

City of  
Spokane

Engineering  
Services &  
Wastewater  
Maintenance

# Spokane Regional Stormwater Manual (SRSM)

Informational Sheet SW-1

July 2009

## Helpful Information

- The City adopted the manual in December 2008
- The manual had gone through a substantial public involvement program
- The manual provides essential information aimed at development project proponents in two key areas technical guidelines and government policies



## Background

The manual is a technical document that provides standards for stormwater management to protect water quality, natural drainage systems, and down gradient properties as urban development occurs. It is critical to have consistent stormwater standards within the Spokane area which prompted the City of Spokane, Spokane County, and the City of Spokane Valley to develop and adopt the manual.

In January 2007 the Washington State Department of Ecology issued the Eastern Washington Phase II Municipal Stormwater Permit (publication number WAR04-6505) to the City. The federal Clean Water Act produced the National Pollutant Discharge Elimination System (NPDES) permit program which then established the Phase II permit. The purpose of the permit is to protect water quality and quantity of surface waters of the state. Ecology originally developed the Stormwater Management Manual for Eastern Washington (SWMMEW) (publication # 04-10-076). The purpose of developing the SWMMEW was to provide guidance in stormwater design and management for Eastern Washington. The Phase II permit required the City, County, and Valley to adopt the SWMMEW or an equivalent manual. The City chose to adopt an equivalent manual, the Ecology approved SRSM. As a result the SRSM is supplemented by the SWMMEW.

All civil engineers, developers, planners, and the general public should be familiar with the SRSM and utilize it for all construction, new and redevelopment, projects.



## Goal of Manual:

To help communities in the Spokane region protect water quality, prevent flooding on both private and public property, and manage stormwater runoff.

## Where can I find a copy of the SRSM?

The website below is where you can get your copy of the manual.

<http://www.spokaneengineering.org/Documents/spokane%20regional%20stormwater%20manual.pdf>





# Overview of Manual

The manual has 11 chapters which identify Best Management Practices (BMPs). BMPs are designed to emulate the way natural systems would treat, detain, and infiltrate stormwater runoff before the project is constructed. Each chapter describes the respective requirements, design procedures, and criteria. The chapters are as followed:

**Chapter 1:** “Introduction”. Provides an overall objective and purpose of the SRSM.

**Chapter 2:** “Basic Requirements”. Provides information about the eight basic requirements of stormwater management for new and redevelopment.

**Chapter 3:** “Drainage Submittal”. Provides an outline for preparing the submittal.

**Chapter 4:** “Geotechnical Site Characterization”. Discusses requirements used for determining feasibility for constructing sub-level structures and stormwater disposal.

**Chapter 5:** “Hydrologic Analysis and Design”. Discusses estimating peak flow rates and volumes for sizing conveyance, treatment, and flow control facilities.

**Chapter 6:** “Water Quality Treatment Design”. Requirements for water quality treatment facilities and pollutants of concern referencing UIC and the areas “208” standards to mitigate impacts on the areas sole source aquifer. .

**Chapter 7:** “Flow Control”. Provides requirements for sizing flow control facilities.

**Chapter 8:** “Conveyance”. Discusses all natural or constructed components of storm drain systems that collect stormwater runoff and convey it away from structures.

**Chapter 9:** “Erosion and Sediment Control Design”. Provides information regarding the development of an Erosion and Sediment Control (ESC) plan. This plan is a required component for a Drainage Submittal or permit.

**Chapter 10:** “Source Control”. Provides information about preventing pollutants from entering stormwater.

**Chapter 11:** “Maintenance, Tracts, and Easements”. Provides information about maintenance of stormwater control facilities.

For more details regarding Chapters 1 through 11 review the SRSM.

Please note that while every effort is made to assure the accuracy of the information contained in this informational sheet, it is not warranted for accuracy. This informational sheet is not intended to address all aspects of regulatory requirements and should serve as a starting point for your investigation. For detailed information contact 509-625-6700.