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Executive Summary

The Village of Swanton, Ohio is required to submit a stormwater management plan (SWMP) in accordance with 40 CFR Part 122.32 and Ohio Law. The document outlines the Village's program to develop, implement, and enforce a stormwater management program designed to reduce the discharge of pollutants to the maximum extent practicable, to protect water quality, and to satisfy the appropriate requirements of the Clean Water Act (CWA) in accordance with the Ohio EPA Phase II program. The SWMP addresses the six minimum control measures as required by state regulations. The plan also identifies the Village's legal authority to implement the general permit.

This SWMP is being submitted in fulfillment of the requirements of the Ohio EPA General NPDES Permit OHQ000004 for Discharges from Small Municipal Separate Storm Sewer Systems (MS4s). The development of the SWMP is an ongoing process, and the Village expects this SWMP will be updated as the Village gains experience and additional understanding of its MS4.

Legal Authorities to Implement the Stormwater Management Program

The Village of Swanton has the legal authority to implement the following SWMP under Article XVIII, Section 3 of the Ohio Constitution granting municipalities the authority to adopt land use and control measures for promoting the peace, health, safety, and general welfare of their citizens. The Village's storm sewer ordinances provide the Village with authority to control the quality of separate stormwater discharged to its storm sewer system from both industrial and municipal sources. The Village will have both the fiscal authority and legal resources to fully implement its SWMP.

Financial Authorities to Implement the Stormwater Management Program

The Village of Swanton operates a Stormwater Utility. The Village will fund the additional activities necessary to implement its SWMP through revenues generated by the Stormwater Utility and through its General Fund. The Village will also likely seek outside funding through grant and loan programs to finance infrastructure improvements and other SWMP activities where appropriate. The Village proposes to evaluate its SWMP on a periodic basis and, if necessary, modify these funding arrangements.

Reporting Requirements

The Village of Swanton will submit its required report annually to Ohio EPA. The report will include the status of compliance with the permit conditions, an assessment of the appropriateness of the Best Management Practices (BMPs) and

the progress toward achieving the measurable goals of each of the six minimum control measures. A summary of the activities the Village will undertake during the reporting cycle, and any changes to BMPs or measurable goals and all relevant monitoring data obtained during the reporting period, will also be included.

Overview of Swanton MS4 and Swan Creek Watershed Areas

The Village of Swanton was originally served by a mostly combined sewer system that conveyed both stormwater and sanitary wastes. The Village's combined sewer system has been permitted through the NPDES permit issued to its Water Resource Recovery Facility (WRRF), which also regulated discharges from its combined sewer overflows (CSOs). As part of the Village's Long-Term Control Plan (LTCP) to address its CSO discharges, the Village has committed to separation of its combined sewers into separate storm and sanitary sewers. The Village has now separated a considerable portion of its combined sewers to the point that stormwater drainage in most of the Village is now conveyed by its MS4. A map of the Village's sewer system is included as Figure 1.

The Village's MS4 discharges into two HUC-12 subwatersheds of Swan Creek: Fewless Creek-Swan Creek and Ai Creek. The streams in the Swanton area have the following designated uses:

- Aquatic Life Use: Warmwater Habitat
- Agricultural Water Supply
- Industrial Water Supply
- Public Water Supply (Swanton WTP on Swan Creek at State Route 64)
- Primary Contact Recreation

The Swan Creek watershed has a U.S. EPA-approved Total Maximum Daily Load (TMDL) Report published in 2009 that identified Phosphorus, Nitrates, e. coli, and Total Suspended Solids as being the predominant water quality problems and pollutants in these subwatersheds. The TMDL Report also identified the primary sources of these impairments in these subwatersheds as follows:

- Stream channelization (habitat alteration, sediment)
- Home Sewage Treatment Systems (HSTSs) (nutrients, bacteria)
- Row crops (nutrients, sediment)
- Village of Ai (nutrients, bacteria)

- Swanton WWTP (phosphorus, nitrates)

The TMDL Report also suggests the following restoration activities in these subwatersheds that are applicable to the development of this SWMP:

- Streambank and Riparian Restoration
- Stream Restoration
- Wetland Restoration
- Home Sewage Planning and Implementation
- Education and Outreach
- Agricultural Best Management Practices
- Stormwater Best Management Practices
- Regulatory Point Source Controls

Based on our review of the TMDL, the Village feels that its MS4 has not been identified as being a significant source of pollutants into the Ai Creek and Fewless Creek-Swan Creek subwatersheds. However, The Village will use the recommendations made in the TMDLs for the subwatersheds to help guide the selection of BMPs to control discharges from its MS4.

Program Development and Decision Process

In developing the SWMP, the Village is using the following basic decision process:

1. Review of the Ohio General Permit Requirements for Small MS4s.
2. Review of the Swan Creek TMDL.
3. Review of current available mapping of the Village's MS4.
4. Review of other municipal facilities discharging stormwater to the MS4.
5. Investigation and review of materials available from other governments, agencies, and non-governmental organizations (NGOs) including:
 - a. U.S. EPA
 - b. Ohio EPA
 - c. Toledo Metropolitan Council of Governments (TMACOG)

- d. Lucas and Fulton County Soil & Water Districts (SWCDs)
 - e. Lucas and Fulton County Health Departments
 - f. Lucas and Fulton County Engineers
 - g. Lucas and Fulton County Sanitary Engineers
 - h. Chagrin River Watershed Partners (CRWP)
6. Initiating discussions with nearby agencies and NGOs on partnering to implement appropriate BMPs, focusing primarily on the following areas:
 - a. Public Education and Outreach
 - b. Public Involvement and Participation
 - c. Illicit Discharge Detection and Elimination
 7. Evaluation and Selection of BMPs.
 8. Setting measurable goals.
 9. Determination of responsible parties for implementing the BMPs.
 10. Review of legal authority to implement BMPs.
 11. Public Meetings to discuss development of the SWMP.
 12. Formal Approval of the SWMP.
 13. Ongoing evaluation and updating of the SWMP.

Stormwater Management Program Minimum Control Measures

The general rationale for selection of BMPs for the Village's SWMP is based on the following considerations:

- The Village of Swanton is a small community located within predominantly agricultural subwatersheds.
- The Swan Creek TMDL identified several pollutants and their apparent sources, but the primary sources within the Village's MS4 appear to be limited at this time to sediment from construction sites and possible bacteria from HSTSs connected to the MS4.

- Other potential sources of pollutants common in populated areas could be bacteria from pet waste, nutrients, and phosphorus from turf fertilization, and solids and floatables from roadway litter or illegal dumping.
- Nutrient, nitrate, and sediment sources from the Village's MS4 appear to be much less than that contributed by other sources in the watershed.

Therefore, the Village will focus its SWMP efforts primarily on construction site sediment controls, HSTs, and household wastes to reduce sediment, nutrients, and bacteria.

Public Education and Outreach on Storm Water Impacts

Coordination of the Public Education and Outreach Program will be the responsibility of the Village Administrator, the Public Service Department, and the Water Resource Recovery Facility. Existing educational programs already touch on the impacts residents can have on storm water discharge and the plan is to expand on that base.

Target groups for the education program will be homeowners, the construction industry in the Village and the general public.

The delivery mechanisms will include the Village website, the Village newsletter, post cards, and Facebook posts. The mechanisms used for each theme or message will be included on the annual report.

Themes or Messages

During the Villages permit term, they will choose at least five of the following themes:

1. Proper disposal of yard wastes.
2. Proper disposal of pet wastes.
3. Proper disposal and recycling of household wastes.
4. Storm sewers and storm water catch basins are only for storm water.
5. Education of what can be flushed or poured down drains.
6. Control of runoff from construction activities.
7. Proper application of pesticides and fertilizers.

The following will explain these activities in more detail.

1. Proper disposal of yard wastes

This message will educate homeowners of the proper way to dispose of yard wastes, so the wastes do not end up in streams and storm sewers. It will inform them of Village yard waste pickups and drop-offs. Currently

the Village coordinates a free brush pickup and has leaf collection in the fall.

TMDLs Addressed: Total phosphorus, nitrate plus nitrate and total suspended solids.

2. Proper disposal of pet wastes

This message will inform the public of proper ways to dispose of pet wastes. The Village currently offers pooper scooper bags at the local parks.

TMDLs Addressed: Total phosphorus, nitrate plus nitrate, and bacteria.

3. Proper disposal and recycling of household wastes

This message will inform the public of the safe disposal and recycling of household wastes, appliances, paint, electronic waste, paper and commingled recyclables. The Village currently offers a bulk drop off day in the spring and the fall.

TMDLs Addressed: Total solids.

4. Storm sewers and storm water catch basins are only for storm water

This message will attempt to inform the public that storm sewers are only for storm water runoff. It will address illicit discharges and provide citizens with information for proper disposal of items that could end up in storm sewers.

TMDLs Addressed: Total phosphorus, nitrate plus nitrate and bacteria.

5. Education of what can be flushed or poured down the drains

This message will attempt to inform residents and the general public what should not be poured down the drain. It will address the number of sewer backups each year due to clogged pipes due to improper disposal of household waste.

TMDLs Addressed: Bacteria and total solids.

6. Control of runoff from construction activities

This message will educate the construction industry about local and state regulations that are required to meet storm water regulations. It will also offer information on management practices that prevent construction site runoff from entering storm sewers and surface waters.

TMDLs Addressed: Total suspended solids

7. Proper application of pesticides and fertilizers

This message will educate homeowners and the general public on the proper use of pesticides and fertilizers as well as offer alternatives to chemical pesticides and fertilizers.

TMDLs Addressed: Total phosphorus and nitrate plus nitrate

The Village will implement at least five of the listed themes and messages and monitor their success. The program will be modified as needed to ensure it's effectiveness. The Village will also utilize new opportunities to educate the community of storm water issues if any become available.

Public Involvement/ Participation

During this permit cycle, the Village will offer a minimum of five public involvement activities. These activities may include but are not limited to:

1. Annual Meeting to discuss the SWMP – This event will be coordinated by the Village Administrator and will be open to all Village residents. Discussion will include the progress the Village is making on controlling pollutants and solicit comments from the public. Participation will be measured by attendance records. Minutes of the meeting will be submitted with the annual report.
2. Curbside Fall Leaf Collection – Currently being held in the fall. The event is coordinated by the Village Administrator and the Public Service Department. The residents are notified by the Village Newsletter and posts on the Village Facebook page. The residents are instructed to place leaves out of the street where they could be washed into the storm drains. Lammon Brothers will then collect the leaves which takes approximately 4 weeks, Involvement will be measured by the amount of leaves collected and disposed of by Lammon Brothers.
3. Community Clean Up – Currently being held in the spring. The event is coordinated by the Village Administrator. Residents are invited down to Memorial Park where the goal is to clean the park of sticks, leaves, and other items before spring recreation sports begin. Residents are notified through the Village newsletter, and postings on the Village webpage and Facebook page Participation will be measured in attendance and the amount of yard waste and litter that is collected.
4. Bulk Drop Off Day – This event is currently being held in the spring and the fall. Residents are encouraged to drop off waste at the Public Service Division. The types of wastes accepted are household hazardous waste,

E-Waste, paper waste, and paint waste. Residents are notified through the Village newsletter, and postings on the Village webpage and Facebook page. Participation will be measured by the number of residents that participate and the amount of waste that is collected.

5. Clean Your Streams Program – Participating in a “Clean Your Streams” program in which Village residents can participate in helping clean up Ai and Swan Creeks and their tributaries within the Village. The Village will record the number of participants and the amount of trash collected.
6. Storm Drain Stenciling – Citizens will be invited to participate in stenciling of storm drains. The number of participants will be recorded.

Illicit Discharge Detection and Elimination

The Village’s existing ordinances already prohibit the discharge of polluted waters into its storm sewer system.

The Village has developed a map of its MS4. This map identifies all storm sewer outfalls with a unique identifier to be used in the field screening program. The map will be updated annually. This map can be found in the Appendix.

The Village has identified the HSTS that are in their jurisdiction. The documented HSTS are kept as the WRRF and the document will be updated as more HSTS are found. The Village will monitor and map HSTS that are discovered to discharge into the MS4.

The following procedure is used for identifying and correcting illicit discharges:

1. Village personnel or designee visit all outfalls during dry weather (at least 72 hours after the last rainfall of 0.10 inches or more) to observe which are flowing.
2. For any flowing outfalls, personnel record any odorous or visual observations.
3. Personnel visit these “suspect” outfalls and perform field tests to determine if sampling is warranted.
4. Outfalls suspected of violation are placed on a list for further investigation and elimination.
5. Where the collection source is open ditches, personnel should visually track the flow back to the source.
6. Where collection system is piped, personnel should use tracing dye or closed-circuit television camera to search for connections that are contributing to flow.
7. Where discharges are traced back to a corporate boundary line, the upstream community is notified about findings.
8. Illicit dischargers within the community are sent notices ordering corrective action to remove the source of the discharge.

The observations from each dry weather screening will be recorded. A sample of the Dry Weather Screening Log is found in the Appendix.

The Village will provide annual training to employees which includes illicit discharge detection and elimination topics.

Construction Site Storm Water Runoff Control

Construction disturbing over 1 acre must meet certain requirements and develop a Stormwater Pollution Prevention Plan (SWPPP) to mitigate sediment and other stormwater pollutants that can come from improperly managed construction projects.

The Village has adopted TMACOGs SWPPP submission requirements. The goal is to simplify the site plan review process while satisfying Ohio EPA's Construction General Permit #OHC000005 requirements. This process and the required documentation list below have been adopted by many jurisdictions in Northwest Ohio.

- Stormwater Pollution Prevention Plan (SWPPP) Submittal Cover Sheet and SWPPP Contact List
- Contractor Contact Sheet and Certification Form for each contractor.
- One copy of completed SWPPP (plan sheets, documents, forms, etc).
- One copy of completed Ohio EPA SWPPP Checklist.
- One copy of storm drainage, sediment settling pond, and post-construction stormwater quality calculations.
- One copy of BMP maintenance agreement with long-term maintenance plan.
- Digital copy (PDF) of all items submitted.

The Village will document the number of plans reviewed, inspections, violations, and enforcements taken annually.

The Village will provide training for SWPPP reviewers and inspectors to ensure that the SWPPP is being followed.

Development of these programs will be the responsibility of the village administrator.

Post-Construction Storm Water Management in New Development and Redevelopment

The Village requires detention ponds and SWMPs for new developments within the Village through ordinances. These measures help reduce the peak flow rates, sediment, and pollutants being discharged into the streams, and help control flooding. Controlling flow rates can also help mitigate stream channel erosion.

A review of the SWPPP will be conducted prior to all construction activity for sites greater than 1 acre. A record of the will be kept of all submitted SWPPP as well as long term operation and maintenance plan.

A program will be developed for the inspection of post-construction sites. This will be the responsibility of the Public Service Department. Sites will be inspected after construction is completed to ensure all control measures were properly constructed. Follow-up inspections will take place to ensure the submitted Operations and Maintenance plan is being followed.

The Village will hold a public meeting with developers to educate the about the post-construction requirements.

The Village will include at least one of the performance standards from NPDES Permit No. OHQ000004 Part III.B.5.f.b through e.

Pollution Prevention/ Good Housekeeping for Municipal Operations

The Village developed and will follow a maintenance program requiring all Village owned vehicles be regularly inspected to minimize oil and fluid leaks, and that used fluids are properly recycled or disposed of. The Village will document maintenance activities and the volume of fluids recycled and disposed of. A sample of the maintenance log can be found in the Appendix.

The Village will continue to perform street sweeping in high-traffic areas at least once every 3 months or as needed. The Village will document the lane-miles swept.

The Village will continue to evaluate its road salting program to ensure that de-icing salt and chemicals are used and stored efficiently to reduce their runoff into streams. The Village will document the total length of lane-miles treated and the amount of de-icing salt and chemicals used each winter.

The Village will continue separation of its combined sewers according to its LTCP.

The following procedure will be used for illegal dumping and spills:

1. Action will be initiated when a spill or dumping is reported to the community staff.
2. Hazardous materials are referred to the Fire Department for clean-up in conjunction with the procedures and guidelines in the Ohio EPA's Emergency Response Program.
3. Other spills and small-scale dumping are referred to the Public Service Department for clean-up.

4. The offending party receives educational material on the impacts of spills and illegal dumping to stream and wetland habitat. Repeat offenders are referred to the Police Department for investigation and possible citation.
5. Large-scale spills and illegal dumping are reported to Ohio EPA and the Police Department for investigation and possible citation. The Village follows the guidelines and procedures outlined in Ohio EPA's Emergency Response Program.

The Village has developed a SWPPP plan for their Maintenance facility. Attached in the Appendix is the Site Plan and Operations and Maintenance manual that will be followed in everyday practices.

The Public Service Department, Water Resource Recovery Facility, and the Village Administrator will be responsible for developing these programs.

APPENDIX
