to the implementation of the ILR40 permit. It is the responsibility of the individual ILR40 permit holders to utilize this information to fulfill the reporting requirements outlined in Part V.C. of the permit.

D. Reviewing and Updating Stormwater Management Programs

Not applicable to the work of the LDRWC.

PART V. MONITORING, RECORDKEEPING, AND REPORTING

A. Monitoring

The ILR40 permit states that permit holders "must develop and implement a monitoring and assessment program to evaluate the effectiveness of the BMPs being implemented to reduce pollutant loadings and water quality impacts". The LDRWC monitoring program meets the following monitoring objectives and requirements outlined in the permit:

- Measuring pollutants over time (Part V. A. 2. b. ii)
- Sediment monitoring (Part V. A. 2. b. iii)

- Assessing physical and habitat characteristics such as stream bank erosion caused by storm water discharges ((Part V. A. 2. b. vi)
- Collaborative watershed-scape monitoring (Part V. A. 2. b. x)
- Ambient monitoring of total suspended solids, total nitrogen, total phosphorus, fecal coliform, chlorides, and oil and grease (Part V. A. 2. c.)

BIOASSESSMENT

Overview and Sampling Plan

A biological and water quality survey, is an interdisciplinary monitoring effort coordinated on a waterbody specific or watershed scale. This may involve a relatively simple setting focusing on one or two small streams, one or two principal stressors, and a handful of sampling sites or a much more complex effort including entire drainage basins, multiple and overlapping stressors, and tens of sites. The LDRWC bioassessment is the latter. The LDRWC bioassessment program began in 2012 with sampling 26 stations in the Lower DuPage River watershed. In 2015 an additional 15 stations were added for a total of 41 stations monitored. Forty-one stations were sampled in the summer of 2018 and 2021. The bioassessment program functions under a quality assurance plan agreed on with the Illinois Environmental Protection Agency.

The LDRWC bioassessment program utilizes standardized biological, chemical, and physical monitoring and assessment techniques employed to meet three major objectives:

1) determine the extent to which biological assemblages are impaired (using IEPA guidelines);
2) determine the categorical stressors and sources that are associated with those impairments; and,
3) add to the broader databases for the DuPage River watershed to track and understand changes through time in response to abatement actions or other influences.

The data collects as part of the bioassessment is processed, evaluated, and synthesized as a biological and water quality assessment of aquatic life use status. The assessments are directly comparable to previously conducted bioassessments such that trends in status can be examined and causes and sources of impairment can be confirmed, amended, or removed. A final report containing a summary of major findings and recommendations for future monitoring, follow-up investigations, and any immediate actions that are needed to resolve readily diagnosed impairments is prepared following each bioassessment. The bioassessment reports are posted on the LDRWC at https://ldpwatersheds.org/about-us/lower-dupage-river-watershed-coalition/our-work/reports-resources/ It is not the role of the bioassessments to identify specific remedial actions on a site specific or watershed basis. However, the baseline data provided by the bioassessments contributes to the Integrated Priority System that was developed by the DuPage River Salt Creek Workgroup to help determine and prioritize remedial projects and is now being updated to incorporate Lower DuPage River watershed data. A final draft of the IPS model

update was completed in 2020 and is being utilized to identify and design restoration projects aimed at improving aquatic life scores.

Sampling sites for the bioassessment were determined systematically using a geometric design supplemented by the bracketing of features likely to exude an influence over stream resource quality, such as CSOs, dams and wastewater outfalls. The geometric site selection process starts at the downstream terminus or "pour point" of the watershed (Level 1 site), then continues by deriving each subsequent "panel" at descending intervals of one-half the drainage area (D.A.) of the preceding level. Thus, the drainage area of each successive level decreases geometrically. This results in in seven drainage area levels in each of the three watersheds, starting at the largest (150 sq. mi) and continuing through successive panels of 75, 38, 19, 9, 5 and 2 sq. mi. Targeted sites are then added to fill gaps left by the geometric design and assure complete spatial coverage in order to capture all significant pollution gradients including reaches that are impacted by wastewater treatment plants (WWTPs), major stormwater sources, combined sewer overflows (CSOs) and dams. The number of sampling sites by method/protocol and watershed are listed in Table 1 and illustrated in Figure 5.

Representativeness – Reference Sites

Data is collected from selected regional reference sites in northeastern Illinois preferably to include existing Illinois EPA and Illinois DNR reference sites, potentially being supplemented with other sites that meet the Illinois EPA criteria for reference conditions. One purpose of this data will be to index the biological methods used in this study that are different from Illinois EPA and/or DNR to the reference condition and biological index calibration as defined by Illinois EPA. In addition, the current Illinois EPA reference network does not yet include smaller headwater streams, hence reference data is needed to accomplish an assessment of that data. Presently thirteen (13) reference sites have been established.

Figure 5. Lower DuPage River Watershed bioassessment monitoring sites for 2015, 2018 and 2021

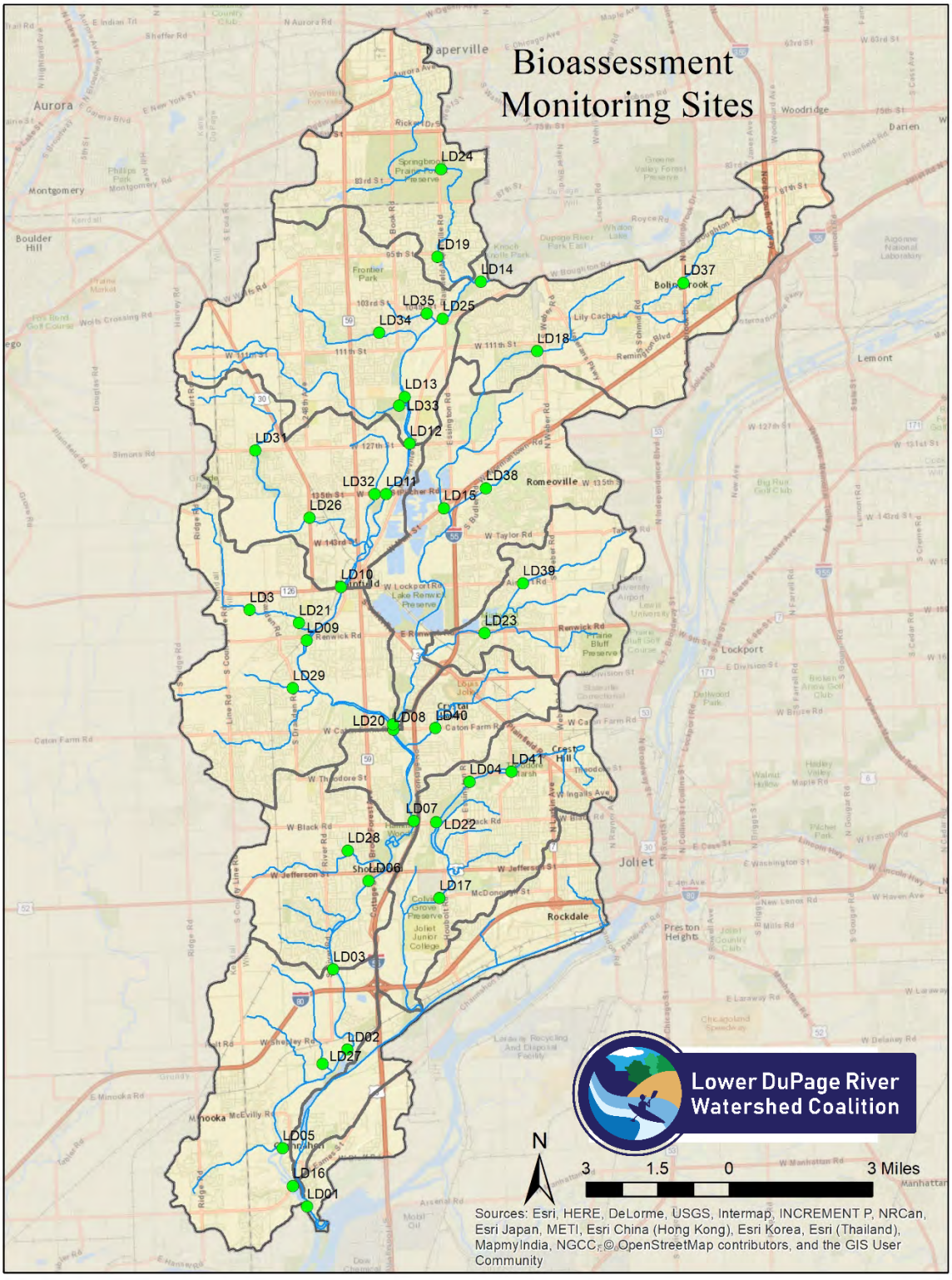


Table 1. Number of sampling sites in the LDRWC project area.

Method/Protocol	Lower DuPage River (2012)	Lower DuPage River (2015, 18 & 21)
Biological sampling	26	41
Fish	26	41
Macroinvertebrates	26	41
QHEI	26	41
Water Column Chemical/Physical Sampling		
Nutrients*	26	41
Water Quality Metals	26	41
Water Quality Organics	8	0
Sediment Sampling	7	7

*Also included indicators of organic enrichment and ionic strength, total suspended solids (TSS), DO, pH and temperature. Chlorophyll a sampling was added in 2021.

The bioassessment sampling includes four (4) sampling methods/protocols: biological sampling, Qualitative Habitat Evaluation Index (QHEI), water column chemical/physical parameter sampling and sediment chemistry. The biological sampling includes two assemblages: fish and macroinvertebrates.

FISH

Methodology

Methods for the collection of fish at wadeable sites was performed using a tow-barge or longline pulsed D.C. electrofishing apparatus (MBI 2006b). A Wisconsin DNR battery powered backpack electrofishing unit was used as an alternative to the long line in the smallest streams (Ohio EPA 1989). A three-person crew carried out the sampling protocol for each type of wading equipment sampling in an upstream direction. Sampling effort was indexed to lineal distance and ranged from 150-200 meters in length. Non-wadeable sites were sampled with a raft-mounted pulsed D.C. electrofishing device in a downstream direction (MBI 2007). Sampling effort was indexed to lineal distance over 0.5 km. Sampling was conducted during a June 15-October 15 seasonal index period.

Samples from each site were processed by enumerating and recording weights by species and by life stage (y-o-y, juvenile, and adult). All captured fish were immediately placed in a live well, bucket, or live net for processing. Water was replaced and/or aerated regularly to maintain adequate D.O. levels in the water and to minimize mortality. Fish not retained for voucher or other purposes were released back into the water after they had been identified to species, examined for external anomalies, and weighed either individually or in batches. While the majority of captured fish were identified to species in the field, any uncertainty about the field identification required their preservation for later laboratory identification. Identification was made to the species level at a minimum and to the sub-specific level if necessary. Vouchers were deposited and verified at The Ohio State University Museum of Biodiversity (OSUMB) in Columbus, OH.

Results

The fish sampling results presented in this report summarize the findings for the mainstem reaches of the DuPage River. Information on the tributaries and detailed analysis of all results can be found at https://ldpwatersheds.org/about-us/lower-dupage-river-watershed-coalition/our-work/reports-resources/ Results from the 2018 bioassessment are now available.

The fish and macroinvertebrate results are presented as Index of Biotic Integrity (IBI) scores. IBI is an evaluation of a waterbodies biological community in a manner that allows the identification, classification and ranking of water pollution and other stressors. IBIs allow the statistical association of various anthropogenic influences on a water body with the observed biological activity in said water body and in turn the evaluation of management interventions in a process of adaptive management. Chemical testing of water samples produce only a snapshot of chemical concentrations while an IBI allows an evaluation of the net impact of chemical, physical and flow variables on a biological community structure.

DuPage River

As in previous studies, fish assemblages in the lower DuPage River watershed ranged from poor to good in 2015 (Figure 6), but in 2018 three sites in the mainstem fully attained the Illinois general aquatic life thresholds (LD01, LD06 and LD14). The only site with consistently good quality assemblages during all surveys is found in the Channahon Dam tailwaters, a short reach wedged in between the dam and the Des Plains River. Mainstem fish communities at most sites have improved since 2012 and 2015, and no sites were in the poor range in 2018. In contrast to the mainstem, conditions in the tributaries tended to improve from mostly poor, to mostly fair quality between 2012 and 2015, but regressed somewhat in 2018 (see figure 7).

Figure 6. Fish Index of Biotic Integrity (fIBI) scores for the Lower DuPage River from 1976-2018, in relation to municipal WWTPs and existing low head dams (noted by bars adjoining the x-axis). The shaded region demarcates the "fair" narrative range.

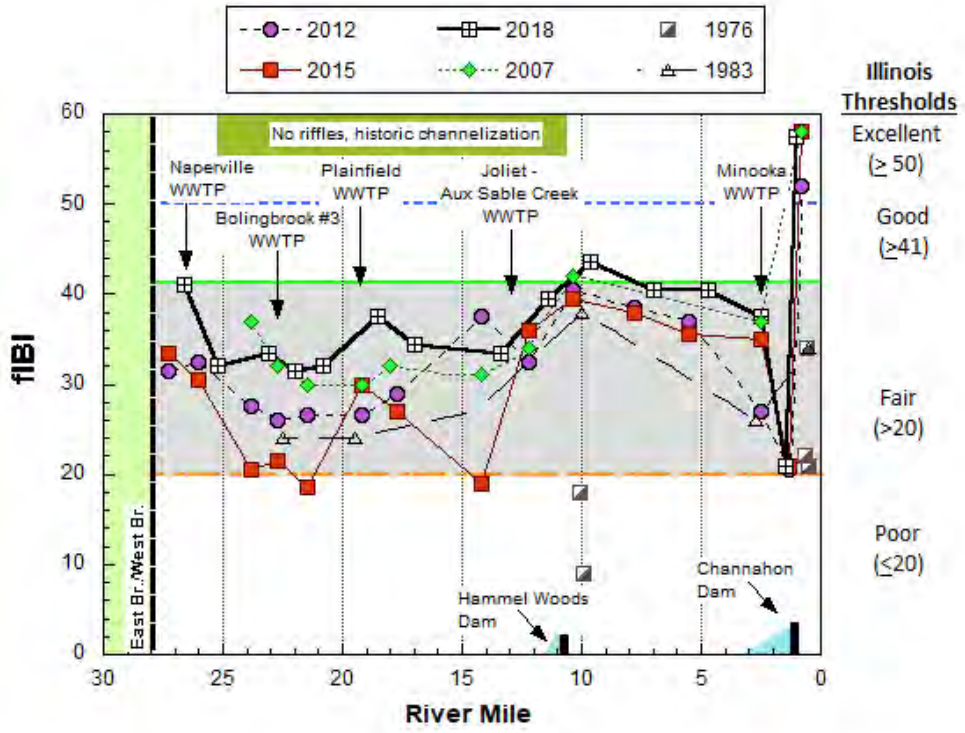
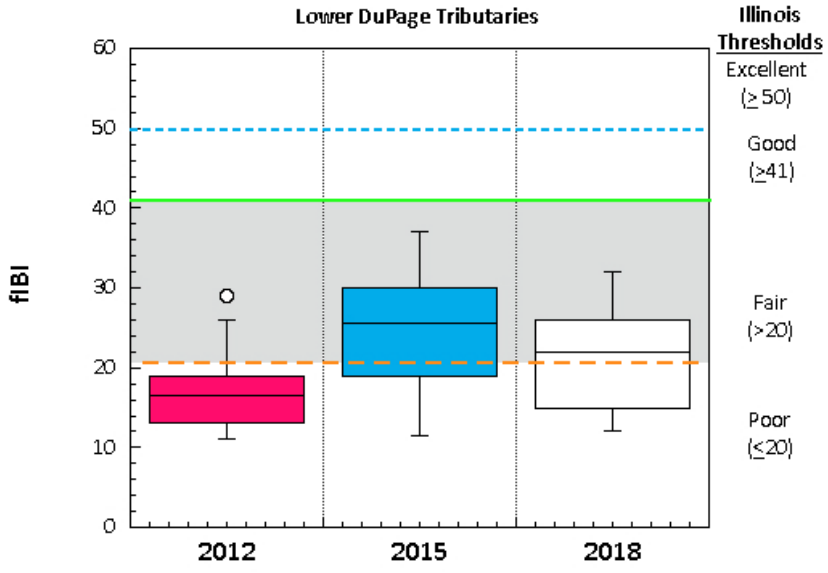


Figure 7. Box and whisker plot of fIBI scores from Lower DuPage River tributary sites in 2012, 2015, and 2018



MACROINVERTEBRATES

Methodology

The macroinvertebrate assemblage is sampled using the Illinois EPA (IEPA) multi-habitat method (IEPA 2005). Laboratory procedures followed the IEPA (2005) methodology for processing multi-habitat samples by producing a 300-organism subsample with a scan and pre-pick of large and/or rare taxa from a gridded tray. Taxonomic resolution is performed to the lowest practicable resolution for the common macroinvertebrate assemblage groups such as mayflies, stoneflies, caddisflies, midges, and crustaceans, which goes beyond the genus level requirement of IEPA (2005). However, calculation of the macroinvertebrate IBI followed IEPA methods in using genera as the lowest level of taxonomy for mIBI calculation and scoring.

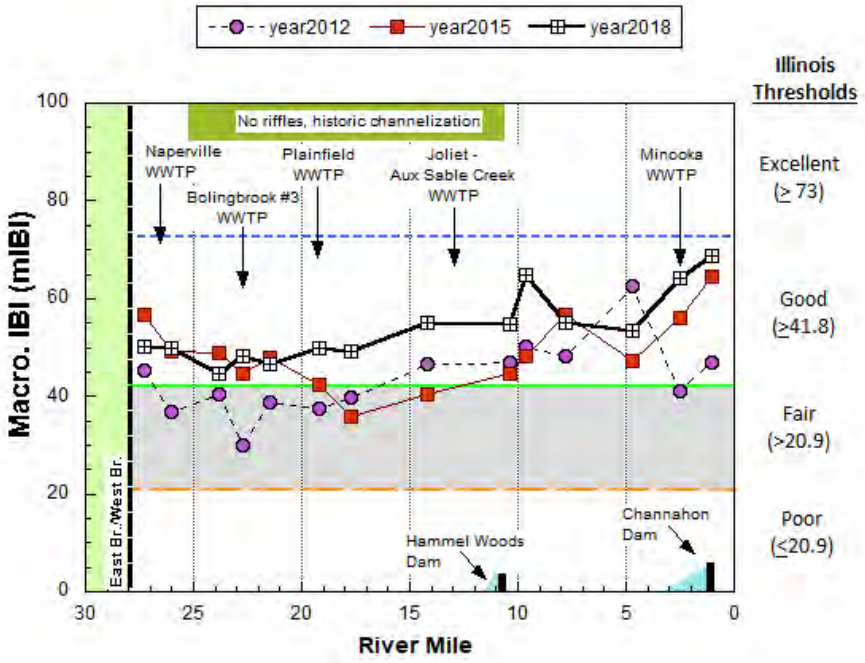
Results

The macroinvertebrate sampling results presented in this report summarize the findings for the mainstem reaches of the DuPage River. Information on the tributaries and detailed analysis of all results can be found at https://ldpwatersheds.org/about-us/lower-dupage-river-watershed-coalition/our-work/reports-resources/

DuPage River

Macroinvertebrate assemblage performance in the lower DuPage River watershed (mainstem and tributaries) were all in the good range in 2018 an improvement over 2012 and 2015 (see Figure 8); 7 sites were rated as fair in 2012 and 3 in 2015. Mainstem communities improved at almost all stations compared to 2012 and 2015. The lower scoring sites (still in the good range) were in the long sluggish, historically channelized reach between the Naperville WWTP and Hammel Woods dam. The reach consists of mostly pooled or slow-run habitats with fine substrates and an abundance of macrophytes.

Figure 8. Macroinvertebrate Index of Biotic Integrity (mIBI) scores for the Lower DuPage River in 2012, 2015, and 2018 in relation to municipal WWTPs and existing low head dams (noted by bars adjoining the x-axis). The shaded region demarcates the "fair" narrative range.



HABITAT

Methodology

Physical habitat was evaluated using the Qualitative Habitat Evaluation Index (QHEI) developed by the Ohio EPA for streams and rivers in Ohio (Rankin 1989, 1995; Ohio EPA 2006b) and as modified by MBI for specific attributes. Attributes of habitat are scored based on the overall importance of each to the maintenance of viable, diverse, and functional aquatic faunas. The type(s) and quality of substrates, amount and quality of instream cover, channel morphology, extent and quality of riparian vegetation, pool, run, and riffle development and quality, and gradient used to determine the QHEI score which generally ranges from 20 to less than 100. QHEI scores and physical habitat attribute were recorded in conjunction with fish collections.

Results

The QHEI data presented in this report summarize the findings for the mainstem reaches of the Lower DuPage River. Information on the tributaries and detailed analysis of all results can be found at https://ldpwatersheds.org/about-us/lower-dupage-river-watershed-coalition/our-work/reports-resources/

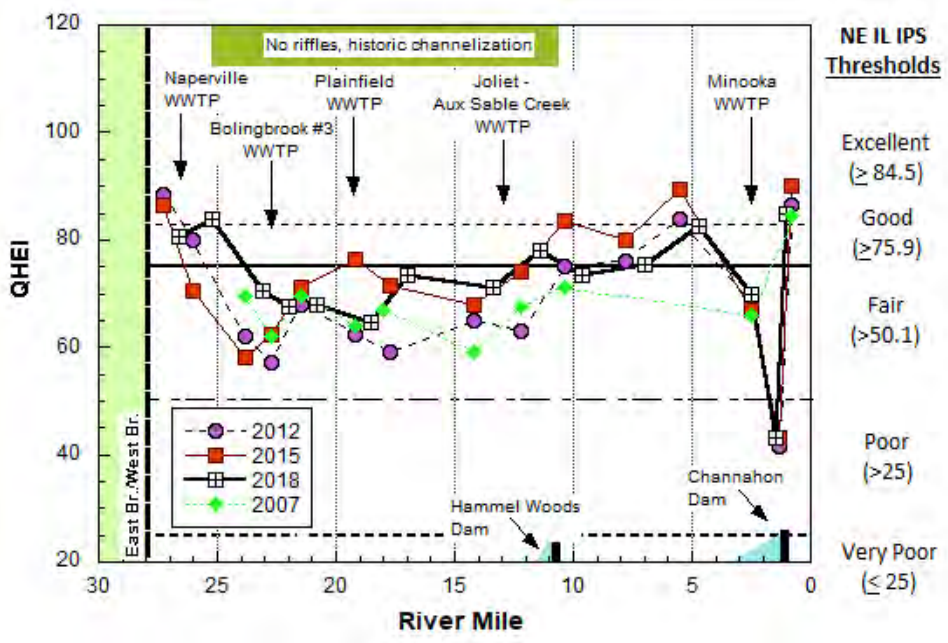
The physical habitat of a stream is a primary determinant of biological quality. Streams in the glaciated Midwest, left in their natural state, typically possess riffle-pool-run sequences, high

sinuosity, and well-developed channels with deep pools, heterogeneous substrates and cover in the form of woody debris, glacial tills, and aquatic macrophytes. The QHEI categorically scores the basic components of stream habitat into ranks according to the degree to which those components are found in a natural state, or conversely, in an altered or modified state.

DuPage River

As in previous surveys, 2015 DuPage River habitat quality varied by location but was more than adequate to support warm water communities throughout most of its 27.8-mile length (see figure 4). Extreme upper mainstem habitats remained clearly exceptional, but continued to decline to the lower good range in the sluggish, historically channelized reach between the Naperville WWTP and the Hammel Woods low-head dam (~ RMs 25-10.6). Two projects have been identified to improve habitat and dissolved oxygen levels within this reach. The first project was completed in 2021 to remove the Hammel Woods dam. The second project location will be located between Lockport Street and Renwick Road in Plainfield. A design, engineering and permitting contract was signed in February of 2022. Construction of stream restoration project is anticipated to begin by the end of 2023.

Figure 9. Qualitative Habitat Evaluation Index (QHEI) scores and narrative ranges in the Lower DuPage River in 2007, 2012, 2015 and 2018 in relation to municipal WWTPs and existing low head dams (noted by bars adjoining the x-axis). QHEI scores less than 45 are often typical of highly modified channels or dam pools. The IPS narrative ranges of QHEI scores from excellent to very poor are indicated by solid and dashed lines.



Water and Sediment Chemistry

Methodology

Water column and sediment samples are collected as part of the LDRWC bioassessment programs. The total number of sites sampled is detailed in Table 1. The number of samples collected at each site is largely a function of the sites drainage area with the frequency of sampling increasing as drainage size increases. Organics sampling is a single sample done at a subset of sites. Sediment sampling is done at a subset of 41 sites using the same procedures as IEPA.

The parameters sampled for are included in Table 2 and can be grouped into demand parameters, nutrients, demand, and metals. Locations of sample sites are shown on Figure 5. All sampling occurs between May and October of the sample year. The Standard Operating Procedure for water quality sampling can be found at https://ldpwatersheds.org/about-us/lower-dupage-river-watershed-coalition/our-work/reports-resources/

Table 2. Water Quality and sediment Parameters sampled as part of the LDRWC Bioassessment Program.

Water Quality Parameters	Sediment Parameters
Demand Parameters	**Sediment Metals**
5 Day BOD	Arsenic
Chloride	Barium
Conductivity	Cadmium
Dissolved Oxygen	Chromium
Chlorophyll a	Copper
pH	Iron
Temperature	Lead
Total Dissolved Solids	Manganese
Total Suspended Solids	Nickel
	Potassium
Nutrients	Silver
Ammonia	Zinc
Nitrogen/Nitrate	
Nitrogen – Total Kjeldahl	
Phosphorus, Total	**Sediment Organics**
	Organochlorine Pesticides
Metals	PCBS
Cadmium	Percent Moisture
Calcium	Semivolatile Organics
Copper	Volatile Organic Compounds
Iron	
Lead	
Magnesium	
Zinc	

Results

The discussion presented below focuses on the constituents listed in the MS4 permit: total suspended solids, total nitrogen, total phosphorus, and chlorides. Total nitrogen is presented as ammonia, nitrate, and total kjeldahl nitrogen (TKN). Fecal coliform sampling was added to the 2021 bioassessment.

Lower DuPage River - Chemical Water Quality

As discussed in previous reports, nutrient levels in the Lower DuPage River mainstem are heavily influenced by WWTP inputs from its sources upstream, the East and West Branches. In each Lower DuPage survey, phosphorus and nitrate levels have ranged from highly elevated to slightly elevated (based on NE Illinois IPS Model thresholds), depending largely on flow conditions and contributions from upstream point sources. Concentrations have tended to be highest in the extreme upper mainstem, nearer to the confluence with the branches. Under very low-flows in 2012, nitrates routinely exceeded the 10 mg/l criterion in the upper reach and phosphorus was almost entirely above the recommended 1.0 mg/l effluent limit from headwaters to mouth. In both surveys, contributions from WWTPs along the Lower DuPage mainstem may have helped maintain nutrient levels but parameters experience minimal change downstream from the discharges. Both median and mean ammonia concentrations were near or below detection throughout the DuPage River mainstem in 2012 and 2015, but there was an increase in ammonia in 2018, albeit in the IPS fair range, but none were exceedances of water quality criteria that depend on temperature and pH**.** This likely originated in the upper part of the watershed. The full 2018 Bioassessment Report is available at https://ldpwatersheds.org/about-us/lower-dupage-river-watershed-coalition/our-work/reports-resources/

Fecal Coliform

In 2021 fecal coliform was collected at six (6) sites, four on the DuPage River, one on Lily Cache Creek and one on Rock Run. Grab samples were collected at center of flow five (5) times within a thirty (30) day period. Results from the fecal coliform sampling can be found below in Table 3.

Table 3. 2021 Fecal Coliform data. Results in Colony Forming Units (CFU)/ 100ml

Station ID	Location	6/16/2021	6/21/2021	6/23/2021	6/30/2021	7/7/2021
	DuPage River	Results reported in cfu/100ml				
LD06	Pedestrian Bridge DS Route 59	100	3400	<50	200	<50
LD09	US Renwick Road	<50	2200	<50	200	<50
LD14	DS 95th/Kings Road	100	8700	<50	<50	400
LD16	DS Hyw 6	<50	1200	<50	300	300
	Lily Cache Creek					
LD20	US Lily Cache Road	600	3200	<50	400	300
	Rock Run					
LD17	DS McDonough Street	<50	4400	<50	1400	100

2021 Watershed Outreach Summary

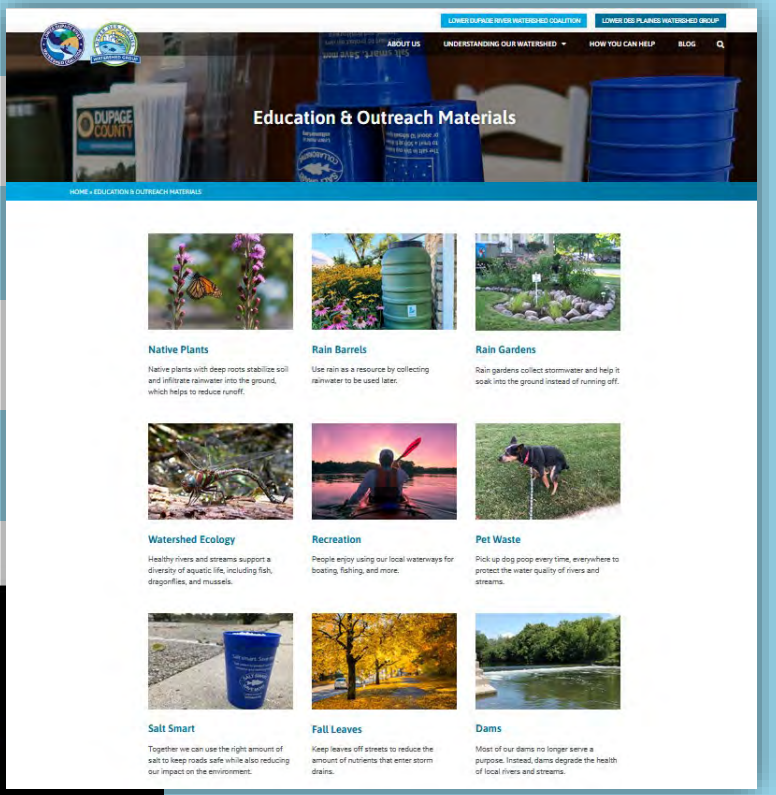
2021 Outreach Materials

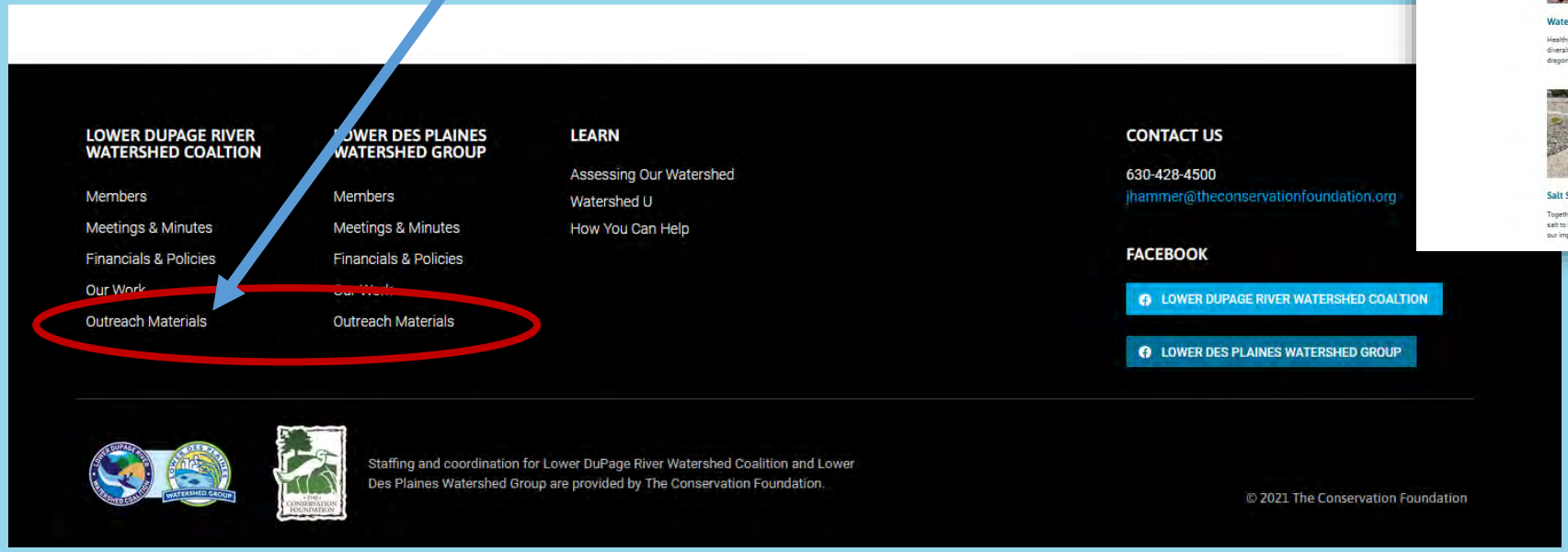
Outreach Materials

Where can I find outreach materials?

→ LDPwatersheds.org/**outreach**

→ Bottom of any page on the website





All chloride-related materials are also available on www.saltsmart.org

Other Monitoring

Spring 2021 Outreach

Social Media Posts

Garden Refresh - 2021 Outreach

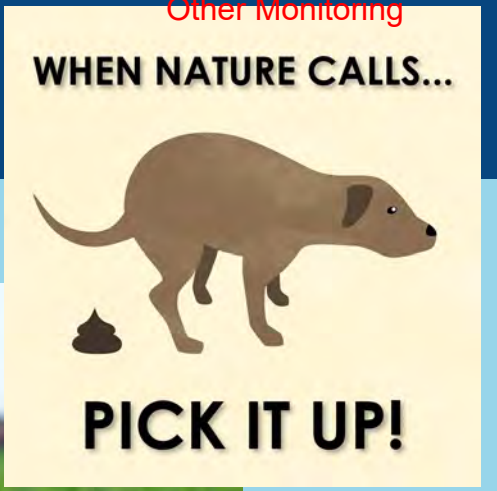
- **Creating a native plant garden from start to finish**
  - Choosing native plants
  - Design
  - Expanding and preparing garden beds
  - Planting
  - Maintenance

- **Resources to guide homeowners through the process**
  - Blogs
  - Social media posts
  - Webinars – first webinar is March 31st at 1 pm
  - Videos

- **Available blogs**
  - Introducing Garden Refresh
  - It Starts With a Plan (planning a native plant garden)
  - Collect Rainwater at Home (rain barrels)

Summer 2021 Outreach

Other Monitoring



Join the Pet Waste Campaign

Remind residents to scoop the poop to protect water quality!

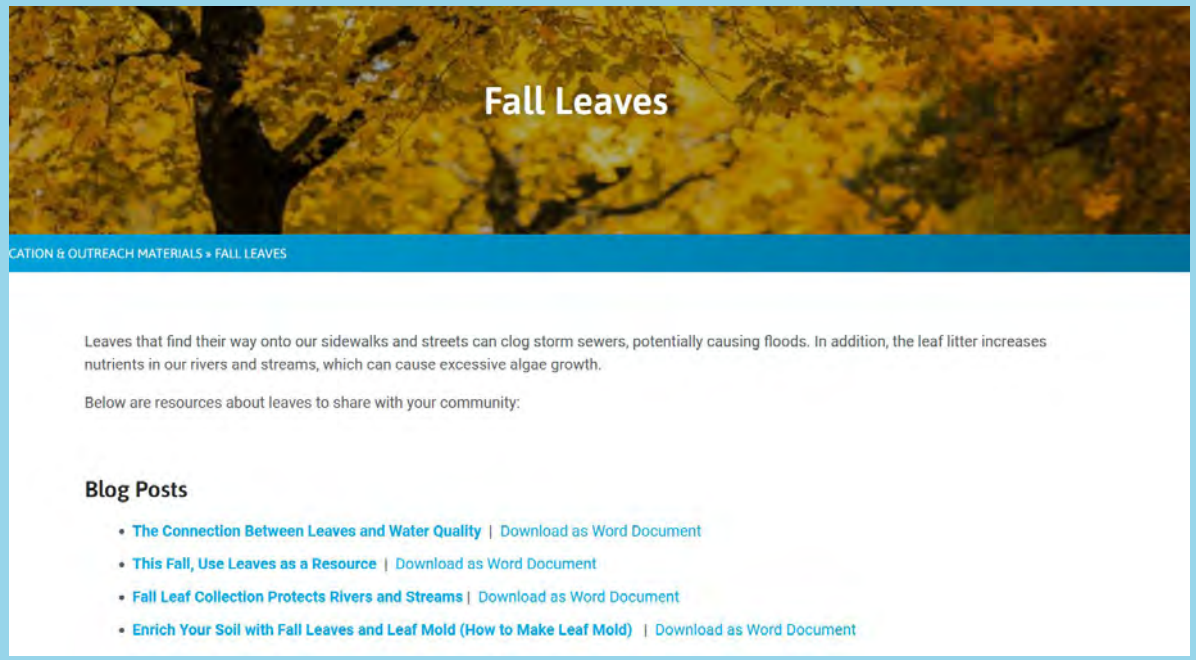
- **We Provide:**
  - Sign + Dog Waste Bag Dispenser and bags
  - Or Just Sign(s)

- **You Provide:**
  - Post & Installation – send us a picture
  - Participate in Social Media Campaign

Funded By:
Illinois American Water Environmental Grant

Other Monitoring

Fall 2021 Outreach



Winter 2021 Outreach

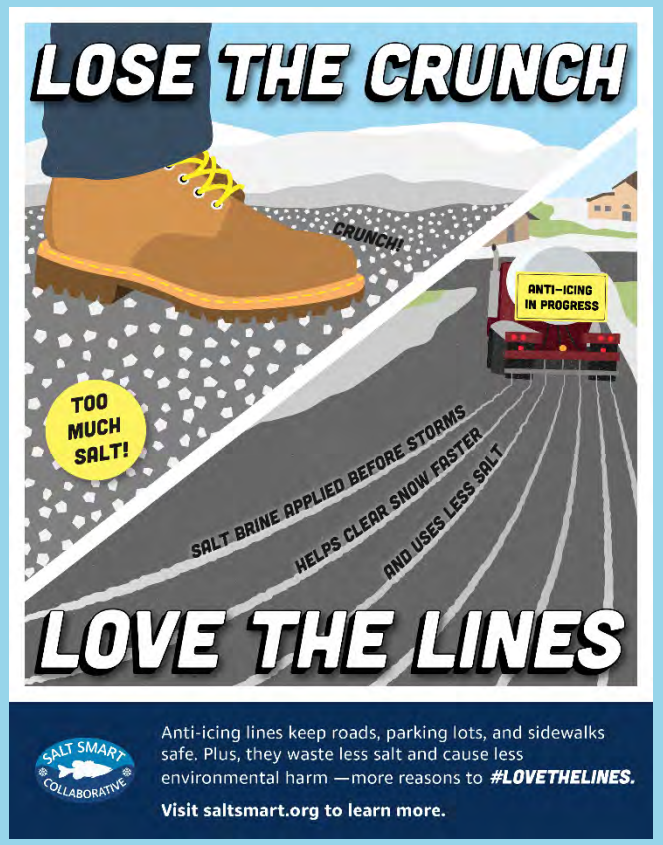
Social Media Posts

Other Monitoring

Winter 2021 Outreach

Posters

Doorway poster



Anti-icing poster
#LoveTheLines

Winter tools comic

Winter – Salt Smart

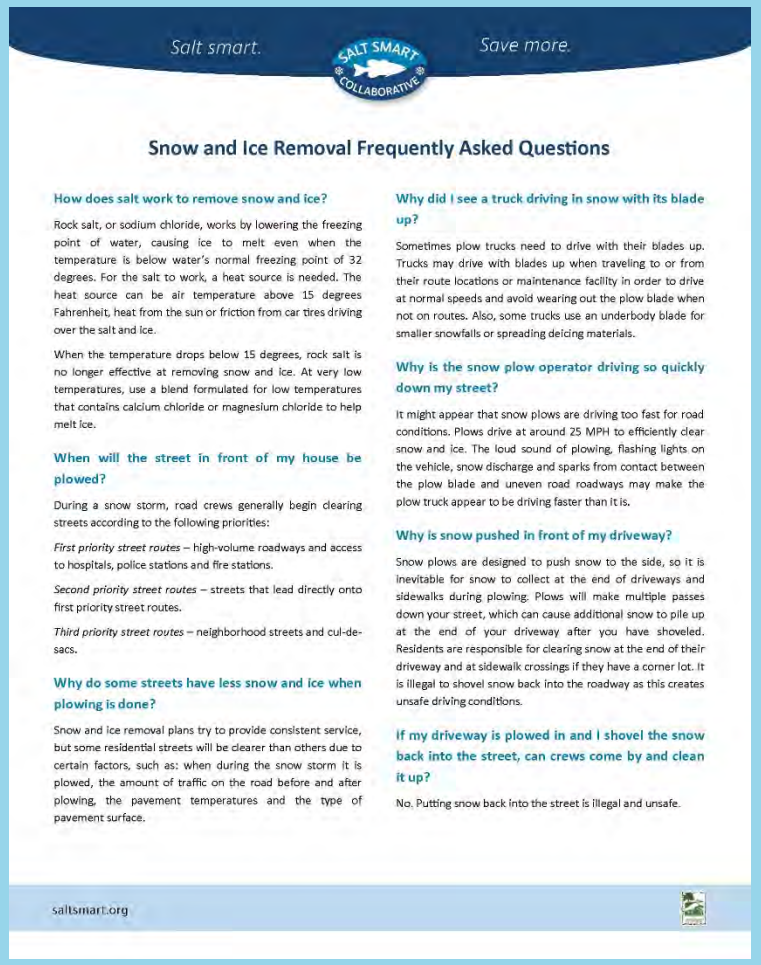
Snow Plow Operator Profiles: "Meet Your Plow Driver"

Other Monitoring

Winter – Salt Smart

Safe Driving Poster/Graphic

Snow + Ice Removal FAQ



Salt smart. Save more.

Snow and Ice Removal Frequently Asked Questions

How does salt work to remove snow and ice?

Rock salt, or sodium chloride, works by lowering the freezing point of water, causing ice to melt even when the temperature is below water's normal freezing point of 32 degrees. For the salt to work, a heat source is needed. The heat source can be air temperature above 15 degrees Fahrenheit, heat from the sun or friction from car tires driving over the salt and ice.

When the temperature drops below 15 degrees, rock salt is no longer effective at removing snow and ice. At very low temperatures, use a blend formulated for low temperatures that contains calcium chloride or magnesium chloride to help melt ice.

When will the street in front of my house be plowed?

During a snow storm, road crews generally begin clearing streets according to the following priorities:

First priority street routes – high-volume roadways and access to hospitals, police stations and fire stations.

Second priority street routes – streets that lead directly onto first priority street routes.

Third priority street routes – neighborhood streets and cul-de-sacs.

Why do some streets have less snow and ice when plowing is done?

Snow and ice removal plans try to provide consistent service, but some residential streets will be clearer than others due to certain factors, such as: when during the snow storm it is plowed, the amount of traffic on the road before and after plowing, the pavement temperatures and the type of pavement surface.

Why did I see a truck driving in snow with its blade up?

Sometimes plow trucks need to drive with their blades up. Trucks may drive with blades up when traveling to or from their route locations or maintenance facility in order to drive at normal speeds and avoid wearing out the plow blade when not on routes. Also, some trucks use an underbody blade for smaller snowfalls or spreading deicing materials.

Why is the snow plow operator driving so quickly down my street?

It might appear that snow plows are driving too fast for road conditions. Plows drive at around 25 MPH to efficiently clear snow and ice. The loud sound of plowing, flashing lights on the vehicle, snow discharge and sparks from contact between the plow blade and uneven road roadways may make the plow truck appear to be driving faster than it is.

Why is snow pushed in front of my driveway?

Snow plows are designed to push snow to the side, so it is inevitable for snow to collect at the end of driveways and sidewalks during plowing. Plows will make multiple passes down your street, which can cause additional snow to pile up at the end of your driveway after you have shoveled. Residents are responsible for clearing snow at the end of their driveway and at sidewalk crossings if they have a corner lot. It is illegal to shovel snow back into the roadway as this creates unsafe driving conditions.

If my driveway is plowed in and I shovel the snow back into the street, can crews come by and clean it up?

No. Putting snow back into the street is illegal and unsafe.

saltsmart.org

Bookmark

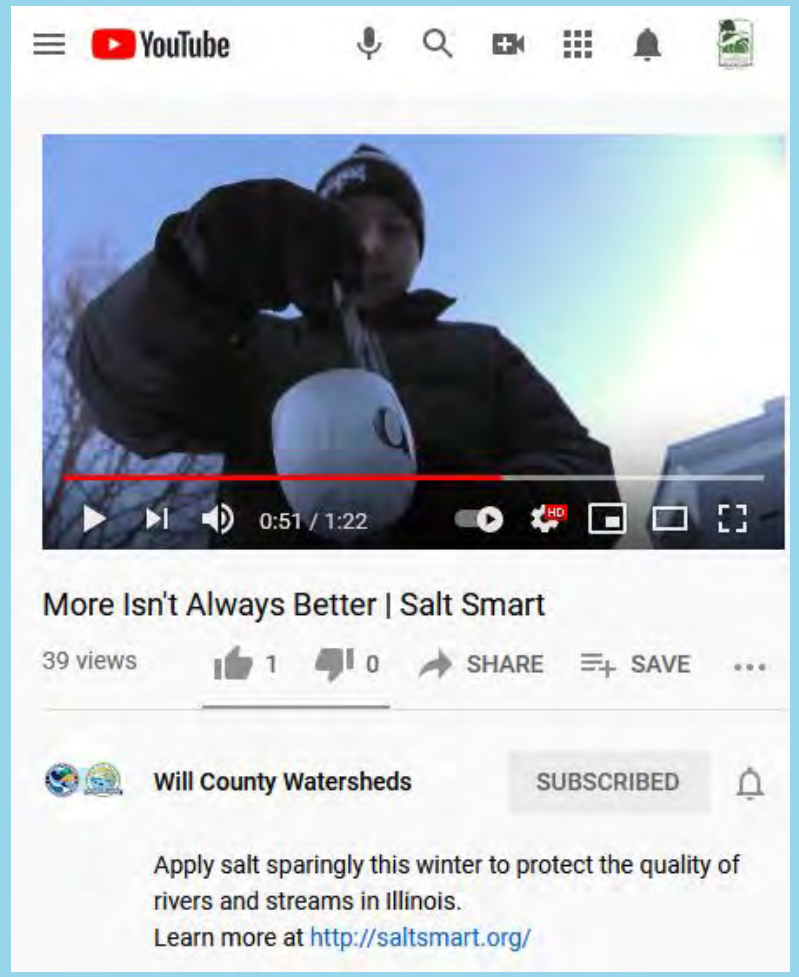
Winter – Salt Smart

Cups and bookmarks are available now – contact Jennifer or Lea to put in your order

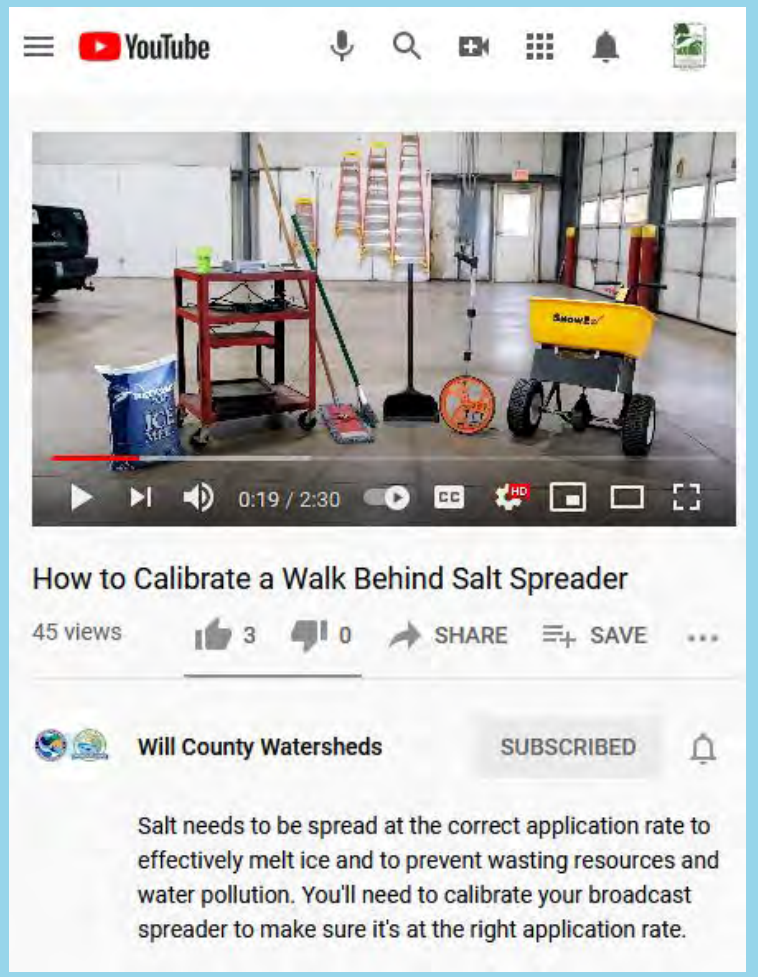
Scatter cups

Bookmarks

Winter – Salt Smart



Fun PSA for Residents

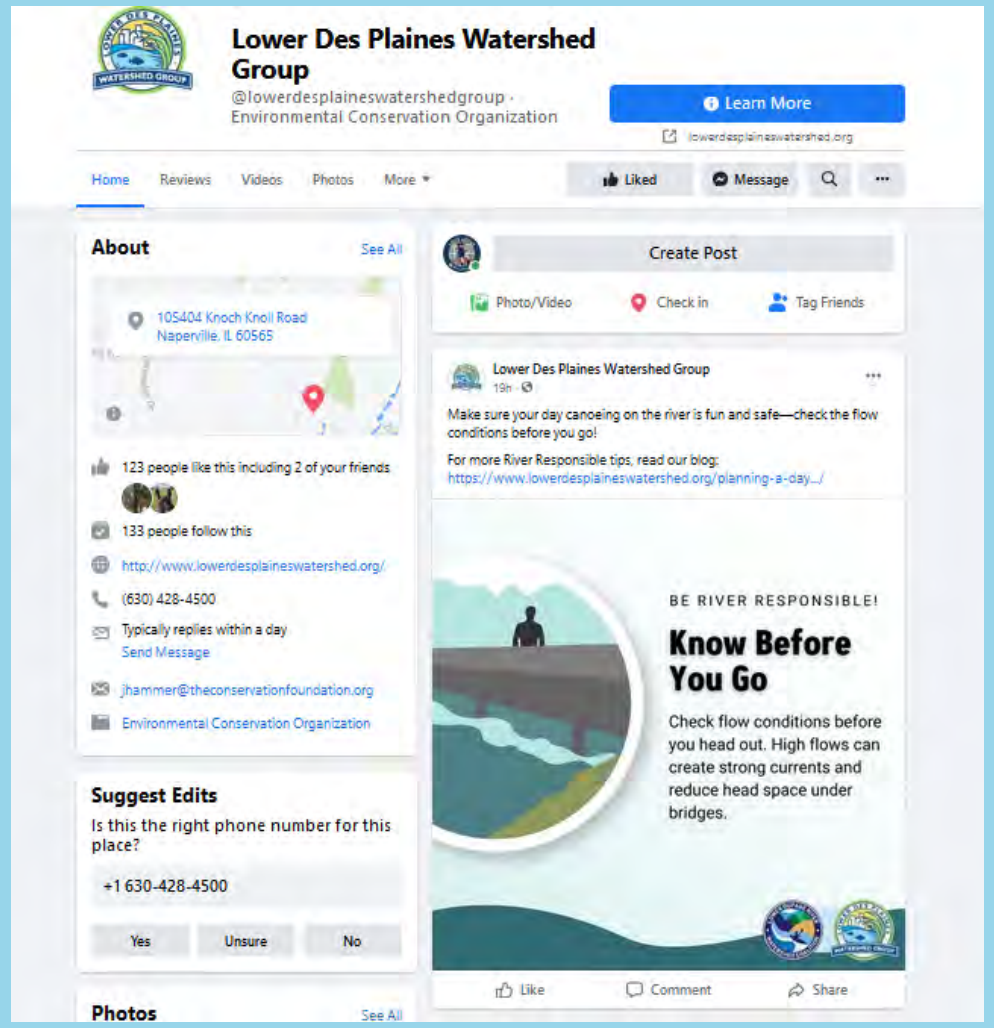


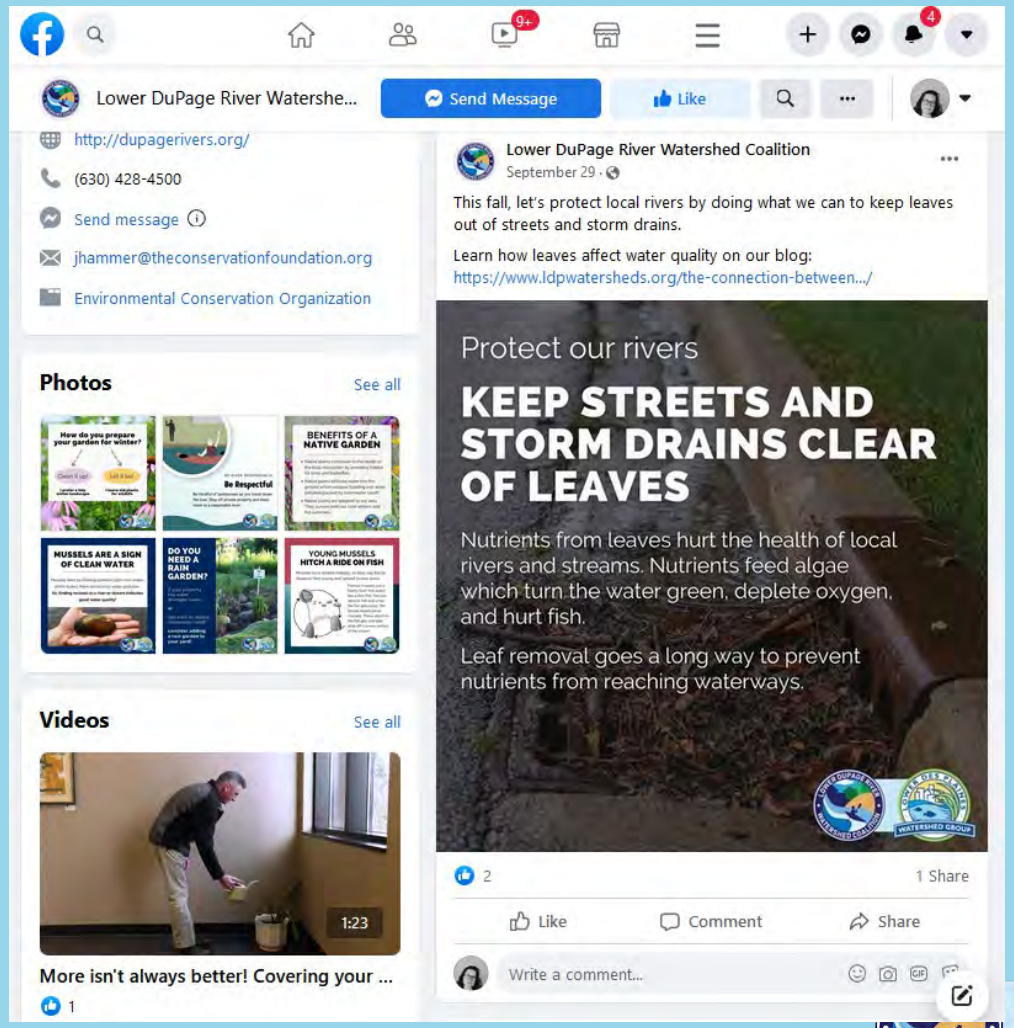
Salt Spreader Calibration Tutorial

Winter Deicing Technical Briefs

Recordings available at
Saltsmart.org/workshops
and
"Will County Watersheds"
YouTube Page

Connect With Us!





Other Monitoring

Will County Watershed YouTube Channel

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6 views • 1 month ago

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More About Brine Making | Winter Technical Brief

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September Member Meeting | Lower DuPage River...

6 views • 3 months ago

Where Leaves Go After They're Collected

25 views • 5 months ago

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March 2021 Member Meeting | Lower DuPage River...

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January 2021 Membership Meeting | Lower DuPage...

How to Calibrate a Walk Behind Salt Spreader

November 2020 Membership Meeting | Lower Des Plaine...

September 2020 Membership Meeting | Low...

September 2020 Membership Meeting | Low...

The Fine Art of Brine Making | Winter Technical Brief