

Mt. Zion MS4 Annual Facility Inspection Report

April 1, 2020 – March 31, 2021



Prepared by: Chastain & Associates LLC
5 N. Country Club Road | Decatur, IL 62521
P: 217.422.8544 | F: 217.422.0398





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, 2020 To March, 2021

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 | <input type="checkbox"/> | 4. Construction Site Runoff Control | <input type="checkbox"/> |
| 2. Public Participation/Involvement | <input type="checkbox"/> | 5. Post-Construction Runoff Control | <input type="checkbox"/> |
| 3. Illicit Discharge Detection & Elimination | <input type="checkbox"/> | 6. Pollution Prevention/Good Housekeeping | <input type="checkbox"/> |

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:

Julie Miller

Printed Name:

6-1-21
Date:

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

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.

VILLAGE OF MT. ZION

April 1, 2020 to March 31, 2021 Annual Facilities Inspection Report (Year 7)

A. CHANGES TO BMP'S

- 1. No changes to BMPs were proposed during the Reporting Period.

B. COMPLIANCE WITH PERMIT CONDITIONS

C. RESULTS OF INFORMATION COLLECTED AND ANALYZED

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

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 virtual MS4 Workshop in February 2020. Resources presented at the workshop included IDOT, Illinois EPA, Paradigm and JULIE. Other events normally held during the year were cancelled due to CoVID restrictions.
C. Information Collected and Analyzed	The MS4 workshop had 36 attendees.
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 virtual MS4 workshop in February 2020. The event was advertised through fliers. Other events normally held during the year were cancelled due to CoVID restrictions. The Village also hosted a Sparkle & Shine event on May 9, 2020, see Exhibit E for advertising flier for this event.
C. Information Collected and Analyzed	The MS4 workshop had 36 attendees.
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 9,869 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.

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 were held at least every other month through the year.
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.

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 were held at least every other month through the year.
D. Activities for Next Reporting Cycle	Continue to attend local NPDES coordination meetings.

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 2021.
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.

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
5	Overcast	40/42 °F	Dark Brown	Medium	0.85 ft/sec	39.75 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
5	Overcast	42/44 °F	Dark Brown	Medium	0.9 ft/sec	94.5 ft ³ /sec

Storm water infrastructure will be mapped in 2021. After outfall locations are documented, 20% of outfalls 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	3 permits were issued through MCSWCD during the reporting year. 5 permits were issued through the Village.
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	One site plan required review during the reporting period.
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	One site plan required review during the reporting period.
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. In August 2020, these responsibilities were turned over to the Village staff.
C. Information Collected and Analyzed	3 permits were issued through MCSWCD during the reporting year. 5 permits were issued through the Village.
D. Activities for Next Reporting Cycle	Continue to conduct site inspections for developments subject to ILR10 and perform follow-ups as necessary.

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	One site plan required review during the reporting period.
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	11 site inspections were performed by MCSWCD during the reporting year. 7 site inspections were performed by the Village.
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 Village monitors outfall structures and 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 Village of Mt Zion inspects 25% of 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 a youtube training session on 12/18/2020. See Exhibit C for attendees.
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. Catch basin cleaning was performed in July 2020.
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: Pollution Prevention / Good Housekeeping (Section F)

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

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 assistance with educational and public outreach portions of the 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 Exhibit F for the creek evaluation.

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.



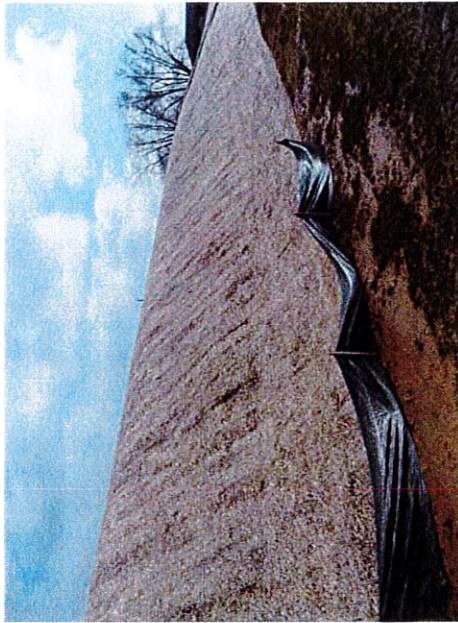
Who Should I Contact?

	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



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 entrance



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 trenching 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

COMMONLY USED EROSION CONTROLS TEMPORARY AND PERMANENT SEEDING

The following chart is intended to provide general information on establishing temporary vegetative cover and permanent lawns.

Temporary Seeding Chart <i>Early spring to October 15</i>		Permanent Seeding Chart <i>Early spring to May 15, August 1 to September 10 Dormant Seeding—November 15 through Freeze</i>	
Species	Rate/1000 sq. ft.	Species	Rate/1000 sq. ft.
Cereal (annual rye)grass	2 lbs (90 lbs./acre)	Kentucky Blue Grass Blend Min. 3 varieties	2-3 lbs
Oats	2 lbs. (90 lbs./acre)	Kentucky Blue Grass Perennial Ryegrass mix 2:1	3-4 lbs
Wheat	2 lbs. (90 lbs./acre)	Kentucky Bluegrass Fine Fescue mix 2.5:1 Shade	3-5 lbs
Perennial Ryegrass	0.6 lbs (25 lbs/acre)	Tall Fescue Blend High Traffic Areas or Hot Dry sites	5-6 lbs.

Mulching – Used to provide temporary erosion Protection.

Shape and grade as required while removing all rocks, clods and debris. Spread mulch uniformly at a rate of 90 lbs. per 1000 square feet of bare ground. No more than 25% of the ground should be visible.

Anchor mulch immediately using one of the following:

- Staple degradable plastic, polyester or paper netting over mulch with a 4-6 inch overlap at edges installed according to manufacturer's recommendations.
- Crimp or pinch mulch into soil 2-4 inches by using either a mulch anchoring tool or a farm disk operating on the contour of the slope OR by creating with bulldozer tracks operating up and down the slopes (to prevent tracks from forming gullies).
- Apply synthetic tackifier, binder or soil stabilizer According to manufacturer's recommendations.

Maintain adequate coverage by checking after rain events And reapplying when needed. Continue inspections and maintenance until permanent vegetation is established. Temporary seeding is only effective for one year.

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

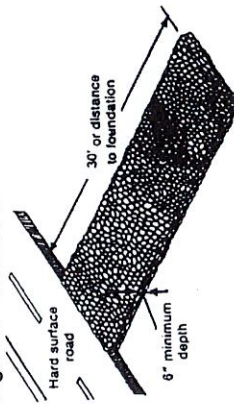


EXHIBIT B

EROSION CONTROL FOR HOMEBUILDERS Macon County Soil and Water Conservation District

Controlling Erosion is Easy... AND THE LAW... It's Important Because...

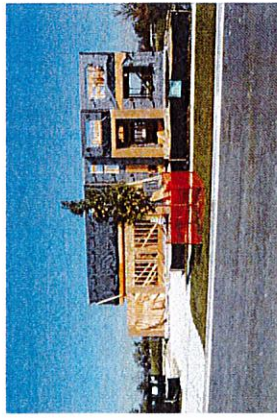
Eroding construction sites are a leading cause of water quality problems in Illinois. For every acre under construction, about a dump truck and a half of soil washes into nearby lakes and streams.

Problems caused by this sediment include:

Financial Burden to Taxpayers – Sediment that finds its way into streets, storm sewers, and ditches result in additional maintenance costs for local, state and federal governments.

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

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 onto streets;

Cleanup sediment carried off-site by vehicles or storms;

Downspout Extenders to prevent erosion from roof runoff; and

Reseed or Sod the site as soon as possible.

Macon County Soil and Water Conservation District,
3342 N Pres. Howard Brown Blvd, Decatur, IL 62521
Phone: 217-877-5670 x3

SILT FENCES

Put up before any other work is done. Install on down slope enough to allow water to pond behind the fence. Excavate a 6 inch wide by 6 inch deep trench along the contour of the slope. An additional 6 inches of fabric should extend along the bottom of the trench in the upslope direction. Inspect and repair once a week and after every one-half (1/2) inch rain. Remove sediment if deposits reach one-third the fence height. Maintain until lawn is established and then remove.

SOIL PILES

Locate away from any down slope street, driveway, stream, lake, wetland, ditch or drainage way. Place a silt fence around all stockpiles and, if necessary, polymers and/or temporary seeding such as annual rye or winter wheat.

STABILIZED CONSTRUCTION ENTRANCE

Install a single access "gravel drive" using 2-3 inch aggregate. Lay stone 6 inches deep, at least as wide as the ingress and egress (14 ft. minimum, and extend from the foundation to the street (30 ft. minimum). Use to prevent tracking mud onto the road by all vehicles. Maintain throughout construction.

SEDIMENT CLEANUP

At the end of each work day, sweep or scrape up soil tracked onto the road. By the end of the next work day after a storm, clean up the soil washed off-site.

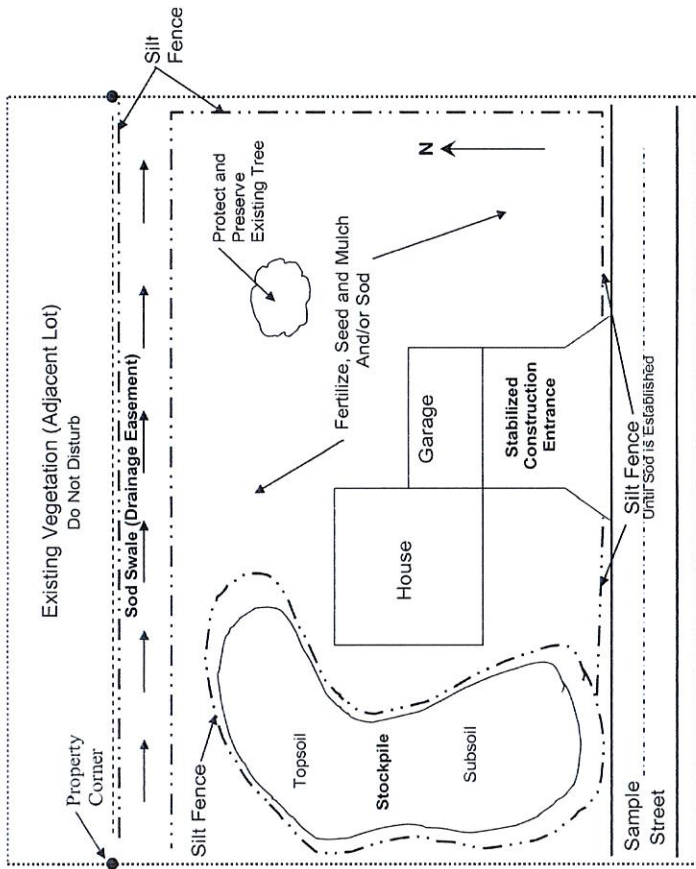
DOWNSPOUT EXTENDERS

Not required, but highly recommended. Install as soon as gutters and downspouts are complete to prevent erosion from roof runoff. Use plastic drainage pipe to route water to a grassed or paved area. Maintain until lawn is established.

STORM SEWER INLET PROTECTION

Protect on-site storm sewer inlets with the appropriate measures. Inspect, repair and remove sediment deposits weekly and after every 1/2 inch storm event.

SAMPLE EROSION CONTROL PLAN FOR A HOMESITE



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.

If you need help developing an erosion control plan, assistance is available from your local Soil and Water Conservation District office at:

Macon County SWCD 217-877-5670 x 3

PRESERVE EXISTING VEGETATION

Wherever possible, preserve existing trees, shrubs, and other vegetation. To prevent root damage, do not grade, place soil piles, or park vehicles near trees marked for preservation. Place plastic mesh or snow fence barriers around trees to protect the area below their branches.

SEEDING AND MULCHING

Spread 4-6 inches of topsoil. Fertilize and lime, if needed, according to soil test or apply 25 lbs. per 1000 square feet of 12-12-12 fertilizer. Seed an appropriate mix for the site (see table on the back page). Rake lightly to cover seed with 1/4 inch of soil – roll lightly. Mulch with straw (90 lbs. per 1000 sq. ft.).

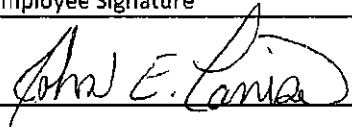
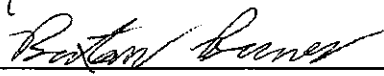
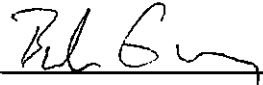
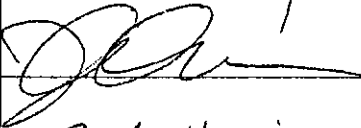
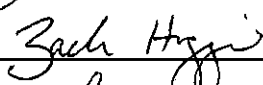
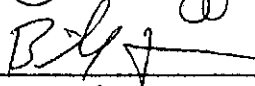
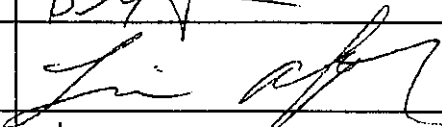
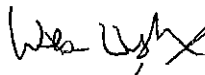
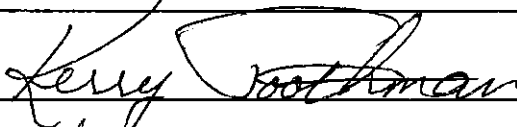

Anchor mulch by punching into the soil, watering, or by using netting or other measures on steep slopes. Water gently every day or two to keep soil moist. Less watering is needed once grass is 2 inches tall. Add maintenance fertilizer annually in split applications as needed for seeding.

SODDING

Spread 4 to 6 inches of topsoil. Fertilize and lime if needed according to soil test (or apply 10 lb. /1000 sq. ft. of 10-10-10- fertilizer). Lightly water the soil. Lay sod. Tamp or roll lightly. On slopes, lay sod starting at the bottom and work toward the top, laying in a brickwork pattern. Peg each piece down in several places. Initial watering should wet soil 4 inches deep below sod (or until water stands 1 inch deep in a straight-sided container). Then water lightly every day or two to keep soil moist but not saturated for 2 weeks. Generally, the best times to sod or seed are early spring (April 1-May 15) or fall (Aug. 1-Sept. 15). Add maintenance fertilizer annually in split application as needed for sod.

If construction is completed after September 15, final seeding should be delayed. Sod may be laid until November 15. Temporary seed (such as rye or winter wheat) may be planted until October 15. Mulch or matting may be applied after October 15, if weather permits. Silt fences must be maintained until final seeding or sodding is completed in spring. (by June 1)

Village of Mt. Zion Stormwater Training
12/18/2020

Employee Name (Print)	Employee Signature
John E. Larrison	
Braxton Barnes	
Brandon Gurnsey	
Jeff Anderson	
Zach Huggins	
Bill Halton	
Tim Alford	
Wes Upton	
Kerry Wootman	
Chad Reynolds	

Matthew B. Foster, P.E., P.L.S.

From: Jennifer Gunter <jgunter@co.macon.il.us>
Sent: Wednesday, May 19, 2021 1:35 PM
To: Matthew B. Foster, P.E., P.L.S.; Caswell, Paul E; Jeremy Buening, P.E., S.E.
Subject: FW: Yearly Report

Here is the items for our annual report from SWCD. Let me know if you have any questions.

Thanks,

Jennifer Gunter
Director of Planning & Zoning
141 South Main St, Suite 501
Decatur, IL 62523
(217) 424-1466
[Jgunter@co.macon.il.us](mailto:jgunter@co.macon.il.us)

From: Jennifer Gunter
Sent: Tuesday, March 9, 2021 10:12 AM
To: angela maconcountyswcd.com <angela@maconcountyswcd.com>
Subject: RE: Yearly Report

Thank you.

Jennifer Gunter
Director of Planning & Zoning
141 South Main St, Suite 501
Decatur, IL 62523
(217) 424-1466
[Jgunter@co.macon.il.us](mailto:jgunter@co.macon.il.us)

From: angela maconcountyswcd.com <angela@maconcountyswcd.com>
Sent: Tuesday, March 9, 2021 10:05 AM
To: Jennifer Gunter <jgunter@co.macon.il.us>
Subject: Re: Yearly Report

CAUTION: [External Email]

This email originated from outside our organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Contractors workshop visits 36

Link was shared with Champaign county swcd to use as she wanted. She did not send postcards but shared the link.

Website views 9,869

LDPs = 16 though the SWCD

Mt. Zion 3
Forsyth 3
Decatur 10

Site Inspections locations
Mt. Zion 11 (3 new 8 prior year active)
Decatur 26 (10 new 12 prior year active)
Forsyth 4 (3 new 1 prior year active)

Angela Daily
Watershed Specialist/Administrative Coordinator
Macon County Soil & Water Conservation District
3342 North President Howard Brown Blvd.
Decatur, IL 62521
Phone: 217-877-5670 x3

From: Jennifer Gunter <jgunter@co.macon.il.us>
Sent: Monday, March 8, 2021 3:52 PM
To: angela maconcountyswcd.com <angela@maconcountyswcd.com>
Subject: Yearly Report

Angela,

We have an MS4 meeting next Wednesday and we were going to start discussing the annual report that is due soon. I have attached a list of things we will need from you for our report. Let me know if you have any questions.

Thanks,

Jennifer Gunter
Director of Planning & Zoning
141 South Main St, Suite 501
Decatur, IL 62523
(217) 424-1466
jgunter@co.macon.il.us



VILLAGE OF MT. ZION

SPARKLE & SHINE

Changes to Sparkle and Shine - On Saturday, May 9th the Village of Mt. Zion, in partnership with Advanced Disposal, will host a one-day curbside pick-up for large items.

SATURDAY, MAY 9TH

Just place acceptable items at the curb by 6:00 am Saturday, May 9th and they will be picked-up free of charge.



There will NOT be a drop-off location. For details on acceptable items, please visit www.mtzion.com/calendar-of-events or call (217) 864-5424 for more information!



● SPARKLE & SHINE 2020

UNACCEPTED ITEMS:

- chemicals
- paint
- tires
- household garbage
- fencing or wire
- television or electronics
- yard waste

For items not accepted, visit
www.macongreen.com for a list of disposal
options.





Outfall Monitoring Sheet

Site ID #:	_____
Stream:	<u>Finley Creek</u>
Date:	<u>4/2/21</u>

Name(s) of Inspector(s): Ron Tapscott & Luke Kirby

Start Time: 11 : 10 am pm End Time: 11 : 40 am pm

Present Weather <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Overcast <input type="checkbox"/> Showers (Intermittent) <input type="checkbox"/> Rainy (Steady) <input type="checkbox"/> Stormy (Heavy)	Worst Weather in past 48 hours <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Showers (Intermittent) <input type="checkbox"/> Rain (Steady) <input type="checkbox"/> Storm (Heavy)	Temperature Air <u>42</u> °F °C Water <u>44</u> °F °C
Water Appearance <input type="checkbox"/> Clear <input type="checkbox"/> Milky <input type="checkbox"/> Foamy <input checked="" type="checkbox"/> Dark Brown <input type="checkbox"/> Oily Sheen <input type="checkbox"/> Reddish <input checked="" type="checkbox"/> Green <input type="checkbox"/> Other _____	Water Odor <input checked="" type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Chlorine <input type="checkbox"/> Fishy <input type="checkbox"/> Rotten Eggs <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____	Turbidity <input type="checkbox"/> Clear <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Medium <input type="checkbox"/> 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

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%

<input type="checkbox"/> Bedrock	<input type="checkbox"/> Cobble (2.5 in – 10 in)	<u>E</u> Sand (<0.1 in)
<input type="checkbox"/> Boulder (> 10 in)	<input type="checkbox"/> Gravel (0.1 in – 2.5 in)	<u>D</u> Silt
<input type="checkbox"/> Hard Pan Clay	<input type="checkbox"/> Other _____	

Stream Discharge Estimate

Stream Width: $\frac{35}{A}$ feet

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. _____ ft
2. _____ ft
3. _____ ft

Average Depth = $\frac{3}{B}$ feet

Velocity Calculations:

12 ft ÷ _____ seconds = _____ ft/sec
12 ft ÷ _____ seconds = _____ ft/sec
12 ft ÷ _____ seconds = _____ ft/sec

Average Velocity = $\frac{0.9}{C}$ ft/sec

Discharge (width x depth x velocity) $\frac{35}{A}$ ft x $\frac{3}{B}$ ft x $\frac{0.9}{C}$ ft/sec = 94.5 ft³/sec

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:

- Upstream dam? (including beaver dams) YES NO
If yes, approximately how far upstream? _____
- Wastewater treatment discharge upstream? YES NO
If yes, approximately how far upstream? _____
- Any pipes emptying directly into or near your study site? YES NO
- 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.)



Outfall Monitoring Sheet

Site ID #: _____
Stream: <u>Finley Creek</u>
Date: <u>4/2/21</u>

Name(s) of Inspector(s): Ron Tapscott & Luke Kirby

Start Time: 10 : 10 am pm End Time: 10 : 40 am pm

Present Weather <input checked="" type="checkbox"/> Clear/Sunny <input type="checkbox"/> Overcast <input type="checkbox"/> Showers (Intermittent) <input type="checkbox"/> Rainy (Steady) <input type="checkbox"/> Stormy (Heavy)	Worst Weather in past 48 hours <input type="checkbox"/> Clear/Sunny <input checked="" type="checkbox"/> Overcast <input type="checkbox"/> Showers (Intermittent) <input type="checkbox"/> Rain (Steady) <input type="checkbox"/> Storm (Heavy)	Temperature Air <u>40</u> °F °C Water <u>42</u> °F °C
Water Appearance <input type="checkbox"/> Clear <input type="checkbox"/> Milky <input type="checkbox"/> Foamy <input checked="" type="checkbox"/> Dark Brown <input type="checkbox"/> Oily Sheen <input type="checkbox"/> Reddish <input checked="" type="checkbox"/> Green <input type="checkbox"/> Other _____	Water Odor <input checked="" type="checkbox"/> None <input type="checkbox"/> Sewage <input type="checkbox"/> Chlorine <input type="checkbox"/> Fishy <input type="checkbox"/> Rotten Eggs <input type="checkbox"/> Petroleum <input type="checkbox"/> Other _____	Turbidity <input type="checkbox"/> Clear <input type="checkbox"/> Slight <input checked="" type="checkbox"/> Medium <input type="checkbox"/> 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
 0% 1-5% 6-25% 26-50% 51-75% 76-100% VISIBLE

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

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%

<input type="checkbox"/> Bedrock	<input type="checkbox"/> Cobble (2.5 in – 10 in)	<input checked="" type="checkbox"/> Sand (<0.1 in)
<input type="checkbox"/> Boulder (> 10 in)	<input type="checkbox"/> Gravel (0.1 in – 2.5 in)	<input checked="" type="checkbox"/> Silt
<input type="checkbox"/> Hard Pan Clay	<input type="checkbox"/> Other _____	

<p>Stream Discharge Estimate</p> <p>Stream Width: <u>35</u> feet A</p> <p>If you can only record two depth or velocity measurements, please calculate the average by dividing the sum by 2.</p> <p>If only one measurement is taken, use the single value as the average.</p> <p>Discharge (width x depth x velocity) $\frac{35}{A} \text{ ft} \times \frac{3.9}{B} \text{ ft} \times \frac{0.85}{C} \text{ ft/sec} = \underline{39.75} \text{ ft}^3/\text{sec}$</p>	<p>Depth Measurements:</p> <p>1. _____ ft 2. _____ ft 3. _____ ft</p> <p>Average Depth = $\frac{3.9}{B}$ feet</p>	<p>Velocity Calculations:</p> <p>12 ft ÷ _____ seconds = _____ ft/sec 12 ft ÷ _____ seconds = _____ ft/sec 12 ft ÷ _____ seconds = _____ ft/sec</p> <p>Average Velocity = $\frac{0.85}{C}$ ft/sec</p>
--	---	---

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.)