



Stormwater Management Program Plan

March 2019

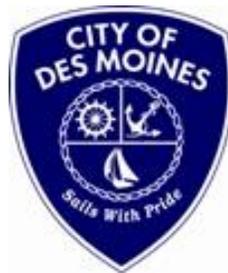


Table of Contents

Introduction	3
Section 1: SWMP Management and Administration	3
Section 2: Public Education and Outreach.....	4
Section 3: Public Involvement and Participation	5
Section 4: Illicit Discharge Detection and Elimination (IDDE).....	5
Section 5: Controlling Runoff from New Development, Redevelopment and Construction Sites.....	7
Section 6: Pollution Prevention and Operations and Maintenance for Municipal Operations	8
Section 7: Monitoring and Assessment.....	9
Section 8: Reporting Requirements	10

Introduction:

This document has been prepared to meet the City of Des Moines' Western Washington Phase II Municipal Stormwater Permit requirement for written documentation of the City's Stormwater Management Program (SWMP).

The City's SWMP is intended to reduce the discharge of pollutants from the City's Municipal Separate Storm Sewer System (MS4) to the maximum extent practicable (MEP), meet Washington State, All Known, Available and Reasonable methods of Treatment (AKART) requirements, and protect water quality. This goal will be accomplished by the inclusion of all permit SWMP components and implementation schedules into the City's existing SWMP.

Where the City is already implementing components called for in this permit, the City will continue those actions or activities to the existing extent required, regardless of the schedule called for in this document.

The City will implement an ongoing program for the gathering, tracking, maintaining and using information to evaluate the SWMP development, implementation and permit compliance and to set priorities. This document will be updated annually for submittal with the City's Annual Report to Ecology.

2019 is a transition year between the 2013 -2018 Permit and the pending 2019 – 2024 Permit. As such, this document will reflect the City's plans for ongoing compliance with the existing 2013-2018 permit. The City cannot provide plans for complying with the 2019 -2024 Permit, as it has not yet been issued by Ecology. However once the new Permit is issued in 2019, the City will begin the process of planning and making modifications to its existing SWMP with the intent of fully complying with the new permit requirements.

Planned Actions for 2019

1: SWMP Management and Administration (Section S5.A)

The City plans to fully comply with the management and administration requirements as described in Section S5.A of the Permit. These requirements include, but are not limited to:

- Develop and implement the SWMP
- Annually update the SWMP Plan
- Track costs or estimated costs for implementing the SWMP
- Track inspection, enforcement and public education activities
- Continue to implement existing programs

2: Public Education and Outreach (Section S5.C.1)

a. Education and Outreach Program (S5.C.1.a):

In 2019 the City plans to maintain the existing public education and outreach programs below:

- Distribution of educational materials through various forms of media including but not limited to the City's website (www.desmoineswa.gov), quarterly citywide newsletters, municipal code, televised council meetings, and handout materials. Educational materials include information on septic system maintenance, oil leak inspection, preservation of plants and trees adjacent to streams and wetlands, pet control and waste disposal, pesticide reduction, lawn fertilizer reduction, car washing tips, general stormwater education, volunteer opportunities, household BMPs, business BMPs, hazardous waste disposal, and many other topics.
- In 2019 the City of Des Moines is planning to again partner with the Environment Coalition of South Seattle (ECOSS) on the Puget Sound Spill Kit Program to provide selected businesses with free spill kits, training, and education on stormwater BMP's. By providing this service to the businesses the City will help build general awareness and encourage behavior change. Also, previously visited businesses will be re-visited in 2019 for post survey follow up. ECOSS will also be able to provide the City with measurable data for behavior change as survey questions will be asked during the initial and post visit.
- The City is planning to continue its Car Wash Kit Program in 2019. Community car wash events are encouraged to use a "Car Wash Kit" available to check out from the City's Public Works Department free of charge.
- In 2019 the City will pursue to continue the partnership with King County Hazardous Waste Program to visit businesses in the City that generate hazardous waste. Spill kits will be handed out as needed, information about stormwater best management practices, and hazardous waste storage and disposal.
- In 2019 the City plans to support, host, and continue the planning towards the next Highline Stormfest taking place in the spring of 2020. "This project will create and enhance the implementation of alternative stormwater education curriculum in high-risk school districts across the state. City of Burien and the StormFest Committee will organize and host two 2-day Stormwater Festivals where all 6th grade students within Highline Public Schools can participate in hands-on stormwater education and activities encouraging behavior

change that assist local municipalities within the district in meeting their NPDES permit requirements.”

- In 2019 the City will consider participating in the regional Puget Sound Starts Here TV commercial campaign for a second year. The proposed commercial campaign offers jurisdictions an easy, efficient way to participate in PSSH Month, one with measurable outcomes based on reach and impressions. The series is comprised of three commercials, each targeting a different BMP: car leaks, pet waste, and garden chemicals. These BMPs were chosen after a STORM membership survey conducted earlier this year, which found that jurisdictions were most interested in addressing these BMPs. At a minimum funding left over from 2018 will be used to run Spanish language commercials throughout May 2019.

b. Stewardship (S5.C.1.b):

The volunteer storm drain marking program will continue in 2019 and act as the primary stewardship program in the City.

The City plans to support additional stewardship events including an annual clean-up events, farmer’s market visits, and earth day events.

c. Measurement (S5.C.1.c):

In 2019 the City of Des Moines plans to use the continued partnership with ECOSS to continue the measurement and adoption of targeted behaviors on a region wide scale.

3: Public Involvement and Participation (Section S5.C.2)

a. Opportunities for Public Participation (S5.C.2.a):

The City will continue to provide opportunities for public comment/input on the SWMP Plan. The SWMP Plan will be posted to the website for comments to be submitted.

b. Availability of Documents (S5.C.2.b):

In 2019, the annual report for this permit which is due every March 31st and the SWMP Plan will be posted on the City website (www.desmoineswa.gov) no later than May 31st.

4: Illicit Discharge Detection and Elimination (IDDE) (Section S5.C.3)

a. Development of MS4 Map (S5.C.3.a):

In 2019 the City will continue its ongoing GIS mapping of the MS4. The Stormwater crews who do catchbasin inspections will continue to highlight any differences between the map and the physical asset in the field.

b. IDD&E Ordinance (S5.C.3.b):

Existing Codes will be maintained with no planned changes in 2019. The City adopted an IDDE Ordinance in compliance with the permit requirement, effective September 12, 2009. This ordinance is codified as Chapter 11.20 of the Des Moines Municipal Code.

c. Ongoing IDDE Program (S5.C.3.c):

In 2019 the City plans to maintain the existing IDDE programs below:

- IDDE Field Screening: The City has implemented a field screening methodology for illicit connections using *“Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments”*, Center for Watershed Protection, October 2004. This field screening methodology will be documented in the Annual Report. The City has developed a program to meet the field screening requirements, 40% of the MS4 was screened before the December 31st, 2017 deadline. In 2019 the City will screen at least 12% of the MS4 to meet permit compliance. The approach of dry weather field screening monitoring nodes will be used to complete the screening. In conjunction with the Poverty Bay Technical Committee efforts to reduce fecal coliforms levels in Poverty Bay, the Southern portion of the City has taken priority for field screening.
- The City encourages citizens to call the Public Works Department at 206-870-6565; police department non-emergency number at 206-878-3301 to report illicit discharges and spills. These phone numbers are publicly listed on the City website and through various other means of outreach.
- The City’s NPDES Coordinator is the lead for identification, investigation, termination, cleanup, and reporting illicit discharges, including spills, improper disposal and illicit connections. The City has provided training to staff that maintains surface water, streets, parks and recreation. Follow-up training will be provided as needed to address changes in procedures, techniques or requirements. IDDE training is currently accomplished through the EXCAL VISUAL training video *“IDDE a grate concern”*. All training records (including course information and the staff trained) will be documented and maintained.

d. Ongoing IDD&E Action Program (S5.C.3.d):

In 2019, the City will maintain the ongoing IDDE Action Program. The City is currently using IDDE procedures from the *“Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments”* to characterize the nature and environmental threat posed by illicit discharges and also to trace the source of illicit discharges. Procedures for eliminating the source of discharges are currently being developed. When the City or the investigations agency determines surface water quality pollution has occurred, a notice is sent to the property owner stating the problem be remedied within a time frame listed in our code. The cleanup and enforcement depend on severity of the spill.

e. Training (S5.C.3.e):

The City will continue to implement IDDE training as needed in 2019. Follow-up training will be provided as needed to address changes in procedures, techniques or requirements. All training records (including course information and the staff trained) will be documented and maintained.

f. Recordkeeping (S5.C.3.f):

The City will track and maintain records of the activities conducted to meet the requirements of this section. City staff will continue to evaluate and improve the IDDE program based on experience, lessons learned, and feedback from public education efforts. The Cityworks asset management program is used as the primary recording keeping platform for spill response and training efforts.

5: Controlling Runoff from New Development, Redevelopment and Construction Sites (Section S.5.C.4)

a. Ordinance (S5.C.4.a):

The City will maintain the existing program designed to reduce pollutants in stormwater runoff to the MS4 from new development, redevelopment and construction site activities. The City adopted the 2016 King County Surface Water Design Manual (KCSWDM) as the Surface Water Design Manual for the City of Des Moines: DMMC 16.10.350.

b. Permitting Process (S5.C.4.b):

The City will maintain the existing permitting process with plan review, inspection and enforcement capability to meet the standards listed in i.

through iv. in the permit under section S5.C.4.b, for both private and public projects, using qualified personnel.

c. Long-term Operation and Maintenance (S5.C.4.c):

The City will maintain the existing program to ensure inspection and maintenance of private facilities are being performed. In 2019, the City is looking to have City staff inspect private facilities in the City rather than leaving the responsibility to private property owners.

d. Availability of NOIs (S5.C.4.d):

The City's Community Development Department will continue to make available copies of the "Notice of Intent for Construction Activity" and copies of the "Notice of Intent for Industrial Activity" to representatives of proposed new development and redevelopment. The City enforces local ordinances controlling runoff from sites that are also covered by stormwater permits issued by Ecology.

e. Training (S5.C.4.e):

The existing training program per S5.C.4.e will be maintained. Inspection and maintenance for LID facilities will be added to the training schedule. Trainings will be conducted in house and by other agencies, such as the Department of Ecology and the Washington Stormwater Center.

f. Low Impact Development (S5.C.4.f):

In 2017 Low Impact Development has been made effective in the City's local development-related codes. In 2017 the City Staff began the process of amending the City's Transportation Standards Manual to incorporate LID and this process will continue into 2019.

6: Municipal Operations and Maintenance (Section S5.C5)

a. Maintenance Standards (S5.C.5.a):

Existing maintenance standards will remain established in 2019. The City has adopted the 2016 King County Surface Water Design Manual (KCSWDM) for maintenance standards for all publicly owned facilities: DMMC 16.10.350.

b. General Inspections (S5.C.5.b):

The City plans to maintain its ongoing program for annual inspection and maintenance of municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities.

c. Post-Storm Inspections (S5.C.5.c):

No changes or additions will be made the post-storm inspection program in 2019.

- d. Catch Basins and Inlet Inspections (S5.C.5.d):

The City plans to inspect half of all known catch basins and inlets owned by the City in 2019. The Catch basin inspections will no longer be conducted on a circuit basis whereby 25% of catch basins and inlets within each circuit are inspected. City crews are inspecting with I-Pads in the field and scheduling required maintenance as they inspect.
- e. Compliance (S5.C.5.e):

The City will continue to use Cityworks to track inspections associated with this section of the permit.
- f. Reduction of Stormwater Impacts (S5.C.5.f):

The City has adopted the King County Site Management Plan (SiMPla) as of February 2018. Staff will be trained on the SiMPla in 2019 to ensure bmps are known and followed.
- g. Training (S5.C.5.g):

Training under this section will continue on an as needed basis.
- h. Special Facility Requirements (S5.C.5.h):

The City's Planning, Building and Public Works Department developed and implemented a Stormwater Pollution Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the City. The SWPPP includes periodic visual observation of discharges from the facility to evaluate the effectiveness of the BMPs. A facility plan for the installation structural BMPs was finalized and added to the SWPPP in 2018.
- j. Record Keeping (S5.C.5.i):

No changes to the existing record keeping program will be made.

7: Monitoring and Assessment (Section S8)

- a. Reporting:

The City will provide any monitoring or stormwater-related studies conducted by the City during the reporting period in the annual report.
- b. Status and Trends Monitoring:

The City shall pay \$7,152 into a collective fund to implement RSMP small streams and marine nearshore status and trends monitoring in Puget Sound. The payment into the collective fund is made annually to Ecology.
- c. Effectiveness Studies:

The City shall pay \$11,916 into a collective fund to implement RSMP effectiveness studies. The payment into the collective fund is made annually.

d. Source Identification and Diagnostic Monitoring:

The City will pay into a collective fund to implement the RSMP Source Identification Information Repository (SIDIR). The payment into the collective fund in the amount of \$1,105 is made annually.

Section 8: Reporting Requirements

- a. No later than March 31st of 2019, the City will submit an annual report. The reporting period for the annual report will be from January 1, 2018 through December 31, 2018. The City will submit annual reports electronically using Ecology's WQWebDMR.
- b. The City will continue to keep all records related to the Permit and the SWMP for at least five years.
- c. The City will continue to make all records related to the Permit and the City's SWMP available to the public at reasonable times during business hours. The City will provide a copy of the most recent annual report to any individual or entity, upon request.
- d. The 2018 annual report for the City will include the following.
 1. A copy of the City's current SWMP Plan as required by S5A.2.
 2. Submittal of the annual report form as provided by Ecology pursuant to S9.A, describing the status of implementation of the requirements of the permit during the reporting period.
 3. Attachments to the annual report form including summaries, descriptions, reports, and other information as required, or as applicable, to meet the requirements of this permit during the reporting period. Refer to appendix 3 for annual report questions.
 4. If applicable, notice that the MS4 is relying on another governmental entity to satisfy any of the obligations under this permit.
 5. Certification and signature pursuant to G19D, and notification of any changes to authorization pursuant to G19.C.
 6. A notification of any annexations, incorporations or jurisdictional boundary changes resulting in an increase or decrease in the City's geographical area of permit coverage during the reporting period.