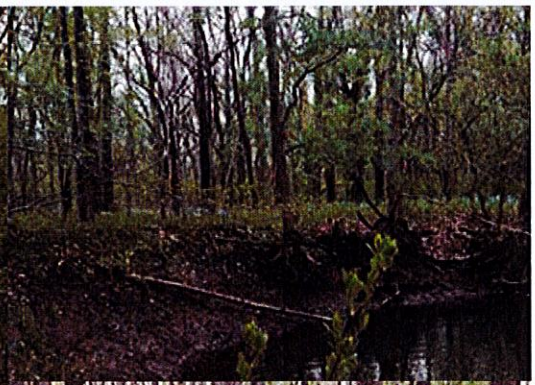
Mt. Zion Annual Facility Inspection Report

April 1, 2019 – March 31, 2020

VILLAGE OF
MT.ZION



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CHASTAIN
& ASSOCIATES LLC
CONSULTING ENGINEERS
SERVICE | SOLUTIONS | COMMITMENT ™

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, 2019 To March, 2020

Permit No. ILR40 0394

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

Name: Village of Mt. Zion Mailing Address 1: 1400 Mt. Zion Pkwy

Mailing Address 2: County: Macon

City: Mt. Zion State: IL Zip: 62549 Telephone: 217-864-5424

Contact Person: Julie Miller Email Address: j_miller@mtzion.com
(Person responsible for Annual Report)

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

Macon 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))

Julie Miller — Owner Signature:

6-1-20 — Date:

Julie Miller — Printed Name:

Village Administrator — 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

VILLAGE OF MT. ZION

April 1, 2019 to March 31, 2020 Annual Facilities Inspection Report (Year 6)

A. CHANGES TO BMP'S

1. No changes.

B. COMPLIANCE WITH PERMIT CONDITIONS

C. RESULTS OF INFORMATION COLLECTED AND ANALYZED

D. ACTIVITIES FOR NEXT REPORTING CYCLE (MARCH 2020 TO MARCH 2021)

E. ANNUAL EVALUATION STATEMENT

PUBLIC EDUCATION AND OUTREACH

1. BMP A.1 – Distributed Paper Material

B. Compliance with Permit Conditions	The Village, as a part of the Macon County MS4 communities, distributed fliers at the Village Hall. See Exhibits A and B for the fliers.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to distribute fliers at Village Hall, distribute to residents at community events.

2. BMP A.2 – Speaking Engagement

B. Compliance with Permit Conditions	The Village, as a part of the Macon County MS4 communities, hosted a MS4 Workshop with the Champaign MS4 group on July 12, 2019 at the I-Hotel in Champaign on the University of Illinois Campus. The Keynote speakers were Holly Hirchert, IEPA; Professor Kalita and Professor Bhattarai, University of Illinois; John Warren, HANES; Eliana Brown and Lisa Merrifield. Illinois Extension; Heidi Leuszler, Parkland College. The event was held at the local college campus because they felt this location addressed the environmental justice requirements for the new permit. A copy of the agenda is available in Exhibit D. The SWCD staff present educational programs on urban erosion and water quality throughout the year. The effects of urban erosion were demonstrated at the Festival of Spring on April 27, 2019. Each year the Macon County SWCD participates in Macon County Agucation, sponsored by Farm Bureau and held at Richland Community College. At this event there are multiple conservation topics discussed.
C. Information Collected and Analyzed	The MS4 workshop had 86 attendees. The Festival of Spring had approximately 325 attendees. Macon County Agucation had approximately 600 students from Macon County.
D. Activities for Next Reporting Cycle	Speak at either one educational workshop or Village Board Meeting to inform public of construction site storm water management efforts. Continue support of Macon County SWCD public engagement.

3. BMP A.4 – Community Event

B. Compliance with Permit Conditions	The Village, as a part of the Macon County MS4 communities, continued distribution of the flyer at the Village Hall and hosted a MS4 workshop with the Champaign MS4 group on July 12, 2019 at the I-Hotel in Champaign on the University of Illinois Campus. The event was advertised through fliers, websites, and Facebook. See Exhibit D for the agenda. The SWCD staff present educational programs on urban erosion and water quality throughout the year. The effects of urban erosion were demonstrated at the Festival of Spring on April 27, 2019. Each year the Macon County SWCD participates in Macon County Agucation, sponsored by Farm Bureau and held at Richland Community College. At this event there are multiple conservation topics discussed.
C. Information Collected and Analyzed	The MS4 workshop had 86 attendees. The Festival of Spring had approximately 325 attendees. Macon County Agucation had approximately 600 students from Macon County.
D. Activities for Next Reporting Cycle	Continue to distribute fliers at Village Hall and distribute to residents at community events. Hold an annual public meeting in conjunction with the Macon County MS4 working group.

4. BMP A.6 – Other Public Education

B. Compliance with Permit Conditions	The Village, as part of the Macon County MS4 communities and the MCSWCD, maintained the website for storm water issues (www.maconcleanwater.com).
C. Information Collected and Analyzed	Visits to the website totaled 11,203 for the reporting year. See Exhibit E for the report.
D. Activities for Next Reporting Cycle	Continue to update and maintain the current MS4 Community website and work to increase website visits by 10% in conjunction with the Macon County MS4 Community.

E. Annual Evaluation Statement: Public Education and Outreach (Section A)

For the next year, the Village will assist the Macon County SWCD with the annual workshop and training session in collaboration with the Champaign MS4 Organization to expand the audience for education training events. In addition, MS4 brochures will remain available at the SWCD office of the participating Macon County MS4 working group including at the Mt. Zion Village Hall. This gives citizens across the county opportunities to pick up the educational materials. Over the year, we will look for other areas to make the brochures available.

PUBLIC PARTICIPATION / INVOLVEMENT

1. BMP B.3 – Stakeholder Meeting

B. Compliance with Permit Conditions	The Village attended local NPDES coordination meetings with other members of the Macon County MS4 community.
C. Information Collected and Analyzed	Meetings attended: • July 12, 2019 (MS4 Workshop) • August 20, 2019 • January 28, 2020

D. Activities for Next Reporting Cycle	Continue to attend local NPDES coordination meetings.

2. BMP B.4 – Public Hearing

B. Compliance with Permit Conditions	No ordinance changes were implemented during the reporting period and therefore no public hearings were required.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to review the Storm Water Ordinance and present changes to Village Board for approval. A minor update to the Village storm water ordinance is anticipated in order to match the other MS4 community ordinances.

3. BMP B.6 – Program Involvement

B. Compliance with Permit Conditions	The Village attended local NPDES coordination meetings with other members of the Macon County MS4 community. The Village offers recycling services to its residents. In addition, recycling containers are available at Village events.
C. Information Collected and Analyzed	Meetings attended: • July 12, 2019 (MS4 Workshop) • August 20, 2019 • January 28, 2020
D. Activities for Next Reporting Cycle	Continue to attend local NPDES coordination meetings.

E. Annual Evaluation Statement: Public Participation / Involvement (Section B)

In conjunction with the Macon County MS4 communities, we hold training seminars for local contractors, engineers and public works employees. We believe we have met the requirements of this section with our meetings, recycling program and website maintenance.

ILLICIT DISCHARGE DETECTION AND ELIMINATION

1. BMP C.1 – Sewer Map Preparation

B. Compliance with Permit Conditions	No stormwater infrastructure was added to the Village GIS map.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	The Village hopes to do a complete work up of the town's storm sewer in 2021.

2. BMP C.6 – Program Evaluation and Assessment

B. Compliance with Permit Conditions	Monitoring of Finley Creek was completed using the Illinois River watch site identification form in March 2020. See Exhibits D and E for Site Identifications forms.
C. Information Collected and Analyzed	The appearance, smell, temperature, and discharge of the creek were recorded at the locations the creek enters and exits Village limits. See Exhibits F and G for recorded data.
D. Activities for Next Reporting Cycle	Finley Creek will continue to be monitored using the Illinois River Watch site identification form as established August 2016. Outfalls will begin to be monitored once mapping is complete.

3. BMP C.7 – Visual Dry Weather Screening

B. Compliance with Permit Conditions	Monitoring of Finley Creek monitored by Illinois River Watch site identification form was completed in March 2020.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Finley Creek will continue to be monitored using the Illinois River Watch site identification form as established August 2016. Outfalls will begin to be monitored once mapping is complete.

E. Annual Evaluation Statement: Illicit Discharge Detection and Elimination (Section C)

To evaluate the effectiveness of our illicit detection efforts, the following will be documented:

This year marked the fourth year Finley Creek was monitored using the Illinois River watch site identification form.

Location #1

Year	Worst Weather in past 48 hours	Temperature Air/Water	Water Appearance	Turbidity	Velocity	Discharge
1	Overcast	67/61 °F	Clear	Clear	1.03 ft/sec	25.34 ft^3/sec
2	Rain (Steady)	40/44 °F	Dark Brown	Slight/Medium	1.47 ft/sec	185.22 ft^3/sec
3	Showers (Intermittent)	55/52 °F	Clear	Clear	0.84 ft/sec	50.89 ft^3/sec
4	Rain (steady)	63/52 °F	Clear	Clear	1.13 ft/sec	124.41 ft^3/sec

Location #2

Year	Worst Weather in past 48 hours	Temperature Air/Water	Water Appearance	Turbidity	Velocity	Discharge
1	Overcast	67/62 °F	Dark Brown	Slight	1.03 ft/sec	25.34 ft^3/sec
2	Rain (Steady)	40/45 °F	Dark Brown	Slight/Medium	2.79 ft/sec	351.54 ft^3/sec
3	Showers (Intermittent)	55/53 °F	Clear	Clear/Slight	1.18 ft/sec	70.56 ft^3/sec
4	Rain (steady)	63/52 °F	Clear	Clear	1.44 ft/sec	205.34 ft^3/sec

Storm water infrastructure will be mapped in 2021. After outfall locations are documented, 20% of outfall will be checked during dry weather annually.

CONSTRUCTION SITE RUNOFF CONTROL

1. BMP D.1 – Regulatory Control Program

B. Compliance with Permit Conditions	The Village's Storm Water Management ordinance was enforced by providing site plan and subdivision plan reviews. The Ordinance sets forth the requirements for the issuance of Land Disturbance Permits, requirements for Construction Site Storm Water discharges, preparation of Storm Water Pollution Prevention Plans, and associated subjects.
C. Information Collected and Analyzed	14 permits were issued through MCSWCD during the reporting year.

D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules. The Village will evaluate the need for Stormwater Ordinance Revisions and recommend revisions.

2. BMP D.2 – Erosion and Sediment Control BMPs

B. Compliance with Permit Conditions	The Village provided reviews of the erosion control plans and SWPPPs within the Village limits. The Village provided technical review of erosion control plans and associated SWPPPS and provided comments to the developer.
C. Information Collected and Analyzed	Plans Reviewed: • DOC Plan and Drainage Review- October 2019 • Elliot Property Annexation- March 2020
D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules.

3. BMP D.4 – Site Plan Review Procedures

B. Compliance with Permit Conditions	The Village provided reviews of the erosion control plans and SWPPPs within the Village limits. The Village provided technical review of the erosion control plans and associated SWPPPs and provided comments to the developer.
C. Information Collected and Analyzed	Plans Reviewed: • DOC Plan and Drainage Review- October 2019 • Elliot Property annexation- March 2020
D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules.

4. BMP D.5 – Public Information Handling Procedures

B. Compliance with Permit Conditions	The phone number for the Village Hall is available on the website for the general public to report storm water issues. Complaints were forwarded to Public Works, investigated and handled appropriately.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to track and report complaints.

5. BMP D.6 – Site Inspection/Enforcement Procedures

B. Compliance with Permit Conditions	The MCSWCD provided onsite inspections during active construction. Village staff was responsible for follow-up enforcement of the storm water requirements.
C. Information Collected and Analyzed	Fourteen Land Disturbance permits were issued, and multiple sites are still open (see Exhibit H report from MCSWCD).
D. Activities for Next Reporting Cycle	Continue to have MCSWCD conduct initial site inspections for developments subject to ILR10 and perform follow-ups as necessary.

E. Annual Evaluation Statement: Construction Site Runoff Control (Section D)

To evaluate the effectiveness of our Construction Site controls, the following will be documented in the next reporting cycle:

Next year, the Village will work with MCSWCD to evaluate which BMPs are regularly installed incorrectly and provide training for BMPs which are installed incorrectly.

POST-CONSTRUCTION RUNOFF CONTROL

1. BMP E.2 – Regulatory Control Program

B. Compliance with Permit Conditions	The Village's Storm Water Management ordinance was enforced pertaining to the design, installation and maintenance of post-construction water quality BMPs in accordance with the most current Illinois Urban Manual Standards.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to enforce storm water management technical guidelines as set forth in the Illinois Urban Manual. The Village will evaluate the need for Stormwater Ordinance Revisions and recommend revisions.

2. BMP E.4 – Pre-Construction Review of BMP Designs

B. Compliance with Permit Conditions	The Village's Ordinances currently address NPDES Phase II storm water quality and quantity goals. The Village will review plan submittals for developments inside the Village limits.
C. Information Collected and Analyzed	Plans Reviewed: • DOC Plan and Drainage Review- October 2019 • Elliot Property annexation- March 2020
D. Activities for Next Reporting Cycle	Continue site plan reviews by the Village for compliance with local erosion and sediment control rules and continue to enforce storm water regulations.

3. BMP E.5 – Site Inspections during Construction

B. Compliance with Permit Conditions	The MCSWCD provided onsite inspections during active construction. Village staff was responsible for follow-up enforcement of the storm water requirements.
C. Information Collected and Analyzed	14 Land Disturbance permits were opened (see Exhibit H for report from MCSWCD).
D. Activities for Next Reporting Cycle	Continue site inspections by MCSWCD of reported construction sites.

4. BMP E.6 – Post-Construction Inspections

B. Compliance with Permit Conditions	The Macon County Soil and Water Conservation District inspects detention basins.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue evaluation of existing operation and maintenance policies and amend as necessary.

Annual Evaluation Statement

To evaluate the effectiveness of our Post Construction controls, the following will be documented:

The SWCD partners with the Village of Mt Zion, Village of Forsyth, and the City of Decatur to inspect 25% of each municipality's detention basins per year. The Village will partner with the SWCD to determine which BMPs need to

be focused on in future training/education.

POLLUTION PREVENTION / GOOD HOUSEKEEPING

1. BMP F.1 – Employee Training Program

B. Compliance with Permit Conditions	Employees attended the MCSWCD Workshop on 7/12/19. They also attended MS4 meetings on 8/20/19 and 1/28/20.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Provide employee training regarding one category of BMP.

2. BMP F.3 – Municipal Operations Storm Water Control

B. Compliance with Permit Conditions	The Village continued the practice of washing their vehicles in closed facilities that drain to sanitary sewers.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue to enforce the use of the designated wash facilities.

3. BMP F.6 – Other Municipal Operations Control

B. Compliance with Permit Conditions	The Village continued to use salt application devices to regulate salt applied to roads for snow removal. The Village continued to store salt in a covered facility. Catch basin and storm sewer inlet grates were cleaned as needed during the reporting period. In addition, a catch basin cleaning project was done in April of 2019. Street sweeping was performed April 2019 and November 2019. The Village applies fertilizer at our parks/Village Hall on an "as needed" basis. We read and follow the label that is on the chemical we are using to determine how much to apply, and how frequently to apply it. All fertilizers, pesticides, and herbicides are stored in a closed facility (pole barn), on a pallet to keep it up off the ground.
C. Information Collected and Analyzed	N/A
D. Activities for Next Reporting Cycle	Continue salt storage and application reduction measures, street sweepings, and appropriate use of fertilizers.

Annual Evaluation Statement

To evaluate the effectiveness of our Good Housekeeping controls, the following will be documented:

Employee training: We plan to leave room at every MS4 Work Group Meeting for sharing of new educational resources, information. An effort will be made to share educational items across municipalities.

The Village will encourage employees to notify their supervisor of any housekeeping items to be addressed.

E. PERMIT OBLIGATIONS PERFORMED BY ANOTHER ENTITY

1. The Village of Mt. Zion along with the Village of Forsyth and the City of Decatur has contracted with the Macon County Soil and Water Conservation District (SWCD) for the collection of permit fees, inspection and enforcement of the Land Disturbance Permit process. Each of the communities has adopted a Land Disturbance

Permit Ordinance with similar wording and requirements. The Macon County Soil and Water Conservation District is responsible for onsite inspections and each community is responsible for enforcement of erosion and sedimentation requirements of the NPDES Permit.

F. CONSTRUCTION PROJECTS DURING REPORTING PERIOD

No Village of Mt. Zion construction projects disturbed one or more acres for the reporting year.

G. Monitoring Program

The Village completed a visual observation at two locations of Finley Creek, one upstream where the creek enters the Village and one where the creek exits the Village. See Exhibits D through G for the creek evaluation.

Best Management Practices for Individual Lot Construction

Correctly installed and maintained BMP's can help ensure that sediment generated from construction activity remains on-site. The following BMP's are commonly used for individual lot construction:

Construction Entrance

- Use to prevent tracking soil onto road
- Use 2"-3" stone, 6" deep
- Install during clearing phase and maintain throughout construction
- Install geotextile fabric under enterance

Rock Outlet Protection

- Use to dissipate energy from concentrated flows
- Helps prevent eroded channels downstream
- Use oversized stone appropriate for design velocities
- Install geotextile fabric under riprap

Sediment Barriers

- Use to trap sediment and intercept runoff
- Install prior to clearing phase
- Ensure silt fence is installed correctly by entrenching a portion of it in the ground and place stakes on the downhill side
- Maintain until vegetation is established; keep it upright and remove collected sediment
- Do not use on steep slopes or concentrated flow areas

Sediment Cleanup

- At the end of each work day sweep or scrape soil tracked onto roads
- After storm events inspect for off-site sediment movement and repair damage to barriers
- Remove sediment that penetrated barriers and remove build-up

Inlet Protection

- Protect all stormwater inlets- they are a direct conveyance to streams and rivers
- Install prior to clearing phase
- Filter fabric and temporary seeding are standard for inlet protection

Stockpile Placement and Protection

- Build stockpiles away from critical areas such as streams, drainage ways, and stormwater inlets
- Use temporary seed, such as rye or winter wheat, to stabilize pile until removed or re-graded

Re-vegetation/ Surface Protection

- Try to preserve existing trees, shrubs, and other vegetation when possible
- Use to stabilize exposed surfaces from erosion
- Use seed or sod to cover exposed soils after final grade is completed
- Seed critical areas such as drainage swales, right-to-way areas,areas near curb inlets, buffer areas along streams and wetlands
- Mulching can be used when temporary seeding is not practical and can be done in any weather situation

"All the water that will ever be is right now"

EXHIBIT A

Why do we care about Erosion from Construction Sites?

Sediment is the number one pollutant that flows from construction sites. It degrades water quality and can harm our water supply.

Macon County, the City of Decatur, the Village of Forsyth, and the Village of Mt. Zion are working together to do their part in protecting and improving water quality.

This brochure is designed to be a quick reference to some commonly used Best Management Practices to prevent erosion.

Failure to install BMP's could bring about costly fines, stop work orders, and expensive clean ups.

Who Should I Contact?

City of Decatur
Mary Cave 217-424-2724

Macon County
Jennifer Hoffman 217-425-6583

Village of Forsyth
Larry Coloni 217-433-9597

Village of Mt. Zion
Grant Corum 217-864-4811

For Inspections:

In Macon County: 217-425-6583

Decatur, Forsyth, & Mt. Zion:

Macon County Soil and Water Conservation District:

217-877-5670 Ext. 3

Erosion & Sediment Control Tips for Individual Lot Construction

www.maconcleanwater.org.

A collaborative effort of the Macon County MS4 Communities

permanent lawns.

g Chart
er 15

Permanent Seeding Chart
Early spring to May 15, August 1 to September 10
Dormant Seeding –November 15 through Freeze

e/1000 sq ft.	Species	Rate/1000 sq. ft.
2 lbs) lbs/acre)	Kentucky Blue Grass Blend Min. 3 varieties	2-3 lbs
(90 lbs./acre)	Kentucky Blue Grass Perennial Ryegrass mix 2:1	3-4 lbs
(90 lbs/acre)	Kentucky Bluegrass Fine Fescue mix 2.5:1 Shade	3-5 lbs
s (25 lbs/acre)	Tall Fescue Blend High Traffic Areas or Hot Dry sites	5-6 lbs.

porary erosion

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operating up
racks from

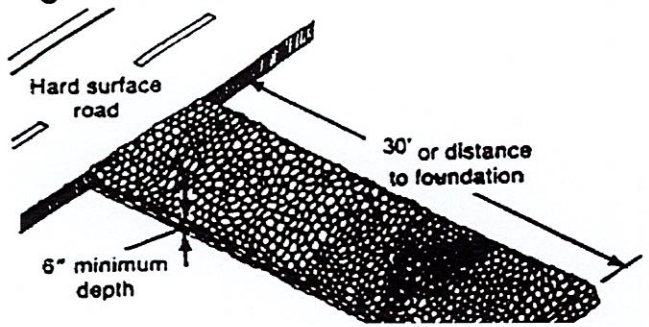
or soil stabilizer
mmendations.

ng after rain events

Stabilized Construction Entrance

1. Install as soon as possible after grading.
2. Use filter fabric as layer between dirt and aggregate stone.
3. Drive must be at least as wide as the ingress and egress (or 14 ft. minimum) and extend from the foundation to the Street (30 ft. minimum).
4. Replace as needed to maintain 6 inch depth.

Figure 5—How to Install a Gravel Entrance



HOMEBUILDERS

Macon County Soil and Water Conserva

Controlling Erosion is Easy…AND THE LAW…It

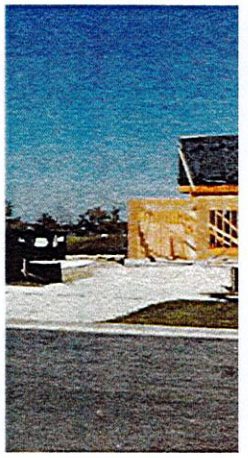
Eroding construction sites are a leading cause of water quality problems construction, about a dump truck and a half of soil washes into nearby lakes an

Problems caused by this sediment include

Increased Flooding – Sediment build-up lowers the flow capacity of channels causing more frequent flooding in areas that rarely or never flooded before.

Financial Burden finds it way into st result in additional state and federal g

Water Quality Impairment – Sediment laden runoff transfers nutrients and other pollutants to downstream lakes and rivers degrading aquatic habitats and increasing costs for water treatment.



Erosion control is important even for home sites less than an acre. The materials (straw, silt fence, stakes, gravel, plastic tubes, and grass seed) are easy to find and relatively inexpensive. Putting these materials to use is a straightforward process. Only a few controls are needed on most home sites.

Simple…but Effective Controls Include….

Preserving existing trees and grass where possible;

Silt Fence to trap sediment on the down slope sides of the lot and soil piles;

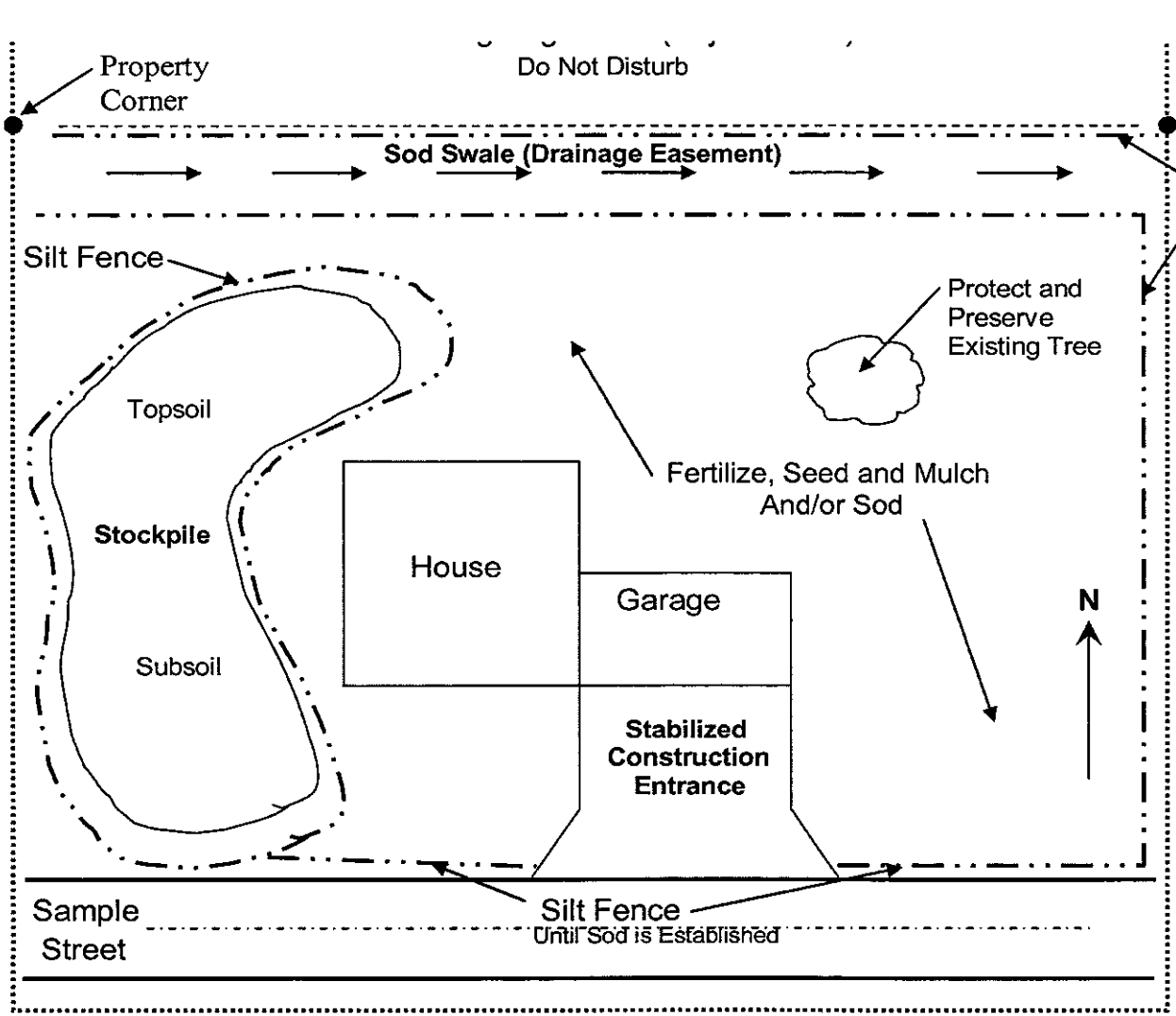
Soil Piles located away from any roads or waterways;

Gravel Drive used by all vehicles to limit tracking of mud

Cleanup sediment c

Downspout Extend runoff; and

Reseed or Sod the s



WARNING – Extra measures may be needed if your site:

- Site is within 300 feet of a stream or wetland
- Site is within 1000 feet of a lake
- Site receives runoff from 10,000 sq. ft or more of adjacent land
- Site has steep slopes (slopes of 12% or more)
- Site has a waterway or ditch.
- Site has more than one acre of disturbed ground.

This fact sheet includes the diagrams and step-by-step instructions for common best management practices that can be used by builders on most home sites. Additional controls may be needed for sites that are on steep slopes, are adjacent to lakes, streams, rivers and wetlands, receive a lot of runoff from adjacent land or are larger than one acre.

EXHIBIT C

Champaign County
Partnership

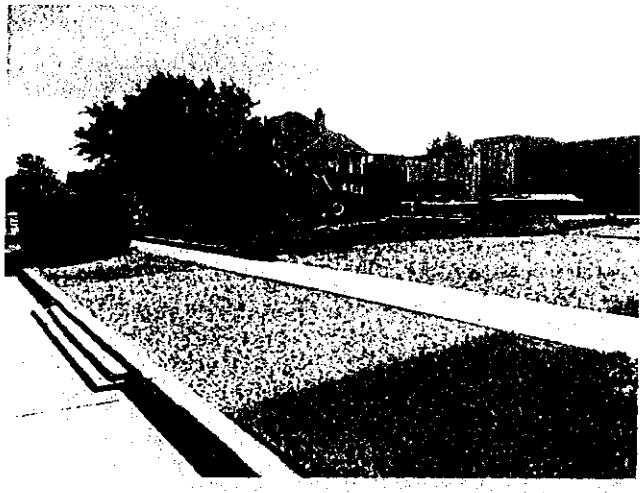
Erosion Control & Green Infrastructure Conference Agenda

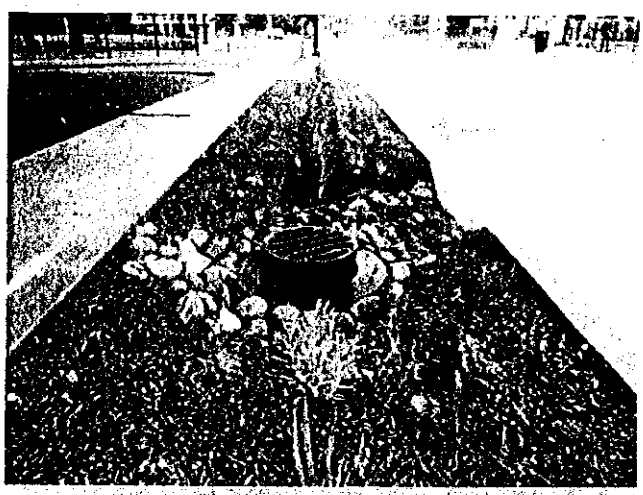
July 12, 2019 IHotel	
8:00 am	Registration and Breakfast Reception
8:30 am to 8:45 am	Welcome and Opening Remarks (Christine Davis, IEPA)
Presenters	
8:45 am to 9:30 am	Holly Hirchert, IEPA: Changes to the General NPDES Permit for Storm Water Discharges from Construction Site Activities (ILR10)
9:45 am to 10:45 am	Professor Kalita & Professor Bhattarai, University of Illinois: Erosion Control Research & Training Center – An Overview
10:45 am to 11:00 am	Break
11:00 am to 12:00	John Warren, HANES: Stabilization Even When The Weather Does Not Cooperate
12:00 pm to 1:00 pm	Lunch
1:00 pm to 1:45 pm	Eliana Brown & Lisa Merrifield, Illinois Extension: Green Stormwater Infrastructure: Practices, Economics and Resources
1:45 pm to 2:30 pm	Heidi Leuszler, Parkland College: The National Green Infrastructure Certification Program
Tours	
2:30 pm to 2:45 pm	Load bus and travel
3:00 pm to 4:00 pm	Sediment and erosion control demonstrations – Erosion Control Research & Training Center 3603 E. Race St. Urbana, IL

City of Champaign - City of Urbana - Champaign County
Champaign County Soil and Water Conservation
University of Illinois at Urbana-Champaign - Village of Savoy

2019 Erosion Control & Green Infrastructure Stormwater Conference

Friday, July 12, 2019, 8:00 a.m. to 4:00 p.m.
I Hotel and Conference Center





City of Champaign • City of Urbana • Champaign County
Champaign County Soil and Water Conservation
University of Illinois at Urbana-Champaign • Village of Savoy

Introduction

The Champaign County Stormwater Partnership (CCSP) extends a warm welcome to all in attendance for today's stormwater conference.

Today's conference is designed to engage the audience on how we can all work collectively to achieve the goals of the Clean Water Act. This event is designed to educate and demonstrate the existing products and technologies available to us, how to properly install best management practices before and during a project, that will improve cost, safety and compliance. We will also hear about the ongoing research on economic and social impacts that affects communities that install green infrastructure into their projects, and how the industry is creating a consistent practice of standards for the use, design, installation, operation and maintenance for green infrastructure.

We will end our conference with an exceptional tour of one of the only sites available that teaches, and performs tests for erosion and sediment control products, allowing the industry to understand proper installation and use.

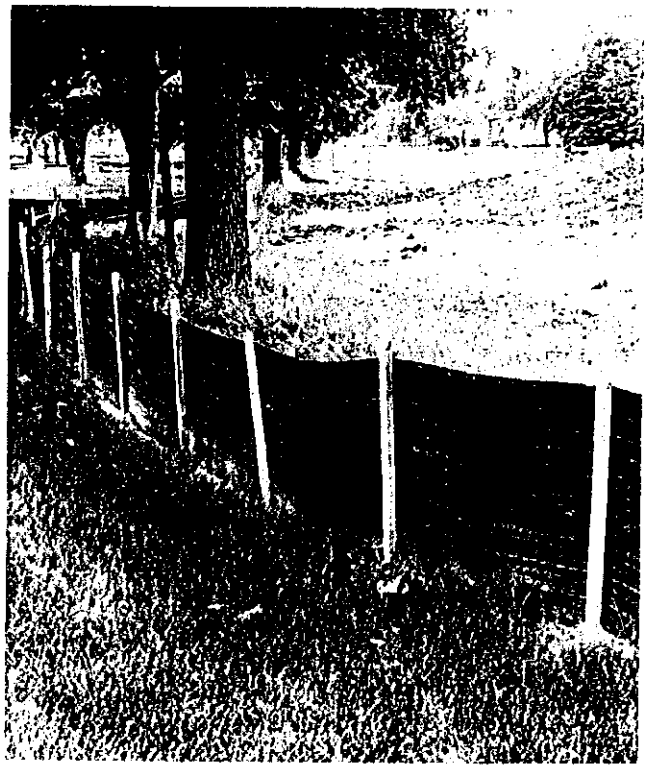
Welcome/Opening Remarks

Christine Davis is the Watershed Management Section Manager in the Bureau of Water at Illinois EPA which includes the Planning Unit (also known as the Total Maximum Daily Load Unit), the Nonpoint Source (NPS) Unit and Illinois Nutrient Loss Reduction Strategy. Chris previously worked in the NPS Unit for 27 years, routinely assisting not-for-profit organizations and local governments to develop watershed-based plans and implement site-specific and watershed-wide nonpoint source pollution control programs and projects, including the Illinois Green Infrastructure Grant Program.

2019 Erosion Control & Green Infrastructure Stormwater Conference Agenda

July 12, 2019 I Hotel and Conference Center

8:00	Registration and Breakfast Reception
8:30	Opening Remarks "Next Door Knowledge" by Christine Davis
8:45	Changes to the General NPDES Permit for Storm Water Discharges from Construction Site Activities (ILR10) by Holly Hirchert
9:45	Overview of the Erosion Control Research & Training Center by Professor Prasanta Kalita, PhD and Assistant Professor Rabin Bhattari, PhD
10:45	Break
11:00	Stabilization, Even When the Weather Does Not Cooperate by John Warren
12:00	Complementary Lunch and Slideshow of Erosion Control and Green Infrastructure in our local watersheds
1:00	Illinois Extension: Green Stormwater Infrastructure Practices, Economics and Resources by Eliana Brown and Lisa Merrifield
1:45	The National Green Infrastructure Certification Program by Heidi Leuszler
2:30	Break
2:45	Load Bus for Tour: University of Illinois Erosion Control Research & Training Center, located at 3603 E Race St. Urbana, IL 61801
4:00	Return to I Hotel and Conference Center, end of conference



Holly Hirchert is an Environmental Protection Engineer working as an inspector for the Illinois Environmental Protection Agency in the Champaign Regional Office. Ms. Hirchert is responsible for inspecting construction sites and industrial facilities that are covered by the general stormwater permits. She audits permitted small municipal separate storm sewer systems (MS4s) and inspects industrial wastewater treatment plants that are covered by individual national pollutant discharge elimination system (NPDES) permits.

Prasanta Kalita, PhD is a professor of Soil and Water Resources Engineering, and the Presidential Fellow of the University of Illinois System. A Fellow of the American Society of Agricultural and Biological Engineers (ASABE) and Indian Society for Agricultural Engineering (ISAE), Dr. Kalita's areas of research include water resources management and environmental sustainability, food security, and water quality.

Rabin Bhattarai, PhD is an assistant professor of Soil and Water Resources Engineering at the University of Illinois at Urbana-Champaign. His research group works on developing sustainable engineering solutions to improve water quality and crop production. His areas of research include climate-water-food nexus, non-point source pollution control, and water quality.

John Warren, CPESC is the Midwest Region Manager for HANES Geo Components the largest distributor of Geo Products in the world. He assists owners, engineers, architects and project managers in solving their erosion & sediment control issues on jobsites across 7 states. He is a Certified Professional in Erosion & Sediment Control and a founding Board Member on the Great Rivers Chapter of the International Erosion Control Association.

Eliana Brown is a Water Quality Specialist with University of Illinois Extension and Illinois-Indiana Sea Grant. She works with communities, Master Gardener organizations, and others to educate members on stormwater pollution and best management practices. She leads Extension's role in facilitating the Illinois Nutrient Loss Reduction Strategy.

Lisa Merrifield is the sustainable community specialist within University of Illinois Extension's Community and Economic Development Team. She works with University of Illinois faculty, Extension specialists, Extension Educators and community leaders to identify opportunities and approaches that help local governments and organizations address the challenges they face.

Heidi Leuszler is a Professor of Biology and Sustainability at Parkland College, Champaign, IL. While her primary duties include teaching environmental science classes, she also works collaboratively with numerous entities in the community focused on sustainable agriculture and green infrastructure. Heidi has a certification from the National Green Infrastructure Certification Program and is also a national trainer for the program.

The CCSP is a collaboration of local government entities in Champaign County, Illinois consisting of Champaign County, City of Champaign, City of Urbana, University of Illinois at Urbana-Champaign, the Village of Savoy and the Champaign County Soil & Water Conservation District. We share common resources and efforts to develop a regional consistency in fulfilling Municipal Separate Storm Sewer System (MS4) permit requirements to improve the quality of stormwater that runs off of the land and into rivers, lakes, and streams.

Thank you for joining us today. Look for our next stormwater forum education conference in 2020, which will be hosted by Macon County Municipal Separate Storm Sewer System Group.

Special Thanks to CCSP partners for planning, MTD for transportation, and Macon County MS4 group for help with registration and coordination.

Champaign County Stormwater Partnership

Champaign County

John Hall, Director of Planning and Zoning

Amy Heffernan, Associate Planner

Champaign County Soil and Water Conservation District

Erin Bush, Resource Conservationist

Renee Weitekamp, Administrative Coordinator

City of Champaign

Eleanor W. Blackmon, P.E. Assistant City Engineer

Alex M. Nagy, P.E., Civil Engineer III

Beverly Maddock, Eng Tech II/Erosion Ctrl Insp

Leslie Heath Engineering Technician II

City of Urbana

Brad Bennett, P.E., Assistant City Engineer

Beth Reinke, Stormwater Engineering Tech

Justin Swinford, P.E., Civil Engineer II

University of Illinois at Urbana Champaign

David Wilcoxen, Associate Director Environmental Compliance

Betsy Liggett, Coordinator, Special Program, Environmental Compliance

Colleen Ruhter, P.E., Coordinator, Special Programs, Environmental Compliance

Village of Savoy

Levi Kopmann, Assistant Village Manger–Public Works/ Engineer

Jesse Stephens, Assistant Director of Public Works

EXHIBIT D

Illinois RiverWatch Network
SITE IDENTIFICATION FORM

1. **WATERBODY NAME:** FINLEY CREEK
Use the name of the waterbody (stream/river) as it appears on a USGS 7 ½ minute topographic map, or some other reliable map. If the name of the waterbody is unknown, write "UNKNOWN," or ask someone who lives near the site if they know the name.

2. **WATERSHED NAME:** SANAGAMON RIVER
List the watershed in which your stream site lies. Use the names of the 10 watershed recognized by the RiverWatch Program (see list and map below).

3. **COUNTY:** MACON
Write the name of the county in which the stream site lies.

4. **NEAREST TOWN/CITY:** MOUNT ZION
Write the name of the town/city in which the stream site lies.

5. **LOCATION DESCRIPTION:** _____
Provide a brief statement on the direction and distance of the site from a stationary landmark that can be identified on a road map or topographic map. A stationary landmark can be defined as a town, church, school, bridge, road or road crossing. For example, a location description for a stream site would be written as: ½ MILE SOUTH OF THE INTERSECTION OF CR 1200 E AND CR 800 N.

6. **LATITUDE:** 39.7689 **LONGITUDE:** -88.8860
Latitude and longitude coordinates are to be written as decimal degrees to 4 decimal places. For example: 20.0075°

How did you acquire the longitude/latitude coordinates? (Circle one) GPS Topo Map (ArcView) Unknown

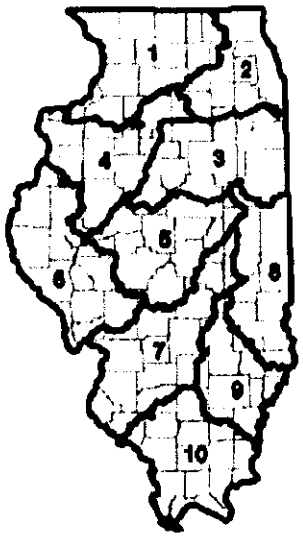
7. **TOPOGRAPHIC MAP NAME:** DECATUR
Write the name of the USGS 7 ½ minute topographic map that was used to determine the legal description of the site. The name of the map can be found in the upper and lower right hand corners of the map.

8. **RANGE:** 3E **TOWNSHIP:** 15N **SECTION:** 9 **QUARTER SECTION:** NW
Write the range, township, section and quarter section values in the banks above.

9. **COMPLETED BY:** JEREMY BUENING
Print full name.

WATERSHED NAMES USED BY RIVERWATCH:

1. Rock River
2. Fox and DesPlaines Rivers
3. Kankakee, Mackinaw, and Vermilion Rivers
4. Spoon River
5. Sangamon River
6. LaMoine River
7. Kaskaskia River
8. Embarras and Vermilion Rivers
9. Little Wabash River
10. Big Muddy, Saline, and Cache Rivers



Illinois RiverWatch Network
SITE EVALUATION FORM

Waterbody: FINLEY CREEK Evaluation Date: 3/23/20

Completed By: J. BUENING

1. Owner / Manager Property Access Permission. ☒ YES ☐ NO

An X in the YES space indicates that a PROPERTY ACCESS PERMISSION form has been signed and completed for this site. The signed permission form must accompany the registration materials prepared for this site.

Landowner's Name: _____ Phone Number: _____

2. Protected Areas. Please check one.

☐ The site is located in an Illinois Natural Preserve / Illinois Land and Water Reserve.

NAME OF PRESERVE / RESERVE: _____

NOTE: If the potential site is located within an Illinois Nature Preserve or an Illinois Land and Water Reserve, a permit MUST be requested from the Illinois Preserve Commission. A permit may take up to, or more than, 30 days to receive. Permit application does not guarantee permission to monitor.

☐ The site is NOT located within an Illinois Nature Preserve nor an Illinois Land and Water Reserve.

3. Directions to Site. Provide directions to the stream site. Be specific in your directions. You may include travel routes and any obvious landmarks. Indicate where and how far one would walk or drive from an obvious reference point. For example: Travel south on St. Hwy. 105 to Old Farm Road. Turn left. The stream is located underneath the third bridge crossing. You will see a foot bridge downstream. The beginning of the 200 ft site is marked by a large rock located 100 ft downstream from the foot bridge. Use the rock as you zero point and measure 200 ft downstream.

Travel south from the intersection of US Rt 36 and Baltimore Ave for 3.3 miles. Then go east on Main St for 0.30 mile and turn right onto Carrington Ave. Travel south 0.40 miles and walk east for 500 ft.

4. Suitability of Site. Evaluate the site according to the physical criteria listed below.

PHYSICAL SUITABILITY

☒ Location	If the site is located at a bridge crossing, the site must be located a minimum of 100 ft upstream or downstream from the bridge.
☒ Depth	The site must be wadeable; knee deep or less across most of the entire site at time of monitoring.
☒ Stream flow	An estimate of the stream flow must not exceed 9 ft^2/sec at the time of monitoring. If the product of the depth (feet) and velocity (feet/second) exceeds nine, the stream flow is generally considered unsafe for monitoring.

SAFETY

☒ Safe access	The site must be safely accessed for monitoring activities and be located in an area free of dangerous waste, debris and other threats to personal safety. Parking availability must allow ample space for the safe loading and unloading of monitoring equipment. Bank stability and slope must be sufficient to allow safe, easy access to the stream from at least two points along the study reach.
☐ Parking	Location of parking and the number of cars that may be parked in this area: _____

EXHIBIT E

Illinois RiverWatch Network
SITE IDENTIFICATION FORM

1. **WATERBODY NAME:** FINLEY CREEK
   Use the name of the waterbody (stream/river) as it appears on a USGS 7 ½ minute topographic map, or some other reliable map. If the name of the waterbody is unknown, write "UNKNOWN," or ask someone who lives near the site if they know the name.

2. **WATERSHED NAME:** SANAGAMON RIVER
   List the watershed in which your stream site lies. Use the names of the 10 watershed recognized by the RiverWatch Program (see list and map below).

3. **COUNTY:** MACON
   Write the name of the county in which the stream site lies.

4. **NEAREST TOWN/CITY:** MOUNT ZION
   Write the name of the town/city in which the stream site lies.

5. **LOCATION DESCRIPTION:** _____
   Provide a brief statement on the direction and distance of the site from a stationary landmark that can be identified on a road map or topographic map. A stationary landmark can be defined as a town, church, school, bridge, road or road crossing. For example, a location description for a stream site would be written as: ½ MILE SOUTH OF THE INTERSECTION OF CR 1200 E AND CR 800 N.

6. **LATITUDE:** 39.7931 **LONGITUDE:** -88.8856
   Latitude and longitude coordinates are to be written as decimal degrees to 4 decimal places. For example: 20.0075°

   How did you acquire the longitude/latitude coordinates? (Circle one) GPS Topo Map (ArcView) Unknown

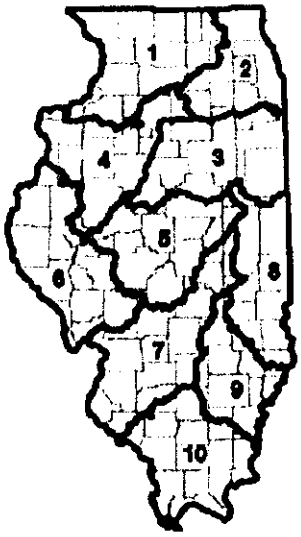
7. **TOPOGRAPHIC MAP NAME:** DECATUR
   Write the name of the USGS 7 ½ minute topographic map that was used to determine the legal description of the site. The name of the map can be found in the upper and lower right hand corners of the map.

8. **RANGE:** 3E **TOWNSHIP:** 16N **SECTION:** 32 **QUARTER SECTION:** SW
   Write the range, township, section and quarter section values in the banks above.

9. **COMPLETED BY:** JEREMY BUENING
   Print full name.

WATERSHED NAMES USED BY RIVERWATCH:

1. Rock River
2. Fox and DesPlaines Rivers
3. Kankakee, Mackinaw, and Vermilion Rivers
4. Spoon River
5. Sangamon River
6. LaMoine River
7. Kaskaskia River
8. Embarras and Vermilion Rivers
9. Little Wabash River
10. Big Muddy, Saline, and Cache Rivers



Illinois RiverWatch Network
SITE EVALUATION FORM

Waterbody: FINLEY CREEK Evaluation Date: 3/23/20

Completed By: J. BUENING

1. Owner / Manager Property Access Permission. ☒ YES ☐ NO

An X in the YES space indicates that a PROPERTY ACCESS PERMISSION form has been signed and completed for this site. The signed permission form must accompany the registration materials prepared for this site.

Landowner's Name: _____ Phone Number: _____

2. Protected Areas. Please check one.

☐ The site is located in an Illinois Natural Preserve / Illinois Land and Water Reserve.

NAME OF PRESERVE / RESERVE: _____

NOTE: If the potential site is located within an Illinois Nature Preserve or an Illinois Land and Water Reserve, a permit MUST be requested from the Illinois Preserve Commission. A permit may take up to, or more than, 30 days to receive. Permit application does not guarantee permission to monitor.

☐ The site is NOT located within an Illinois Nature Preserve nor an Illinois Land and Water Reserve.

3. Directions to Site. Provide directions to the stream site. Be specific in your directions. You may include travel routes and any obvious landmarks. Indicate where and how far one would walk or drive from an obvious reference point. For example: Travel south on St. Hwy. 105 to Old Farm Road. Turn left. The stream is located underneath the third bridge crossing. You will see a foot bridge downstream. The beginning of the 200 ft site is marked by a large rock located 100 ft downstream from the foot bridge. Use the rock as you zero point and measure 200 ft downstream.

Travel south from the intersection of US Rt 36 and Baltimore Ave for 2.2 miles. Then go east on Bakerridge Place for 0.20 mile and walk 630 feet North.

4. Suitability of Site. Evaluate the site according to the physical criteria listed below.

PHYSICAL SUITABILITY

☒ Location	If the site is located at a bridge crossing, the site must be located a minimum of 100 ft upstream or downstream from the bridge.
☒ Depth	The site must be wadeable; knee deep or less across most of the entire site at time of monitoring.
☒ Stream flow	An estimate of the stream flow must not exceed 9 ft^2/sec at the time of monitoring. If the product of the depth (feet) and velocity (feet/second) exceeds nine, the stream flow is generally considered unsafe for monitoring.

SAFETY

☒ Safe access	The site must be safely accessed for monitoring activities and be located in an area free of dangerous waste, debris and other threats to personal safety. Parking availability must allow ample space for the safe loading and unloading of monitoring equipment. Bank stability and slope must be sufficient to allow safe, easy access to the stream from at least two points along the study reach.
☐ Parking	Location of parking and the number of cars that may be parked in this area: _____

EXHIBIT F

VILLAGE OF
MT. ZION

Outfall Monitoring Sheet

Site ID #: R0510301
Stream: Finley Creek
Date: 5/4/2020

Name(s) of Inspector(s): Jeremy Buening

Start Time: 3 : 05 pm **End Time:** 3 : 43 pm

Present Weather
- X Clear/Sunny
- ___ Overcast
- ___ Showers (Intermittent)
- ___ Rainy (Steady)
- ___ Stormy (Heavy)

Worst Weather in past 48 hours
- ___ Clear/Sunny
- ___ Overcast
- ___ Showers (Intermittent)
- X Rain (Steady)
- ___ Storm (Heavy)

Temperature
Air 63 °F
Water 52 °F

Water Appearance
- X Clear
- ___ Milky
- ___ Foamy
- ___ Dark Brown
- ___ Oily Sheen
- ___ Reddish
- ___ Green
- ___ Other ___

Water Odor
- X None
- ___ Sewage
- ___ Chlorine
- ___ Fishy
- ___ Rotten Eggs
- ___ Petroleum
- ___ Other ___

Turbidity
- X Clear
- ___ Slight
- ___ Medium
- ___ Heavy

Canopy Cover ☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Algal Growth ☐ 0% ☒ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Substrate Siltation Coverage: Estimate the percentage of the stream bed that is covered by silt. NOT VISIBLE
☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Are there Submerged Aquatic Plants? Yes (No)
If yes, what types? ___

List the types of **riparian (stream side) vegetation** present at the site. Trees, Grasses, Shrubs

Bottom Substrate: Using the percent codes below, record the percentage of each of the materials that make up the stream bottom by writing the percent code letter in the blank next to the bottom substrate type. If the substrate is not present at the site, write letter A in the blank.

Percent cover codes: A = 0% B = 1-5% C = 6-25% D = 26-50% E = 51-75% F = 76-100%

- ___ Bedrock
- ___ Boulder (> 10 in)
- ___ Hard Pan Clay
- ___ Cobble (2.5 in – 10 in)
- ___ Gravel (0.1 in – 2.5 in)
- ___ Other ___
- C Sand (<0.1 in)
- E Silt

Stream Discharge Estimate

Stream Width: 30 feet
A

If you can only record two depth or velocity measurements, please calculate the average by dividing the sum by 2.
If only one measurement is taken, use the single value as the average.

Depth Measurements:

1. 4 ft
2. 3.5 ft
3. 3.5 ft

Average Depth = 3.67 feet
B

Velocity Calculations:
12 ft ÷ 11.13 seconds = 1.08 ft/sec
12 ft ÷ 10.91 seconds = 1.10 ft/sec
12 ft ÷ 10.02 seconds = 1.20 ft/sec

Average Velocity = 1.13 ft/sec
C

Discharge (width x depth x velocity) 30 ft x 3.67 ft x 1.13 ft/sec = 124.41 ft^3/sec
A B C

Land Uses

Record all visible land uses occurring upstream and on either side of the stream site. Indicate which land uses are **dominant (D)** and which **affect small areas (X)**. If a listed land use is not present, leave blank.

D	Forest (W1)		Logging (W2)		Golf Course (W3)
	Grassland and Ungrazed Field (W4)		Commercial (W6)		Scattered Residential (W7)
X	High-Density Residential/Urban (W8)		Cropland (W9) Type? (W9T) _____		Sewage Treatment (W10)
	Park (W11)		Mining (W12) Type? (W12T) _____		Sanitary Landfill (W13)
	Livestock Pasture (W14)		Construction (W15) Type? (W15T) _____		Industrial (W16)
	Other (W17) _____				

Please circle YES or NO and provide the necessary information to answer the following questions:

1. **Upstream dam?** (including beaver dams) (YES) NO
   If yes, approximately how far upstream? Evidence of a beaver near location
2. **Wastewater treatment discharge upstream?** YES (NO)
   If yes, approximately how far upstream? _____
3. **Any pipes emptying directly into or near your study site?** YES (NO)
4. **Channel Alteration.** Has the stream been channelized (straightened) at your site? YES (NO)
   If yes, what percentage of your site has been channelized? _____ %

Habitat Survey Notes (Include sediment odors, appearance, and/or the presence of silt, watershed features present but not listed on this data sheet, and any other information you feel is important or interesting to mention. Attach separate sheet if needed.)

EXHIBIT G

VILLAGE OF
MT. ZION

Outfall Monitoring Sheet

Site ID #: R0510301
Stream: Finley Creek
Date: 5/4/2020

Name(s) of Inspector(s): Jeremy Buening

Start Time: 4 : 15 pm **End Time:** 4 : 41 pm

Present Weather
- X Clear/Sunny
- ___ Overcast
- ___ Showers (Intermittent)
- ___ Rainy (Steady)
- ___ Stormy (Heavy)

Worst Weather in past 48 hours
- ___ Clear/Sunny
- ___ Overcast
- ___ Showers (Intermittent)
- X Rain (Steady)
- ___ Storm (Heavy)

Temperature
Air 63 °F
Water 52 °F

Water Appearance
- X Clear
- ___ Milky
- ___ Foamy
- ___ Dark Brown
- ___ Oily Sheen
- ___ Reddish
- ___ Green
- ___ Other ___

Water Odor
- X None
- ___ Sewage
- ___ Chlorine
- ___ Fishy
- ___ Rotten Eggs
- ___ Petroleum
- ___ Other ___

Turbidity
- X Clear
- ___ Slight
- ___ Medium
- ___ Heavy

Canopy Cover ☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Algal Growth ☐ 0% ☒ 1-5% ☐ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%
Substrate Siltation Coverage: Estimate the percentage of the stream bed that is covered by silt. NOT VISIBLE
☐ 0% ☐ 1-5% ☒ 6-25% ☐ 26-50% ☐ 51-75% ☐ 76-100%

Are there Submerged Aquatic Plants? Yes (No)
If yes, what types? ___

List the types of **riparian (stream side) vegetation** present at the site. Trees, Grasses, ground covers

Blue Bell flowers

Bottom Substrate: Using the percent codes below, record the percentage of each of the materials that make up the stream bottom by writing the percent code letter in the blank next to the bottom substrate type. If the substrate is not present at the site, write letter A in the blank.

Percent cover codes: A = 0% B = 1-5% C = 6-25% D = 26-50% E = 51-75% F = 76-100%

- ___ Bedrock
- ___ Boulder (> 10 in)
- C Hard Pan Clay
- ___ Cobble (2.5 in – 10 in)
- ___ Gravel (0.1 in – 2.5 in)
- ___ Other ___
- C Sand (<0.1 in)
- E Silt

Stream Discharge Estimate

Stream Width: 31 feet
A

If you can only record two depth or velocity measurements, please calculate the average by dividing the sum by 2.
If only one measurement is taken, use the single value as the average.

Depth Measurements:

1. 4.1 ft
2. 4.6 ft
3. 5.0 ft

Average Depth = 4.6 feet
B

Velocity Calculations:
12 ft ÷ 9.08 seconds = 1.32 ft/sec
12 ft ÷ 7.86 seconds = 1.53 ft/sec
12 ft ÷ 8.19 seconds = 1.47 ft/sec

Average Velocity = 1.44 ft/sec
C

Discharge (width x depth x velocity) 31 ft x 4.6 ft x 1.44 ft/sec = 205.34 ft^3/sec
A B C

Land Uses

Record all visible land uses occurring upstream and on either side of the stream site. Indicate which land uses are **dominant (D)** and which **affect small areas (X)**. If a listed land use is not present, leave blank.

D	Forest (W1)		Logging (W2)		Golf Course (W3)
	Grassland and Ungrazed Field (W4)		Commercial (W6)		Scattered Residential (W7)
X	High-Density Residential/Urban (W8)		Cropland (W9) Type? (W9T) _____		Sewage Treatment (W10)
	Park (W11)		Mining (W12) Type? (W12T) _____		Sanitary Landfill (W13)
	Livestock Pasture (W14)		Construction (W15) Type? (W15T) _____		Industrial (W16)
	Other (W17) _____				

Please circle YES or NO and provide the necessary information to answer the following questions:

1. **Upstream dam?** (including beaver dams) YES (NO)
   If yes, approximately how far upstream? _____
2. **Wastewater treatment discharge upstream?** YES (NO)
   If yes, approximately how far upstream? _____
3. **Any pipes emptying directly into or near your study site?** YES (NO)
4. **Channel Alteration.** Has the stream been channelized (straightened) at your site? YES (NO)
   If yes, what percentage of your site has been channelized? _____ %

Habitat Survey Notes (Include sediment odors, appearance, and/or the presence of silt, watershed features present but not listed on this data sheet, and any other information you feel is important or interesting to mention. Attach separate sheet if needed.)

EXHIBIT H

Macon County Soil & Water Conservation District
3342 North President Howard Brown Blvd.
Decatur, IL 62521
217-877-5670 x 3

Yearly Report for MS4's
April 1, 2019 – March 31, 2020

The Macon County Soil and Water Conservation District employed Natalie Misner, Watershed Specialist and Manny Wei- Private Engineer, Watershed Technician to provide technical assistance to the MS4 Working Group and to conduct MS4 inspections. A record of applications and inspection reports are maintained at the Macon County SWCD office. The following summarizes the inspections.

City of Decatur: 21 permits (11 commercial, 10 residential) were taken out. Multiple sites are still open as March 31, 2020.

Village of Forsyth: 11 permits (10 residential, 1 commercial) were issued. Several sites still open.

Village of Mt. Zion: 14 permits (12 residential, 2 commercial) were taken out. Multiple sites are still open.

The total number of permits this year almost doubled. From 29 permits last year to 46 permits this year. Each site is inspected at least once with larger commercial sites being inspected multiple times throughout construction.

Education efforts: Stormwater presentation was presented at the Festival of Spring on April 27, 2019 with 325 attendees. Macon County Ms4 group worked with Champaign County to provide an MS4 Stormwater Workshop held on July 12, 2019 at the IHOTEL in Champaign. The focus was on ILR10 Permit updates and BMPs with 50 participants in attendance.

The Macon County MS4 working group also maintains a website, www.maconcleanwater.com. From April 1, 2019 to March 31, 20 the site had a total of 11,203 total views.

The SWCD staff present educational programs on urban erosion and water quality throughout the year. Each year the Macon County SWCD participates in Macon County Agucation, sponsored by Farm Bureau and held at Richland College, multiple conservation topics are discussed, over 600 students from Macon County participate each year. Throughout the year the Macon County SWCD staff has the opportunity to talk with and educate over 2500 individuals about conservation and stormwater/urban topics.