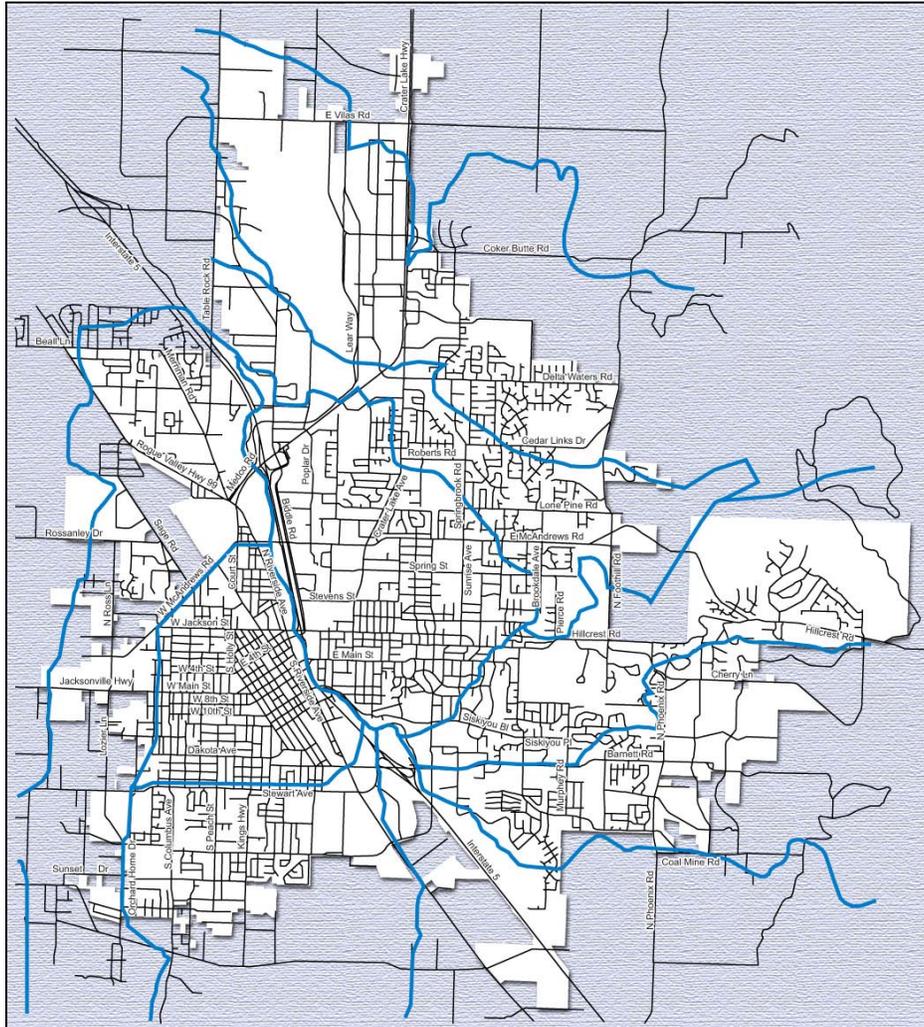




**City of Medford, Oregon
STORMWATER MANAGEMENT PROGRAM (SWMP)
TO MEET
NPDES PHASE II MS4 COMPLIANCE**



FIVE-YEAR PROGRAM FOR MARCH 2004 - 2009

MARCH 2004

City of Medford, Oregon
STORMWATER MANAGEMENT PROGRAM (SWMP)
TO MEET NPDES PHASE II MS4 COMPLIANCE
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City of Medford
411 West 8th Street
Medford, Oregon 97501

**CITY OF MEDFORD
STORM WATER MANAGEMENT PROGRAM (SWMP)
TO MEET
NPDES PHASE II MS4 COMPLIANCE**

Five Year Program, March 2004 - 2009

I, the undersigned, certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Cory Crebbin, P.E.
Public Works Director

**City of Medford, Oregon
Stormwater Management Program (SWMP)
to Meet NPDES Phase II MS4 Compliance
Five-Year Program for March 2004-2009
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CITY OF MEDFORD, OREGON

STORMWATER MANAGEMENT PROGRAM (SWMP)

1.0 INTRODUCTION

This Stormwater Management Program (SWMP) for the City of Medford, Oregon, has been developed to meet the Municipal Separate Storm Sewer System (MS4) permit requirements of the National Pollutant Discharge Elimination System (NPDES). The MS4 program for small jurisdictions is often called NPDES Phase II. The program outlined in this document was developed for a five-year period.

Although this SWMP has been developed specifically for the City of Medford, many of the efforts outlined in this program have been coordinated regionally. A Stormwater Advisory Team (SWAT) was formed in 2003 to coordinate the Phase II program within the region. The SWAT is made up of representatives from Ashland, Central Point, Jackson County, Medford, Phoenix and Talent. The municipalities involved in the regional effort hired a consultant to develop individual programs along with documenting a regional approach. The *Rogue Valley Regional NPDES Phase II Stormwater Program Guide* (February 2004) was prepared as a regional guideline for the individual jurisdiction programs. The *Regional Guide* is being submitted along with this SWMP.

The *Regional Guide* describes six minimum measures along with sample checklists, methods to measure activities, and other tools to assist the communities in meeting the Phase II requirements. The Rogue Valley Council of Governments (RVCOG) is working with the jurisdictions to facilitate public education and involvement requirements. This regional teaming arrangement is expected to continue throughout this program.

This SWMP is arranged by the six minimum measures. At the beginning of each section is a summary table listing each proposed activity associated with the measure addressed in that section. The table indicates whether the activity is scheduled to be performed regionally (working together with other jurisdictions) and whether the activity is currently being performed. A “partial” status means some of the activity has been performed, but more is planned to meet requirements. The last five columns indicate which years (during the 5-year permit period) that the activity is scheduled to be performed by the jurisdiction, working either jointly or independently, as applicable. The summary tables are followed by descriptions of schedules, measurable goals, responsible parties, and other implementation issues for each activity. Cost information is included in Appendix A.

The measurable goals proposed for each activity were established through various means. Generally, they represent what seemed reasonable for each situation, based on past experience and common practices for stormwater management. Certain activities have precedent activities, so those are scheduled accordingly. From a practical sense, not all activities can be performed in Year 1, so a conscientious attempt was made to spread them out over the 5-year permit term. Each goal and its frequency/schedule will be evaluated during the annual reporting effort.

2.0 STORMWATER PUBLIC EDUCATION PROGRAM

Medford intends to participate in a regional stormwater public education program with other members of the SWAT. This program is discussed in detail in the Regional Guide and is summarized in Table 2-1. The actual implementation of the program will be a combination of regional efforts paid for by each member of the SWAT and activities carried out at the local levels. The actual method of implementing each of the activities will be determined at future SWAT meetings..

RVCOG has implemented a program to educate the public about the regional coordination effort to prepare the 5-year program and what the NPDES Phase II program means to the community. This work included conducting open houses, a television talk show, and presentations to City Councils. The following describes these efforts that have already taken place, along with the plan for the proposed 5-year program.

BMP Activity / Description	Regional Activity?	Current Activity?	Permit Year				
			1	2	3	4	5
Stormwater Education and Outreach Strategy	Yes	Completed					
Stormwater Brochure for the General Public	Yes	Yes					
Targeted Stormwater Brochures	Yes	Partial					
Storm Drain Stenciling	No	Yes					
Water Quality Education with Schools	Yes	Partial					
Volunteer Groups on Stormwater Education	Yes	Partial					
Stormwater Speakers Bureau	Yes	Yes					
Stormwater Public Service Announcements	Optional	No					
Stormwater Display/Exhibit	Yes	Yes					
Stormwater Web Site	Yes	Partial					

 Activity scheduled for permit year
 No activity scheduled for permit year

2.1 Develop a Stormwater Education and Outreach Strategy

[Regional Guide—Section 2.3.1]

The following 5-year program is defined as the regional strategy for implementing stormwater education. The program was developed by RVCOG working closely with the members of the SWAT. The strategy will follow guidelines prepared in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*.

Schedule & Completion Date: The strategy has been developed as part of the *Regional Guide* and therefore this task is complete.

Measurable Goal: The SWAT intends to meet bi-monthly or quarterly (every two or three months) to determine the effectiveness of the program. If it is determined minor modifications to the program are required to reach a larger audience these will be outlined in the annual reporting.

Responsible Party: City of Medford—Public Works Director.

2.2 Stormwater Brochure for the General Public

[Regional Guide—Section 2.3.2]

The City plans to develop and distribute a stormwater brochure for the general public. The brochure will either be developed by the City or the City will work with other members of the SWAT to develop a regional brochure. Distribution methods for brochures will vary across the region however the City of Medford will include the homeowner brochures in one normal utility bill mailing.

Schedule & Completion Date: The development and distribution of general stormwater brochures will be facilitated regionally starting in 2004.

Measurable Goal: One general mailing in year two and year four.

Responsible Party: City of Medford—Public Works Director.

2.3 Targeted Stormwater Brochures

[Regional Guide—Section 2.3.3]

Within the first two years, RVCOG will develop a targeted brochure for erosion control (see Section 5.6). The brochure will discuss the need for erosion control along within general prevention and where more information can be obtained. The brochure will be included in all building permit application packages.

Other targeted brochures might include homeowners along creek corridors, or brochures describing new development requirements as part of this program.

Schedule & Completion Date: Develop erosion control brochure by year two. Develop second targeted brochure by year five. Targeted group to be determined by SWAT in year 3.

Measurable Goal: Erosion Control targeted brochure included in all building permits by year three.

Responsible Party: City of Medford—Public Works Director.

2.4 Storm Drain Stenciling

[Regional Guide—Section 2.3.4]

The city of Medford currently has a Storm Drain Stenciling Program. The City will supply equipment and material for volunteer organizations to stencil the words “Dump No Waste—Drains to Streams” on city storm drains. It is estimated that approximately 1/3 of the storm drain have been stenciled city wide. Some of the new developments are including storm drains with the “no dumping” message already cast on to the grate.

Schedule & Completion Date: This program will continue until all storm drains have been stenciled. City Staff will investigate the wear of the stenciling in year three and five to

determine if the storm drains will need repainting. All storm drains of new development and road improvement projects will be painted following project completion.

Measurable Goal: Measurable goal will be to monitor existing stencil for wear and to include storm drain stenciling in the City final inspection for new development.

Responsible Party: City of Medford—Public Works Director.

2.5 Promote Water Quality Education with School Districts *[Regional Guide—Section 2.3.5]*

Through the SWAT the City of Medford will coordinate and promote stormwater Education. Initial plans are to contract this effort with RVCOG, however no formal agreement has been developed at this time. The effort will include meeting with educators to determine how RVCOG Staff can provide educational instruction and material to local educators. The coordination will include working with local organizations and school districts to develop a water quality education program. The city will follow guidelines prepared in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide* for future education projects.

Details of how the regional effort will assist educators will be determined based on the initial meetings with the educators.

Schedule & Completion Date: The regional effort will start approaching school districts and educators in year three to determine the best methods to coordinate efforts.

Measurable Goal: Contact all school districts within the storm drain system boundary by the end of permit year 3. Measurable goals for the detailed education will be based on the approach chosen to assist educators. The goals and achievements will be presented in the annual reporting.

Responsible Party: City of Medford—Public Works Director.

2.6 Work with Volunteer Groups on Stormwater Education Projects *[Regional Guide—Section 2.3.6]*

Medford will work with local volunteer organizations to discuss opportunities to integrate stormwater into existing education projects. The program will follow guidelines prepared in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*.

Schedule & Completion Date: The regional effort will assist any groups seeking opportunities to help educate the general public or specific groups concerning water quality. However in year three the regional effort through the RVCOG will proactively seek groups to assist in stormwater education.

Measurable Goal: Assist any groups actively contacting the SWAT. In years three through five actively contact at least 2 volunteer organizations per year to discuss and promote stormwater education.

Responsible Party: City of Medford—Public Works Director.

2.7 Develop a Stormwater Speakers Bureau

[Regional Guide—Section 2.3.7]

RVCOG has facilitated stormwater presentations for the region. Two presentations have been given in the region over the past year and another is scheduled in the Spring of 2004. The three Open Houses are an effort to educate the public about the regional effort for developing Stormwater Management Plans to meet the NPDES Phase II requirements. The meetings were held (or will be held) at three different locations in order to reach a broad audience. Participants learned about the regional effort to develop plans for effective stormwater management, and how the resulting programs will help protect our streams and wetlands. Topics included: Impacts of stormwater, methods for managing stormwater runoff, Benefits of stormwater management, regulatory requirements, and municipal plans and programs. The Open Houses were as follows:

- Monday, November 17, 2003 from 4-7 pm Held in Ashland
20 in attendance
- Thursday, January 22, 2004 from 4-7 pm Held in Medford
25 in attendance
- The Spring 2004 Meeting date and location to be determined

RVCOG participates in a bi-monthly community television program “Regional Focus” which educates the public on local issues. On November 10, 2003 the show focused on stormwater and the regional effort for developing Stormwater Management Plans to meet the NPDES Phase II requirements. The show was recorded and repeated 8-10 times over the month. The show covered topics such as:

- The dynamics of stormwater runoff
- The importance of stormwater management
- The benefits of stormwater management
- Stormwater pollution prevention
- What the public can do if they see a problem

Schedule & Completion Date: Speakers are available from RVCOG and the SWAT participating communities. The SWAT will maintain available speakers on stormwater issues.

Measurable Goal: Keep records of any stormwater presentations and the number of attendees or number of times the program was repeated.

Responsible Party: City of Medford—Public Works Director.

2.8 Create Stormwater Public Service Announcements [Optional]

[Regional Guide—Section 2.3.8]

A public service announcement (PSA) has not been scheduled within the first 5 years of the permit. This alternative will be investigated if grant funding becomes available or if it is

found that other public education efforts are not adequate. RVCOG will investigate grant funding to broaden stormwater education including a Public Service Announcement.

Schedule & Completion Date: Not scheduled for first five years of the program.

Measurable Goal: The number of Public Service Announcements will be kept if any occur during the first five years.

Responsible Party: None at this time.

2.9 Design a Stormwater Display

[Regional Guide—Section 2.3.9]

RVCOG has developed a large assortment of stormwater exhibits and display materials to be used throughout the region. RVCOG will periodically update these materials and make them available to the SWAT participating communities and others.

Schedule & Completion Date: These items already exist and will be periodically updated as needed.

Measurable Goal: This item will not have a measurable goal. RVCOG and several of the SWAT communities already have displays and more will be created as needed.

Responsible Party: City of Medford—Public Works Director.

2.10 Create a Stormwater Web Site

[Regional Guide—Section 2.3.10]

RVCOG has begun developing a stormwater section on their website. At this time the website includes a definition of stormwater, impacts to stormwater and stormwater related links. The website is located at: http://rvcog.org/MN.asp?pg=WR_Stormwater

Schedule & Completion Date: Complete a stormwater web site section by the end of permit year 5. The site will be updated as needed.

Measurable Goal: The measurable goal is simply accomplishing the development of stormwater web site section by the end of permit year 5.

Responsible Party: City of Medford—Public Works Director.

3.0 STORMWATER PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM

Medford intends to participate in a regional stormwater public involvement and participation program with other members of the SWAT. This program is discussed in detail in the *Regional Guide* and summarized in Table 3-1. The implementation of the program will be a combination of regional efforts paid for by members of the SWAT and activities carried out at the local level. The actual method of implementing each activity will be determined at future SWAT meetings. The following describes the 5-year program.

TABLE 3-1. STORMWATER PUBLIC INVOLVEMENT AND PARTICIPATION PROGRAM							
BMP Activity / Description	Regional Activity?	Current Activity?	Permit Year				
			1	2	3	4	5
Public Review/ Public Meetings	Yes	Partial					
Distribute News Releases	Yes	Partial					
Stakeholder Advisory Panel (SWAT)	Yes	Partial					

 Activity scheduled for permit year
 No activity scheduled for permit year

3.1 Public Review/Public Meetings *[Regional Guide—Section 3.3.1]*

The City of Medford will work with the SWAT to investigate methods to encourage the involvement of the public in stormwater activities. A significant amount of public input and involvement has been included in the development of the *Regional Guide*. This effort will continue throughout the 5-year program and the SWAT is committed to working with interested individuals or groups. The program discussed in the *Regional Guide* will be developed to allow public comment on stormwater programs and projects.

Schedule & Completion Date: The regional effort for public review and public meetings started prior to the submittal of this program to the Oregon Department of Environmental Quality (DEQ). It will continue throughout the 5-year program.

Measurable Goal: Hold at least one public meeting and publish at least two public notices during each year of the 5-year program.

Responsible Party: City of Medford—Public Works Director.

3.2 Distribute News Releases *[Regional Guide—Section 3.3.2]*

RVCOG distributed a news release to advertise the Open Houses for the Regional Stormwater Planning Project. There have been articles and news stories on stormwater, but more detailed articles are expected once the plans are developed.

The local news station KDRV TV-12 interviewed members of the Stormwater Advisory Committee (SWAT) following their meeting on Friday January 23, 2004 in regard to the stormwater plans and programs being developed in the region.

Schedule & Completion Date: The distribution of news releases will be provided when the local press is available and interested in stormwater topics. No schedule for this has been developed and opportunities will depend on the news agencies' interest in stormwater activities.

Measurable Goal: At least one news release story on the jurisdictions stormwater program will be distributed to local papers each year starting in permit year 2.

Responsible Party: City of Medford—Public Works Director.

3.3 Stormwater Advisory Team (SWAT)

[Regional Guide—Section 3.3.3]

The SWAT has been developed for the region to coordinate regional stormwater programs. The SWAT is a stormwater advisory panel with staff from each jurisdiction and will solicit input on the development and implementation of the stormwater program. Input will be solicited from representatives of businesses, industries, conservation groups, residential and civic associations, and other interested stakeholders.

Schedule & Completion Date: The SWAT has already been developed and the panel will have bi-monthly or quarterly meetings to coordinate the regional effort. Input from the representatives of the community will be solicited as needed for key decisions in the future.

Measurable Goal: Dates and attendance will be kept for each meeting. A summary of topics discussed and key decisions will be kept and submitted as part of the annual report.

Responsible Party: City of Medford—Public Works Director.

4.0 ILLICIT DISCHARGE DETECTION AND ELIMINATION PROGRAM

In order to meet regulations under 40CFR122.34(b)(3) an Illicit Discharge Detection and Elimination Program will be developed for the City of Medford. The following presents the requirements for the program, how they are being achieved and the implementation schedule.

In addition to the following required best management practices (BMPs), informational brochures on illicit discharges will be created for the general public as a part of the Public Education requirements.

BMP Activity / Description	Regional Activity?	Current Activity?	Permit Year				
			1	2	3	4	5
Create a System Map	No	Partial					
Update System Map	No	Partial					
Develop & Adopt Stormwater Ordinance	No	Yes					
Illicit Discharge Plan	No	Partial					
Field Inspections	No	Partial					
Spill Response Plan (create new plans or review and update existing plans)	No	Yes					
Enforcement Plan	No	Partial					
Training for Staff	No	No					

 Activity scheduled for permit year
 No activity scheduled for permit year

4.1 Storm Sewer System Map *[Regional Guide—Section 4.3.1]*

Medford is in the process of creating a storm sewer system map. The city has over 100 miles of storm pipe, 55 miles of roadside ditches and 25 miles of creek channels.

The map is included in Appendix B.

The storm sewer system map will be updated as a part of the Illicit Discharge Detection and Elimination activities and the Post-Construction program activities. As new development is permitted the drainage system will be added to the base map.

Schedule & Completion Date: The City is currently in the process of developing a system map.

Measurable Goal: The storm sewer system map will be completed by Year 2 and updated annually thereafter.

Responsible Party: The City of Medford - Public Works Director.

4.2 Ordinance to Prohibit Non-Stormwater Discharges

[Regional Guide—Section 4.3.2]

Section 11.201 of the City of Medford's City Code currently has an ordinance for Industrial Waste pretreatment which prevents illicit discharges into the storm drainage system. Sections 11.701 through 11.721 of the Medford's City Code describe the enforcement actions that may occur if a violation occurs. Additionally, Medford recently adopted City Code 4.850 and revised section 4.900 to include discharging pollutant to the storm system.

Medford City Code Section 11.201: It is unlawful to discharge, permit the discharge, or permit or allow a connection that will result in the discharge of sewage or industrial waste into a storm drain.

Medford City Code Section 4.850: This ordinance makes it unlawful to discharge polluting elements into the stormwater system. Section 4.900 states the enforcement that can be taken if a violation occurs.

Schedule & Completion Date: An illicit discharge ordinance has already been adopted in Medford, however it may need to be updated for NPDES Phase II compliance.

Measurable Goal: Update ordinance as needed to comply with NPDES Phase II by end of Year 2. Maintain records of violations and actions taken when an illicit discharge is found.

Responsible Party: The City of Medford - Public Works Director.

4.3 Detect and Address Non-Stormwater Discharges

[Regional Guide—Section 4.3.3]

An Illicit Discharge Plan will be prepared as outlined in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*. This will include a procedure for the inspection and detection of illicit discharges. The following components will be included in the plan:

1. Identification of priority areas for assessment
2. Field assessment activities
3. Routine schedule for system inspection
4. Characterization of any discharges found
5. Procedures to trace an illicit discharge
6. Procedures to remove an illicit discharge

Currently the city does not have a proactive illicit discharge detection program. Illicit discharges are investigated as necessary; this includes when there is a complaint or if an illicit discharge is found during maintenance activities. City crews look for illicit discharge as a part of their routine maintenance. The City of Medford Currently has a video truck that is being used to develop a visual record of the sanitary pipes throughout the City. It is the City's plan to use this truck to develop a video record of storm pipes. The schedule will be to start with critical areas in year three of the program.

Medford city codes 4.850 and 4.900 provide the City with regulations to remove illicit discharges if detected.

Schedule & Completion Date: The Illicit Discharge Plan will be developed in year 3 of the 5-year program. General inspection for dry weather flow will continue until this plan is developed.

Measurable Goal: Implement the program by the end of permit year 3

Responsible Party: The City of Medford - Public Works Director.

4.4 Conduct Field Inspections

[Regional Guide—Section 4.3.4]

This activity is simply implementing the Illicit Discharge Plan developed under Section 4.3 of this submittal. The plan will develop a schedule and reporting procedures to be used when conducting these inspections. The outline of this plan can be found in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*. At a minimum each outfall shall be inspected on a 3 year rotation. Appropriate actions will be taken to determine the source of any illicit discharges found during the inspections. The city has a video truck which can be used to help trace down dry weather flows in the storm system.

Schedule & Completion Date: The Illicit Discharge Plan will be developed in year three of the 5-year program. General inspection for dry weather flow will continue until this plan is developed. Inspection and reporting along with starting a cycle to insure all outfalls are included in the inspection rotation and will start in year four following the development of the plan.

Measurable Goal: Continue current inspection process until detection plan with inspection rotation is developed. Following development of the Illicit Discharge Plan is developed begin implementing the plan.

Responsible Party: The City of Medford - Public Works Director.

4.5 Spill Response Plan

[Regional Guide—Section 4.3.5]

Medford currently has a Spill Response Plan. The plan includes cleanup of public spill and reporting to the Oregon Emergency Response System (OERS). The city has a truck dedicated to spill cleanup.

Schedule & Completion Date: Medford will continue to follow the Spill Response Plan.

Measurable Goal: Maintain records of all spill and clean up procedures.

Responsible Party: The City of Medford - Public Works Director.

4.6 Plan for Enforcement Actions

[Regional Guide—Section 4.3.6]

Enforcement action for illicit discharge violation is presented in Sections 11.701 through 11.721 of the Medford's City Code and in section 4.900.

Schedule & Completion Date: An enforcement plan has been developed and adopted in Medford.

Measurable Goal: Enforcements will be documented. All records will be reported annually.

Responsible Party: The City of Medford - Public Works Director.

4.7 Train Municipal Staff on Spill and Illicit Discharge BMPs

[Regional Guide—Section 4.3.7]

Once the above items are completed relevant municipal staff will be trained on the proper BMPs to use for spill response and illicit discharge detection and removal. The staff training will occur in combination with training for Pollution Prevention. "Refresher" training will update staff on changes to the procedures as needed.

Schedule & Completion Date: The training of staff will begin in year one with refresher courses and courses for new staff conducted annually. Selected staff will go to regional training classes and develop a program to train all staff within the City crews.

Measurable Goal: The number of staff time spent in class along with class subjects will be documented and reported annually.

Responsible Party: The City of Medford - Public Works Director.

5.0 CONSTRUCTION SITE STORMWATER RUNOFF CONTROL PROGRAM

In order to meet regulations under 40 CFR 122.34(b)(4) the City of Medford will develop, implement, and enforce a program to reduce pollutants in any stormwater runoff from construction activities. The regulations covering this activity will be part of the overall City stormwater ordinance being developed in the first year of the 5-year program. The size of the construction activity covered by the ordinance will be determined during the ordinance development. Meetings with City Council however, will cover, at a minimum, construction activity of 1-acre or larger. The following presents the requirements for the program, how they are being achieved and the implementation schedule.

TABLE 5-1.
CONSTRUCTION SITE STORMWATER RUNOFF CONTROL PROGRAM

BMP Activity / Description	Regional Activity?	Current Activity?	Permit Year					
			1	2	3	4	5	
Develop & Adopt Stormwater Ordinance	No	Partial						
Develop Regional Erosion Control Manual (or adopt state or other manual)	No	No						
Develop Expertise in Review & Inspection (Staff Training)	No	No						
Training for Contractors and Developers	Possibly	No						
Review Erosion Control Plans	No	No						
Receive Information from Public	No	No						
Inspect Construction Sites	No	No						
Information Brochures for Contractors	Yes	No						

 Activity scheduled for permit year
 No activity scheduled for permit year

5.1 Adopt an Erosion and Sediment Control Ordinance

[Regional Guide—Section 5.3.1]

Medford will develop an ordinance which will include construction site runoff for construction projects disturbing at least 1 acre. The ordinance will require that construction sites comply with erosion and sediment control requirements in any Design Manuals or Standards adopted by the City of Medford. The ordinance will be prepared as outlined in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*.

The ordinance will also address the control of dust from construction sites.

City Code 6.361, which prohibits track-out onto city streets, is the only city ordinance at this time which specifies erosion control practices.

Medford City Code Section 6.361: No person shall drive or move any vehicle that tracks or deposits mud, dirt or debris upon the surface of any street, alley, sidewalk or other public way.

Schedule & Completion Date: The stormwater ordinance is scheduled to be updated in the first year and adopted in the second year of the five year program.

Measurable Goal: Adopt Ordinance and Design Manual by the end of permit year 2

Responsible Party: The City of Medford - Public Works Director.

5.2 Train Plan Reviewers and Field Inspectors

[Regional Guide—Section 5.3.2]

Medford will train City staff responsible for reviewing plans and inspecting construction sites to ensure that erosion and sediment control BMPs are properly installed and maintained. If possible, training will be coordinated with training on post-construction stormwater management. “Refresher” training will update staff on changes to the procedures as needed. Medford may participate in a regional training program. This might include training programs by DEQ and RVCOG.

Schedule & Completion Date: Train plan reviewers and field inspector by the end of permit year 2

Measurable Goal: The number of hours spent in class along with class subjects will be documented and reported annually.

Responsible Party: City of Medford—Public Works Director.

5.3 Review Site Plans for Erosion and Sediment Controls

[Regional Guide—Section 5.3.3]

Once a stormwater ordinance is adopted for Medford, construction site plans will be reviewed to ensure they are in compliance with local ordinances and stormwater management manuals. Plans will also be reviewed to for appropriate use of erosion and sediment BMPs as well as post-construction controls.

Schedule & Completion Date: Start reviewing site plans for erosion control beginning in year 3. This will allow development of the stormwater ordinance and training of staff. Until that time the 1200-C permit process administered by DEQ will be used to review and control construction runoff in Medford.

Measurable Goal: Once this effort has started City staff will monitor the number of permit reviews, the number of on-site inspections, and the number of on-site revisions required. If enforcement is required this will also be recorded. All records will be reported annually.

Responsible Party: DEQ for first two years; City of Medford—Public Works Director beginning in Year 3.

5.4 Receive Information from Public

[Regional Guide—Section 5.3.4]

On brochures, permit applications and other publications the phone number of the City's Public Works Department will be given to allow the public to report complaints and/or comments from the general public regarding construction site runoff. These comments and follow up activities will be monitored internally by City Staff. The City's construction inspector will receive information on the complaint by the end of the day and will be responsible for following up on each complaint within 2 days. The phone number will be published in the local phone book, in stormwater brochures, and on the RVCOG stormwater website.

Schedule & Completion Date: All new Erosion Control Publications will include the phone number for complaints.

Measurable Goal: Record the number of complaints received and handled, and submit with the annual report.

Responsible Party: The City of Medford - Public Works Director.

5.5 Inspect Construction Sites

[Regional Guide—Section 5.3.5]

All construction sites which are required to submit site plans for erosion and sediment control will be inspected to ensure that the selected BMPs are installed and maintained correctly. Site plans must also reflect changes made on-site after the plans were reviewed. The frequency of inspection will be determined based on the complexity of the project and the prioritization criteria presented in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*. Each construction site shall be inspected at least once.

Schedule & Completion Date: Inspection will start in year 3 of the program.

Measurable Goal: Records of the inspections and any follow-up work will be kept and submitted annually.

Responsible Party: The City of Medford - Public Works Director.

5.6 Provide Information on Training for Construction Operators

[Regional Guide—Section 5.3.6]

A brochure on construction site erosion control and post construction controls will be prepared and distributed (see Section 2.3). This will include brief descriptions of methods, sources of information for erosion control methods including DEQ's manual and web sites. The brochure will also include information on training available for local construction operators. The training will be either by DEQ as part of their erosion control manual or lead by RVCOG and paid for by the members of the SWAT.

Schedule & Completion Date: Develop Erosion Control brochure by year 2. Schedule a class for construction operator in year four. It is assumed the DEQ training courses will be enough in year one through three.

Measurable Goal: Document the distribution of the erosion control brochure and the scheduled classes along with attendance and submit with the annual report.

Responsible Party: City of Medford—Public Works Director.

6.0 POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM

In order to meet regulations under 40 CFR 122.34(b)(5) the City of Medford is currently developing stormwater detention requirements for development within the city. The following presents the requirements for the program, how they are being achieved, and the implementation schedule.

TABLE 6-1. POST-CONSTRUCTION STORMWATER MANAGEMENT PROGRAM							
BMP Activity / Description	Regional Activity?	Current Activity?	Permit Year				
			1	2	3	4	5
Develop & Adopt Stormwater Ordinance	No	Partial					
Develop (or adopt existing) Regional Design Manual [opt. each Jurisdiction Develop Manual]	No	No					
Develop Expertise in Review & Inspection (Staff Training)	No	No					
Training for Local Engineers and Developers	Yes	No					
Review of Site Plans and Inspection for Post-Construction BMPs	No	No					

 Activity scheduled for permit year
 No activity scheduled for permit year

6.1 Ordinance Requiring Post-Construction Control

[Regional Guide—Section 6.3.1]

Medford is in the process of adopting an ordinance for post-construction control. The draft stormwater detention facilities ordinance specifies the detention facility requirements and the operations and maintenance requirements. It is proposed that the cities land and site development codes be revised to require stormwater facilities for new streets and any development creating or adding 4,000 sq. ft. of more of impervious surface. A one lot single family residential project would be exempt. Post-development discharge would be limited to that of the predevelopment rate of flow from the 10 year storm event or less, with the exception of development in the Midway and Elk Creek drainage basins, which post-development stormwater flows to a maximum discharge of 0.25 cubic feet per second (cfs) per acre of developed areas for the 10 year storm event.

Medford currently has post-construction control requirements for Elk Creek and Midway Drainage Basins, per the Comprehensive Medford Area Drainage Master Plan as adopted by the Medford City Council in 1995. These requirements state that runoff from any new commercial or industrial development within either the Elk Creek or Midway Drainage Basins, shall limit the peak runoff rates during the design storms to 0.25 cfs per acre of new or redevelopment. Medford requires an engineer registered in the State of Oregon shall prepare the design. This plan shall show the entire project site with sufficient spot elevations to determine the direction of runoff to the storm drainage system as well as elevations on the drainage system. All roof drains and foundation drains shall be connected

directly to a storm drain system. Upon completion of the project, the applicant's design engineer shall certify that the construction of the controlled stormwater release drainage system was constructed per plan.

Medford is currently working with the City of Ashland to develop Engineering Development standards, which will include requirements for post development runoff control. The City currently does not require stormwater quality treatment of developments.

Schedule & Completion Date: The stormwater ordinance covering both stormwater quality and quantity is scheduled to be prepared in the first year and adopted in the second year of the five year program.

Measurable Goal: Adopt ordinance by the end of permit year 2

Responsible Party: The City of Medford - Public Works Director.

6.2 Develop a Plan to Address Post-Construction Runoff

[Regional Guide—Section 6.3.2]

Medford will either develop a stormwater design manual or work with local jurisdictions to adopt a regional design manual for addressing stormwater issues. The manual will include construction site erosion and sediment controls as well as design guidelines for post-construction water quality BMPs and runoff quantity control.

The manual will either be newly developed or by adoption of an existing manual. Medford has agreed to work with the regional SWAT in an attempt to bring regional consistency with development standards and runoff control standards.

Training for local engineers and developers will be available regionally, or locally, depending upon how the manual is developed.

Schedule & Completion Date: Implement plan by the end of permit year three

Measurable Goal: The adoption of the ordinance by year two and design manual by year three will be the measurable goals for this activity.

Responsible Party: The City of Medford - Public Works Director.

6.3 Training for Plan Reviewers and Field Inspectors

[Regional Guide—Section 6.3.3]

Once an updated ordinance is in place, Medford will train City staff responsible for reviewing plans and inspecting construction sites to ensure that appropriate post-construction stormwater management is employed. If possible, training will be coordinated with training on erosion and sediment control BMPs. "Refresher" training will update staff on changes to the procedures as needed.

Schedule & Completion Date: The training of staff will begin in year one with refresher courses and courses for new staff conducted annually. Selected staff will go to regional training classes and develop a program to train all staff within the city crews.

Measurable Goal: The number of hours spent in training, along with subjects, will be documented and reported annually.

Responsible Party: The City of Medford - Public Works Director.

6.4 Site Plan Review for Post-Construction BMPs

[Regional Guide—Section 6.3.4]

Once the updated stormwater ordinance is adopted and design criteria or a design manual is developed, the City staff will start reviewing permit drawings for compliance with local ordinances and stormwater management manuals. Plans will also be reviewed for appropriate post-construction controls as well as erosion and sediment BMPs.

Schedule & Completion Date: Start reviewing site plans for post construction BMPs beginning in year 3. This will allow development of the stormwater ordinance and training of staff.

Measurable Goal: Once this effort has started City staff will monitor the number of plan reviews, the number of on-site inspections, and the number of on-site revisions required. If enforcement is required this will also be recorded. All records will be reported annually.

Responsible Party: The City of Medford - Public Works Director.

6.5 Inspections of Structural Post-Construction BMPs

[Regional Guide—Section 6.3.5]

The proposed post-construction detention ordinance includes requirements for operation and maintenance. An Operations and Maintenance Plan (O&M Plan) will be required prior to obtaining a building permit or approval to construction the stormwater detention facilities. Once the facility is constructed, the engineer will be required to file a construction inspection report with the city prior to final acceptance.

Schedule & Completion Date: Require that public and private development with post construction BMPs include an operations and maintenance program beginning in year 3. This will allow development of the stormwater ordinance and training of staff.

Measurable Goal: Once this effort has started, City staff will keep records of the number of BMPs installed, inspection schedules, and procedures. The city will also maintain copies of the inspection reports for each facility. If enforcement is required this will also be recorded. All records will be reported annually.

Responsible Party: The City of Medford - Public Works Director.

7.0 POLLUTION PREVENTION IN MUNICIPAL OPERATIONS PROGRAM

In order to meet regulations under 40 CFR 122.34(b)(6) the City of Medford will develop a formal operations and maintenance plan. The following presents the requirements for the plan, how they are being achieved and the implementation schedule.

Basically, most City operations already meet the requirements for NPDES, and the O&M Plan will be a documentation of existing activities with minor modifications to reduce pollutants.

TABLE 7-1.
POLLUTION PREVENTION IN MUNICIPAL OPERATIONS PROGRAM

BMP Activity / Description	Regional Activity?	Current Activity?	Permit Year				
			1	2	3	4	5
Develop O&M Plan	No	Partial					
Develop Park/Open Space O&M Guide	No	Partial					
Vehicle/Equipment Washing BMPs	No	Partial					
New Construction and Land Disturbance	No	Partial					
Dust Control BMPs	No	Yes					
Stormwater System Maintenance	No	Yes					
Open Channel/Structural BMPs	No	Partial					
Deicing BMPs (i.e. sanding and sweeping)	No	Yes					
Flood Management BMPs	No	Partial					
Training for Employees on O&M	No	Yes					

 Activity scheduled for permit year
 No activity scheduled for permit year

7.1 Operation and Maintenance Plan

[Regional Guide—Section 7.3.1]

The City of Medford will review existing Public Works O&M activities and document the activities in an Public Works Operation and Maintenance (O&M) Plan that will address municipal activities. The O&M Plan shall include the following:

- Descriptions of the required maintenance activities and procedures as it relates to existing municipal operations and programs
- A list of responsible department and personnel for each activity
- A schedule of activities, including maintenance, inspections & reports.
- Review use of herbicides and pesticide by the Public Works Department and maintain records when applied.

The following sections discuss the particular maintenance activities to be address is further detail. Practices for each maintenance activities will be prepared as outlined in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*.

Schedule & Completion Date: Prepare Public Works O&M plan in year one and implement the plan by the end of permit year 2

Measurable Goal: Plan preparation and records of Public Works use of herbicide and pesticide are the measurable goals for this activity.

Responsible Party: The City of Medford - Public Works Director.

7.2 Park and Open Space Maintenance

[Regional Guide—Section 7.3.2]

The Public Works Department will work with the City of Medford's Parks Department to implement many of the BMP's developed under activity 7.1 above. These practices include reducing and monitoring fertilizer, herbicide and pesticide application; vegetation maintenance and disposal; and trash management.

Schedule & Completion Date: Schedule a meeting with the Parks Department in year 2 to discuss existing Parks Department activities and potential modifications to park activities.

Measurable Goal: No measurable goals for this activity.

Responsible Party: The City of Medford - Public Works Director.

7.3 Vehicle and Equipment Washing

[Regional Guide—Section 7.3.3]

Medford will implement vehicle and equipment washing practices as developed in the O&M Plan. All publicly owned vehicles shall be washed in a self contained covered building or a designated wash area that meets the required criteria as presented in the *Rogue Valley Regional NPDES Phase II Stormwater Program Guide*. Medford is scheduled to construct a vehicle and equipment washing facility during 2004.

Schedule & Completion Date: Medford is scheduled to construct a vehicle and equipment washing facility in 2004.

Measurable Goal: Complete construction by the end of 2004.

Responsible Party: The City of Medford - Public Works Director.

7.4 New Construction and Land Disturbances

[Regional Guide—Section 7.3.4]

Medford currently requires that BMPs are followed for public construction projects. This practice will continue once the O&M Plan is developed. Public construction projects will be required to follow same requirements and procedures as private development. Construction will be required to following local ordinances and stormwater management manuals.

Schedule & Completion Date: Medford will continue to review public construction projects for erosion and sediment control.

Measurable Goal: City staff will monitor the number of plan reviews, the number of on-site inspections, and the number of on-site revisions required. All records will be reported annually.

Responsible Party: The City of Medford - Public Works Director.

7.5 Dust Control Practices

[Regional Guide—Section 7.3.5]

Erosion control and dust control is currently required for all public construction projects as part of the bid documents and specifications. Ordinances to include all private construction projects will be developed under Section 5.1.

Schedule & Completion Date: Implement practices by the end of permit year 3.

Measurable Goal: No separate measurable goal for this activity.

Responsible Party: The City of Medford - Public Works Director.

7.6 Stormwater System Maintenance

[Regional Guide—Section 7.3.6]

Medford will continue to implement their existing stormwater system maintenance schedule. The program will be document in the O&M Plan. The following summarizes the existing activities and schedule for maintenance performed on the storm drain system in Medford:

- Storm Line Cleaning—5 year rotation
- Culverts—5 year rotation
- Drainage Ditches—as needed, some cleaned each year
- Creeks—annual vegetation maintenance & debris removal (8 miles/year)
- Inlets—5 year rotation and as needed
- Trash racks—weekly in winter
- Manholes—5 year rotation

Schedule & Completion Date: Medford will continue current storm drain system maintenance activities.

Measurable Goal: Maintain records of storm drain system cleaning and maintenance activities and submit in annual report. Waste disposal operations will be included in the records.

Responsible Party: The City of Medford - Public Works Director.

7.7 Open Channels and Structural Stormwater Controls

[Regional Guide—Section 7.3.6.1]

Medford will implement open channel and structural stormwater control maintenance as developed in the O&M Plan. Open channel and structural stormwater controls will be inspected and maintained regularly. Waste from the stormwater controls will be disposed of properly, and records of cleaning and maintenance will be kept.

Medford currently conducts annual vegetation maintenance and debris removal in the creek.

Schedule & Completion Date: Implement practices by the end of permit year 3

Measurable Goal: Maintain records of maintenance activities and submit in annual report.

Responsible Party: The City of Medford - Public Works Director.

7.8 Road, Highway and Parking Lot Maintenance

[Regional Guide—Section 7.3.6.2]

The City of Medford's Road Department currently follows pollution prevention/good housekeeping practices with their sanding and street sweeping. Once the O&M Plan is adopted, the Road Department will continue to following practices developed in the Plan for snow removal.

Medford contracts to the Oregon Department of Transportation (ODOT) for deicing activities, deicing only occurs on overpasses. All sanding materials are kept in a concrete bin specifically for that purpose.

The city conducts street sweeping on all curb and gutter streets every 3-4 weeks with a regenerative type street sweeper. Streets are also swept after streets are sanded and the gravel is no longer needed on the roads.

Schedule & Completion Date: Medford will continue to follow these procedures once the O&M Plan is adopted.

Measurable Goal: Maintain records of maintenance activities and submit in annual report.

Responsible Party: The City of Medford - Public Works Director.

7.9 Flood Management Projects

[Regional Guide—Section 7.3.6.3]

Medford will implement flood management project evaluation and review procedures as developed in the O&M Plan. All new flood management projects will include water quality considerations. Priority existing flood management projects will be identified and re-evaluated with water quality considerations.

A Stormwater Management Plan is currently being prepared for Medford. This document will include an evaluation of the CIP plan presented in the September 1996 *Comprehensive Medford Area Drainage Master Plan*. The plan included recommendations for flood management projects that include water quality considerations.

Schedule & Completion Date: The Stormwater Management Plan will be completed and adopted in permit year 1.

Measurable Goal: Implement the Stormwater Management Plan once it is adopted.

Responsible Party: The City of Medford - Public Works Director.

7.10 Employee Training on O&M Implementation

[Regional Guide—Section 7.3.7]

Once the above items are completed, relevant municipal city staff will be trained on operation and maintenance procedures as described in the O&M Manual. The staff training will occur in combination with training for Illicit Discharge and spill plan. Training will be general for all municipal employees and more specific training will be included for specific program areas. “Refresher” training will update staff on changes to the procedures as needed.

An erosion control training was held for storm and sewer crews in the Fall of 2003.

Schedule & Completion Date: The training of staff will begin in year three with refresher courses and courses for new staff conducted annually.

Measurable Goal: The number of hours spent in training, along with subjects, will be documented and reported annually.

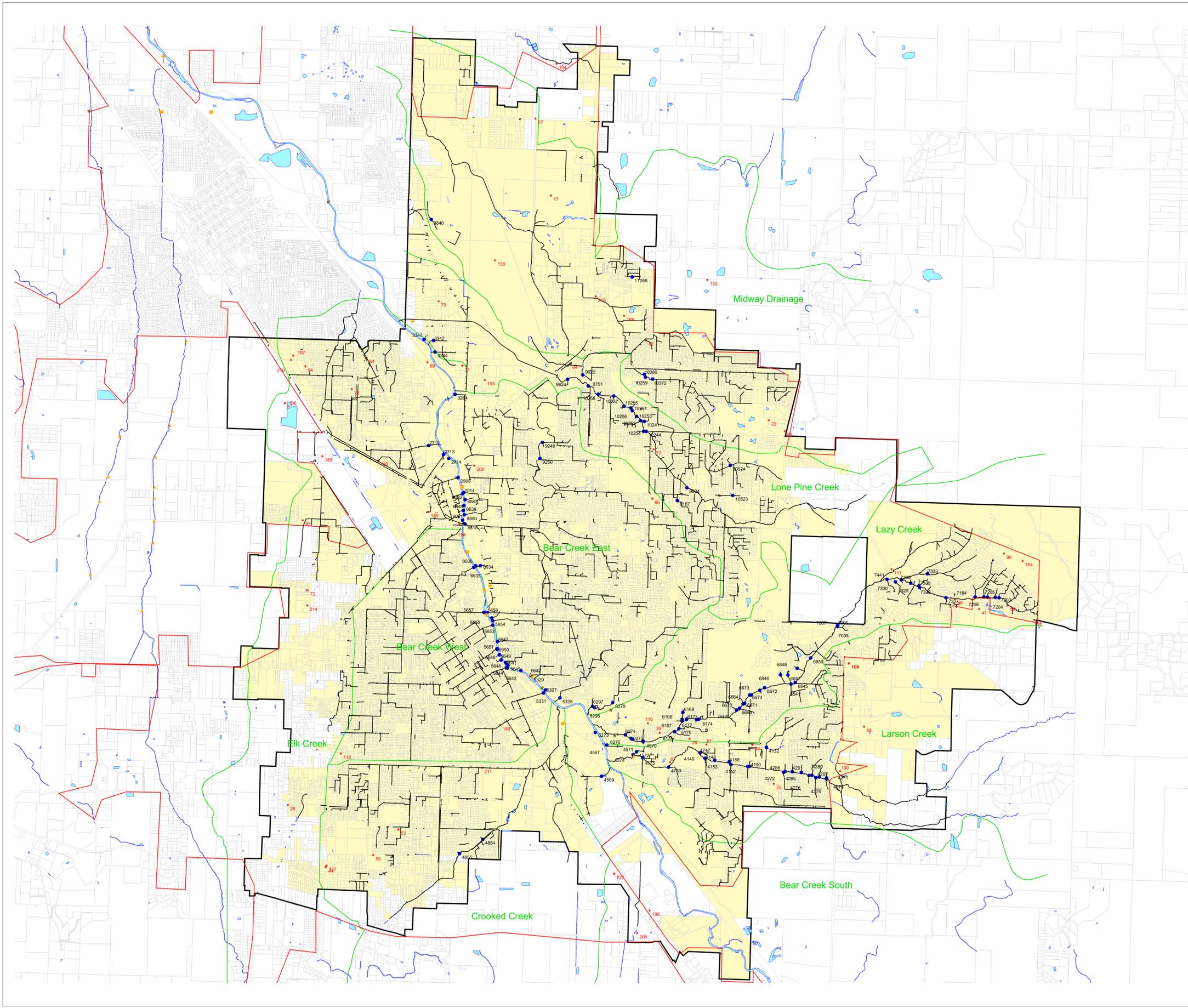
Responsible Party: The City of Medford - Public Works Director.

8.0 EVALUATION AND ASSESSMENT

In preparation for the annual reporting requirements the City of Medford will document program implementation and progress. The Measurable Goals listed in this Program are initial goals. The city is working towards meeting those requirements for the Phase II permit that are not currently being implemented. The Measurable Goals in this Program reflect the implementation schedule of each of the BMPs. Once the BMP has been implemented the city will revise the Measurable Goal for that requirement to track the progress of implementation, effectiveness or environmental improvement as appropriate.

APPENDIX A.
STORM SEWER SYSTEM MAP

City of Medford, Oregon Stormwater Management Program (SWMP)
to Meet NPDES Phase II MS4 Compliance
Five-Year Program for March 2004 - 2009
March 2004



Identification	Diameter	Outfall Locations			Diameter	Easting	Northing
		Easting	Northing	Identification			
2014	92	4279125.00	256315.02	6276	6	4285426.10	248792.84
2712	30	4277895.04	258300.41	6276	6	4285379.24	248792.82
2713	30	4278308.33	257993.38	6279	36	4285559.44	247361.43
2714	4	4278532.75	257677.04	6296	36	4284838.83	247146.37
2805	64	4278832.89	257010.86	6297	12	4284721.29	247295.71
3264	24	4278806.10	246871.05	6541	24	4283261.11	248157.14
3342	36	4277895.04	258378.38	6664	12	4281468.21	248202.03
3343	24	4277470.09	262926.81	6668	12	4280916.41	247014.54
3840	27	4277894.34	262387.56	6669	18	4281052.10	247122.96
4130	24	4282022.64	244447.76	6671	24	4281272.22	247336.82
4140	18	4282022.64	244877.76	6672	12	4281241.61	247332.30
4139	12	4281955.40	244877.77	6673	15	4281914.12	247889.45
4148	6	4281499.53	244877.76	6674	12	4281649.53	247889.45
4151	12	4281395.79	244822.29	6645	24	4281546.90	248222.48
4152	36	4280699.88	244825.51	6846	12	4282011.20	248556.50
4153	12	4280977.13	244892.71	6847	12	4283116.49	248546.56
4158	42	4280674.82	244711.40	6848	12	4283532.20	248330.59
4270	12	4280974.82	244891.82	6969	6	4283146.49	248376.51
4271	15	4284932.84	244134.51	7005	15	4283524.07	250322.67
4272	24	4282952.77	244377.74	7006	12	4283226.11	250390.16
4273	15	4284832.22	244327.72	7007	72	4283203.02	250309.73
4278	15	4284327.01	244145.25	7184	12	4301187.79	251892.51
4285	12	4283317.14	244403.55	7203	15	4302248.63	251857.77
4286	24	4283008.17	244415.85	7204	6	4302054.83	251872.09
4287	12	4284476.63	244178.46	7205	12	4301272.13	251880.51
4289	12	4284165.70	244246.96	7206	36	4301656.84	251892.15
4291	12	4283979.44	244369.93	7329	6	4283413.69	252495.89
4597	18	4286337.23	245453.53	7330	15	4287788.73	252540.35
4599	60	4286105.19	244208.81	7333	4	42869136.20	253881.47
4670	12	4286888.44	245894.17	7336	12	4286811.89	25327.94
4671	18	4286888.55	245714.81	7337	12	4286828.22	251859.79
4672	24	4286612.31	245295.40	7338	12	4286761.38	252366.34
4673	12	4286612.31	245306.55	7339	12	4286801.63	252291.85
4674	24	4286459.01	245132.02	7441	15	4287376.22	252346.86
4738	18	4286781.28	244897.03	8187	30	4286811.48	252328.37
4747	30	4286345.84	245212.52	8634	48	4278885.59	253228.95
4854	17	4278990.43	241915.95	8636	18	4278666.81	253279.91
4855	12	4278900.16	242894.34	8637	48	4278762.81	253279.91
5325	24	4283815.24	247562.86	8815	36	4283531.08	255017.00
5329	24	4283815.24	247562.86	8816	18	4283531.08	255017.00
5329	24	4282080.02	248489.09	8849	27	4279160.91	255592.26
5331	30	4282611.26	247777.38	8880	18	4279202.02	254034.54
5642	12	4281635.65	248740.21	8927	18	4279202.02	255265.54
5643	12	4281955.81	248842.02	9081	12	4279129.57	256196.56
5644	42	4281817.03	248897.02	9082	24	4279129.57	256196.56
5645	12	4281079.50	248955.05	9049	15	4282570.55	258911.04
5646	6	4280392.55	249025.32	9250	48	4282458.14	259235.40
5647	24	4280392.55	249025.32	9251	36	4281652.02	260994.46
5648	18	4280785.42	249190.07	9522	73	4284343.52	261404.46
5649	24	4280785.42	249190.07	9524	unknown	unknown	unknown
5650	24	4280619.88	249338.25	9534	12	4288992.99	268570.75
5651	24	4280306.25	249872.62	10241	12	4286891.90	269411.53
5652	18	4280306.25	249884.71	10244	21	4287028.60	269887.09
5653	30	4280426.81	250884.44	10551	15	4286378.36	269887.09
5654	48	4280427.09	250874.22	10552	12	4286782.65	269446.95
5655	24	4281981.94	250987.22	10763	17	4286818.14	268404.81
5656	18	4281981.94	251215.70	10764	15	4286818.14	268404.81
5657	30	4282022.64	251221.10	10765	80	4286818.14	268404.81
6187	6	4286873.20	246879.20	10766	15	4286434.14	268404.81
6188	12	4286873.20	246842.45	10767	15	4286807.62	268404.81
6189	24	4286806.65	246844.12	10768	48	4284854.73	268404.81
6174	12	4286815.24	248336.16	10769	48	4281611.22	261338.85
6175	15	4286825.83	248117.08	10772	72	4281731.36	261225.62
6176	30	4286843.72	248023.43	10523	12	4280785.42	265227.66
6177	12	4286873.20	246850.32	10524	12	4280661.59	267526.11
6273	18	4286815.24	248332.32	11069	18	4285426.10	268992.40
6274	18	4286122.54	248985.86				

Identifiers	Permit Number	Latitude	Longitude	Permit Type
3	BOISE CASCADE CORPORATION	43.36	-122.90	NPDES-IND
17	BEAR CREEK CORPORATION	43.30	-122.86	GEN IND
18	SOUTHERN BEAR VALLEY SALES, INC.	43.30	-122.86	GEN IND
124	MEDFORD READY MIX, INC.	43.37	-122.85	GEN IND0A
127	ALSTON T & D, INC.	43.33	-122.89	GEN IND02
129	BEAR CREEK CORPORATION	43.30	-122.85	GEN IND02
138	BOISE CASCADE CORPORATION	43.36	-122.90	GEN IND02
146	DARCOLL, INC.	43.34	-122.88	GEN IND02
152	FARWEST STEEL CORPORATION	43.37	-122.84	GEN IND02
153	FEDERAL EXPRESS CORPORATION	43.36	-122.87	GEN IND02
156	JACKSON COUNTY	43.37	-122.87	GEN IND02
162	MEDIE EMPLOYER OF SERRAVALLE	43.35	-122.89	GEN IND02
184	ROGUE WASTE SYSTEMS, INC.	43.40	-122.86	GEN IND02
188	DAWSON COMPANY	43.32	-122.87	GEN IND02
192	SOUTH STAGE LANDFILL, INC.	43.30	-122.96	GEN IND02
195	SPACELIC	43.35	-122.90	GEN IND02
194	TIMBER PRODUCTS CO. LIMITED PA	43.34	-122.88	GEN IND02
196	TUCKER SAND-CAT CORPORATION	43.30	-122.84	GEN IND02
255	ULTRAVUL COMPANY	43.29	-122.89	GEN IND02
206	GRATER LAKE MOTORS, INC.	43.36	-122.80	GEN IND0A
218	GAS-LESS SERVICE STATION	43.36	-122.87	GEN IND0A
211	POWELL DISTRIBUTING COMPANY I	43.36	-122.90	GEN IND0A
11	ROGUE VALLEY OIL CO.	43.31	-122.87	GEN IND0A

Legend

- Water Bodies
- Streets
- Water Quality Monitoring Locations
 - Routine sites
 - Storm Drain sites
 - TMDL sites
 - Agriculture Sites
- Stormdrain Lines
- Phase II Jurisdictional Boundary
- NPDES Permit Sites
 - Taxlots
 - Storm System Outfalls
- City Boundary
- UGB
- Basin Divides

1000 0 1000 2000 3000 Feet

**City of Medford
Storm System Mapping**