

CHAPTER 19
NEW DEVELOPMENT AND REDEVELOPMENT PROGRAM

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19.1 INTRODUCTION

This program has been developed to comply with Part I.B.1(b) of the CDOT Municipal Separate Stormsewer (MS4) permit, Permit Number COS-000005. The Colorado Discharge Permit System (CDPS) stormwater discharge permit issued to the Colorado Department of Transportation (CDOT) requires CDOT to implement a program to reduce the discharge of pollutants from areas of new highway development and significant redevelopment after construction is complete.



Photo 19.1



Photo 19.2

Municipalities and entities such as CDOT that are currently regulated for stormwater discharge are generally referred to as being under the Phase I Permit. On or before March 10, 2003, additional municipalities will be under the Phase II Stormwater Discharge Regulations, generally referred to as the Phase II Permit. This program can apply to all CDOT projects regardless of whether they physically fall within the property limits of Phase I or Phase II.

This program incorporates best management practices (BMPs) that may evolve over time. For this reason, it is expected that the state of the art will improve and change. This program seeks to utilize current accepted BMPs but is a living document that will also evolve over time. This program should periodically be reviewed and updated as BMPs improve and evolve.

19.1.1 Permit Requirements

The overall program consists of a number of program elements that have been developed by CDOT through work groups representing the six CDOT regions that cover the State. As CDOT has projects that span the State, this program is intentionally written to be flexible so that it is applicable across the wide variety of site conditions that exist in the State.

Table 1 is a summary of the permit requirements and a brief description of the program elements that address the requirements.

Table 1 Permit Requirements	
Permit Requirements	Program Elements
Part I.B.1(b)(1) – Develop a New Development Program, define significant highway modification	This document along with the material presented in Appendix I contains the New Development Program. This program will be incorporated into CDOT's Drainage Design Manual upon approval of CDPHE. Section 2.1 includes the required definitions. Appendix II contains BMP fact sheets that also part of the program and will become part of the CDOT's Erosion Control Guide.
Part I.B.1(b)(2) – Update the Drainage Design Manual; checklist for stormwater quality incorporation; process for BMP selection	Appendix I contains a new chapter that will be incorporated into the Drainage Design Manual to address the New Development Program. Figure 3-2 contains the BMP checklist. Appendix II contains BMP fact sheets to assist designers in BMP selection.
Part I.B.1(b)(3) – Update the Erosion and Stormwater Quality Guide	Appendix II contains BMP fact sheets with design and maintenance information for permanent BMPs.
Part I.B.1(b)(4) – Identify Sensitive Waters	Section 2.2 in Appendix I discusses sensitive waters.
Part I.B.1(b)(5) – Evaluate the need for special requirements due to sensitive waters	Section 2.1 of Appendix I requires all CDOT projects as defined in that section, to include permanent BMPs. Section 4.5.1 of Appendix I discusses additional water quality protection measures that may be needed due to sensitive waters.
Part I.B.1(b)(6) – Annual Report of review of projects and summary of BMPs used	Section 3.8 of Appendix I will require the checklist be routed to regional staff to summarize and forward to HQ staff for data inclusion in the annual report.

19.1.2 Definitions

Section 2 of Appendix I lists the applicable definitions that apply to the program.

19.1.3 Project Development Process

Section 3 of Appendix I contains a brief overview of the project development process. The project development process was recently updated in CDOT's Project Development Manual dated May 2001. Form 1048a is CDOT's Project Scoping/Clearance Record. It includes a variety of checkpoints to consider during the Project Scoping process and records when items receive clearance, or approval. Section 7, check number 12 is a checkpoint for the consideration of erosion control and stormwater quality management. This program is intended to be incorporated into the development process and discussed in greater detail at this checkpoint.

19.1.4 Design Process and BMP Selection

The BMP fact sheet located in Appendix II of this program provides the planner and designer with basic application guidelines and design criteria to be able to perform preliminary selection and design of permanent BMPs. The fact sheets include information on resources that are updated periodically and provide the detailed design procedures for the BMPs. This approach was taken for two reasons. First, enough information is provided to be useful in performing planning level evaluation and understanding of the BMPs. Second, the detailed design procedures are evolving, and the designer is encouraged to research for the latest available information to design the BMP and for improvements to the design process.

