

National Pollutant Discharge Elimination System Manual

**Storm Water Management Guidelines
for Construction and Industrial Activities
Revision 2
August 2012**



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FOREWORD

This August 2012 edition of the *Storm Water Management Guidelines for Construction and Industrial Activities* is to be used as guidance for construction projects and industrial sites. The project designer should attempt to meet all criteria presented in this manual, however, this manual should not be considered a standard that must be met regardless of impacts. Designers must exercise good judgment on individual projects and frequently must be innovative in their approach to storm water management. The manual is designed to be used in all parts of the state of New Mexico, both in urban and rural areas.

This manual is the result of a collaborative effort between the New Mexico Department of Transportation, the City of Albuquerque, the Albuquerque Metropolitan Arroyo Flood Control Authority, the University of New Mexico, the Southern Sandoval County Arroyo Flood Control Authority, the City of Rio Rancho, Bernalillo County, and the New Mexico Environment Department Surface Water Quality Bureau. This manual is endorsed by the participants, and its use is encouraged for any entity that has the potential to generate storm water runoff through either construction or industrial activities with exposure to storm water.

This revision to the NPDES permitting manual was necessitated by the revisions to the MS4 individual Permit dated February 2012 and by the Construction General Permit dated March 2012. These revisions changed numerous items in the original manual. Although this manual is intended to provide guidance in meeting the current regulations, updates may be required periodically due to changes in regulatory prerogatives of state and federal agencies and other affected parties. In addition, it is vital that the users of this manual inform us of any inconsistencies, errors, or omissions so that this publication may remain current and accurate. Should anyone discover the need for corrections, please direct your concerns to the New Mexico Department of Transportation (NMDOT) Drainage Section.

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TABLE OF CONTENTS

Section	Page
FOREWORD	i
ACKNOWLEDGMENTS	ii
LIST OF FIGURES	v
LIST OF TABLES	vi
LIST OF APPENDICES	vii
ACRONYMS.....	ix
GLOSSARY OF TERMS	x
INTRODUCTION.....	1
I. CONSTRUCTION ACTIVITIES.....	3
I.A. INTRODUCTION.....	3
I.B. REGULATORY SUMMARY	3
I.B.1. NPDES Regulations	3
I.B.2. NPDES General Permit	5
I.B.3. NPDES Permitting Process	8
I.C. NOTICE OF INTENT.....	10
I.C.1. Description	10
I.C.2. Preparing an NOI.....	10
I.C.3. Where to Submit.....	15
I.C.4. Signatory Requirements	15
I.C.5. Approval Process	15
I.C.6. Small Site Waivers	16
I.C.7. Violations.....	20
I.D. SWPPP DEVELOPMENT	21
I.D.1. Description	21
I.D.2. Developing and Implementing an SWPPP for Construction Activities	22
I.D.3. Runoff Volume and Flow Rate	37
I.D.4. Sediment Control Plans	44
I.E. BEST MANAGEMENT PRACTICES FOR CONSTRUCTION	44
II. INDUSTRIAL ACTIVITIES	47
II.A. INTRODUCTION.....	47
II.B. REGULATORY SUMMARY	47
II.B.1. NPDES Regulations	47
II.B.2. NPDES Multi-Sector General Permit	49
II.B.3. NPDES Permitting Process	52
II.C. NOTICE OF INTENT.....	55
II.C.1. Description	55
II.C.2. Preparing an NOI.....	55
II.C.3. Signatory Requirements	56
II.C.4. Approval Process	60
II.C.5. Violations.....	60

II.D. SWPPP PREPARATION	61
II.D.1. Description	61
II.D.2. Development of the SWPPP	61
II.D.3. Preparing an SWPPP.....	61
II.D.4. Signatory Requirements.....	66
II.D.5. Approval Process.....	66
II.D.6. No Exposure Certification.....	66
II.D.7. Document Retention	66
II.E. BEST MANAGEMENT PRACTICES FOR INDUSTRIAL ACTIVITIES.....	69
II.F. NOTICE OF TERMINATION.....	69
II.F.1. Description	69
II.F.2. Preparing an NOT	69
II.F.3. Signatory Requirements.....	70

LIST OF FIGURES

Figure	Page
I-1 NPDES Construction Project Flowchart	9
I-2 Sample of a Completed EPA Notice of Intent (NOI) Form for Construction Activities.....	11
I-3 Isoerodent Map of New Mexico	17
I-4 Erosivity Index Zone Map of New Mexico	18
I-5 Sample of a Completed EPA Permit Information Form for Construction Activities.....	23
I-6 Outline for Developing and Implementing an SWPPP for Construction Activities.....	24
I-7 Sample of a Completed NMDOT SWPPP Inspection and Maintenance Report	30
I-8 Sample of a Completed EPA NPDES Construction Inspection Form	34
I-9 Sample of a Completed Transfer of Storm Water Management Authority Form	38
I-10 Sample of a Completed SWPPP Information Sheet	43
I-11 Sample of Completed Calculations Spreadsheet	45
II-1 NPDES-Specific Industrial Project Flowchart	53
II-2 Multi-Sector Permitting and Operation Sequence for Industrial Activities	54
II-3 Sample of a Completed EPA Notice of Intent (NOI) Form for Industrial Activities	56
II-4 Sample Site Plan	63
II-5 Outline for Developing and Implementing an SWPPP for Industrial Sites	65
II-6 Sample of a Completed EPA No Exposure Certification (NEC) Form for Industrial Activities	67
II-7 Sample of a Completed EPA Notice of Termination (NOT) Form for Industrial Activities	70

LIST OF TABLES

Table	Page
I-1 Erosivity Index for New Mexico Zones.....	19
I-2 Direct Runoff in Inches	40
I-3 Typical “C” Values for Urban Areas (Rational Method)	41
I-4 Typical “C” Values for Rural Areas (Rational Method)	41

LIST OF APPENDICES**Appendix**

- A Best Management Practices (BMPs)
 - A1 Construction Site Planning and Management
 - Dust Control
 - Protection of Trees
 - Open Space Design
 - Protection of Natural Features
 - A2 Erosion Control
 - Seeding – Temporary/Vegetation
 - Mulching
 - Surface Roughening
 - Erosion Control Mat
 - Land Imprinting
 - A3 Runoff Control
 - Diversion Channel Dike and Swale
 - Slope Drain
 - Check Dam
 - Bioretention
 - Brush Barrier
 - Detention Basin
 - Fiberschines/Biologs
 - Wood Chip Bern
 - Toe Rock
 - Outlet Structure
 - Guardrail End Treatment
 - A4 Sediment Control
 - Buffer Strip
 - Silt Fence
 - Straw Bale
 - Drop Inlet Protection
 - Culvert Protection
 - Sediment Trap – Berm/Excavated
 - Sediment Basin
 - Triangular Sediment Filter Dike
 - Compost Filter Berm
 - Straw Wattle
 - Filter Strips
 - Media Filter
 - Mechanical Devices
 - Live Wattles
 - A5 Good Housekeeping / Materials Management
 - Sanitary Facilities
 - Equipment Maintenance
 - Protected Chemical and Materials Storage Areas
 - Spill Prevention Plan
 - Protection of Trees

- Concrete Waste Management
- Solid Waste Management
- Hazardous Waste Management
- Stabilized Construction Entrance/Exit

A6 Post-Construction Phase BMPs

- Below Grade Storage
- Green Parking
- Alternative Pavers
- Street Design and Patterns
- Urban Forestry

B Forms

B1 Forms for Construction Activities

- Notice of Intent (NOI) Form and Instructions
- EPA Permit Information Form
- SWPPP Template
- Alternate SWPPP Forms
- SWPPP Information Sheet
- EPA NPDES Construction Inspection Form
- NMDOT SWPPP Inspection and Maintenance Report
- Notice of Termination (NOT) Form and Instructions
- Transfer of Storm Water Management Authority Form
- NPDES New Mexico Qualification Form

B2 Forms for Industrial Activities

- Notice of Intent (NOI) Form and Instructions
- Annual Reporting Form
- Suggested Table of Contents for an Industrial SWPPP
- No Exposure Certification (NEC) Form and Instructions
- Notice of Termination (NOT) Form and Instructions

C Guidance on Seed Selection and Seeding of Temporary Vegetation on Disturbed Areas

D NPDES General Permit for Storm Water Discharges From Construction Activities

ACRONYMS

AMAFCA	Albuquerque Metropolitan Arroyo Flood Control Authority
BMP	Best Management Practice
CFR	<i>Code of Federal Regulations</i>
CGP	Construction General Permit
CN	curve number
COA	City of Albuquerque
CWA	Clean Water Act
DMR	Discharge Monitoring Report
EPA	U.S. Environmental Protection Agency
MS4	Municipal Separate Storm Sewer System
MSGP	Multi-Sector General Permit
NEC	No Exposure Certification
NMDOT	New Mexico Department of Transportation
NMED	New Mexico Environment Department
NOAA	National Oceanic and Atmospheric Administration
NOI	Notice of Intent
NOT	Notice of Termination
NPDES	National Pollutant Discharge Elimination System
NRC	National Response Center
NRCS	Natural Resources Conservation Service
OSHA	Occupational Safety and Health Administration
RQ	reportable quantity
SCP	Sediment Control Plan
SSCAFCA	Southern Sandoval County Arroyo Flood Control Authority
SIC	Standard Industrial Classification
SWPPP	Storm Water Pollution Prevention Plan
T&E	Threatened and Endangered Species
TESCP	Temporary Erosion and Sediment Control Plan (equivalent to SCP)
TMDL	total maximum daily load
UNM	University of New Mexico
USGS	U.S. Geological Survey

GLOSSARY OF TERMS

Throughout the manual, the reader will find references to specific terms. To understand the process and goal of the storm water program, these specific terms are listed below with definitions as determined by the U.S. Environmental Protection Agency (EPA) in the draft manual *Storm Water Pollution Prevention for Construction Activities*.

Best Management Practices (BMPs) — Management measures or practices used to protect air, soil, or water quality or reduce the potential for pollution associated with storm water runoff. BMPs may be a structural device or non-structural practice, including processes, land use alternatives, activities, or physical structures.

Multi-Sector General Permit (MSGP) — An umbrella permit given to a state under which certain Standard Industrial Classification (SIC) industries may be granted a permit to discharge storm water by notifying EPA of their intent to do so, in compliance with the regulatory provisions of the General Permit.

Municipal Separate Storm Sewer System (MS4) — A conveyance or system of conveyances (including roads with drainage systems and municipal streets) that is “owned or operated by a state, city, town, borough, county, parish, district, association, or other public body. . . designed or used for collecting or conveying storm water. . .”

National Pollutant Discharge Elimination System (NPDES) — The national program for administering and regulating Sections 307, 318, 402, and 405 of the Clean Water Act. A storm water permit issued under NPDES is authorization by the EPA to discharge storm water under certain specified conditions. The NPDES General Permit provides those specified conditions for construction.

Non-Exposure Certification (NEC) — A permit exemption for certain outfalls or pollutant constituents, granted to facilities that can demonstrate no discharge or absence of particular constituents through monitoring.

Notice of Intent (NOI) — A formal notice to the EPA that, under the NPDES General Permit, a storm water discharge will take place. The NOI provides information on the permittee, location of discharge, and the type of discharge. It also certifies that the permittee will comply with certain specified conditions as outlined in the General Permit.

Notice of Termination (NOT) — A formal notice to the EPA that a specific site permitted under the NPDES Program is no longer discharging storm water.

Storm Water Pollution Prevention Plan (SWPPP) — A plan consisting of site maps, construction/contractor activities that could cause pollutants in storm water, and a description of measures or practices to control those pollutants.

Sediment Control Plan (SCP) — The formal compilation of required erosion- and sediment-control activities prepared for a specific site and project.

Temporary Erosion and Sediment Control Plan (TESCP) — Equivalent to SCP (i.e., the formal compilation of required erosion- and sediment-control activities prepared for a specific site and project).

INTRODUCTION

PURPOSE OF THIS MANUAL

This manual:

Is designed to provide guidance in the National Pollutant Discharge Elimination System (NPDES) application and permitting process consistent with the February 2012 General Permit revisions. The NPDES Storm Water Permit Program is a federal program developed under the Section 402 of the Clean Water Act (CWA). In this effort the manual will:

- Assist regulated entities in the permitting and notification process
- Assist regulated entities in understanding the importance of storm water management
- Provide the basics of planning and design for storm water management
- Assist regulated entities' coverage under the General Permit instead of under a site-specific permit
- Assist Municipal Separate Storm Sewer Systems (MS4s) with their programmatic requirements

Was developed for the New Mexico Department of Transportation (NMDOT), the Albuquerque Metropolitan Arroyo Flood Control Authority (AMAFCA), the City of Albuquerque (COA), the Southern Sandoval County Arroyo Flood Control Authority (SSCAFCA), and the University of New Mexico (UNM) to meet the requirements of the local ordinances and regulations, as well as the NPDES program. The manual is designed for general use statewide.

Provides information regarding the development of Storm Water Pollution Prevention Plans (SWPPPs), as well as application of best management practices (BMPs) for construction and industrial sites. This manual describes many BMPs in detail. The user must exercise careful consideration when selecting or modifying BMPs for a specific site. Many of the suggested BMPs are general in nature, and their applicability should be evaluated for each specific project site. The suggested BMPs should be used only as a guide, and should not substitute for good engineering judgment.

Is meant to provide basic guidance on complying with the NPDES requirements under a General Permit. Users are encouraged to check the U.S. Environmental Protection Agency (EPA) website (www.epa.gov/npdes/stormwater/cgp) for updated versions of requirements and forms. Users with complex sites, issues, or questions should consult with the regulatory agencies or an expert in NPDES requirements.

Provides guidance on coverage under a General Permit and does not address obtaining a site-specific NPDES Permit where required.

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