



# **Storm Water Management Plan Storm Water Discharge Permit Application**

July 19, 2018

Prepared by:

City of Farmington  
33720 West Nine Mile Road  
Farmington, MI 48335



# State of Michigan

## National Pollutant Discharge Elimination System

### Permit Application for Discharge of Storm Water to Surface Waters of the State from a Municipal Separate Storm Sewer System

DEPARTMENT OF ENVIRONMENTAL QUALITY  
WATER RESOURCES DIVISION  
PERMITS SECTION  
TELEPHONE: 517-284-5568  
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# National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Application Form (Reissuance)

version 1.4

(Submission #: 2EF-1KQ2-M3RS, version 2)

## Summary

hello?

<b>Submission #:</b> 2EF-1KQ2-M3RS	<b>Date Submitted:</b> 7/19/2018 11:42 AM
<b>Form:</b> National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Application Form (Reissuance)	<b>Status:</b> Submitted
<b>Submitted By:</b> John Deslippe	<b>Submission Creator:</b> John Deslippe
<b>Active Steps:</b>	
<b>Reference #:</b>	
<b>Description:</b> National Pollutant Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Application Form (Reissuance)	

## Notes

There are currently no Submission Notes.

## Details

### Existing Permit Details

Existing Permit ID (Read Only)

NONE PROVIDED

Existing Permit Number (Read Only)

NONE PROVIDED

### Section 1. Applicant Information

Applicant Information

#### Contact

<b>Prefix:</b> Mr.	<b>First Name:</b> Charles	<b>Last Name:</b> Eudy
<b>Company:</b> City of Farmington	<b>Title:</b> Director of Public Services	<b>Ext:</b> NONE PROVIDED
<b>Phone:</b> 248-473-7250	<b>Fax:</b> 248-473-7279	<b>Email:</b> ceudy@farmgov.com

#### Address

**Address Line 1:** 33720 West Nine Mile Road

**Address Line 2:** NONE PROVIDED

**Description:** NONE PROVIDED

<b>City:</b> Farmington	<b>State:</b> MI	<b>Postal Code:</b> 48335
<b>Country:</b> US	<b>County:</b> NONE PROVIDED	

## Section 2. MS4 Location Information

Municipal Entity Name (e.g., City of Lansing)

City of Farmington

Identify the Primary Municipal Facility or the Mailing Address Location

A site needs to be identified as part of the application. Identify the physical address for the municipal entity, such as the primary municipal facility (e.g., City Hall).

### Facility Location

42.455689,-83.37931200000003

NONE PROVIDED

## Section 3. MS4 Contacts (1 of 1)

CONTACTS

A contact must be provided for each of the roles listed below. You may assign more than one role to a single contact by holding down the 'Ctrl' key while selecting each role. Use the "+" (repeat section) button to add an additional contact.

### Contact

Application Contact

### Contact

#### Contact

**Prefix:** Mr.

**First Name:** Charles

**Last Name:** Eudy

**Company:** City of Farmington

**Title:** Director of Public Services

**Ext:** NONE PROVIDED

**Phone:** 248-473-7250

**Fax:** 248-473-7279

**Email:** ceudy@farmgov.com

#### Address

**Address Line 1:** 33720 West Nine Mile Road

**Address Line 2:** NONE PROVIDED

**Description:** NONE PROVIDED

**City:** Farmington

**State:** M

**Postal Code:** 48335

**Country:** US

**County:** NONE PROVIDED

## Section 4: Regulated Area, Outfalls/Points of Discharge, and Nested Jurisdictions (1 of 1)

Regulated Area

Identify the urbanized area within the applicant's jurisdictional boundary as defined by the 2010 Census. The regulated MS4 means an MS4 owned or operated by a city, village, township, county, district, association, or other public body created by or pursuant to state law and the nested MS4 identified below that is located in an urbanized area and discharges storm water into surface waters of the state. The 2010 Census maps are located at the Urbanized Area Link below.

[Urbanized Area Link](#)

Select an Urbanized Area

Detroit

Outfall and Point of Discharge Information

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Provide the following information for each of the applicant's MS4 outfalls and points of discharge within the regulated area: identification number, description of whether the discharge is from an outfall or point of discharge, and the surface water of the state that receives the discharge. An outfall means a discharge point from an MS4 directly to surface waters of the state. A point of discharge means a discharge from an MS4 to an MS4 owned or operated by another public body. In the case of a point of discharge, the surface water of the state is the ultimate receiving water from the final outfall. Please note that an MS4 is not a surface water of the state. For example, an open county drain that is a surface water of the state is not an MS4. An example table is available at the link below.

[Outfall and Point of Discharge example table link](#)

**OUTFALL AND POINT OF DISCHARGE INFORMATION- Attachment**

FarmingtonOutfallMap\_20180710.pdf - 07/10/2018 04:47 PM

Comment: NONE PROVIDED

Nested Jurisdictions

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Submit the name and general description of each nested MS4 for which a cooperative agreement has been reached to carry out the terms and conditions of the permit for the nested jurisdiction. The applicant shall be responsible for assuring compliance with the permit for those nested jurisdictions with which they have entered into an agreement and listed as part of the Application. If the primary jurisdiction and the nested jurisdiction agree to cooperate so that the terms and conditions of the permit are met for the nested MS4, the nested jurisdiction does not need to apply for a separate permit. A city, village, or township shall not be a nested jurisdiction.

Use the "+" (repeat section) button to add an additional Jurisdiction contact.

Nested Jurisdiction

**Contact**

**Prefix:** NONE PROVIDED

**First Name:** NONE PROVIDED

**Last Name:** NONE PROVIDED

**Company:** NONE PROVIDED

**Title:** NONE PROVIDED

**Ext:** NONE PROVIDED

**Phone:** NONE PROVIDED

**Fax:** NONE PROVIDED

**Email:** NONE PROVIDED

**Address**

**Address Line 1:** NONE PROVIDED

**Address Line 2:** NONE PROVIDED

**Description:** NONE PROVIDED

**City:** NONE PROVIDED

**State:** NONE PROVIDED

**Postal Code:** NONE PROVIDED

**Country:** NONE PROVIDED

**County:** NONE PROVIDED

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**Section 5: General SWMP, Enforcement Response Procedure, and Public Participation/Involvement Program**

STORMWATER MANAGEMENT PROGRAM (SWMP)

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This Application requires a description of the Best Management Practices (BMPs) the applicant will implement for each minimum control measure and the applicable water quality requirements during this permit cycle. The applicant shall incorporate the BMPs to develop a SWMP as part of the Application. The SWMP shall be developed, implemented, and enforced to reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable and protect water quality in accordance with the appropriate water quality requirements of the NREPA451, Public Acts of 1994, Part 31, and the Federal Water Pollution Control Act, as amended, (33 U.S.C. 1251 et seq.). The Maximum Extent Practicable may be met by implementing the BMPs identified in the SWMP and demonstrating the effectiveness of the BMPs. The applicant shall attach any appropriate and necessary documentation to demonstrate compliance with the six minimum control measures and applicable water quality requirements as part of the Application. The applicant shall complete this Application to the best of its knowledge and ensure that it is true, accurate, and meets the minimum requirements for a SWMP to the Maximum Extent Practicable. Several minimum control measures include a statement requesting the applicant to indicate in the response if you are, or will be, working collaboratively with watershed or regional partners on any or all activities to meet the minimum control measure requirements. If the applicant chooses to work collaboratively with watershed or regional partners to implement parts

of the SWMP, each applicant will be responsible for complying with the minimum permit requirements. For purposes of this Application, a procedure means a written process, policy or other mechanism describing how the applicant will implement minimum requirements. When answering the questions in this section of the Application, the applicant's MS4 encompasses what the applicant identified in Sections 4. The applicant shall include a measurable goal for each BMP. Each measurable goal shall include, as appropriate, a schedule for BMP implementation (months and years), including interim milestones and the frequency of the action. Each measurable goal shall have a measure of assessment to measure progress towards achieving the measurable goal. A United States Environmental Protection Agency (USEPA) guidance document on measurable goals is available at the link below.

[USEPA measurable goals guidance document link](#)

#### Enforcement Response Procedure (ERP)

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The applicant shall describe the current and proposed enforcement responses to address violations of the applicant's ordinances and regulatory mechanisms identified in the SWMP. The following question represents the minimum requirement for the ERP. Please complete the question below.

#### ERP- Attachment

Appendix B-ERP Farmington Revised 20180710.pdf - 07/11/2018 07:41 AM

Comment: NONE PROVIDED

#### Public Participation/Involvement Program (PPP)

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The applicant shall describe the current and proposed BMPs to meet the minimum control measure requirements for the PPP to the maximum extent practicable, which shall be incorporated into the SWMP. Please indicate in your response if you are, or will be, working collaboratively with watershed or regional partners on any or all activities in the PPP during the permit cycle (i.e., identify collaborative efforts in the procedures). The following questions represent the minimum control measure requirements for the PPP. Please complete all the questions below. A measurable goal with a measure of assessment shall be included for each BMP, and, as appropriate, a schedule for implementation (months and years), including interim milestones and the frequency of the BMP. The responses shall reflect the nested MS4s identified in Section 4.

Proposing to work collaboratively on any or all activities in the PPP during the permit cycle?

Yes

#### PPP Procedures- Attachment

Appendix\_C\_PPP.pdf - 07/05/2018 08:34 AM

Comment: NONE PROVIDED

2. Provide the reference to the procedure submitted above for making the SWMP available for public inspection and comment. The procedure shall include a process for notifying the public when and where the SWMP is available and of opportunities to provide comment. The procedure shall also include a process for complying with local public notice requirements, as appropriate. (page and paragraph of attachments): e.g., Attachment A, Page 3, Section b.

Appendix C, Section B

3. Provide the reference to the procedure submitted above for inviting public involvement and participation in the implementation and periodic review of the SWMP. (page and paragraph of attachments):

Appendix C, Section D

### Section 6. Public Education Program

Proposing to work collaboratively on any or all activities in the PEP during the permit cycle?

Yes

#### PEP Procedures- Attachment

Appendix\_D\_PEP.pdf - 07/05/2018 08:35 AM

Comment: NONE PROVIDED

4. PEP activities may be prioritized based on the assessment of high priority, community-wide issues and targeted issues to reduce pollutants in storm water runoff. If prioritizing PEP activities, provide the reference to the procedure submitted above with

the assessment and list of the priority issues (e.g., Attachment A, Section 1).

Appendix D, Section A

5. Provide the reference to the procedure submitted above identifying applicable PEP topics and the activities to be implemented during the permit cycle. If prioritizing, prioritize each applicable PEP topic as high, medium, or low based on the assessment in Question 4. For each applicable PEP topic below, identify in the procedure the target audience; key message; delivery mechanism; year and frequency the BMP will be implemented; and the responsible party. If a PEP topic is determined to be not applicable or a priority issue, provide an explanation. An example PEP table is available at the link below.

[PEP table example link](#)

**A. Promote public responsibility and stewardship in the applicant's watershed(s). Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**B. Inform and educate the public about the connection of the MS4 to area waterbodies and the potential impacts discharges could have on surface waters of the state. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**C. Educate the public on illicit discharges and promote public reporting of illicit discharges and improper disposal of materials into the MS4. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**D. Promote preferred cleaning materials and procedures for car, pavement, and power washing. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

Medium, Appendix D, Section C

**E. Inform and educate the public on proper application and disposal of pesticides, herbicides, and fertilizers. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**F. Promote proper disposal practices for grass clippings, leaf litter, and animal wastes that may enter into the MS4. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**G. Identify and promote the availability, location, and requirement of facilities for collection or disposal of household hazardous wastes, travel trailer sanitary wastes, chemicals, and motor vehicle fluids. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**H. Inform and educate the public on proper septic system care and maintenance, and how to recognize system failure. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**I. Educate the public on, and promote the benefits of, green infrastructure and low impact development. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

High, Appendix D, Section C

**J. Identify and educate commercial, industrial, and institutional entities likely to contribute pollutants to storm water runoff. Provide the reference to the procedure submitted above or explanation as to why the topic is not applicable.**

Low, Appendix D, Section C

6. Provide the reference to the procedure submitted above for evaluating and determining the effectiveness of the overall PEP. The procedure shall include a method for assessing changes in public awareness and behavior resulting from the implementation of the PEP and the process for modifying the PEP to address ineffective implementation. e.g., Attachment A, Page 3, Section b.

Appendix D, Section D

## Section 7. Illicit Discharge Elimination Program

>>Click here to access the MDEQ IDEP Compliance Assistance Document

>>Click here to access the Center for Watershed Protection guide

**Proposing to work collaboratively on any or all BMPs in the IDEP during the permit cycle?**

Yes

**Illicit Discharge Elimination Program Procedures- Attachment**

Appendix E\_Attachment E\_Table 1.pdf - 03/30/2016 08:22 PM

Appendix\_E\_IDEP.pdf - 07/05/2018 08:38 AM

Comment: NONE PROVIDED

Storm Sewer System Map

7. Provide the location where an up-to-date storm sewer system map(s) is available. The map(s) shall identify the following: the storm sewer system, the location of all outfalls and points of discharge, and the names and location of the surface waters of the state that receive discharges from the permittee's MS4 (for both outfalls and points of discharge). A separate storm sewer system includes: roads, catch basins, curbs, gutters, parking lots, ditches, conduits, pumping devices, and man-made channels. A storm sewer system map(s) may include available diagrams, such as certification maps, road maps showing rights-of-way, as-built drawings, or other hard copy or digital representation of the storm sewer system. (e.g., The Department of Public Works office)

DPW Office 33720 West Nine Mile Rd. Farmington Michigan 48335

**Illicit Discharge Identification and Investigation**

8. The MS4 may be prioritized for detecting non-storm water discharges during the permit cycle. The goal of the prioritization process is to target areas with high illicit discharge potential. If prioritizing, provide the reference to the procedure submitted above with the process for selecting each priority area using the list below. (e.g., Attachment A, page 3, Section b.)

- Areas with older infrastructure
- Industrial, commercial, or mixed use areas
- Areas with a history of past illicit discharges
- Areas with a history of illegal dumping
- Areas with septic systems
- Areas with older sewer lines or with a history of sewer overflows or cross-connections
- Areas with sewer conversions or historic combined sewer systems
- Areas with poor dry-weather water quality
- Areas with water quality impacts, including waterbodies identified in a Total Maximum Daily Load
- Priority areas applicable to the applicant not identified above

**Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.**

Appendix E, Section C

9. If prioritizing dry-weather screening, provide the reference to the document submitted above with the geographical location of each prioritized area using either a narrative description or map and identify the prioritized areas that will be targeted during the permit cycle.

Appendix E, Section C

10. Provide the procedure for performing field observations at all outfalls and points of discharge in the priority areas as identified in the procedure above or for the entire MS4 during dry-weather at least once during the permit cycle. The procedure shall include a schedule for completing the field observations during the permit cycle or more expeditiously if the applicant becomes aware of a non-storm water discharge. As part of the procedure, the applicant may submit an interagency agreement with the owner or operator of the downstream MS4 identifying responsibilities for ensuring an illicit discharge is eliminated if originating from the applicant's point(s) of discharge. The interagency agreement would eliminate the requirement for performing a field observation at that point(s) of discharge. Areas not covered by the interagency agreement shall be identified with a schedule for performing field observations included in the procedure. The focus of the field observation shall be to observe the following:

- Presence/absence of flow
- Water clarity
- Deposits/stains on the discharge structure or bank
- Color
- Vegetation condition
- Odor
- Structural condition
- Floatable materials
- Biology, such as bacterial sheens, algae, and slimes

**Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.**

Appendix E, Section D

11. Provide the reference to the procedure submitted above for performing field screening if flow is observed at an outfall or point of discharge and the source of an illicit discharge is not identified during the field observation. Field screening shall include



analyzing the discharge for indicator parameters (e.g., ammonia, fluoride, detergents, and pH). The procedure shall include a schedule for performing field screening.

Appendix E, Section D

12. Provide the reference to the procedure submitted above for performing a source investigation if the source of an illicit discharge is not identified by field screening. The procedure shall include a schedule for performing a source investigation.

Appendix E, Section D

13. Provide the reference to the procedure submitted above for responding to illegal dumping/spills. The procedure shall include a schedule for responding to complaints, performing field observations, and follow-up field screening and source investigations as appropriate.

Appendix E, Section D

14. If prioritizing, provide the reference to the procedure submitted above for responding to illicit discharges upon becoming aware of such a discharge outside of the priority areas. The procedure shall include a schedule for performing field observations, and follow-up field screening and source investigation as appropriate. If not prioritizing, enter "Not Applicable."

Appendix E, Section D

15. Provide the reference to the procedure submitted above which includes a requirement to immediately report any release of any polluting materials from the MS4 to the surface waters or groundwaters of the state, unless a determination is made that the release is not in excess of the threshold reporting quantities in the Part 5 Rules, by calling the appropriate MDEQ District Office, or if the notice is provided after regular working hours call the MDEQ's 24-Hour Pollution Emergency Alerting System telephone number: 800-292-4706. (Example threshold reporting quantities: a release of 50 pounds of salt in solid form or 50 gallons in liquid form to waters of the state unless authorized by the MDEQ for deicing or dust suppressant.)

Appendix H, Spill Response Procedure, Section C

16. If the procedures requested in Questions 8 through 14 do not accurately reflect the applicant's procedure(s), provide the reference to the procedure(s) submitted above describing the alternative approach to meet the minimum requirements.

N/A This Collaborative and Alternative approach meets and/or exceeds results from minimum control measure requirements as described in Attachment F, Section B.

17. Provide the reference to the procedure submitted above for responding to illicit discharges once the source is identified. The procedure shall include a schedule to eliminate the illicit discharge and pursue enforcement actions. The procedure shall also address illegal spills/dumping.

Appendix E, Section E

IDEP Training and Evaluation

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18. Provide the reference to the program submitted above to train staff employed by the applicant, who, as part of their normal job responsibilities, may come into contact with or otherwise observe an illicit discharge to the regulated MS4, on the following topics. The program shall include a training schedule for this permit cycle. It is recommended that staff be trained more than once per permit cycle. • Techniques for identifying an illicit discharge or connection, including field observation, field screening, and source investigation. • Procedures for reporting, responding to, and eliminating an illicit discharge or connection and the proper enforcement response. • The schedule and requirement for training at least once during the term of this permit cycle for existing staff and within the first year of hire for new staff.

Provide the reference to the program submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix E, Section D

19. Provide the reference to the procedure submitted above for evaluating and determining the overall effectiveness of the IDEP. The procedure shall include a schedule for implementation. Examples of evaluating overall effectiveness include, but are not limited to, the following: evaluate the prioritization process to determine if efforts are being maximized in areas with high illicit discharge potential; evaluate the effectiveness of using different detection methods; evaluate the number of discharges and/or quantity of discharges eliminated using different enforcement methods; and evaluate program efficiency and staff training frequency.

Appendix E, Section F

Illicit Discharge Ordinance or Other Regulatory Mechanism

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20. Provide the reference to the in effect ordinance or regulatory mechanism submitted above that prohibits non-storm water discharges into the applicant's MS4 (except the non-storm water discharges addressed in Questions 21 and 22).

Appendix E, Attachment E, Table 1

21. Provide the reference to the ordinance or other regulatory mechanism submitted above that excludes prohibiting the discharges or flows from firefighting activities to the applicant's MS4 and requires that these discharges or flows only be addressed if they are identified as significant sources of pollutants to waters of the State. The ordinance shall not authorize illicit discharges; however, the applicant may choose to exclude prohibiting the discharges and flows from firefighting activities if they are identified as not being significant sources of pollutants to waters of the state.

Appendix E, Attachment E, Table 1

22. Provide the reference to the ordinance or other regulatory mechanism submitted above that excludes prohibiting the following categories of non-storm water discharges or flows if identified as significant contributors to violations of Water Quality Standards. The ordinance shall not authorize illicit discharges; however, the applicant may choose to exclude prohibiting the following discharges or flows if they are identified as not being a significant contributor to violations of Water Quality Standards. a. Water line flushing and discharges from potable water sources b. Landscape irrigation runoff, lawn watering runoff, and irrigation waters c. Diverted stream flows and flows from riparian habitats and wetlands d. Rising groundwaters and springs e. Uncontaminated groundwater infiltration and seepage f. Uncontaminated pumped groundwater, except for groundwater cleanups specifically authorized by NPDES permits g. Foundation drains, water from crawl space pumps, footing drains, and basement sump pumps h. Air conditioning condensation i. Waters from noncommercial car washing j. Street wash water k. Dechlorinated swimming pool water from single, two, or three family residences. (A swimming pool operated by the permittee shall not be discharged to a separate storm sewer or to surface waters of the state without NPDES permit authorization from the MDEQ.)

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix E, Attachment E, Table 1

23. Provide the reference to the ordinance or regulatory mechanism submitted above that regulates the contribution of pollutants to the applicant's MS4 in the attachment above.

Appendix E, Attachment E, Table 1

24. Provide the reference to the ordinance or regulatory mechanism submitted above that prohibits illicit discharges, including illicit connections and the direct dumping or disposal of materials into the applicant's MS4 in the attachment above.

Appendix E, Attachment E, Table 1

25. Provide the reference to the ordinance or regulatory mechanism submitted above with the authority established to inspect, investigate, and monitor suspected illicit discharges into the applicant's MS4 in the attachment above.

Appendix E, Attachment E, Table 1

26. Provide the reference to the ordinance or regulatory mechanism submitted above that requires and enforces elimination of illicit discharges into the applicant's MS4, including providing the applicant the authority to eliminate the illicit discharge in the attachment above.

Appendix E, Attachment E, Table 1

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### Section 8. Construction Storm Water Runoff Control Program

Proposing to work collaboratively on any or all requirements of the Construction Storm Water Runoff Control Program during the permit cycle?

No

Qualifying Local Soil Erosion and Sedimentation Control Programs

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[Click here to access the list of approved Part 91 Agencies](#)

27. Is the applicant a Part 91 Agency?

No

If yes, choose type

NONE PROVIDED

No the applicant relies on the following Qualifying Local Soil Erosion and Sedimentation Control Program (Part 91 Agency)

Oakland County Water Resource Commissioner

Construction Storm Water Runoff Control

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**Construction Storm Water Runoff Control Program Procedure Attachment- Attachment**

Appendix F-CSWRC.pdf - 03/30/2016 08:31 PM

Comment: NONE PROVIDED

28. Provide the reference to the procedure submitted above with the process for notifying the Part 91 Agency or appropriate staff when soil or sediment is discharged to the applicant's MS4 from a construction activity, including the notification timeframe. The procedure shall allow for the receipt and consideration of complaints or other information submitted by the public or identified internally as it relates to construction storm water runoff control. For non-Part 91 agencies, consideration of complaints may include referring the complaint to the qualifying local Soil Erosion and Sedimentation Control Program as appropriate. Construction activity is defined pursuant to Part 21, Wastewater Discharge Permits, Rule 323.2102 (K). The applicant may consider as part of their procedure when and under what circumstances the Part 91 Agency or appropriate staff will be contacted.

Appendix F, Sections C and B

29. Provide the reference to the procedure submitted above with the requirement to notify the MDEQ when soil, sediment, or other pollutants are discharged to the applicant's MS4 from a construction activity, including the notification timeframe. Other pollutants include pesticides, petroleum derivatives, construction chemicals, and solid wastes that may become mobilized when land surfaces are disturbed. The applicant may consider as part of their procedure when and under what circumstances the MDEQ will be contacted.

Appendix F, Section D

30. Provide the reference to the procedure submitted above for ensuring that construction activity one acre or greater in total earth disturbance with the potential to discharge to the applicant's MS4 obtains a Part 91 permit, or is conducted by an approved Authorized Public Agency as appropriate. Note: For applicants that conduct site plan review, the procedure must be triggered at the site plan review stage.

Appendix F, Section B

31. Provide the reference to the procedure submitted above to advise the landowner or recorded easement holder of the property where the construction activity will occur of the State of Michigan Permit by Rule (Rule 323.2190).

Appendix F, Section E

## **Section 9. Post-Construction Storm Water Runoff Program**

>>Click here to access the Low Impact Development Manual for Michigan. Chapter 9 of the manual provides a methodology for addressing post-construction storm water runoff.

The MDEQ has the following resources available to assist with development of a Post-Construction Storm Water Runoff Program.

>>Click here to access the Post-Construction Storm Water Runoff Program Compliance Assistance Document

**Post-Construction Storm Water Runoff Program Procedures, Ordinances, and Regulatory Mechanisms- Attachment**

Appendix G\_Attachment\_SITE\_PLAN\_REVIEW.pdf - 03/30/2016 08:34 PM

Appendix G-Farmington\_Post Construction-v1.1.pdf - 03/30/2016 08:34 PM

Comment: NONE PROVIDED

Ordinance or Other Regulatory Mechanism

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32. Provide the reference to the in-effect ordinance or regulatory mechanism submitted above to address post-construction storm water runoff from new development and redevelopment projects, including preventing or minimizing water quality impacts. The ordinance or other regulatory mechanism shall apply to private, commercial, and public projects, including projects where the applicant is the developer. This requirement may be met using a single ordinance or regulatory mechanism or a combination of ordinances and regulatory mechanisms. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

Appendix G, Section B

33. Provide the reference to the ordinance or other regulatory mechanism submitted above that applies to projects that disturb at least one or more acres, including projects less than an acre that are part of a larger common plan of development or sale and discharge into the applicant's MS4. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

Appendix G, Section B

#### Federal Facilities

Federal facilities are subject to the Energy Independence and Security Act of 2007. Section 438 of this legislation establishes post-construction storm water runoff requirements for federal development and redevelopment projects.

34. Is the applicant the owner or operator of a federal facility with a storm water discharge

No, skip to Question 36

35. Provide the reference to the regulatory mechanism submitted above with the requirement to implement the post-construction storm water runoff control requirements in Section 438 of the Energy Independence and Security Act. If not available at this time, provide the date the regulatory mechanism will be available. The United States Environmental Protection Agency (USEPA) has a technical guidance available at the following link.

[USEPA Technical Guidance on Implementing the Stormwater Runoff Requirements](#)

Provide the reference to the regulatory mechanism submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

NONE PROVIDED

#### Water Quality Treatment Performance Standard

36. Does the ordinance or other regulatory mechanism include one or more of the following water quality treatment standards?

Treat the first one inch of runoff from the entire project site. Provide the ordinance or regulatory mechanism reference in the attachment above (page and paragraph of attachments): e.g., Attachment A, Pages 1-15

NONE PROVIDED

Treat the runoff generated from 90 percent of all runoff-producing storms for the project site. Provide the ordinance or regulatory mechanism reference in the attachment above (page and paragraph of attachments): e.g., Attachment A, Pages 1-15

See Oakland County Stormwater Management Standards

If no, provide the date the ordinance or regulatory mechanism will be submitted.

NONE PROVIDED

37. If the applicant has chosen the water quality treatment standard of requiring treatment of the runoff generated from 90 percent of all runoff-producing storms, what is the source of the rainfall data? The MDEQ memo included in the sources below is available at the following link.

[March 24, 2006 MDEQ memo providing the 90 percent annual non-exceedance storm statistics](#)

#### Sources

NONE PROVIDED

Other rainfall data source (page and paragraph of attachments)

See Oakland County Stormwater Management Standards

38. Provide the reference to the ordinance or regulatory mechanism submitted above with the requirement that BMPs be designed on a site-specific basis to reduce post-development total suspended solids loadings by 80 percent or achieve a discharge concentration of total suspended solids not to exceed 80 milligrams per liter. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

See Oakland County Stormwater Management Standards

#### Channel Protection Performance Standard

39. Provide the reference to the ordinance or regulatory mechanism submitted above with the requirement that the post-construction runoff rate and volume of discharges not exceed the pre-development rate and volume for all storms up to the two-year, 24-hour storm at the project site. At a minimum, pre-development is the last land use prior to the planned new development or redevelopment. If not available at this time, provide the date the ordinance or regulatory mechanism will be available. AMDEQ spreadsheet is available to assist with these calculations at the following link.

[Calculations for Storm Water Runoff Volume Control Spreadsheet](#)

Provide the reference to the ordinance or regulatory mechanism submitted above.

See Oakland County Stormwater Management Standards

If pursuing an alternative approach, provide the reference to the ordinance or other regulatory mechanism submitted above describing the alternative to meet the minimum requirements, including an explanation as to how the channel protection standard will prevent or minimize water quality impacts.

NONE PROVIDED

40. The channel protection performance standard is not required for the following waterbodies: the Great Lakes or connecting channels of the Great Lakes; Rouge River downstream of the Turning Basin; Saginaw River; Mona Lake and Muskegon Lake (Muskegon County); and Lake Macatawa and Spring Lake (Ottawa County). If applicable, provide the reference to the ordinance or regulatory mechanism submitted above that excludes any waterbodies from the channel protection performance standard. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

N/A

#### Site-Specific Requirements

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41. Provide the reference to the procedure submitted above for reviewing the use of infiltration BMPs to meet the water quality treatment and channel protection standards for new development or redevelopment projects in areas of soil or groundwater contamination in a manner that does not exacerbate existing conditions. The procedure shall include the process for coordinating with MDEQ staff as appropriate.

See Oakland County Stormwater Management Standards

42. Provide the reference to the ordinance or regulatory mechanism submitted above that requires BMPs to address the associated pollutants in potential hot spots as part of meeting the water quality treatment and channel protection standards for new development or redevelopment projects. Hot spots include areas with the potential for significant pollutant loading such as gas stations, commercial vehicle maintenance and repair, auto recyclers, recycling centers, and scrap yards. Hot spots also include areas with the potential for contaminating public water supply intakes. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

See Oakland County Stormwater Management Standards

#### Off-Site Mitigation and Payment in Lieu Programs

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43. An applicant may choose to allow for the approval of off-site mitigation for redevelopment projects that cannot meet 100 percent of the performance standards on-site after maximizing storm water retention. Off-site mitigation refers to BMPs implemented at another location within the same jurisdiction and watershed/sewershed as the original project. A watershed is the geographic area included in a 10-digit Hydrologic Unit Code and a sewershed is the area where storm water is conveyed by the applicant's MS4 to a common outfall or point of discharge. If proposing to allow for off-site mitigation, provide the reference to the ordinance or regulatory mechanism submitted above with the off-site mitigation requirements. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

Not pursuing this option.

44. An applicant may choose to allow for the approval of payment in lieu for projects that cannot meet 100 percent of the performance standards on-site after maximizing storm water retention. A payment in lieu program refers to a developer paying a fee to the applicant that is applied to a public storm water management project within the same jurisdiction and watershed/sewershed as the original project in lieu of installing the required BMPs onsite. The storm water management project may be either a new BMP or a retrofit to an existing BMP and shall be developed in accordance with the applicant's performance standards. A watershed is the geographic area included in a 10-digit Hydrologic Unit Code and a sewershed is the area where storm water is conveyed by the applicant's MS4 to a common outfall or point of discharge. If proposing to allow for payment in lieu, provide the reference to the ordinance or regulatory mechanism submitted above with the payment in lieu requirements. If not available at this time, provide the date the ordinance or regulatory mechanism will be available. If not pursuing the options available in Questions 43 and 44, skip to Question 52.

Not pursuing this option.

45. Provide the reference to the ordinance or regulatory mechanism submitted above that establishes criteria for determining the conditions under which off-site mitigation and/or payment in lieu are available and require technical justification as to the infeasibility of on-site management. The determination that performance standards cannot be met on-site shall not be based solely on the difficulty or cost of implementing, but shall be based on multiple criteria related to the physical constraints of the project site, such as: too small of a lot outside of the building footprint to create the necessary infiltrative capacity even with amended soils; soil instability as documented by a thorough geotechnical analysis; a site use that is inconsistent with the capture and reuse of storm water; too much shade or other physical conditions that preclude adequate use of plants. The criteria shall also include consideration of the stream order and location within the watershed/sewershed as it relates to the water quality impacts from the original project site (e.g., the water quality impact from a project site with a discharge to a small-sized stream would be greater than a project site on a large river and an offset downstream of the project site may provide less water quality benefit.) The highest preference for off-site mitigation and in lieu projects shall be given to locations that yield benefits to the same receiving water that received runoff from the original project site. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

NONE PROVIDED

46. Provide the reference to the ordinance or regulatory mechanism submitted above that establishes a minimum amount of storm water to be managed on-site as a first tier for off-site mitigation or payment in lieu. A higher offset ratio is required if off-site mitigation or payment in lieu is requested for the amount of storm water identified as the first tier. For example, a minimum of 0.4 inches of storm water runoff shall be managed on-site as a first tier. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

NONE PROVIDED

47. Provide the reference to the ordinance or regulatory mechanism submitted above that requires an offset ratio of 1:1.5 for the amount of storm water above the first tier (identified in Question 46) not managed on-site to the amount of storm water required to be mitigated at another site or for which in-lieu payments shall be made. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

NONE PROVIDED

48. Provide the reference to the ordinance or regulatory mechanism submitted above requiring that if demonstrated by the developer to the applicant that it is completely infeasible to manage the first tier of storm water identified in Question 47 on-site, the offset ratio for the unmanaged portion is 1:2. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

NONE PROVIDED

49. Provide the reference to the ordinance or regulatory mechanism submitted above that requires a schedule for completing off-site mitigation and in-lieu projects. Off-site mitigation and in-lieu projects should be completed within 24 months after the start of the original project site construction. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

NONE PROVIDED

50. Provide the reference to the ordinance or regulatory mechanism submitted above that requires that offsets and in-lieu projects be preserved and maintained in perpetuity, such as deed restrictions and long-term operation and maintenance. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

NONE PROVIDED

51. Describe the tracking system implemented, or to be implemented, to track off-site mitigation and/or in-lieu projects.

NONE PROVIDED

52. If there are any other exceptions to the performance standards (other than off-site mitigation and payment in lieu) being implemented or to be implemented during the permit cycle, provide the reference to the document submitted above describing

the exception(s). The applicant shall demonstrate how the exception provides an equivalent or greater level of protection as the performance standards.

No.

Site Plan Review

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53. Provide the reference to the ordinance or regulatory mechanism submitted above that includes a requirement to submit a site plan for review and approval of post-construction storm water runoff BMPs. If not available at this time, provide the date the ordinance or regulatory mechanism will be available.

See Appendix G Attachment Section 35-163 D. 15

54. Provide the reference to the procedure submitted above for site plan review and approval. If not available at this time, provide the date the procedure will be available.

See Appendix G Attachment Article 13

55. Provide the reference to the site plan review and approval procedure submitted above describing the process for determining how the developer meets the performance standards and ensures long-term operation and maintenance of BMPs in the attachment above. If not available at this time, provide the date the procedure will be available.

See Appendix G Attachment Section 35-163

Long-Term Operation and Maintenance of BMPs

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56. Provide the reference to the ordinance or regulatory mechanism submitted above that requires the long-term operation and maintenance of all structural and vegetative BMPs installed and implemented to meet the performance standards in perpetuity. If not available at this time, provide the date the procedure will be available.

See Appendix G Attachment Section 35-169

57. Provide the reference to the ordinance or regulatory mechanism submitted above that requires a maintenance agreement between the applicant and owners or operators responsible for the long-term operation and maintenance of structural and vegetative BMPs installed and implemented to meet the performance standards. If not available at this time, provide the date the procedure will be available.

See Appendix G Attachment Section 35-169

58. Does the maintenance agreement or other legal mechanism allow the applicant to complete the following? (Check if yes)

NONE PROVIDED

If any of the boxes above were not checked, provide a response explaining how the maintenance agreement or other legal mechanism allows the applicant to verify and ensure maintenance of the BMP.

See Oakland County Stormwater Management Standards

59. Provide the reference to the procedure submitted above for tracking compliance with a maintenance agreement or other legal mechanism to ensure the performance standards are met in perpetuity in the attachment above.

See Oakland County Stormwater Management Standards

## Section 10. Pollution Prevention and Good Housekeeping Program

Pollution Prevention and Good Housekeeping Program Procedures- Attachment

Appendix H-Farmington\_Spill\_Response\_Revised\_20180709docx.pdf - 07/09/2018 02:18 PM

Appendix H- Farm\_DPW\_SOP.pdf - 07/13/2018 10:47 AM

Appendix H- Farmington\_9mile\_SOP.pdf - 07/13/2018 10:47 AM

Appendix H- P2GH\_Farmington\_Revised\_20180709.pdf - 07/13/2018 10:48 AM

Comment: NONE PROVIDED

Municipal Facility and Structural Storm Water Control Inventory

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60. Provide the reference to the up-to-date inventory submitted above identifying applicant-owned or operated facilities and storm water structural controls with a discharge of storm water to surface waters of the state. The inventory shall include the location of each facility. Provide an estimate of the number of structural storm water controls throughout the entire MS4 for each applicable category below (e.g., 100 catch basins and 7 detention basins). For example, Attachment A, Page 3, Section B.

Appendix H- P2GH\_Farmington, Table 1

Facilities that may have the high potential to discharge pollutants:

- Composting facilities
- Equipment storage and maintenance facilities
- Fleet maintenance facilities
- Materials storage and Public Works yards
- Salt storage facilities

Check all applicant-owned or operated facilities with a discharge of storm water to surface waters of the state:

- Administration buildings and libraries
- Cemeteries
- Fire Stations
- Parks
- Police Stations
- Public parking lots
- Vacant land and open space
- Vehicle storage

Check all applicant-owned or operated structural storm water controls with a discharge of storm water to surface waters of the state:

- Catch basins

61. Provide the location where an up-to-date map (or maps) is available with the location of the facilities and structural storm water controls identified in Question 60. The location of the facilities and structural storm water controls may be included on the storm sewer system map maintained for the IDEP. The map (or maps) is available at the following location: (e.g., The Department of Public Works office)

DPW Office 33720 West Nine Mile Road Farmington Michigan 48335

62. Provide the reference to the procedure submitted above for updating and revising the inventory in Question 60 and map (or maps) identified in Question 61 as facilities and structural storm water controls are added, removed, or no longer owned or operated by the applicant in the attachment above. A suggested timeframe for updating/revising the inventory and map(s) is 30 days following adding/removing a facility or structural storm water control.

Appendix H- P2GH\_Farmington, Section C

Facility-Specific Storm Water Management

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63. Provide the reference to the procedure submitted above for assessing each facility identified in Question 60 for the potential to discharge pollutants to surface waters of the state. The procedure shall include a process for updating and revising the assessment. A recommended timeframe for updating/revising the assessment is 30 days prior to discharging storm water from a new facility and within 30 days of determining a need to update/revise the facility assessment. The applicant should consider the following factors when assessing each facility:

- Amount of urban pollutants stored at the site (e.g., sediment, nutrients, metals, hydrocarbons, pesticides, fertilizers, herbicides, chlorides, trash, bacteria, or other site-specific pollutants)
- Identification of improperly stored materials
- The potential for polluting activities to be conducted outside (e.g., vehicle washing)
- Proximity to waterbodies
- Poor housekeeping practices
- Discharge of pollutants of concern to impaired waters

If the applicant does not own a facility that discharges storm water to surface waters of the state in the urbanized area, skip to Question 71.

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix H- P2GH\_Farmington, Section B

If not applicable



NONE PROVIDED

64. Provide the reference to the list of prioritized facilities submitted above using the assessment in Question 63. Each facility shall be prioritized based on having the high, medium, or low potential to discharge pollutants to surface waters of the state. Facilities with the high potential for pollutant runoff shall include, but are not limited to, the applicant's fleet maintenance and storage yards. The applicant may choose to demonstrate how a fleet maintenance/storage yard has the low potential to discharge pollutants to surface waters of the state. If demonstrating a low potential, provide the reference to the demonstration submitted above for the fleet maintenance and/or storage yard.

Appendix H- P2GH\_Farmington, Section D

65. Is a site-specific standard operating procedure (SOP) available identifying the structural and non-structural storm water controls implemented and maintained to prevent or reduce pollutant runoff at each facility with the high potential for pollutant runoff? The SOP shall be available at each facility with the high potential for pollutant runoff and upon request from the MDEQ. The SOP shall identify the person responsible for oversight of the facility. The MDEQ may request the submission of the SOP during the application review process.

Yes, a site-specific SOP is available at each facility with the high potential for pollutant runoff

66. Provide the reference in the SOP, for each facility with the high potential for pollutant runoff, to the following: the list of significant materials stored on-site that could pollute storm water; the description of the handling and storage requirements for each significant material; and the potential to discharge the significant material. (SOP Reference Example: DPW Yard SOP – Section 2)

Appendix H- DPW\_SOP Appendix H- Farmington\_9mile\_SOP

67. Provide the reference in the SOP, for each facility with the high potential for pollutant runoff, identifying the good housekeeping practices implemented at the site. Good housekeeping practices include keeping the facility neat and orderly, properly storing and covering materials, and minimizing pollutant sources to prevent or reduce pollutant runoff. (SOP Reference Example: DPW Yard SOP – Section 2)

Appendix H- DPW\_SOP Appendix H- Farmington\_9mile\_SOP

68. Provide the reference in the SOP, for each facility with the high potential for pollutant runoff, to the description and schedule for conducting routine maintenance and inspections of storm water management and control devices to ensure materials and equipment are clean and orderly and to prevent or reduce pollutant runoff. A biweekly schedule is recommended for routine inspections. (SOP Reference Example: DPW Yard SOP – Section 2)

Appendix H- DPW\_SOP Appendix H- Farmington\_9mile\_SOP

69. Provide the reference in the SOP, for each facility with the high potential for pollutant runoff, to the description and schedule for conducting a comprehensive site inspection at least once every six months. The comprehensive inspection shall include an inspection of all structural storm water controls and a review of non-structural storm water controls to prevent or reduce pollutant runoff. (SOP Reference Example: DPW Yard SOP – Section 2)

Appendix H- DPW\_SOP Appendix H- Farmington\_9mile\_SOP

70. Provide the reference to the procedure submitted above identifying the BMPs currently implemented or to be implemented during the permit cycle to prevent or reduce pollutant runoff at each facility with the medium and lower potential for the discharge of pollutants to surface waters of the state using the assessment and prioritized list in Questions 63 and 64.

Appendix H- P2GH\_Farmington, Section G and I

Structural Storm Water Control Operation and Maintenance Activities

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71. Provide the reference to the procedure submitted above for prioritizing each catch basin for routine inspection, maintenance, and cleaning based on preventing or reducing pollutant runoff. The procedure shall include assigning a priority level for each catch basin and the associated inspection, maintenance and cleaning schedule based on preventing or reducing pollutant runoff. The procedure shall include a process for updating/revising the priority level for a catch basin giving consideration to inspection findings and citizen complaints. A recommended timeframe for updating/revising the procedure is 30 days following the construction of a catch basin or a change in priority level. If the applicant does not own or operate catch basins skip to Question 75.

Appendix H- P2GH\_Farmington, Section F

72. Provide the reference to the narrative description or map submitted above with the geographic location of the catch basins in each priority level.

73. Provide the reference to the procedure submitted above for inspecting, cleaning, and maintaining catch basins to ensure proper performance. Proper cleaning methods include ensuring accumulated pollutants are not discharged during cleaning and are removed prior to discharging to surface waters of the state. An MDEQ Catch Basin Cleaning Activities guidance document is available at the following link.

[Catch Basin Cleaning Activities Guidance Document](#)

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix H- P2GH\_Farmington, Section G

74. Provide the reference to the procedure submitted above for dewatering, storage, and disposal of materials extracted from catch basins. An MDEQ Catch Basin Cleaning Activities guidance document is available at the following link.

[Catch Basin Cleaning Activities Guidance Document](#)

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix H- P2GH\_Farmington, Section H

75. If the applicant owns or operates structural storm water controls identified in Question 60, excluding the structural storm water controls included in an SOP as part of Question 65 and catch basins, provide the reference to the procedure submitted above for inspecting and maintaining the structural storm water controls. The procedure shall include a description and schedule for inspecting and maintaining each structural storm water control and the process for disposing of maintenance waste materials. The procedure shall require that controls be maintained to reduce to the maximum extent practicable the contribution of pollutants to storm water. The procedure shall include a process for updating/revising the procedure to ensure a maintenance and inspection program for each structural storm water control. A recommended timeframe for updating/revising the procedure is 30 days following the implementation of a new structural storm water control.

Appendix H- P2GH\_Farmington, Section J

76. Provide the reference to the procedure submitted above requiring new applicant-owned or operated facilities or new structural storm water controls for water quantity be designed and implemented in accordance with the post-construction storm water runoff control performance standards and long-term operation and maintenance requirements.

Appendix H- P2GH\_Farmington, Section K

#### Municipal Operations and Maintenance Activities

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77. Provide the reference to the procedure(s) submitted above with the assessment of the following operation and maintenance activities, if applicable, for the potential to discharge pollutants to surface waters of the state. The assessment shall identify all pollutants that could be discharged from each applicable operation and maintenance activity and the BMPs being implemented or to be implemented to prevent or reduce pollutant runoff. The procedure shall include a process for updating and revising the assessment. A suggested timeframe for updating/revising the assessment is 30 days following adding/removing BMPs to address new and existing operation and maintenance activities.

**At a minimum, the procedure shall include assessing the following municipal operation and maintenance activities if applicable (check all that apply):**

- Road, parking lot, and sidewalk maintenance (e.g., pothole, sidewalk, and curb and gutter repair)
- Cold weather operations (e.g., plowing, sanding, application of deicing agents, and snow pile disposal)
- Vehicle washing and maintenance of applicant-owned vehicles (e.g., police, fire, school bus, public works)

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix H- DPW\_SOP Appendix H- Farmington\_9mile\_SOP

78. Provide the reference to the procedure submitted above for prioritizing applicant-owned or operated streets, parking lots, and other impervious infrastructure for street sweeping based on the potential to discharge pollutants to surface waters of the state. The procedure shall include assigning a priority level for each parking lot and street and the associated cleaning schedule (i.e., sweeping frequency and timing) based on preventing or reducing pollutant runoff. The procedure shall include a process for updating/revising the priority level giving consideration to street sweeping findings and citizen complaints. A recommended timeframe for updating/revising the prioritization is 30 days following the construction of a new street, parking lot, or other applicant-owned or operated impervious surface or within 30 days of identifying a need to revise a priority level. If the applicant

does not own or operate any streets, parking lots, or other impervious infrastructure, skip to Question 82.

Appendix H- P2GH\_Farmington, Section I

79. Provide the reference to the narrative description or map submitted above with the geographic location of the streets, parking lots, and other impervious surfaces in each priority level.

Appendix H- P2GH\_Farmington, Section I

80. Provide the reference to the procedure submitted above identifying the sweeping methods based on the applicant's sweeping equipment and use of additional resources in sweeping seasonal leaves or pick-up of other materials. Proper sweeping methods include operating sweeping equipment according to the manufacturers' operating instructions and to protect water quality.

Appendix H- P2GH\_Farmington, Section I

81. Provide the reference to the procedure submitted above for dewatering, storage, and disposal of street sweeper waste material. An MDEQ Catch Basin Cleaning Activities guidance document is available at the following link and includes information on street sweeping requirements.

[Catch Basin Cleaning Activities Guidance Document](#)

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix H- P2GH\_Farmington, Section H

Managing Vegetated Properties

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82. If the applicant's pesticide applicator does not exclusively use ready-to-use products from the original container, provide the reference to the procedure submitted above requiring the applicant's pesticide applicator to be certified by the State of Michigan as an applicator in the applicable category, to prevent or reduce pollutant runoff from vegetated land. A description of the certified applicator categories is available at the following link. If the applicant only applies ready-to-use products from the original container, enter "Not Applicable."

[Commercial Pesticide Application Certification Categories](#)

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

Appendix H- P2GH\_Farmington, Section L

Contractor Requirements and Oversight

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83. Provide the reference to the procedure submitted above requiring contractors hired by the applicant to perform municipal operation and maintenance activities comply with all pollution prevention and good housekeeping BMPs as appropriate. The procedure shall include the process implemented for providing oversight of contractor activities to ensure compliance.

Appendix H- P2GH\_Farmington, Section N

Employee Training

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84. Provide the reference to the employee training program submitted above to train employees involved in implementing or overseeing the pollution prevention and good housekeeping program. The program shall include the training schedule. At a minimum, existing staff shall be trained once during the permit cycle and within the first year of hire for new staff.

Appendix H- P2GH\_Farmington, Section M

## Section 11. Total Maximum Daily Load Implementation Plan

The USEPA has a document to assist with developing a TMDL Implementation Plan available at the following link.

[Understanding Impaired Waters and Total Maximum Daily Load \(TMDL\) Requirements for Municipal Stormwater Programs](#)

Total Maximum Daily Load Implementation Plan- Attachment

Appendix I - Final Collaborative TMDL 032416.pdf - 03/30/2016 09:06 PM

Comment: NONE PROVIDED

Proposing to work collaboratively on any or all activities in the TMDL Implementation Plan during the permit cycle.

Yes

85. If a TMDL(s) was included in the applicant's application notice, provide the name(s) below. If no TMDL was identified, skip to the next section.

Rouge River Watershed (biota, E. coli)

86. Provide the reference to the procedure submitted above describing the process for identifying and prioritizing BMPs currently being implemented or to be implemented during the permit cycle to make progress toward achieving the pollutant load reduction requirement in each TMDL identified in Question 85. The procedure shall include a process for reviewing, updating, and revising BMPs implemented or to be implemented to ensure progress in achieving the TMDL pollutant load reduction.

See Appendix I

87. Provide the reference to the TMDL BMP Priority List submitted above with prioritized BMPs currently being implemented or to be implemented during the permit cycle to make progress toward achieving the pollutant load reduction requirement in each TMDL identified in Question 85. Each BMP shall include a reference to the targeted TMDL pollutant.

See Appendix I

88. Provide the reference to the TMDL Monitoring Plan submitted above for assessing the effectiveness of the BMPs currently being implemented, or to be implemented, in making progress toward achieving the TMDL pollutant load reduction requirement, including a schedule for completing the monitoring. Monitoring shall be specifically for the pollutant identified in the TMDL. Monitoring may include, but is not limited to, outfall monitoring, in-stream monitoring, or modeling. At a minimum, monitoring shall be conducted two times during the permit cycle or at a frequency sufficient to determine if the BMPs are adequate in making progress toward achieving the TMDL pollutant load reduction. Existing monitoring data may be submitted for review as part of the plan to meet part of the monitoring requirement.

See Appendix I

**Section 12. Phase I only – Industrial Facility Inspection Program**

Industrial Facility Inspection Program Procedures- Attachment

NONE PROVIDED

Comment: NONE PROVIDED

89. Provide the reference to the procedure submitted above describing the process for identifying existing industrial facilities, as defined below, within the applicant's jurisdiction that discharge stormwater to the applicant's MS4. Industrial facilities include, but are not limited to, the following: • Industrial facilities that the applicant determines are contributing a substantial pollutant loading to the MS4 • Industrial facilities subject to the Superfund Amendments and Reauthorization Act (SARA) • Hazardous waste treatment, disposal, storage, and recovery facilities

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

NONE PROVIDED

90. Provide the reference to the inventory of industrial facilities submitted above using the procedure in Question No. 89.

NONE PROVIDED

91. Provide the reference to the procedure submitted above for prioritizing the industrial facilities identified in Question No. 90 for inspection. Each industrial facility shall be evaluated and prioritized based on having a high, medium or low potential to discharge pollutants to the applicant's MS4. The procedure shall include a process for updating and revising the prioritization, including modifying the priority level based on contribution of significant pollutant loading to the MS4, inspection findings, and the potential to discharge pollutants. The applicant should consider the following factors when prioritizing an industrial facility: • Pollutant sources stored on site • Pollutants of concern • Proximity to impaired surface waters of the state • The applicant's violation or complaint history with the facility

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

NONE PROVIDED

92. Provide the reference to the list of the prioritized industrial facilities for inspection submitted above.

NONE PROVIDED

93. Provide the reference to the procedure submitted above for inspecting industrial facilities based on the prioritized list in Question No. 92 to evaluate pollutant source controls. The number or percentage of facilities to be inspected (e.g., 20% annually) or the inspection frequency for the different priority levels (e.g., high priority facilities inspected annually) shall be identified with the highest priority facilities receiving more frequent inspections. The procedure shall include a process for inspecting facilities based on complaints concerning pollutants discharged to the applicant's MS4. At a minimum, inspections shall include an evaluation of BMPs implemented and maintained to control pollutant sources at the industrial facility and for evidence of unauthorized discharges, illicit connections, and potential discharges of pollutants to the applicant's MS4. The procedure shall include notifying the applicable Water Resources Division District Office if an industrial facility appears to be in violation of the NPDES industrial stormwater program.

Provide the reference to the procedure submitted above (page and paragraph of attachments): e.g., Attachment A, Section b.

NONE PROVIDED

94. Provide the reference to the employee training program submitted above to train employees whose primary job duties are to implement the industrial facility inspection program. The program shall include the training schedule. At a minimum, existing staff shall be trained once during the permit cycle and new hires within the first year of their hire date. The training shall cover facility inspection procedures.

[Click here to access the State of Michigan Industrial Stormwater program page](#)

Provide the reference to the program submitted above (page and paragraph of attachments): e.g., Attachment A, Page 3, Section b.

NONE PROVIDED

### Section 13. Certify and Submit

Comments (As needed)

NONE PROVIDED

Additional Documents (As needed)- Attachment

NONE PROVIDED

Comment: NONE PROVIDED

## Attachments

Date	Attachment Name	Context
3/30/2016 8:22 PM	Appendix E_Attachment E_Table 1.pdf	v2 - Section 7. Illicit Discharge Elimination Program
3/30/2016 8:31 PM	Appendix F-CSWRC.pdf	v2 - Section 8. Construction Storm Water Runoff Control Program
3/30/2016 8:34 PM	Appendix G_Attachment_SITE_PLAN_REVIEW.pdf	v2 - Section 9. Post-Construction Storm Water Runoff Program
3/30/2016 8:34 PM	Appendix G-Farmington_Post Construction-v1.1.pdf	v2 - Section 9. Post-Construction Storm Water Runoff Program
3/30/2016 9:06 PM	Appendix I - Final Collaborative TMDL 032416.pdf	v2 - Section 11. Total Maximum Daily Load Implementation Plan
7/5/2018 8:34 AM	Appendix_C_PPP.pdf	v2 - Section 5: General SWMP, Enforcement Response Procedure, and Public Participation/Involvement Program
7/5/2018	Appendix_D_PEP.pdf	v2 - Section 6. Public Education Program

<b>Date</b>	<b>Attachment Name</b>	<b>Context</b>
8:35 AM 7/5/2018 8:38 AM	Appendix_E_IDEP.pdf	v2 - Section 7. Illicit Discharge Elimination Program
7/9/2018 2:18 PM	Appendix H- Farmington_Spill_Response_Revised_20180709docx.pdf	v2 - Section 10. Pollution Prevention and Good Housekeeping Program
7/10/2018 4:47 PM	FarmingtonOutfallMap_20180710.pdf	v2 - Section 4: Regulated Area, Outfalls/Points of Discharge, and Nested Jurisdictions
7/11/2018 7:41 AM	Appendix B-ERP Farmington Revised 20180710.pdf	v2 - Section 5: General SWMP, Enforcement Response Procedure, and Public Participation/Involvement Program
7/13/2018 10:47 AM	Appendix H- Farm_DPW_SOP.pdf	v2 - Section 10. Pollution Prevention and Good Housekeeping Program
7/13/2018 10:47 AM	Appendix H- Farmington_9mile_SOP.pdf	v2 - Section 10. Pollution Prevention and Good Housekeeping Program
7/13/2018 10:48 AM	Appendix H- P2GH_Farmington_Revised_20180709.pdf	v2 - Section 10. Pollution Prevention and Good Housekeeping Program

### Status History

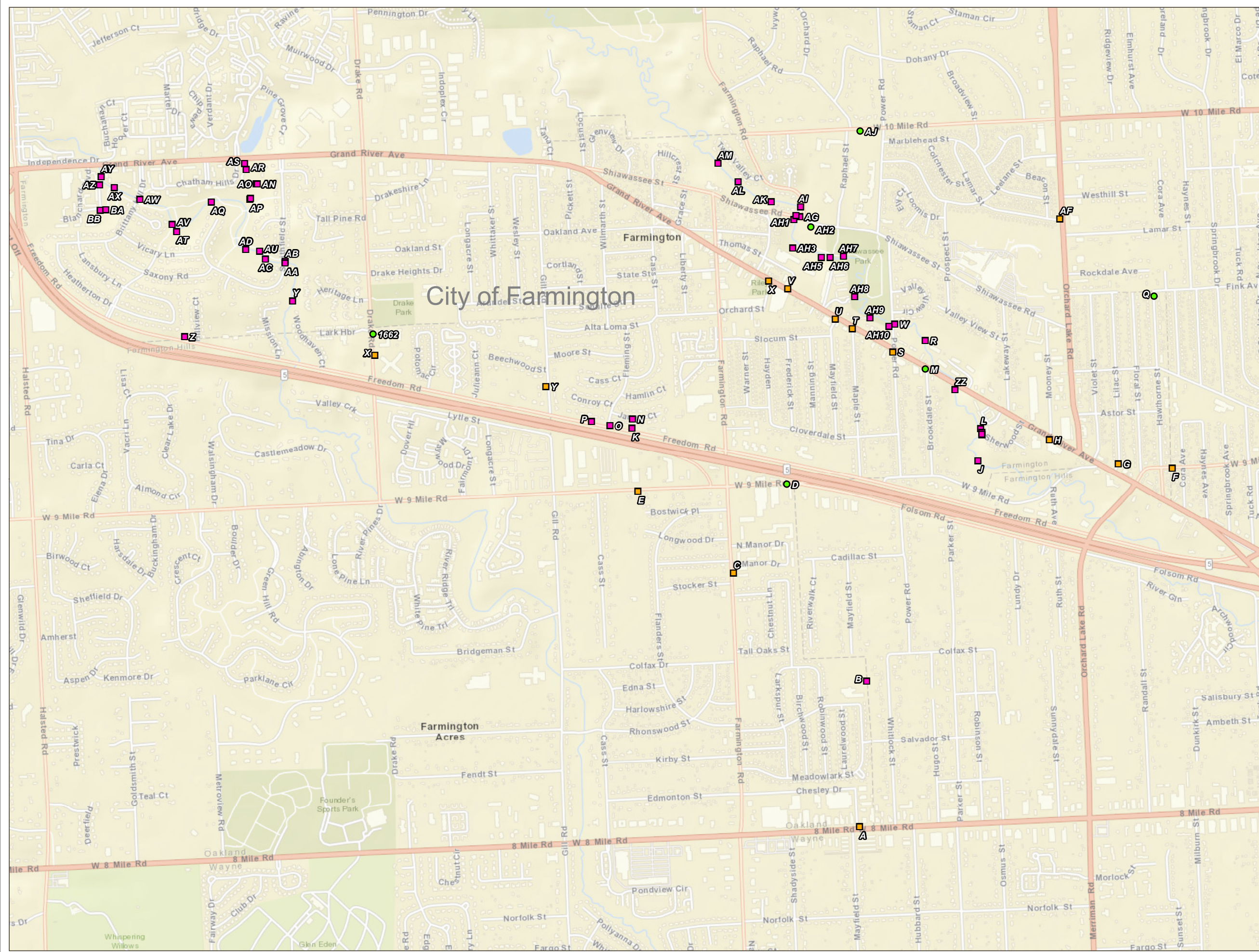
<b>Date</b>	<b>User</b>	<b>Processing Status</b>
7/2/2018 12:51:01 PM	John Deslippe	Draft
7/19/2018 11:42:34 AM	John Deslippe	Submitted

### Processing Steps

<b>Step Name</b>	<b>Assigned To/Completed By</b>	<b>Date Completed</b>
Form Submitted	John Deslippe	7/19/2018 11:42:34 AM

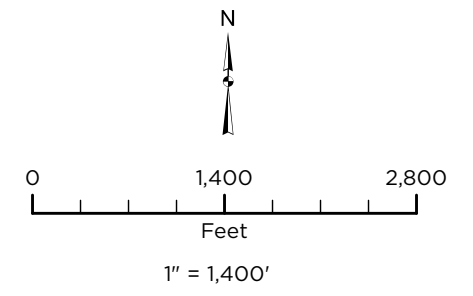
**APPENDIX A**  
**Outfall and Point of Discharge Information**

# Stormwater Outfalls Farmington, MI



City of Farmington

- swOutfall
- swDischarge
- swManhole



Source: Data provided by OHM Advisors. OHM Advisors does not warrant the accuracy of the data and/or the map. This document is intended to depict the approximate spatial location of the mapped features within the Community and all use is strictly at the user's own risk.

Coordinate System: NAD 1983 StatePlane Michigan South FIPS 2113 IntlFeet

Map Published: July 10, 2018





**APPENDIX B**  
**Enforcement Response Procedure**

# STANDARD OPERATING PROCEDURE ENFORCEMENT RESPONSE

PREPARED FOR:

THE CITY OF FARMINGTON  
23600 LIBERTY STREET, FARMINGTON, MI, 48335



REVISED JULY 2018

## **SECTION A – PURPOSE**

The Michigan Department of Environmental Quality (MDEQ) National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase II Stormwater Discharge Permit Application requires a procedure for Enforcement Response to address violations of the ordinance(s) or regulatory mechanism(s) identified in the Stormwater Management Plan.

## **SECTION B – GENERAL PENALTY**

Chapter 1.8 of Title 1 General Provision of the City of Farmington Code of Ordinances defines the penalties levied by the City for ordinance violations. The section specifically defines penalties for misdemeanors.

### **B.1 Chapter 1.8 – General Penalty, Misdemeanors**

*(a) “Every person convicted of a violation of any provision of this Code which is designated in the text of this Code to be a misdemeanor, or any rule, regulation, or order adopted or issued in pursuance to misdemeanor provisions shall be punished by a fine of not more than five hundred dollars (\$500.00) and costs of prosecution or by imprisonment for not more than ninety (90) days, or by both such fine and imprisonment in the discretion of the court. Each act of violation and every day upon which any such violation shall continue shall constitute a separate offense.”*

*(b) “The penalty provided by this section, unless another penalty is expressly provided, shall apply to the amendment of any section of this Code whether or not such penalty is reenacted in the amendatory ordinance.”*

*(c) “The penalty shall be in addition to the abatement of the violating condition, any injunctive relief, or revocation of any permit or license.”*

## **SECTION C – IDEP ENFORCEMENT RESPONSE PROCEDURE**

The enforcement response procedure related to IDEP enforcement can be found in Section E of the River Rouge Collaborative Illicit Discharge and Elimination Plan.

## **SECTION D – POST CONSTRUCTION STORMWATER RUNOFF CONTROL ENFORCEMENT RESPONSE PROCEDURE**

The enforcement response procedure related to the site plan approval application process, implementation of the approved site plan, long-term maintenance, and the enforcement thereof, can be found in Post Construction Stormwater Runoff Control Standard Operating Procedure.

## SECTION E – PART 91 COUNTY ENFORCEMENT AGENCY

### E.1 Part 91 Soil Erosion and Sedimentation Control 324.9121 – Violations; penalties.

*“(1) A person who violates this part is responsible for either of the following:*

*(a) If the action is brought by a county enforcing agency or a municipal enforcing agency of a local unit of government that has enacted an ordinance under this part that provides a penalty for violations, the person is responsible for a municipal civil infraction and may be ordered to pay a civil fine of not more than \$2,500.00.*

*(b) If the action is brought by the state or a county enforcing agency of a county that has not enacted an ordinance under this part, the person is responsible for a state civil infraction and may be ordered to pay a civil fine of not more than \$2,500.00.*

*(2) A person who knowingly violates this part or knowingly makes a false statement in an application for a permit or in a soil erosion and sedimentation control plan is responsible for the payment of a civil fine of not more than \$10,000.00 for each day of violation.*

*(3) A person who knowingly violates this part after receiving a notice of determination under section 9112 or 9117 is responsible for the payment of a civil fine of not less than \$2,500.00 or more than \$25,000.00 for each day of violation.*

*(4) Civil fines collected under subsections (2) and (3) shall be deposited as follows:*

*(a) If the state filed the action under this section, in the general fund of the state.*

*(b) If a county enforcing agency or municipal enforcing agency filed the action under this section, with the county or municipality that filed the action.*

*(c) If an action was filed jointly by the state and a county enforcing agency or municipal enforcing agency, the civil fines collected under this subsection shall be divided in proportion to each agency's involvement as mutually agreed upon by the agencies. All fines going to the department shall be deposited into the general fund of the state.*

*(5) A default in the payment of a civil fine or costs ordered under this section or an installment of the fine or costs may be remedied by any means authorized under the revised judicature act of 1961, 1961 PA 236, MCL 600.101 to 600.9948.*

*(6) In addition to a fine assessed under this section, a person who violates this part is liable to the state for damages for injury to, destruction of, or loss of natural resources resulting from the violation. The court may order a person who violates this part to restore the area or areas affected by the violation to their condition as existing immediately prior to the violation.*

*(7) This section applies to an authorized public agency, in addition to other persons. This section does not apply to a county enforcing agency or a municipal enforcing agency with respect to its administration and enforcement of this part and rules promulgated under this part.”*

## **SECTION F – ENFORCEMENT TRACKING**

The City will track all violations and issued permits. The following information will be collected and used for tracking records for each violation that is imposed by the City.

1. Name
2. Date
3. Location of the Violation (address, cross streets, etc.)
4. Business, Agency, Organization as applicable
5. Description of the Violation
6. Applicable Correspondence
7. Follow-up Actions
8. Key Dates
9. Descriptions of the City's Enforcement Response
10. Schedules for Achieving Compliance
11. Date the Violation was Resolved

## **SECTION G – PROCESS FOR REVISION**

Any questions on this policy and procedure should be directed to the Stormwater Manager or the City Manager. This procedure shall be reviewed once per permit cycle by the Stormwater Manager for any updates to streamline the requirements.

**APPENDIX C**

**Collaborative Public Participation/Involvement Program (PPP)**

Click [here](#) for link to Collaborative PPP Plan

**APPENDIX D**

**Collaborative Public Education Program (PEP)**

Click [here](#) for link to Collaborative PEP Plan

**APPENDIX E**

**Collaborative Illicit Discharge Elimination Plan (IDEP)**

Click [here](#) for link to Collaborative IDEP



**APPENDIX F**  
**Construction Stormwater Runoff Control**

# STANDARD OPERATING PROCEDURE CONSTRUCTION STORMWATER RUNOFF CONTROL PROGRAM

PREPARED FOR:  
THE CITY OF FARMINGTON  
23600 LIBERTY STREET, FARMINGTON, MI, 48335



APRIL 2016

## **SECTION A – PURPOSE**

The Michigan Department of Environmental Quality (MDEQ) National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase II Stormwater Discharge Permit Application requires a description of current and proposed BMPs to meet the minimum control measure requirements for the construction stormwater runoff control program to the maximum extent practicable. The City of Farmington does not administer a Part 91 program and is not a designated municipal enforcement agency. The following standard operating procedure provides a description of the procedures the City employs for construction site runoff control that includes notification procedures and ensuring proper permits are obtained by those disturbing greater than one acre of soil.

## **SECTION B – NOTIFICATION PROCEDURE**

The City of Farmington will notify the Oakland County Water Resource Commissioner (OCWRC) when soil or sediment is discharged into the City's MS4 in a quantity that could negatively impact surface waters of the state. Complaints received by the City will be referred to OCWRC within 24 hours.

Through the site plan review process, the City of Farmington ensures that construction activity one acre or greater in total earth disturbance with the potential to discharge to the MS4 does obtain a Part 91 Permit and/or a State of Michigan Permit by Rule or is reviewed by an approved Authorized Public Agency through the site plan review process.

## **SECTION C – MEASUREABLE GOALS**

To demonstrate the effectiveness of the County's Part 91 program, the following metrics will be tracked for reporting purposes:

- Number of Part 91 related complaints received and referred to the County by the City building inspector.
- Number of Part 91 permits issued by the County within the City.

These metrics will be tracked over the reporting cycle that is specified in the City's Certificate of Coverage.

## **SECTION D – REPORTABLE DISCHARGES**

The City will not report instances of *de minimis* soil discharges to MDEQ. For instances where the discharge of sediment cannot be immediately contained on site, or if there are other pollutants that include pesticides, petroleum derivatives, construction chemicals, and solid waste associated with the discharge in quantities that are consistent with the spill response plan as defined in Appendix H of the Stormwater Management Plan (SWMP), the City will notify the MDEQ through the Pollution Emergency Alert System (PEAS) at 1-800-292-4706.

## **SECTION E –STATE OF MICHIGAN PERMIT BY RULE**

The City shall advise the landowner or recorded easement holder of the State of Michigan Permit by Rule (Rule 323.2190) for storm water discharge from construction activity if the area of the disturbance is greater than 5 acres. These criteria will be identified during the site plan review process and will be included in correspondence with the landowner as appropriate.

## **SECTION F – PROCESS FOR REVISION**

Any questions on this policy and procedure should be directed to the Stormwater Manager or the City Manager. This procedure shall be reviewed once per permit cycle by the Stormwater Manager for any updates to streamline the requirements.

**APPENDIX G**  
**Post-Construction Stormwater Runoff Program**

# STANDARD OPERATING PROCEDURE POST CONSTRUCTION STORMWATER RUNOFF CONTROL

PREPARED FOR:

THE CITY OF FARMINGTON  
23600 LIBERTY STREET, FARMINGTON, MI, 48335



APRIL 2016

## **SECTION A – PURPOSE**

The Michigan Department of Environmental Quality (MDEQ) National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase II Stormwater Discharge Permit Application requires a description of current and proposed BMPs to meet the minimum control measure requirements for the post-construction stormwater runoff control program to the maximum extent practicable. Post-construction stormwater runoff controls are necessary to maintain or restore stable hydrology in receiving waters by limiting surface runoff rates and volumes and reducing pollutant loadings from sites that undergo development or significant redevelopment.

## **SECTION B – ADOPTION OF COUNTY STANDARDS**

The City of Farmington intends to adopt the Oakland County Stormwater Management Standards. Should any revisions to these standards be implemented by the County, the City will subsequently review and implement the revised standards as appropriate. It is the City's understanding that the Standards will be available summer of 2016. The City will review the updated Standards when available. Any necessary updates to these standards will be drafted and adopted by the City of Farmington by October 1, 2016.

## **SECTION C – MEASURABLE GOALS**

To demonstrate the effectiveness of the post construction stormwater runoff control program, the following metrics will be tracked for reporting purposes:

- Number of stormwater site plan reviews requested and completed
- Number of maintenance violations of constructed BMPs
- Number of instances where the City had to undertake corrective measures

These metrics will be tracked over the reporting cycle that is specified in the City's Certificate of Coverage.

## **SECTION D – PROCESS FOR REVISION**

This procedure shall be reviewed every two years by the Stormwater Manager for any updates to streamline the requirements.

ARTICLE 13. - SITE PLAN REVIEW

Sec. 35-161. - Intent.

It is the intent of this article to require site plan review and approval prior to issuance of a zoning compliance permit for certain buildings, structures and uses to ensure that the arrangement, location, design and materials within a site are consistent with the character of the city and the goals and design guidelines in the City of Farmington Master Plan. In particular, the standards herein are intended to minimize negative impacts on natural resources, utility systems, public service delivery, traffic operations, adjacent neighborhood or district character and the character of future development.

It is further the intent of this article to bring existing sites that do not conform with current standards of this chapter into greater conformity when uses change or an exterior renovation or expansion is proposed.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-162. - Uses Subject to Site Plan Review.

- A. A zoning compliance permit shall not be issued until a plan is approved in accordance with the procedures and standards set forth herein and all necessary review, inspection and permit fees have been fully paid.
- B. The following table lists those items that require planning commission approval or administrative approval. The table also indicates whether a full site plan is required or where a less detailed architectural site plan is allowed. Activities exempt from obtaining approval under this article are still subject to building permit requirements.

Use or Activity	PC	Administrative	Exempt
PC: Requires planning commission review Administrative: Requires city staff administrative review Exempt: Requires a building or zoning compliance permit SP: Requires submittal of a full site plan, prepared according to Sec. 35-165 AP: Requires submittal of less detailed architectural site plan, prepared according to Sec. 35-165			
Residential:			
Construction of single-family dwelling unit in a new subdivision or site condominium	AP (1)		
Construction of single-family dwelling unit in an existing subdivision or neighborhood (i.e., infill housing) that will result in a floor area ratio no more than 200% of the average of homes within 300 feet			Building permit



Construction of a new single-family dwelling unit that will result in a floor area more than 200% of the average of homes within 300 feet	AP		
Construction of more than 1 residential dwelling unit on a lot such as condominiums or multiple-family residential	AP		
Expansion to an existing single-family dwelling unit that will result in a floor area more than 200% of the average of homes within 300 feet	AP (6)		
Renovation or expansion of single-family dwelling unit that will result in a floor area ratio no more than 200% of the average of homes within 300 feet			Building permit
Construction expansion or demolition of single-family dwelling or accessory building in historic district	AP (2)(6)		
Adult and child residential care facilities day care facilities	In accordance with Sec. 35-25, Adult and Child Residential Care Facilities		
Home occupations in accordance with Sec. 35-27, Home Occupations			Building permit
Residential Accessory Buildings, Structures and Uses:			
Single-family and two-family accessory uses			Building permit (3)
Site improvements such as installation or relocation of fences, walls, lighting, waste receptacles, carports, etc.		AP	
Commercial and recreational vehicle parking and storage in multiple-family districts	AP		
Reception antenna facilities over 3 feet in diameter	AP		
Nonresidential Buildings:			

Construction of building or parking lot	SP		
Nonresidential building expansion of more than 5% of floor area or 500 square feet, shown on approved site plan, whichever is less	SP		
Nonresidential building expansion of less than 5% of floor area or less than 500 square feet, shown on approved site plan, whichever is less		AP (4)(6)	
Internal construction or change in the floor plan for a conforming use that does not increase gross floor area or the requirements for parking			Building permit
Building renovations, modifications to building facade or other architectural features that do not result in additions to floor area or increased building height	AP		
Modifications to upgrade a building to improve barrier-free design, comply with Americans with Disabilities Act or other federal, state or county regulations		AP	
Nonresidential Accessory Buildings, Structures and Uses:			
Non-single-family accessory uses greater than 120 square feet		AP (4)(6)	
Site improvements including installation of walls, fences, lighting, waste receptacles, etc.		AP (4)	
Accessory open air businesses	AP		
Nonresidential Site Changes:			
Change of use to one permitted that requires changes to parking, loading, circulation, traffic volumes, lighting and landscaping		AP (4)(6)	
Change of use to one permitted in zoning district and requires no changes to conforming building footprint,			Building permit

exterior elevation, parking, landscaping, lighting, sidewalks or signs			
Change in use or occupancy of historic residential structure in nonresidential zoning district	In accordance with Sec. 35-54, Preservation of Historical Structures Within Nonresidential Districts		
Modifications to nonconforming uses, buildings or sites, including a change to a more conforming situation	SP		
Projects in Any District:			
Special land uses in accordance with Article 12, Special Land Uses	SP		
PUDs in accordance with Article 10, Planned Unit Development	SP		
Temporary buildings, structures, uses and events	In accordance with Sec. 35-28, Temporary Buildings, Structures, Uses and Events		
Parking lot expansion or increase in pavement area by more than 5%	SP		
Repairing, resurfacing, re-striping, curbing or expansion of parking lots by 5% or less		SP (4)(6)	
Expansion, replacement or alteration of landscaped areas			Building permit (5)
Patios, pavers, pathways, walkways, sidewalks at grade level			Building permit
Entranceway features including fences, walls, landscaping		AP	
Grading, excavation, filling, soil removal, creation of swimming pool, creation of ponds or tree clearing over 100 square feet		AP	

Grading, excavation, filling, soil removal, creation of ponds, installation of a swimming pool or clearing of trees within an area of less than 100 square feet			Building permit
Erection of essential public service local distribution lines			Building permit
Erection of essential public service buildings and storage yards	SP		

Notes:

- (1) The planning commission may approve typical model home designs at the time of approval of a subdivision or condominium, and individual dwellings within the development that are substantially in conformance with these typical plans can be approved administratively by the building official.
- (2) Prior to submittal of a plan to the planning commission, a plan shall be submitted to the city historical commission for review and comment according to Chapter 17, Historic Preservation, of the City of Farmington Code of Ordinances. The historical commission shall submit its recommendation to the planning commission within thirty (30) days of the receipt of the plan documents.
- (3) Unless otherwise noted in Article 2, General Provisions. Accessory buildings in the Historic District shall require planning commission approval.
- (4) Administrative approval shall only be granted where all requirements are met. Any modifications or waivers allowed by this chapter for building design, parking, landscaping or other design requirements must be approved by the planning commission.
- (5) In accordance with section 35-208, nonconforming sites.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-163. - Planning Commission Review Procedures.

- A. Preliminary Plan Review (Optional). The planning commission approval process includes an optional review of a preliminary plan by the planning commission and/or city staff. This option is recommended for new construction, uses that abut single-family areas, special land uses and PUDs. The applicant may submit an architectural site plan or even less detailed concept plan for the planning commission and city staff to review and provide general comment on compliance with the standards of this chapter and to discuss architectural and site concepts and alternatives prior to the preparation of a complete application.
- B. Final Planning Commission Review. When a planning commission review is required in accordance with section 35-162, uses subject to site plan review, an application shall be submitted to the building department, ten (10) days prior to a regularly scheduled planning commission meeting. The application shall include:
  1. A completed application form, available at the building department or city manager's office.

2. The number of copies of the plan as specified by the city manager's office, containing the information required by section 35-165.
  3. An application fee; note that a separate escrow deposit may be required for administrative or consultant charges to review the plan submittal.
- C. Engineering Plan Review. Following final site plan approval and prior to issuance of a certificate of zoning compliance or building permit, appropriately detailed engineering plans shall be submitted for review and approval by the city engineer. Engineering plans shall contain all required information and details, and shall reflect all conditions of final site plan approval.
- D. Standards for Approval. Based upon the following standards, the planning commission may deny, approve, or approve with conditions the plan:
1. Site Design Characteristics. All elements of the plan shall be designed to take into account the site's topography; the size and type of lot; the character of adjoining property; the type and size of buildings; pedestrian circulation and the traffic operations of adjacent streets. The site shall be developed so as not to impede the normal and orderly development or improvement of surrounding property for uses permitted in this chapter. The site shall be designed to conform to all provisions of this chapter.
  2. Building Design. The building design shall relate to the surrounding environment in regard to texture, scale, mass, proportion and color. High standards of construction and quality materials will be incorporated into the new development in accordance with the requirements of section 35-53, nonresidential design requirements. Buildings shall be designed to take advantage of natural heating, cooling, and buffering opportunities and incorporate energy efficient fixtures.
  3. Change of Use and Redevelopment. For changes of use and site alterations or building expansions, the planning commission shall determine the extent of improvement required in relation to the extent of change proposed. In particular the planning commission may require changes to improve public safety; closure or redesign of driveways; redesign or resurfacing of parking and loading areas; installation of curbing; replacement or additions to landscaping or screening; upgrades to lighting; relocation and enclosure of waste receptacles; and upgrades to the building exterior.
  4. Preservation of Significant Natural Features. The landscape shall be preserved in its natural state, insofar as practicable, by minimizing tree and soil removal, alteration to the natural drainage courses, and the amount of cutting, filling and grading. Views of the river valley shall be preserved and protected. Insofar as practical, natural features and the site topography shall be incorporated into the proposed site design.
  5. Streets. All streets shall be developed in accordance with the City of Farmington standards, unless developed as a private road in accordance with the requirements of section 35-50, private roads. All streets shall be designed to accommodate all modes of transportation. Street connections shall be provided where necessary to enhance vehicular and pedestrian connectivity to surrounding neighborhoods.
  6. Access, Driveways and Circulation. Safe, convenient, uncongested and well-defined vehicular circulation within and to the site shall be provided and shall meet the following criteria:
    - a. Drives, streets, parking and other elements shall be designed to discourage through traffic, while promoting safe and efficient traffic operations within the site and at its access points.
    - b. All driveways shall meet the design and construction standards of the city.
    - c. Access to the site shall be designed to minimize conflicts with traffic on adjacent streets, particularly left turns into and from the site.
    - d. For uses having frontage and/or access on a major street, the number, design, and location of access driveways and other provisions for vehicular circulation shall comply with the provisions of Article 14, Off-Street Parking and Loading Standards and Access Design.

7. Emergency Vehicle Access. All buildings or groups of buildings shall be arranged so as to permit emergency vehicle access as required by the fire department and police department.
8. Sidewalks, Pedestrian and Bicycle Circulation. Safe pedestrian circulation and access to building entrances shall be provided. Conflicts between pedestrian pathways and traffic circulation shall be minimized to the extent practical. In locations where transit is available, convenient pedestrian access shall be provided from the building entrance to the transit stop. Pedestrian circulation shall be as provided in section 35-45, pedestrian walkways.
9. Parking. The number and dimensions of off-street parking spaces shall be sufficient to meet the minimum required by Article 14, Off-Street Parking and Loading Standards and Access Design. Parking lots shall be designed to minimize the amount of impermeable surface.
10. Loading. All loading and unloading areas and outside storage areas, including waste receptacles, shall be accessed and screened in accordance with section 35-174, off-street loading and unloading.
11. Waste Receptacles. Waste receptacles shall be provided as required in section 35-51, waste receptacles and enclosures.
12. Lighting. Exterior lighting shall be arranged so that it is deflected away from adjacent properties and so that it does not impede the vision of traffic along adjacent streets in accordance with section 35-48, exterior lighting.
13. Mechanical Equipment and Utilities. Mechanical equipment and utilities, including roof-mounted, building-mounted and ground-mounted, shall be screened in accordance with the requirements of section 35-52, mechanical equipment.
14. Landscaping. Landscaping, landscape buffers and greenbelts shall be provided and designed in accordance with the provisions of Article 15, Landscape Standards. Potable water consumption for irrigation shall be minimized to the extent practical through utilization of plant species that minimizes the need for irrigation, irrigation efficiency, use of captured rainwater or use of recycled wastewater.
15. Utilities and Stormwater Management. Public water and sewer facilities shall be available or shall be provided for by the developer as part of the site development. All utilities and stormwater management facilities shall be reviewed and approved by the city engineer. Low impact stormwater management techniques shall be used wherever possible such as pervious pavement, bio-swales, rain gardens and green roofs.
16. Noise. The site has been designed, buildings so arranged, and activities/equipment programmed to minimize the emission of noise, particularly for sites adjacent to residential districts and to comply with the city's noise ordinance.
17. Other Agency Reviews. The applicant has provided documentation of compliance with other appropriate agency review standards, including, but not limited to, the Michigan Department of Environmental Quality (MDEQ), Michigan Department of Transportation (MDOT) and other federal, state and county agencies, as applicable.

D. Conditions of Approval.

1. As part of an approval to any plan, the planning commission may impose any additional conditions or limitations as may be necessary to ensure that public services and facilities affected by a proposed land use or activity will be capable of accommodating increased service and facility loads caused by the land use or activity. Conditions may also be imposed to protect the natural environment and conserve natural resources and energy; to ensure compatibility with adjacent uses of land; and to promote the use of land in a socially and economically desirable manner. Such conditions shall be considered necessary by the planning commission to ensure compliance with the review standards, and necessary to meet the intent and purpose of this chapter.
2. Approval of a plan, including conditions made as part of the approval, runs with the property described as part of the application and not with the owner of such property.

3. A record of conditions imposed shall be recorded on the plan and maintained by the city. The conditions shall remain unchanged unless an amendment to the plan is approved by the planning commission.
4. The building official may require that the applicant revise and resubmit a plan in compliance with the conditions imposed by the planning commission. Should resubmittal be required, all modifications shall be highlighted on the plan in such a manner that the modifications are easily identified.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-164. - Administrative Review Submittal Requirements.

- A. The intent of this section is to provide for an administrative review and approval by the building official of plans as required by section 35-162, uses subject to site plan review.
- B. A plan may be submitted for administrative review for uses noted in section 35-162, uses subject to site plan review. An administrative review may also consist of a review of the conditions imposed on an approved site plan by the planning commission.
- C. When administrative review is required in accordance with section 35-162, uses subject to site plan review, an application shall be submitted to the building department. The application shall include:
  1. A completed application form, available at the building department or city manager's office.
  2. An application fee; note that a separate escrow deposit may be required for administrative or consultant charges to review the site plan submittal.
  3. A full site plan or architectural site plan, as required in section 35-162, that contains the information required by section 35-165.
- D. If the administrative review consists of a review of an approved site plan with conditions by the planning commission, the complete site plan must be submitted with all revisions highlighted in such a manner that all modifications are easily identified.
- E. The building official may waive some of the above submittal requirements where not deemed necessary to determine compliance with the standards of this chapter.
- F. The building official retains the option to consult with the city engineer, attorney or planner, or to require additional information or a complete site plan for review by the planning commission, particularly for sites which do not comply with previously approved site plans, sites with parking deficiencies, sites abutting residential districts or sites experiencing significant problems with drainage, traffic, noise, aesthetics or other general health and safety issues.
- G. The building official may deny, approve, or approve with conditions the plan based upon the standards of subsection 35-163.D.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-165. - Site Plan Submittal Requirements.

- A. The following minimum information shall be included on all site plans and sketch plans required in accordance with section 35-162, uses subject to site plan review:

	Engineered Site Plan	Architectural Site Plan
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1. Site Plan Descriptive and Identification Data:		
Narrative description of the project that explains the operations and extent of the proposed use and general characteristics of the site plan including, but not limited to, topography, drainage, detention/retention, access, natural features, adjacent uses, and traffic conditions.	X	X
Site plans shall consist of an overall plan for the entire development, drawn to an engineer's scale of not less than 1 inch = 50 feet for property less than 3 acres, or 1 inch = 100 feet for property 3 acres or more in size	X	X
Sheet size shall be at least 24 x 36 inches	X	
If a large development is shown in sections on multiple sheets, then 1 overall composite sheet shall be included	X	
Title block with sheet number/title; name, address and telephone number of the applicant and firm or individual who prepared the plans; and date(s) of submission and any revisions (month, day, year)	X	X
Scale and north-point	X	X
Location map drawn to a separate scale with north-point, showing surrounding land uses, water features and streets within a quarter mile	X	X
A note on each plan sheet stating "Not to Be Used as Construction Drawings"	X	X
Legal and common description of property	X	X
Identification and seal of registered or licensed architect, civil engineer, land surveyor, landscape architect or community planner who prepared drawings	X	X
Zoning classification of petitioner's parcel and all abutting parcels	X	X
Proximity to section corner and major thoroughfares	X	
Net acreage (minus rights-of-way) and total acreage	X	X



2. Site Data:		
Existing lot lines, building lines, structures, parking areas and other improvements on the site and within 100 feet of the site	X	X
Where grading is proposed, topography on the site and within 100 feet of the site at 2-foot contour intervals, referenced to a U.S.G.S. benchmark	X	
Proposed lot lines, lot dimensions, property lines, setback dimensions, structures and other improvements on the site and within 100 feet of the site	X	
Location of existing drainage courses, floodplains, rivers and MDEQ regulated wetlands with elevations	X	
All existing and proposed easements	X	X
Existing and proposed lighting	X	X
Details of exterior lighting including locations, height, fixtures and method of shielding	X	X
A lighting photometric grid overlaid on the proposed site plan indicating the overall lighting intensity of the site (in footcandles)	X	
Location of waste receptacle(s) and mechanical equipment and description of existing or proposed method of screening	X	X
Detailed drawings of waste receptacle and mechanical equipment screening, including the proposed size, height, and construction	X	
Location, size, height and lighting of all proposed freestanding and wall signs	X	
Location, size, height and material of construction for all walls or fences with cross-sections	X	X
Extent of any outdoor sales or display area	X	X
Location, height and outside dimensions of all storage areas and facilities	X	

<b>3. Transportation and Circulation:</b>		
Existing and proposed driveways	X	X
Dimensions, curve radii and centerlines of existing and proposed access points, roads and road rights-of-way or access easements	X	
Driveways and intersections within 250 feet of site	X	
Location and width of all sidewalks	X	X
Cross section details of existing and proposed roads, driveways, parking lots, sidewalks and pathways illustrating materials, width and thickness	X	
Dimensions of acceleration, deceleration and passing lanes	X	
Dimensions of parking spaces, islands, circulation aisles and loading zones	X	X
Radii for driveways and parking lot islands	X	
Calculations for required number of parking and loading spaces	X	X
Designation of fire lanes	X	
Traffic regulatory signs and pavement markings	X	
Shared parking or access easements, where applicable	X	X
Location of nearest transit stop if along transit route	X	
<b>4. Landscape Plans: (city reserves the right to require plans be prepared and sealed by a registered landscape architect)</b>		
The general location, type and size of all existing plant material, with an identification of materials to be removed and materials to be preserved	X	X
Limits of grading and description of methods to preserve existing landscaping	X	

The location of proposed lawns and landscaped areas	X	X
Landscape plan, including location, of all proposed shrubs, trees and other plant material	X	X
Planting list for proposed landscape materials with caliper size or height of material, spacing of species, botanical and common names, and quantity	X	
Calculations for required greenbelts, buffer zones, parking lot trees, detention ponds and interior landscaping	X	
Method of installation and proposed dates of plant installation	X	
Landscape maintenance program	X	
5. Building and Structure Details:		
Location, height, and outside dimensions of all proposed buildings or structures	X	X
Building floor plans and total floor area	X	X
Details of accessory structures and any screening	X	
Building facade elevations for all sides, drawn at an appropriate scale	X	X
Method of screening for all ground-mounted, building-mounted and roof-mounted equipment or, if existing, a description of existing screening	X	X
Description of exterior building materials including colors (samples or photographs may be required)	X	X
Building elevations super-imposed on a photograph of the block showing adjacent buildings or a 3-D model of the building and surrounding buildings	X	
6. Information Concerning Utilities, Drainage and Related Issues:		
Location of sanitary sewers and septic systems, existing and proposed	X	

Location and size of existing and proposed water mains, water service, storm sewers and drains, and fire hydrants	X	
Proposed changes to utilities	X	X
Stormwater retention and detention ponds, including grading, side slopes, depth, high water elevation, volume and outfalls	X	
Location of above and below ground gas, electric and telephone lines, existing and proposed	X	
Location of utility boxes	X	
7. Additional Information Required for Multiple-family Residential Development:		
The number and location of each type of residential unit (1-bedroom units, 2-bedroom units, etc.)	X	
Density calculations by type of residential unit (dwelling units per acre)	X	X
Garage and/or carport locations and details, if proposed	X	
Mailbox clusters	X	
Location, dimensions, floor plans and elevations of common building(s) (e.g., recreation, laundry, etc.), if applicable	X	
Swimming pool fencing detail, including height and type of fence, if applicable	X	
Location and size of recreation and open space areas	X	X
Indication of type of recreation facilities proposed for recreation area	X	
8. Miscellaneous:		
A general operations plan including description of the nature of the proposed use or activity, noise impacts, hours of operation, the number or employees, etc.	X	X

Assessment of potential impacts from the use, processing, or movement of hazardous materials or chemicals, if applicable	X	
For additions and expansions, a clear distinction between existing buildings, structures and impervious surface areas and any proposed development must be made	X	X
Any additional graphics or written materials requested by the planning commission or building official to assist in determining the compliance with site plan or special land use standards, such as but not limited to: aerial photography; cross-sections which illustrate impacts on views and relationship to adjacent land uses; photographs; traffic impact studies and parking demand studies; and environmental impact studies; such information shall be prepared by a qualified individual or firm with experience in the specific discipline	X	X

- B. Additional information may be required, if in the opinion of the building official, planning commission or other board or official charged with the review of plans, such information is required to ensure compliance with the ordinance. Additional information required may include, but is not limited to, the following:
1. Where building additions, parking expansions or other structures are proposed within three (3) feet of the property line, plans must also include a boundary survey to ensure proper setbacks will be maintained.
  2. Building elevation illustrations or 3-D models of the building and surrounding buildings for administrative facade changes in the CBD, if the proposed change is significant enough to have potential effects on the character of the block or surrounding buildings.
- C. The planning commission shall determine the amount of detail required on a final site plan. Certain detail may be waived when not necessary to the review in question; however, prior to obtaining a certificate of zoning compliance or building permit, a fully engineered site plan containing all required information that reflects any conditions of approval shall be submitted.
- D. Following approval of the site plan and prior to receiving a building permit, digital files of the site plan drawings shall be provided to the city. Acceptable data formats are ESRI shapefiles, DXF, or AUTOCAD DWG. Digital files shall contain information which references either government corners or existing public right-of-way intersections in distance and direction from the project area. All digital files will be created at a one to one (1:1) scale. Feature or element information within the digital files shall be isolated by both feature groups (files) and layers/levels and shall include a written description of both the layer name and the information contained on the layer(s).

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-166. - Validity of Approved Plan.

- A. In cases where actual physical construction of a substantial nature of the structures authorized by a plan approval has not commenced within one (1) year of issuance of a building permit, and a written application for extension of the approval has not been filed as provided below, the plan approval shall automatically become null and void and all rights thereunder shall terminate.
- B. Upon written application prior to expiration, the building official may authorize an extension of the time limit of the plan approval. The building official may elect to send the request to the planning commission.
- C. No application for a plan approval which has been denied wholly or in part shall be resubmitted for a period of one (1) year from the date of the order of denial, except on the grounds of new evidence or proof of changed conditions relating to any reason noted for the denial found to be valid by the planning commission.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-167. - Amendment to Approved Plans.

Amendments to the approved plan may occur as follows:

- A. An applicant or property owner who has been granted plan approval shall notify the building official of any proposed amendments to an approved plan.
- B. Minor changes may be approved by the building official upon certification in writing to the planning commission that the proposed revision does not alter the basic design, compliance with the standards of this chapter, nor any specified conditions of the plan as agreed upon by the planning commission.
- C. Should the building official determine that the requested modification to the approved plan is not minor, a new plan in accordance with the requirements of this article, shall be submitted.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-168. - Appeals of Plans.

An appeal of a planning commission decision concerning a plan shall be to the circuit court of Oakland County.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-169. - Property Maintenance After Approval.

- A. It shall be the responsibility of the owner of the property for which plan approval has been granted to maintain the property in accordance with the approved site design on a continuing basis until the property is razed, or until new zoning regulations supersede the regulations upon which plan approval was based, or until a new site design is approved. This maintenance requirement includes landscaping, walls, fences, pavement, pavement markings, building exterior, drainage facilities and all other elements of the approved plan.
- B. Any property owner who fails to properly maintain an approved plan and site design shall be deemed in violation of this chapter and shall be subject to the penalties appropriate for a violation.
- C. With respect to condominium projects, the master deed shall contain provisions describing the responsibilities of the condominium association, condominium owners, and public entities, with regard to maintenance of the property in accordance with the approved plan on a continuing basis. The master

deed shall further establish the means of permanent financing for required maintenance and improvement activities which are the responsibility of the condominium association.

(Ord. No. C-746-2010, § 1, 4-19-10)

Sec. 35-170. - Reserved.

**APPENDIX H**  
**Pollution Prevention and Good Housekeeping**



# STANDARD OPERATING PROCEDURE POLLUTION PREVENTION AND GOOD HOUSEKEEPING

## GENERAL PROCEDURES

PREPARED FOR:

THE CITY OF FARMINGTON  
23600 LIBERTY STREET, FARMINGTON, MI, 48335



REVISED JULY 2018

## SECTION A – PURPOSE

The Michigan Department of Environmental Quality (MDEQ) National Pollution Discharge Elimination System (NPDES) Municipal Separate Storm Sewer System (MS4) Phase II Stormwater Discharge Permit Application requires a description of current and proposed BMPs to meet the minimum control measure requirements for the Pollution Prevention and Good Housekeeping Program to the maximum extent practicable to prevent or reduce the discharge of pollutants from municipal facilities and operations.

## SECTION B – FACILITY ASSESSMENT AND PRIORITIZATION

City owned and operated facilities have been assessed for their potential to discharge pollutants to the waters of the state. Each facility was evaluated based on the following criteria:

1. Amount of urban pollutants stored at the site (i.e. sediment, nutrients, metals, hydrocarbons, pesticides, fertilizers, herbicides, chlorides, trash, bacteria, or other site-specific pollutants)
2. Identification of improperly stored materials
3. Potential for polluting activities to be conducted outside (i.e. vehicle washing)
4. Proximity to waterbodies
5. Poor housekeeping practices
6. Discharge of pollutants of concern to impaired waters

Based on these criteria, the potential for each facility to discharge pollutants to the waters of the state were rated high, medium, or low. For “low” priority facilities where no assessment factors are present, catch basin cleaning and street sweeping will be performed as indicated in the applicable procedures for these activities. For “medium” priority facilities, appropriate BMPs are considered based on the assessment factors present to prevent or minimize the potential for pollutants from entering surface waters of the state. “High” priority facilities have specific procedures that are included in this document.

## SECTION C – UPDATES AND PRIORITY REVISION

This inventory shall be updated within 30 days as facilities and structural stormwater controls are added, removed, or no longer owned or operated by the applicant. Priority level assessments shall be revised within 30 days prior to discharging stormwater at a new facility, or when the storage of materials, equipment, or vehicles changes at a facility.

## SECTION D – MUNICIPAL INVENTORY AND ASSESSMENT

The following table identifies the City’s owned or operated facilities with a discharge of stormwater to surface waters of the state. **Table 1** includes a list of properties owned or operated by the City that has stormwater controls on site and provides the estimated number of stormwater structural controls (i.e. catch basins, detention basins, etc.) at each site, along with the priority level of potential discharge of pollutants to waters of the state.

**Table 1**

<b>Facility Name</b>	<b>Structural Controls</b>	<b>Priority Level</b>	<b>Assessment Factors</b>	<b>BMP's Implemented</b>
DPW Facility	Catch Basins (2) Dumpster (1) Diesel Fuel Tank (1) Gasoline Fuel Tank (1) Salt Dome (1) Calcium Chloride Tank (1)	High	1,3	See Section E Catch Basin Cleaning Street Sweeping
32000 W. 9 Mile Road Storage Yard	Catch Basins (0) Gravel Storage (1) Slag Storage (1) Sand Storage (1) Float Stone Storage (1) Topsoil Storage (1)	High	1,4	See Section E
Combined Facility: City Hall Police Headquarters Fire Department Library	Catch Basins (4) Dumpster (1)	Low	1	Catch basin cleaning Street sweeping
Drake Park	Catch Basins (1) Dumpster (1)	Low	1	Catch basin cleaning Street sweeping
DDA Park and Orchard Street Lot	Catch Basins (3)	Low	1	Catch basin cleaning Street sweeping
Shiawassee Park	Catch Basins (1) Dumpster (1)	Low	1,4	Catch basin cleaning Street sweeping
Masonic Park	Catch Basins (2)	Low	1	Catch basin cleaning Street sweeping
Riley Park	Catch Basins (3)	Low	1	Catch basin cleaning Street sweeping
Los Tres Amigos Lot	Catch Basins (2)	Low	1	Catch basin cleaning Street sweeping
State Street Lot	Catch Basins (3)	Low	1	Catch basin cleaning Street sweeping
North Lot	Catch Basins (2)	Low	1	Catch basin cleaning Street sweeping
Maxfield Training Center Lot	Catch Basins (1)	Low	1	Catch basin cleaning Street sweeping
Downtown Lot	Catch Basins (17)	Low	1	Catch basin cleaning Street sweeping
Pages Lot	Catch Basins (4)	Low	1	Catch basin cleaning Street sweeping
Oakwood Cemetery	Catch Basin (2)	Low	1	Catch basin cleaning Street Sweeping

In addition to the properties in Table 1, the City also owns other lots with no structural stormwater controls.

## **SECTION E –SITE SPECIFIC SOP FOR HIGH PRIORITY SITES**

The MDEQ NPDES Phase II Stormwater Discharge Permit Application requires a standard operating procedure (SOP) for identifying the structural and non-structural stormwater controls implemented and maintained to prevent or reduce pollutant runoff at each facility with the high potential for pollutant runoff.

### **E.1 Inventory and Description of Materials and Activities**

The majority of the City’s Department of Public Works (DPW) operations is conducted at their 33720 West Nine Mile Road and 32000 Nine Mile Road Storage Yard facilities. Biweekly maintenance and inspection of site storm water management and control devices will be conducted by DPW staff to prevent and reduce pollutant runoff. Both sites are considered a high priority site due the following operations:

#### **DPW Facility – 33720 Nine Mile Road**

- Fuel Storage and Fueling
- Maintenance and cleaning of vehicles and equipment
- Salt Storage
- Calcium Chloride Storage

#### **32000 Nine Mile Road Storage Yard**

- Stockpiled materials

Site specific standard operating procedures have been developed for these facilities and are included as separate documents. Please see the Standard Operating Procedures –Farmington DPW Facility, and Standard Operating Procedures – Nine Mile Storage Yard.

## **SECTION F –CATCH BASIN MAINTENANCE PRIORITY**

High Priority streets and catch basins have one or more of the following criteria:

- Immediately adjacent to stockpiles or potentially polluting materials that have with secondary containment measures or other BMPs;
- Frequently used, City-owned and maintained parking lots that have a high potential for pollutant runoff; and/or
- Receive drainage from unpaved roadways and/or parking lots.

Medium Priority streets and catch basins have one or more of the following criteria:

- City-owned and maintained streets with higher rate of sediment accumulation.
- Streets within the municipality zoned as industrial with heavy truck traffic; and/or

Low Priority streets and catch basins have one or more of the following criteria:

- City-owned parking lots with no material storage or handling;
- Catch basins located within vegetated areas; and/or
- City-owned and maintained streets with low sediment accumulation.

The DPW Yard and Storage Facility are classified as high priority due to the presence of stockpiles, fuel tanks, and the storage and use of other polluting materials. The City does not own or operate any major thoroughfares that would be classified a high priority.

All other City-owned streets, parking lots and catch basins are classified as low priority due to their limited potential for pollutant runoff or other environmental impacts.

### SECTION G –STREET SWEEPING PRIORITY

City owned and maintained streets have been prioritized for street sweeping. The criteria for the priority levels that include low, medium, and high are defined as follows:

Low Priority – Residential streets or parking lots within the City that have minimal sediment accumulation rates.

Medium Priority – Major roads throughout the City that have a higher rate of sediment accumulation rates in comparison to low priority residential streets.

High Priority – Areas that are of high priority have a high rate of sediment accumulation and will require more frequent sweeping. These areas are typically located in areas where sediment is easily mobilized and transported by runoff. Additionally, areas that prompt resident complaint or are subject to excessive road sediments are also considered a high priority area.

Street sweeping program activities are not implemented under the following conditions:

- Street sweeping is not conducted on County or State roads
- Sweeping activities are not conducted during wet and inclement weather
- Street sweeping activities are not conducted on private streets or parking lots

### SECTION H – SCHEDULE OF STREET SWEEPING AND CATCH BASIN INSPECTIONS

The frequency of street sweeping and catch basin inspections associated with each priority level is provided in **Table 2** below.

**Table 2**

Maintenance Activity	Priority Level – Schedule		
	High	Medium	Low
Street Sweeping	4x /year	2x /year	1x /year
Catch Basin Inspections	Monthly	1x /year	1x /permit cycle

A summary of the municipal properties and streets and their designated priority level is provided in **Table 3** below, followed by the criteria by which the specific priority levels were determined.

**Table 3**

Maintenance Activity	Priority Level – Municipal Properties		
	High	Medium	Low
Street Sweeping	DPW Parking lot DPW Storage Yard	Major Roads	All Other City-Owned Streets and Parking Lots
Catch Basin Inspections	DPW Parking Lot	Major Roads	All Other City-Owned Catch Basins

If the DPW receives a complaint, a determination of the area will be made by DPW staff to increase sweeping on a more frequent interval as well as to reclassify the area to a higher priority rating. Catch basins that prompt resident complaints or are subject to isolated instances where structures are plugged or damaged will be maintained and inspected by DPW. At that time, it will be determined if the catch basin will require maintenance on a more frequent interval and warrants a reclassification to a higher priority rating.

In the event a priority rating is changed for catch basin inspections or street sweeping, this procedure will be updated within 120 days.

### **SECTION I – CATCH BASIN INSPECTION, MAINTENANCE, AND CLEANING**

Catch basins are visually inspected during normal work activities or if a complaint is registered by a resident. A visual inspection of the structure will identify any structural defects which may include collapse, cracking, frame damage, pipe collapse, blockage, etc. and will be documented using a standardized form. Structural repairs are prioritized based on public safety concerns. During the inspection, if it is determined that the catch basin sump is 50% full of accumulated sediment and debris, it will be cleaned promptly and advanced to the next higher priority inspection level until such time that City staff may determine a lower priority is warranted based on continued maintenance. Catch basins will be serviced using a vector truck to remove solids and liquids from the structure. At no time is collected sediment and water allowed to be discharged back into the storm sewer system during the cleaning process. Catch basins that are located on private property are not inspected, cleaned, or maintained by the City.

The catch basins at the DPW Facility that are located near the material storage areas are equipped with a filter insert (or “silt sack”) to prevent sediment and debris from entering the storm sewer. The filter inserts are inspected for integrity and amount of sediment accumulated during the monthly routine inspection.

## **SECTION J –STREET SWEEPING METHODOLOGY**

Street sweeping activities are conducted by City of Farmington DPW staff using a 2014 Elgin Pelican sweeper according to the manufacturer’s operating instructions. Collected sediment from street sweeping activities is disposed of as described in Section H. The City also has a formal leaf collection program that generally occurs from the third week of October through the first week of December. Citizens are instructed to pile leaves away from storm drains. Leaves are collected using a mechanized vacuum, transferred to Waste Management provided 40-yard dumpsters which are then disposed of by a licensed contractor. Street sweeping program activities are not implemented under the following conditions:

- Sweeping activities are not conducted during wet and inclement weather
- Street sweeping activities are not conducted on private streets, private parking lots, and uncurbed streets

## **SECTION K – DISPOSAL OF COLLECTED MATERIAL**

Collected material from catch basin maintenance and street sweeping activities is transported to the DPW facility located at 32000 W. Nine Mile Road and deposited in a dump truck for proper disposal at a type II landfill. Any liquids associated with catch basin maintenance is conveyed into the sanitary sewer system at the sewage EQ basin at 32000 West Nine Mile Road.

## **SECTION L – OTHER STRUCTURAL STORMWATER CONTROLS**

In addition to implementing the catch basin maintenance and street sweeping programs, the City also performs inspections of open and enclosed drains that are located throughout the City.

### **J.1 Open and Enclosed Drain Inspections**

The routine procedure for open drains consists of the inspection of the inlet grates for blockages every other month, or when complaints received by the City warrant an inspection. In most cases, follow up maintenance activities involve the removal of logjams or other debris that has accumulated on the inlet grate. For enclosed drains, inspections are conducted on an emergency basis only.

The City does not have any other structural controls that are owned or maintained by the City. In the event additional structural stormwater controls are constructed, this procedure will be updated and revised to include the new controls within 120 days.

## **SECTION M – NEW APPLICANT OWNED FACILITIES**

In the event the City acquires or constructs new structural stormwater controls, the design of these structures will comply with the stormwater standards that have been established by Oakland County. Site plans will be reviewed by the City, or its consultants, to ensure the appropriate standards are met.

## SECTION N – CERTIFIED PESTICIDE APPLICATOR

The DPW department does not have a certified pesticide applicator on staff and does not apply or store pesticides or fertilizers, but utilizes the services of a licensed applicator.

## SECTION O – EMPLOYEE TRAINING

Employee training programs will be implemented to inform appropriate personnel at all levels of responsibility of safety, environmental impacts, and good housekeeping practices once per permit cycle, or as needed for new hires. The City participates in training opportunities that are made available by SEMCOG, Wayne County, and the Alliance of Rouge Communities, and others as deemed appropriate. Employee training components for the City of Farmington DPW Department includes:

Employees Trained	Training Description and Frequency
New Farmington DPW Employees Training	Upon hire, employees will: <ul style="list-style-type: none"><li>• View the Municipal Storm Water Pollution Prevention Storm Watch training video.</li><li>• Read and become familiar with the City’s SOPs.</li><li>• Participate in a job shadow program where new staff is paired with an experienced staff member for 30 days.</li></ul>
All Farmington DPW Field Employees <i>(once during permit cycle)</i>	<ul style="list-style-type: none"><li>• View the Municipal Stormwater Pollution Prevention Storm Watch training video.</li><li>• Review proper materials storage and handling.</li><li>• Review good housekeeping and pollution prevention practices.</li><li>• Review examples of illicit discharges to the storm sewer system</li><li>• Review City’s Spill Response Procedures</li></ul>
Key Staff	<ul style="list-style-type: none"><li>• Attendance of key staff to relevant training workshops by the Alliance of Rouge Communities, SEMCOG, or others, when available.</li></ul>

## SECTION P – CONTRACT REQUIREMENTS AND OVERSIGHT

The contractors hired by the City to perform municipal operations that potentially impact stormwater are required to follow appropriate pollution prevention BMPs indicated in the City’s contract language. In cases where an outside contractor is hired to perform services that could impact stormwater, the contracting company will be required to follow appropriate pollution prevention BMPs. All work performed by outside contractors are monitored by City staff through daily observation to ensure quality of work, adherence to the specified contract language, and to ensure that potential impacts to stormwater are minimized.

*Measurable Goals* – To demonstrate the effectiveness of this procedure, the following metrics will be tracked for reporting purposes.



- Number of stormwater pollution related incidents pertaining to activities or work performed by the contractor.
- Number of incidents where the City required corrective action by the contractor

These metrics will be tracked over the reporting cycle that is specified in the City's Certificate of Coverage.

## **SECTION Q – COMPLAINT PROCEDURE**

Complaints received by the public are logged into the City's computer system and then routed to the appropriate department for follow up. Investigation into complaints routed to the DPW department is conducted with 2 to 48 hours after the complaint has been received by the City. At that time, the DPW will make a determination to correct any problems, or contact the responsible parties for appropriate action.

*Measurable Goals* – To demonstrate the effectiveness of this procedure, the following metrics will be tracked for reporting purposes.

- Number of complaints routed to the DPW department for follow up.
- Number of incidents that prompted additional corrective actions by the DPW or other responsible party

These metrics will be tracked over the reporting cycle that is specified in the City's Certificate of Coverage.

## **SECTION R – PROCESS FOR REVISION**

This procedure shall be reviewed once per permit cycle by the Stormwater Manager for any updates to streamline the requirements.

**APPENDIX I**  
**Total Maximum Daily Loads (TMDL)**  
Click [here](#) for link to Collaborative TMDL