

# Stormwater Management Program (SWMP)

October 15, 2010



**City of Nampa**  
**Public Works/Stormwater Division**

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*Created by jenkinsc 8/19/2010*

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# Introduction

## ***NPDES Municipal Stormwater Permit Background***

As required by the EPA 1999 Stormwater Phase II Final Rule, the City of Nampa applied for NPDES permit coverage for stormwater discharges in February 2003. The United States Environmental Protection Agency (USEPA) issued the City of Nampa a Phase II Municipal Separate Storm Sewer System (MS4) National Pollution Discharge Elimination System (NPDES) permit (IDS-028126) effective October 15, 2009. This permit expires midnight October 14, 2014 and the City must apply for reissuance on or before April 18, 2014. The permit is available to be viewed on-line at EPA's Region 10 website: (Replace with City of Nampa Stormwater Website when available)

<http://yosemite.epa.gov/R10/WATER.NSF/NPDES+Permits/MS4+requirements+-+Region+10>

This permit authorizes the City to discharge stormwater to waters of the United States from all portions of the MS4 located within the Nampa Urbanized Area that are owned or operated by the City of Nampa. Also authorized is the discharge of flows categorized as allowable non-stormwater discharges meeting requirements of the permit.

## ***Stormwater Management Program Objectives***

According to the Stormwater Phase II Rule, small MS4 owners/operators must reduce pollutants in stormwater to the maximum extent practicable (MEP) to protect water quality. The regulations specify that compliance with the MEP requirement can be attained by developing a stormwater management plan (SWMP) that addresses the six minimum control measures described in detail. Properly managed stormwater can help to minimize or avoid problems with erosion, flooding, and damage to natural drainage features such as streams and wetlands as well as protect and provide wildlife habitat in these natural features. Nampa's SWMP strives to reduce or eliminate pollutants to local water bodies to the MEP as well as enhance and protect existing wildlife habitat valued by the citizens of Nampa.

A key component of the SWMP is to select measurable goals to evaluate the effectiveness of individual control measures and the SWMP as a whole. Measurable goals allow the City and permitting authorities to assess the effectiveness of stormwater controls (known as best management practices or BMPs). These BMPs and measurable goals are a key component of Nampa's SWMP. In addition, conducting an annual review and performing a comprehensive self-audit will assist Stormwater staff in gaining a better understanding of the effectiveness and compliance status of Nampa's SWMP.

Currently a number of existing programs within the City's operational structure assist in the protection of water quality. Utilizing existing programs, ordinances, zoning rules and site plan review processes will help ensure that water quality concerns are addressed in

new development and redevelopment. An enhanced “Natural Resources” section in the update of the City’s Comprehensive Plan will help prevent or mitigate the impacts of stormwater throughout the local watershed. Incorporating existing programs into the SWMP will strengthen the existing programs and enhance the new efforts to protect water quality by regulating stormwater discharges.

The development and implementation of an effective SWMP ultimately depends on adequate resources being made available for personnel and equipment. After determining five (5) year program costs, Stormwater staff presented funding options to Nampa’s Stormwater Advisory Group (SWAG). The creation of a stormwater utility fee was the recommendation of the SWAG to fund stormwater program costs associated with MS4 permit compliance. A number of recommendations were made by the SWAG in regards to the formation of a stormwater utility which include the formation of an oversight committee to review program expenditures and provide input into program components. Nampa City Council approved the formation of a stormwater/drainage utility on October 4, 2010. Stormwater staff is currently in the process of evaluating nonresidential properties within city limits for impervious surface.

Public involvement and input provided by the SWAG has been an essential element in the development of Nampa’s SWMP. Input from this group was gathered at the SWAG meetings through verbal and written comments and compiled to determine what the group values as water quality objectives in the community. The City values the input from the SWAG as well as the general public and feels that citizens will embrace the program more readily knowing they had the opportunity to provide input into the program.

## ***Nampa’s Stormwater Division***

Nampa’s Stormwater Management Program is administered by the Stormwater Division under the department of Public Works. City Council created the Stormwater Division on October 7, 2009 in response to EPA issuing Nampa an approved MS4 permit effective October 15, 2009. Appendix C shows the organizational chart outlining the responsible parties involved in the implementation of the SWMP.

The Stormwater Program Manager is given the authority of day to day control in administering Nampa’s MS4 permit under the supervision of the Public Works Director. Development and implementation of the SWMP, creating an adequate budget and communicating with other city departments also fall under the responsibilities assigned to the Stormwater Division. Two additional staff members include an Erosion Control Coordinator and a Stormwater Inspector. Additional staff will be added as the SWMP components require the need for increased manpower to meet permit requirements. Stormwater staff will strive to utilize all resources available to them prior to the addition of staff members.

Currently the Stormwater Division is striving to meet year one MS4 permit requirements and looking ahead to subsequent years to lay the foundation for a solid and well planned

SWMP. Being proactive, Nampa has embraced the Phase II Stormwater requirements and has accomplished or is currently working on the following tasks:

- Established an effective Erosion and Sediment Control Program
- Spearhead the formation of the Canyon County Stakeholders Group
- Conduct an inventory of the numerous outfalls discharging to Nampa's receiving waters
- Participate in stormwater related events hosted by a neighboring municipality
- Created a citizen Stormwater Advisory Group to seek input on developing Nampa's SWMP and funding opportunities
- Work with various City departments to address stormwater issues
- Provide training to City officials, municipal employees and citizen groups
- Initiated the idea of forming a group of representatives from various entities facing common stormwater challenges

Nampa recognizes the importance of developing an effective, efficient and well planned SWMP and is working towards gaining the confidence and support of the community. A team of consultants, legal staff and municipal employees are helping to provide a solid framework on which to build this important program.

### ***Stormwater Management Mission and Priorities***

The City of Nampa considers itself to be proactive in addressing the Phase II Stormwater requirements in the Treasure Valley. Nampa spearheaded the formation of the Canyon County Stakeholder Group to discuss stormwater issues common to all permit holders, explore ways to share resources, provide support and assistance and attempt to establish consistent, area wide expectations for the management of municipal stormwater. Other activities include formation of a program to regulate stormwater runoff from construction and other land disturbing activities during a period of tremendous growth in Nampa.

To achieve overall stormwater program objectives, Nampa will employ a variety of strategies and implement control measures designed to prevent or reduce the release of pollutants in stormwater runoff. For each control measure, performance standards or measureable goals are established and are used to quantify the progress of the program element. An effective assessment will be implemented on each program component to determine whether the intended outcome is achieved for each parameter.

In response to receiving the approved Phase II MS4 permit, the City of Nampa created the Stormwater Division under the Department of Public Works to directly oversee the development and implementation of the Stormwater Management Program. This division will provide consistent, appropriate and timely direction to other city departments to ensure proper compliance with the requirements of Nampa's MS4 permit.

The Mission Statement and core values for the City of Nampa are as follows:

*“The City of Nampa will deliver inspired and progressive public services to enhance the quality of life for its diverse community by upholding the public trust with integrity, while embracing family values, rich cultural traditions, and community partners.”*

#### *Core Values*

1. *Guard the public trust*
2. *Practice integrity and accountability at all times*
3. *Develop community partnerships*
4. *Courtesy and respect for all*

These widely accepted values are incorporated into every department and division in the City and fit appropriately with the goals and visions of the Stormwater Management Program. Each Stormwater Program component will be developed with these core values and mission statement in mind.

The strategic goals listed will help guide and focus the SWMP to achieve the core values that the City strives to accomplish at every level of customer service:

- To provide protection of human health and the environment throughout the entire city
- The efficient and effective management of Nampa’s surface water quality and provide the protection of the public’s investment in its stormwater infrastructure
- A municipal workforce well trained in best management practices related to the protection of water quality
- Keeping the public informed of all relevant stormwater documents, providing opportunities for public involvement and receive public input on the implementation of the SWMP

## ***Stormwater Management Program Components***

Nampa’s Stormwater Management Program (SWMP) is divided into twelve (12) different components as outlined in MS4 permit IDS-028126 section II A-F. The SWMP components are summarized here:

### **1. Legal Authority**

The City must have the legal authority to control discharges to and from the municipal separate storm sewer system (MS4) owned by the city. Title 8 Chapter 4 “*Storm Drainage*” ordinance provides this authority.

## **2. General Requirements**

Nampa must develop, implement and enforce a SWMP designed to reduce the discharge of pollutants from the MS4 to the Maximum Extent Practicable (MEP) and to protect water quality in receiving waters. This must be accomplished through Best Management Practices (BMPs), system design, engineering methods and other minimum control measures outlined by the permit.

Implementation of one or more of the minimum control measures may be shared with or delegated to another entity.

## **3. Public Education and Outreach**

Educational programs need to provide information to elected officials, advisory groups, municipal employees, citizens, business owners and industrial representatives. The educational program will be designed to achieve a better understanding of the potential impacts of stormwater runoff on water quality.

## **4. Public Involvement/Participation**

The City must have a process to provide opportunities for the public to be involved in the development and implementation of the SWMP. A city hosted Stormwater website will post information regarding input and involvement opportunities.

## **5. Illicit Discharge Detection and Elimination**

Develop and implement a program to detect and prevent illicit discharges to the City's MS4. This program will include completing the existing comprehensive storm sewer system map, identifying and removing illicit connections, developing a spill response plan, prioritizing outfalls for dry weather screening and train municipal staff on illicit discharges.

## **6. Construction Site Stormwater Runoff Control**

Update existing Erosion and Sediment Control (ESC) Program that eliminates or reduces pollutants from stormwater runoff from construction activities to ensure compliance with permit requirements. Additional public education, inspection requirements and complaint processing procedures will be added to the current program.

## **7. Post-Construction Stormwater Management in New Development and Redevelopment**

Develop and implement a program to address post-construction stormwater runoff from new development and redevelopment projects. This program will include proper operation and maintenance of BMPs, site plan review process and additional public educational requirements.

## **8. Pollution Prevention and Good Housekeeping for Municipal Operations**

Develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations. This program must address municipal activities occurring within the permit area with potential for

negative stormwater related water quality impacts. Appropriate training for municipal employees must be implemented and development of stormwater pollution prevention plans (SWPPP) for various city departments.

**9. Discharges to Water Quality-Impaired Receiving Waters**

The City must conduct stormwater discharge monitoring as outlined in the permit to determine whether stormwater discharges contribute pollutants of concern to any impaired 303(d) listed water bodies. The Annual Report must include a description of how the required permit activities target pollutants of concern and ensure to the MEP that the MS4 discharges will not cause or contribute to an excursion above the applicable Idaho water quality standard.

**10. Reviewing and Updating the SWMP**

The City must annually review and update the SWMP actions and activities as part of the preparation of the required Annual Report. Request for changes in the SWMP may be presented in the proper outlined procedures. Documentation for any of the required actions and activities will be submitted to the EPA upon request.

**11. Transfer of Ownership, Operational Authority, or Responsibility for SWMP Implementation**

The City must implement the actions and activities of the SWMP in all new areas added or transferred no later than one year from the date of annexation. These new areas must be documented in the next Annual Report.

**12. SWMP Resources**

The City must provide adequate finances, staff, equipment and other support capabilities to implement the SWMP actions and activities required by the permit.



# Section I Applicability

## I.A Permit Area

Nampa's Phase II MS4 NPDES permit #IDS-028126 covers all areas within the Nampa Urbanized Area served by the MS4 owned and operated by the City. The boundaries of the Nampa Urbanized Area are defined by the Year 2000 Decennial Census.

## I.B Discharges Authorized Under this Permit

During the effective dates of this permit, Nampa is authorized to discharge stormwater to waters of the United States from all portions of the MS4 located within the Nampa Urbanized Area that are owned and operated by the City of Nampa, subject to the conditions set forth in the permit. The permit also authorizes the discharge of flows categorized as allowable non-stormwater discharges in Part I.C of the permit.

## I.C Limitations on Permit Coverage

Part I.C of Nampa's MS4 permit outlines authorized and non-authorized discharges from the municipal storm sewer system. Nampa recognizes and respects the limitations of stormwater discharge listed in Part I.C. Permit limitations include:

- *Section I.C.1 Non-Stormwater Discharges*
- *Section I.C.2 Discharges Threatening Water Quality*
- *Section I.C.3 Discharge Compliance with Anti-Degradation Policy*
- *Section I.C.4 Snow Disposal to Receiving Waters*
- *Section I.C.5 Stormwater Discharges Associated with Industrial and Construction Activity*

# Section II Stormwater Management Program (SWMP) Requirements

## II.A General Requirements

Nampa must develop, implement and enforce a SWMP designed to reduce the discharge of pollutants from the MS4 to the MEP and to protect water quality in receiving waters. This must be accomplished through BMPs, system design, engineering methods and other minimum control measures outlined by the permit. Measurable goals, including interim milestones must be provided for each BMP. Modifications must be made in accordance with Part II.D of the permit. Implementation of one or more of the minimum control measures may be shared with or delegated to another entity.

## II.B Minimum Control Measures

### II.B.1 Public Education and Outreach

Since there is a greater support for a Stormwater Management Program as the public gains a better understanding of the reasons why the SWMP is necessary and important, an informed and knowledgeable community is crucial to the success of Nampa's SWMP. Therefore Nampa will implement a public education program to distribute educational materials to the community and conduct outreach activities about the impacts to stormwater discharges on water bodies and the steps the public can take to reduce pollutants in stormwater runoff.

Key components of this program will include the following activities:

- Formation of an Stormwater Advisory Group composed of various stakeholders representing the citizens living and working in Nampa;
- Creation of educational materials to distribute to appropriate target audiences;
- Create and maintain a Stormwater website to make all education materials available to the public;
- Distribute press releases regarding program activities and milestones;
- Develop and implement educational programs for target audiences such as industrial and commercial businesses.
- Tailoring Outreach programs to minority and underserved community members

Educational and outreach efforts will generally target the following audiences with specific information:

- 1) General Public

- Impacts stormwater discharge can have on local water bodies and their tributaries
  - Impacts that impervious surfaces have on stormwater runoff
  - Steps that can be taken to eliminate or reduce pollutants relating to pet waste, illegal dumping, car maintenance, overwatering lawns and application of fertilizers, pesticides and herbicides.
- 2) Minority and Disadvantaged Communities
- Distribute educational materials in Spanish to Hispanic community members
  - Participate in cultural events to promote local water quality
  - Utilize traveling displays in target areas
- 3) Commercial Businesses
- Proper best management practices (BMPs) to be utilized for use and storage of chemicals, hazardous materials, vehicle and fleet maintenance and waste disposal
  - Impacts of illicit discharges and connections
- 4) Developers, Engineers and Contractors
- Approved design standards and Stormwater Policy
  - Appropriate information pertaining to the Construction General Permit (CGP) and erosion and sediment control (ESC).

## **Measurable Goals or Performance Standards**

### Formation of a Stormwater Advisory Group

- The number of meetings held and the number of members in attendance
- Copies of meeting agendas and meeting minutes
- Copies of Issue Papers and other informational materials presented
- Compile input from the group on stormwater issues
- Results of evaluation of SWAG process

### Creation of Educational Materials

- List compiled of target audiences and possible activities for each
- The number of materials created and distributed
- The number of events attended with displays
- The number of people at an event who saw the display or took a pamphlet/booklet
- The numbers of “visits” to the Stormwater website to view educational materials

### Stormwater Division Website

- Types of educational materials available on website
- List of events for public participation
- The number of “visits” to the website to view educational materials

Distribution of Press Releases

- The number of public service announcements made on radio and TV
- The number of stormwater related press releases
- The number of stormwater related articles published

Educational Programs for Target Audiences

- The number of educational materials distributed to target audiences
- The number of workshops held for target audiences
- The number attending trainings or workshops

Minority Outreach Programs

- The number of brochures/posters/displays created in Spanish
- The number of partnerships established with minority organizations
- Attendance at workshops or public meetings held in low-income or minority neighborhoods
- The number of educational materials distributed to low-income neighborhoods

**Scheduling and Responsible Parties**

Public Education and Outreach compliance date is two (2) years from permit effect date of October 15, 2009. Nampa Stormwater Division has initiated portions of the Public Education and Outreach program earlier than required to accommodate the formation of the Nampa Stormwater Advisory Group. The SWAG was thoroughly educated on Nampa’s MS4 permit six minimum measures and general requirements.

Nampa’s Stormwater Division plans to launch a city wide public education campaign in early to mid 2011. This campaign will educate the general public about Nampa’s MS4 permit and gather support for an associated Stormwater/Drainage fee to fund Stormwater Management Program costs. The following table summarizes the Public Education and Outreach requirements and compliance dates.

<b>Public Education and Outreach</b>		
<b>Permit Part</b>	<b>SWMP Component</b>	<b>Compliance Date</b>
<b>Part II.B.1</b>	Implement an ongoing public education program to educate the community about the impacts of stormwater discharges on local water bodies and the steps that citizens and businesses can take to reduce pollutants in stormwater runoff. (II.B.c)	Two years from effective date of this permit.
	Distribute stormwater educational materials to target audiences. (II.B.1.b)	Beginning two years from permit effective date, and at least once per year thereafter.
	Update information of a stormwater website. (II.B.c)	Beginning two years from permit effective date, and at least once per year thereafter.

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Public Education and Outreach minimum measure. Stormwater Division staff will work with the assistance of contracted consultants to develop and distribute stormwater and water quality educational materials to target audiences. Evaluation of this minimum measure will be performed as part of each Annual Report and changes will be made as applicable.

## **II.B.2 Public Involvement and Participation**

Public involvement in local stormwater management can provide a sense of ownership and responsibility for the health of the watershed in their community. An involved public will be more likely to support a Stormwater Management Program if provided the opportunity to participate in the development and implementation phases of the program. The City believes that the public can provide valuable input and assistance in the development of a successful SWMP. In addition, the community is a valuable intellectual resource that can provide a broader base of expertise and knowledge. The City's SWMP will include ongoing opportunities for public involvement through stewardship programs, environmental activities and public hearings and meetings. Nampa will also involve local stakeholder groups, including local governments, businesses, and citizens, in making decisions about stormwater management priorities and goals.

Key components of this program will include the following activities:

- Post all SWMP documentation and Annual Reports on the City of Nampa's Stormwater website
- Engage interested parties in the development of the SWMP
- Conduct meetings with City Council and the public regarding SWMP implementation
- Organize and promote Community Clean Up Day

### **Measurable Goals or Performance Standards**

#### Post all SWMP Information on the Stormwater Website

- Develop a Stormwater website to post SWMP information
- Maintain website on a regular basis to provide up to date information
- Post SWMP, Annual Reports and other related information
- Post public involvement opportunities such as public meetings and hearings

#### Engage Interested Parties in the Development of the SWMP

- Formation of a Nampa Stormwater Advisory Group
  - The number of meetings held and the number of members in attendance

- Copies of meeting agendas and meeting minutes
- Copies of Issue Papers and other informational materials presented
- Compile input from the group on stormwater issues
- Results of evaluation of SWAG process
- Hold public meetings to receive input on the SWMP
  - The number of meetings held and the number in attendance
  - Topic of the public meeting and any input received
- Formation of the Canyon County Stakeholders Group (comprised of representatives from 8 local MS4 permit holders)
  - The number of meetings held and the number of members in attendance
  - Copies of meeting agendas
  - Partnerships formed and activities perused

#### Conduct Meetings with City Council

- Conduct at least one meeting per year with City Council and the public regarding SWMP implementation
- Conduct Special Workshops with City Council as necessary regarding Stormwater activities

#### Organize and promote Community Clean Up Day

- The number of event participates
- The quantity of waste collected as a result of cleanup efforts
- The number of stream miles cleaned
- Water quality at the stream sites
- Map of cleanup sites

#### **Scheduling and Responsible Parties**

Public Involvement and Participation compliance dates are varied by required components. Engaging interested parties in the SWMP development has been an ongoing task with the Stormwater Division prior to permit effective date. Meetings and workshops with City Council and the public regarding SWMP implementation are scheduled as necessary when the Stormwater Division is facing a major decision making task. Preliminary planning has occurred for the Community Clean Up Day in conjunction with Public Education efforts and is scheduled to occur in the spring/early summer of 2011. A Nampa Stormwater website has been designed and is ready to be launched in early to mid 2011.

<b>Public Involvement and Participation</b>		
<b>Permit Part</b>	<b>SWMP Component</b>	<b>Compliance Date</b>
<b>Part II.B.2</b>	Post all SWMP documentation and Annual Reports on the permittee's website. (II.B.2.b)	Three years from permit effective date, ongoing thereafter
	Engage interested parties in the development of the SWMP (II.B.2.c)	Upon permit effective date, ongoing thereafter
	Conduct at least one meeting with City Council and public regarding SWMP implementation (II.B.2.d)	At least once per year
	Organize and promote Community Clean Up Day(s) (II.B.2.e)	18 months from permit effective date; at least once annually thereafter

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Public Involvement and Participation minimum control measure. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this minimum control measure. Evaluation of this minimum measure will be performed as part of each Annual Report and changes will be made as applicable.

### **II.B.3 Illicit Discharge Detection and Elimination**

Illicit discharge detection and elimination (IDDE) is an important part of the overall SWMP and is a requirement of the MS4 permit. This minimum control measure requires the MS4 operator to detect and eliminate illicit discharge from their MS4 system. An illicit discharge is any discharge to a MS4 that is not composed entirely of stormwater. There are some exceptions to this definition, such as fire fighting activities and discharges already authorized by another NPDES permit. The goal of the IDDE program is to detect, remove and prevent illicit connections, discharges, and improper disposal, including spills into the MS4 system.

Key components of this program will include the following activities:

- Stormwater collection system inventory and mapping
- Prohibition of non-stormwater discharges
- Discharge detection and elimination program
- Public education associated with illicit discharges
- Dry weather outfall screening
- Inventory of industrial discharges

Details of key components:

#### **Stormwater collection system inventory and mapping.**

The City is in the process of completing the comprehensive storm sewer system map of the stormwater drainage system. This includes all the City owned and operated storm sewers, catch basins, seepage beds and other conveyances, outfalls (including diameter,

and latitude and longitude), connection points with other systems, and all City maintenance and storage facilities. The map is in the process of being completed but a working version is provided in digital format.

An extensive inventory of outfalls located on Indian Creek, Mason Creek, Wilson Drain and associated tributaries has revealed a significant number of discharge points along these receiving waters. All discharge points were cataloged using a hand held GPS unit, photographed with a digital camera, measured and evaluated for a number of conditions. As of January 12, 2010 a total of 1,420 outfalls have been inventoried. The process of field verifying the type of discharge from the outfalls determined to be unknown will commence spring of 2011. A map of the current outfall inventory is provided.

### **Prohibition of non-stormwater discharges.**

The City currently prohibits illicit discharges in Title 8, Chapter 4 (Storm Drainage System) of Nampa City Code. Section 8-4-7: Discharge Prohibitions states: “No person shall discharge or cause to be discharged into the municipal storm drain system or watercourses any materials, including, but not limited to, pollutants or waters containing any pollutants that cause or contribute to a violation of applicable water quality standards.” Sections 8-4-14: Enforcement and 8-4-21: Penalties include the enforcement procedures and penalties associated with illicit discharge violations. A through review and update of this ordinance will be conducted by City staff to ensure proper application to meet permit requirements.

### **Discharge detection and elimination program.**

Existing programs within the City address some of the problems associated with illegal dumping. Stormwater staff will work with each department/division to consolidate these efforts and add the additional requirements set forth by Nampa’s MS4 permit. After this program is developed, Nampa will implement a program which will detect and eliminate illicit discharges and connections to the stormwater collection system. The program will include the following components:

- Procedures for response to spills
- Procedures for detection, source identification, and removal of illicit discharges and illegal connections
- Procedures for addressing illegal dumping into the stormwater system
- Training for City employees on proper response to reports of illicit discharges
- Development of a database management system to track actions related to IDDE program activities

### **Public Education Associated with Illicit Discharges.**

Informing and education the public about the hazards associated with illegal discharges is another component of Nampa’s IDDE program. This includes public employees,



business owners, and the general public. The City may implement public service announcements, press releases, educational flyers, and other methods to inform the public about the impacts of hazardous and illegal dumping. This will be an ongoing effort and tied directly to the Public Education and Outreach minimum control measure.

### **Dry weather outfall screening**

Screening of the outfalls during periods of dry weather is another important component of the IDDE program. This screening will facilitate detection of non-stormwater discharges from illegal dumping or illegal connections to the storm sewer system. By the expiration date of this permit, at least 20% of the outfalls located in the Nampa city limits of the Nampa Urbanized Area will be screened for dry weather flows. A map of the Nampa Urbanized Area as defined by EPA and the 2000 census can be found in Appendix H. Currently an estimated 284 outfalls will be screened for dry weather flow by the expiration date of this permit (October 14, 2014). Screening will include field tests of selected parameters as indicators of suspected discharge sources. Basic sample collection procedures will be followed as described in the Monitoring Plan and associated Quality Assurance Plan (QAP). Any illicit discharge will be investigated with 15 days of detection and action taken by the City to eliminate the discharge will occur within 45 days of detection.

### **Inventory of industrial discharges.**

All industrial facilities that discharge directly to the City's MS4 within the permit area will be inventoried and this information will be part of the third Annual Report submitted to EPA. This inventory will include the name and address of the facility, and the location of the outfall.

### **Measurable Goals or Performance Standards**

#### Stormwater collection system inventory and mapping

- Provide a map of all of the stormwater collection assets within city limits
- Provide details of inventory such as pipe diameter
- Update the comprehensive storm system map on a regular basis to reflect changes to the system

#### Prohibition of non-stormwater discharges

- Review and update existing policies and ordinances to reflect permit requirements
- Create new ordinances or policies to ensure proper compliance with permit requirements

#### Discharge detection and elimination program

- Number of reported spills

- Number of illicit discharges detected and eliminated
- Number of City employees attending training events
- Track trends in sources of illicit discharges

Public Education Associated with Illicit Discharges

- Number of flyers, posters, press releases or other educational tools distributed
- Track number of illicit discharges and sources to monitor program effectiveness

Dry weather outfall screening

- Track number of outfalls monitored for dry weather flows
- Evaluate parameters measured for trends in illicit discharges
- Number of outfalls discharging irrigation/agricultural flows

Inventory of industrial discharges

- Number of industrial facilities discharging directly to the MS4

**Scheduling and Responsible Parties**

Illicit discharge detection and elimination compliance dates generally fall three (3) years from the permit effective date. Program components already initiated include updating the comprehensive storm system map and adopting an ordinance prohibiting illicit discharges. Additional program components will be implemented by Stormwater staff prior to the required compliance dates.

<b><i>Illicit Discharge Detection and Elimination</i></b>		
<b><i>Permit Part</i></b>	<b><i>SWMP Component</i></b>	<b><i>Compliance Date</i></b>
<b><i>Part II.B.3</i></b>	Develop, implement and enforce a program to detect and eliminate illicit discharges into the MS4 (II.B.3.a)	Three years from the permit effective date
	Adopt an ordinance or other control measure to prohibit illicit discharges to the MS4(s); prohibit any specific non-stormwater discharge, if necessary (II.B.3.b&c)	Three years from the permit effective date
	Develop/update a comprehensive storm sewer system map (II.B.3.d)	Three years from the permit effective date
	Inform public employees, businesses, and the general public of hazards associated with illegal discharges and improper disposal of waste (II.B.3.e)	Three years from the permit effective date
	Begin dry weather screening of outfalls	Three years from the permit effective date
	20% of outfalls screened for dry weather flows (II.B.3.f)	Not later than permit expiration date
	Inventory the industrial facilities discharging stormwater to the MS4 (II.B.3.g)	Three years from the permit effective date

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Illicit Discharge Detection and Elimination minimum control measure. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this minimum control measure. Evaluation of this minimum measure will be performed as part of each Annual Report and changes will be made as applicable.

#### **II.B.4 Construction Site Stormwater Runoff**

Polluted stormwater runoff from construction sites often flows to MS4s and ultimately is discharged into local rivers and streams. During a short period of time, construction sites can contribute more sediment to streams than can be deposited naturally during several decades. Therefore, MS4 operators are required to develop, implement and enforce a program to reduce pollutants in stormwater runoff from construction activities that result in a land disturbance of greater than one acre. This program must also include controlling runoff from construction activity disturbing less than one acre if the construction is part of a larger common plan of development or sale that would disturb one acre or more. The goal of the construction site runoff control program is to establish a set of minimum erosion and sediment control (ESC) requirements for construction sites that disturb more than two (2) cubic yards of soil, including planning, installation, inspection and maintenance of accepted ESC practices.

Key components of this program will include the following activities:

- Implement and enforce a construction site runoff control program
- Provide adequate direction to project proponents regarding the EPA Construction General Permit
- Adopt an ordinance to require construction site operators to practice erosion, sediment and waste control
- Publish and distribute written requirements for construction site best management practices
- Review/update as necessary, procedures for reviewing site plans and accepting public input
- Implement site inspection and enforcement procedures
- Inspect all construction sites five (5) acres or more at least once per construction season
- Develop a written policy identifying how construction sites disturbing less than five (5) acres will be prioritized for inspection
- Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (CGP)

Details of key components:

### **Implement and enforce a construction site runoff control program**

In 2005 the City of Nampa developed an Erosion and Sediment Control Program to reduce pollutants in stormwater runoff from construction sites. The program is applicable to all construction activities disturbing more than 2 cubic yards of soil. Public works projects and other municipal soil disturbing construction activities are required to submit a Site Specific Discharge Control Plan for review and approval. In addition to the City's ESC requirements, construction site operators and municipal projects are required to meet the requirements of EPA's CGP.

### **Provide adequate direction to project proponents regarding the EPA Construction General Permit**

Nampa's Erosion and Sediment Control Program distributes information regarding EPA's CGP in various methods. Information regarding Stormwater Pollution Prevention Plan (SWPPP) requirements is presented in the following ways: conceptual plan review meetings, pre-bid meetings, and pre-construction meetings, handed out with approved ESC permits, made available as a flyer for reference, and posted on City of Nampa website.

### **Adopt an ordinance to require construction site operators to practice erosion, sediment and waste control**

Title 9 Chapter 6: Erosion and Sediment Control/Grading of City Code was adopted by City Council March 7, 2005. This ordinance allows the City to regulate and control the design, construction, use, and maintenance of any development or other activity which disturbs or breaks the topsoil or results in the movement of earth on land in the city of Nampa.

### **Publish and distribute written requirements for construction site best management practices**

Materials associated with written requirements for construction site BMPs are distributed in a variety of ways to various target audiences. Generally the materials cover the requirements for large and small projects within Nampa city limits. Commercial contractors, homebuilders, homeowners and municipal employees are the target audiences to receive these written requirements for proper BMPs at construction projects. All written requirements for construction site BMPs will be posted on the City's Stormwater website.

## **Review/update as necessary, procedures for reviewing site plans and accepting public input**

Currently all pre-construction site plans for construction projects within the Nampa city limits disturbing more than 2 cubic yards of soil are reviewed for proper stormwater management practices. Any deficiencies in the Site Specific Discharge Control plans are corrected before an approved ESC permit may be issued. Procedures for reviewing all pre-construction site plans for potential water quality impacts will be reviewed and updated to ensure compliance with the MS4 permit. Stormwater Division staff will add the provisions to the review procedure for receipt and consideration of information submitted by the public on the review process.

## **Implement site inspection and enforcement procedures**

ESC staff conducts site inspections as scheduled and on an as warranted basis. Unscheduled informal site inspections are logged in the inspector's daily field notes while scheduled formal inspections are documented on an official site inspection form. Complaints from the public or evidence of a deviation from approved BMPs will result in a site inspection to investigate possible noncompliance. Enforcement actions as a result of site inspection include a verbal warning, written Notice of Violation (NOV), Stop Work Order, and possible fines. The Stormwater Division will review and update ESC site inspection and enforcement procedures to ensure permit compliance.

## **Inspect all construction sites five (5) acres or more at least once per construction season**

Currently, ESC staff strives to inspect large construction projects before, during and after the construction project. This assists with plan review, ESC permit compliance and final stabilization requirements. These inspections tend to be informal with inspection results documented in field notes. To ensure MS4 permit compliance, this procedure will transition to include scheduled annual formal inspections documenting inspection site visits on official inspection forms.

## **Develop a written policy identifying how construction sites disturbing less than five (5) acres will be prioritized for inspection**

Construction projects on or adjacent to environmentally sensitive areas have historically warranted additional site visits to monitor the area for potential pollutants. This working knowledge of Nampa's environmentally sensitive areas will provide the basis to prioritize construction projects disturbing less than five (5) acres for site inspections. Additional factors to be considered for prioritization could include soil type, grade, and location of drainage conveyance in the vicinity of the project and trends of illicit discharge in the area.

## **Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (CGP)**

All public construction projects within the City of Nampa are required to comply with the CGP and all relevant ESC requirements established in Nampa City Code. This includes all contractors working on behalf of the City. Specific language relating to applicable erosion and sediment control, pollution prevention and onsite materials control has been incorporated into all contract documents ensuring appropriate stormwater management on all public construction projects. Contract document language regarding CGP and ESC requirements is provided in Appendix I.

### **Measurable Goals or Performance Standards**

#### Provide adequate direction to project proponents regarding the EPA Construction General Permit

- Number of informational flyers distributed to target groups
- Number of target group receiving CGP information
- Volume of visits to Stormwater website in regards to CGP information

#### Publish and distribute written requirements for construction site best management practices

- Number of informational flyers distributed to target groups
- Number of target group receiving BMP information
- Volume of visits to Stormwater website in regards to BMP information
- Number in attendance at BMP training workshops

#### Review/update as necessary, procedures for reviewing site plans and accepting public input

- Number of site plans reviewed for stormwater runoff control
- Amount and type of public input received in regards to proposed construction projects
- Amount and type of public input incorporated into approved ESC plans

#### Implement site inspection and enforcement procedures

- Number of ESC permit applications received
- Number of site inspections performed
- Number and type of enforcement actions performed

#### Inspect all construction sites five (5) acres or more at least once per construction season

- Number of ESC permits issued for project >5 acres in size
- Number of sites >5 acres in size inspected during the construction season
- Number of enforcement actions performed on projects >5 acres in size

Develop a written policy identifying how construction sites disturbing less than five (5) acres will be prioritized for inspection

- Number of construction sites less than five (5) acres in size
- Number of inspections on sites less than five (5) acres in size
- Number of sites inspected in each category of the prioritization list

Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (CGP)

- Number of municipal construction projects
- Number of ESC permits issued for municipal construction projects
- Number of enforcement actions issued for municipal construction projects
- Number of municipal employees in attendance at ESC training workshops
- Number of municipal employees holding ESC certifications

**Scheduling and Responsible Parties**

Construction Site Stormwater Runoff Control compliance dates generally fall three (3) years from the permit effective date. Most of the program components have already been developed and implemented at program start up in 2005. The Stormwater Division will conduct a thorough review of the existing ESC program and update current procedures to meet MS4 permit requirements. Additional program components that will be developed and implemented include receiving site inspection input from the public, prioritizing smaller construction sites for inspection and inspecting larger construction site at least once per construction season. The Stormwater Division will strive to receive input from the general public as well as surrounding municipalities in updating the current ESC program to be consistent with ESC requirements through out the Treasure Valley.

<b>Construction Site Stormwater Runoff</b>		
<b>Permit Part</b>	<b>SWMP Component</b>	<b>Compliance Date</b>
<b>Part II.B.4</b>	Implement and enforce a construction site runoff control program for sites disturbing one or more acres of land; review and update the program as necessary (II.B.4.a)	Three years from the permit effective date
	Provide adequate direction to project proponents regarding the EPA Construction General Permit (II.B.4.b)	Upon permit effective date
	Adopt an ordinance or other control measure to require construction site operators to practice erosion, sediment and waste control (II.B.4.c)	Three years from the permit effective date
	Publish and distribute written requirements for construction site best management practices (II.B.4.d)	Three years from the permit effective date
	Develop, or review/update as necessary, procedures for reviewing site plans & accepting public input (II.B.4.e & f)	Three years from the permit effective date
	Implement site inspection & enforcement procedures. Inspect all construction sites >5 acres	Three years from the permit effective date

	at least once per construction season. Develop a written policy identifying how construction sites disturbing <5 acres will be prioritized for inspection (II.B.4.g)	
	Ensure all permittee-owned construction projects comply with EPA's Construction General Permit (II.B.4.h)	Upon permit effective date

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Construction Site Stormwater Runoff minimum control measure. Stormwater Division staff will seek to gather and consider input provided from the public and surrounding municipalities when reviewing and updating the existing Erosion and Sediment Control Program. Consistency in the local ESC requirements in Canyon and Ada Counties is a goal in the review and update process. Evaluation of this minimum measure will be performed as part of each Annual Report and changes will be made as applicable.

### II.B.5 Post-Construction Stormwater Management in New Development and Redevelopment

Post-construction stormwater management controls are necessary because runoff from newly developed land can significantly affect receiving water quality. The quantity of stormwater runoff delivered to receiving waters during storm events increases significantly due to increased impervious surfaces. The effects of this increased runoff include stream bank scouring and downstream or local flooding, which often leads to a loss of aquatic life and damage to property. The City of Nampa will develop, implement, and enforce a program to reduce pollutants to the MEP in post-construction runoff from areas of new development and redevelopment.

Key components of this program will include the following activities:

- Develop and implement a program to address post-construction stormwater runoff from new development and redevelopment projects
- Adopt an ordinance to address post-construction runoff from new development and redevelopment projects
- Ensure proper long term operation and maintenance of all post-construction stormwater BMPs
- Develop and implement a site plan review process for new development and redevelopment projects
- Develop and implement a site inspection program to ensure proper installation and long term operation and maintenance of post-construction stormwater management controls
- Educate the development community on appropriate design, operation and maintenance of stormwater facilities and vegetative practices



Details of key components:

### **Develop and implement a program to address post-construction stormwater runoff from new development and redevelopment projects**

Various departments/divisions within the City of Nampa have implemented policies and procedures to address stormwater runoff in new and redevelopment projects. These existing policies and procedures will form the basis for the development of a program to address stormwater runoff from new and redevelopment projects. The following are activities currently being implemented:

- Plan review for new development and redevelopment projects take place in several phases:
  - Comprehensive Plan Review on potential projects to facilitate what requirements the project proponent needs to comply with for a successful project. Members from various departments/division attend these meetings.
  - Plan review by the Engineering Division ensures that the proposed plan meets all design standards.
  - Plan review by the Stormwater Division to ensure proper stormwater runoff BMPs are selected during the construction phase of the project.
- All new development is require to retain Stormwater runoff on-site, treat the runoff with approved BMPs and then discharge it to a infiltration basin or bio-retention facility.
- After construction each commercial facility is inspected by City staff to ensure proper installation of the permanent BMPs.
- Commercial developments are to maintain all BMPs on site
- Residential development reflect a combination of maintenance activities: Homeowner's Associations perform light maintenance such as mowing grass and the City performs the heavy maintenance such as repairing BMPs.

Long range planning is a vital tool in the evaluation and implementation of nonstructural stormwater controls such as directing growth to identified areas; protecting sensitive areas; maintaining or increasing open spaces; providing buffers along water bodies; minimizing impervious surfaces; and policies to encourage infill development. The current City of Nampa Comprehensive Plan is in the process of being reviewed and updated. Comments from stakeholder and open house meetings held in late 2009 and early 2010 revealed the public's desire for more open spaces and public parks. The Storm water Division will attempt to incorporate the goals and objectives of the Comprehensive Plan into the Post-Construction Stormwater Management Program.

### **Adopt an ordinance to address post-construction runoff from new development and redevelopment projects**

Nampa's post-construction stormwater management requirements are contained in the Nampa Subdivision Ordinance (NCC 10-27) which addresses on-site retention through structural storage practices for residential developments. On-site detention is also

required for new industrial and commercial developments. The City of Nampa Engineering Design and Construction Specifications Manual also describes these requirements. In 2005 the Subdivision Process and Policy Manual was developed which includes a Stormwater Policy Manual which addresses drainage and Stormwater management requirements. A copy of this policy has been provided in Appendix I.

### **Ensure proper long term operation and maintenance of all post-construction stormwater BMPs**

Proper maintenance of permanent Stormwater controls is vital to reducing pollutant loading to receiving waters. Currently the Street Division provides maintenance on storm drains, catch basins and sand and grease traps. The type and number of BMPs maintained along with the amount of debris and volume of water removed are recorded and provided to the Stormwater Division. Street sweeping activities are also performed on a regular basis.

To adequately meet permit requirements the City plans to expand the existing procedures to encompass all of the post-construction stormwater management controls. The Department of Public Works developed an Asset Management Plan to adequately evaluate, repair, maintain, and replace the infrastructure system within the City of Nampa. This plan divides the city into seven (7) zones and each zone will be addressed in phases. Inspection, evaluation, maintenance, repair and replacement of the stormwater infrastructure will commence under the Asset Management Plan. A map showing the zones of town and the corresponding schedule is provided in Appendix H.

### **Develop and implement a site plan review process for new development and redevelopment projects**

Various departments/divisions within the City of Nampa have implemented plan review policies and procedures to address stormwater runoff in new and redevelopment projects. Plan review for new development and redevelopment projects take place in several phases:

- Comprehensive Plan Review on potential projects to facilitate what requirements the project proponent needs to comply with for a successful project. Members from various departments/division attend these meetings.
- Plan review by Planning and Zoning to ensure that proposed projects are in compliance with approved Planning and Zoning codes and requirements.
- Plan review by the Engineering Division ensures that the proposed plan meets all design standards.
- Plan review by the Stormwater Division to ensure proper stormwater runoff BMPs are selected during the construction phase of the project.

Stormwater staff intends to expand upon and consolidate the existing plan review efforts to develop a site plan review process for new development and redevelopment projects.

## **Develop and implement a site inspection program to ensure proper installation and long term operation and maintenance of post-construction stormwater management controls**

The City will develop and implement an inspection program to ensure proper installation and appropriate long term operation and maintenance of post-construction stormwater controls. The Asset Management Plan described above will provide the framework for the post-construction inspection program. Valuable data can be collected during the inspection process that can be incorporated into other program elements developed under the SWMP.

## **Educate the development community on appropriate design, operation and maintenance of stormwater facilities and vegetative practices**

Educational materials directed to the development community about appropriate design, operation and maintenance of stormwater retention facilities and vegetative practices to address post-construction stormwater runoff from new development and redevelopment will be incorporated in Nampa's Public Education and Outreach program. Appropriate materials could be distributed during the Comprehensive Plan Review process, distributed at the Engineering counter upon request and posted on Nampa's Stormwater website. Direct mailings and workshops could also provide suitable methods of educating the development community on post-construction requirements.

## **Measurable Goals or Performance Standards**

### Develop and implement a program to address post-construction stormwater runoff from new development and redevelopment projects

- Number of proposed projects reviewed for post-construction requirements
- Number and type of inspections performed to ensure compliance with post-construction requirements
- The number of problems identified and remedied
- Which zone of the Public Works Asset Management Program was addressed

### Adopt an ordinance to address post-construction runoff from new development and redevelopment projects

- Updates made to existing ordinances addressing post-construction requirements
- Creation of any new ordinances addressing post-construction requirements

### Ensure proper long term operation and maintenance of all post-construction stormwater BMPs

- Type and number of post-construction BMPs maintained
- Volume of debris and water removed during maintenance activities
- Summary of the activities performed under the Public Works Asset Management Program

Develop and implement a site plan review process for new development and redevelopment projects

- Number and type of plan reviews performed on projects of proposed new development and redevelopment projects
- Updates made to the current post-construction plan review process

Develop and implement a site inspection program to ensure proper installation and long term operation and maintenance of post-construction stormwater management controls

- Number and type of inspections performed on post-construction BMPs
- Updates made to current post-construction inspection process
- Summary of the activities performed under the Public Works Asset Management Program

Educate the development community on appropriate design, operation and maintenance of stormwater facilities and vegetative practices

- The number of materials created and distributed regarding post-construction requirements
- The number of workshops attended by members of the development community
- The numbers of “visits” to the Stormwater website to view post-construction materials

**Scheduling and Responsible Parties**

Post-Construction Stormwater Management compliance dates generally fall four (4) years from the permit effective date. Program components already initiated include ordinance and policies, plan review, preventative maintenance activities and initial inspection procedures. Additional program components will be implemented by Stormwater staff prior to the required compliance dates.

<b>Post-Construction Stormwater Management</b>		
<b>Permit Part</b>	<b>SWMP Component</b>	<b>Compliance Date</b>
<b>Part II.B.5</b>	Develop and implement a program to address post-construction stormwater runoff from new development and redevelopment projects (II.B.5.a)	Four years from the permit effective date
	Adopt an ordinance to address post-construction runoff from new development and redevelopment projects (II.B.5.b)	Four years from the permit effective date
	Ensure proper long term operation and maintenance of all post-construction stormwater BMPs(II.B.5.c)	No later than the permit expiration date
	Develop and implement a site plan review process and site inspection program to ensure proper installation and long term operation and maintenance of post-construction stormwater management controls (II.B.5.d)	No later than the permit expiration date
	Educate development community on appropriate design, operation and maintenance of stormwater facilities and vegetative practices (II.B.5.e)	Four years from the permit effective date

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Post-Construction Stormwater Management in New Development and Redevelopment minimum control measure. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this minimum control measure. Evaluation of this minimum measure will be performed as part of each Annual Report and changes will be made as applicable.

## **II.B.6 Pollution Prevention and Good Housekeeping for Municipal Operations**

### **Summary of Program Component**

Municipalities conduct numerous activities that can pose a threat to water quality if practices and procedures are not in place to prevent pollutants from entering the MS4. These activities include winter road maintenance, minor road repairs and other infrastructure work, automobile fleet maintenance, landscaping and park maintenance, and building maintenance. Municipalities also conduct activities that remove pollutants from the MS4 when performed properly, such as parking lot and street sweeping and storm drain system cleaning. Finally, municipal facilities can be sources of stormwater pollutants if BMPs are not in place to contain spills, manage trash, and handle non-stormwater discharges. The City will implement an operation and maintenance program to prevent or reduce pollutant runoff from municipal activities.

Key components of this program will include the following activities:

- Develop and implement an operations and maintenance (O&M) program intended to prevent or reduce pollutant runoff from municipal operations
- Develop and conduct appropriate training for municipal personnel
- Prepare stormwater pollution prevention plans for the fleet maintenance, street department site and wastewater treatment plant

Details of key components:

### **Develop and implement an operations and maintenance program intended to prevent or reduce pollutant runoff from municipal operations**

This program must address municipal activities occurring within the city limits with potential for negative stormwater related water quality impacts, including: the use of sand and road deicers; fleet maintenance and vehicle washing operations; street cleaning and maintenance; grounds/park and open space maintenance operations; building maintenance; solid waste transfer activities; water treatment plant operations; storm sewer system maintenance; and snow disposal site operation and maintenance. These activities will be evaluated and altered if necessary to reduce the amount and type of pollution that: (1) collects on streets, parking lots, open spaces, storage and vehicle maintenance areas, that may be discharged into local waterways; and (2) results from

actions such as environmentally damaging land development and flood management practices or inadequate maintenance of storm sewer systems. The City will develop and implement an operations and maintenance program intended to prevent or reduce pollutant from municipal operations.

### **Develop and conduct appropriate training for municipal personnel**

The City will develop and conduct appropriate training for municipal employees related to best management practices for protection of water quality. This training will be conducted at least once per year and address the municipal activities with the potential for negative water quality impacts.

### **Prepare stormwater pollution prevention plans for the fleet maintenance, street department site and wastewater treatment plant**

Stormwater Pollution Prevention Plans (SWPPP) will be developed and implemented for Nampa's Vehicle Maintenance, Street and Wastewater Divisions. A thorough evaluation will be conducted at each of the divisions listed above and SWPPPs will be incorporated as required. A Spill Response Plan was developed and implemented for the Street Division in October of 2008. This plan will be reviewed and updated as necessary and will serve as a template for the Vehicle Maintenance and Wastewater Divisions.

### **Measurable Goals or Performance Standards**

#### Develop and implement an operations and maintenance program intended to prevent or reduce pollutant runoff from municipal operations

- BMP Inspection and Maintenance
  - The frequency of inspection and maintenance activities
    - Storm drains, catch basins, sand and grease traps
    - Street sweeping activities
    - Parks, golf courses and other open spaces
    - Snow removal practices and the use of sand and deicers
    - Fleet maintenance activities and vehicle washing operation
    - Materials storage including hazardous materials
  - The number of problems that were identified and remedied
  - Status of BMP inventory program
  - Evaluate existing inspection procedures
- O&M procedures relevant to municipal operation activities
  - Evaluate existing O&M procedures relevant to municipal operations
  - Develop and implement O&M procedures for relevant activities
- Develop recordkeeping system for O&M procedures
  - Evaluate existing O&M recordkeeping system
  - Modify existing system or implement new system for adequate recordkeeping
  - Frequency of maintenance and update of recordkeeping system

Develop and conduct appropriate training for municipal personnel

- Number and type of educational materials distributed to municipal employees
- Type and frequency of training workshops available to municipal employees
- Number of municipal employees in attendance at training events
- Educational materials available to municipal employees on Storm water Division webpage

Prepare stormwater pollution prevention plans for the fleet maintenance, street department site and wastewater treatment plant

- Evaluate industrial activities conducted by Vehicle Maintenance, Street Division and Wastewater division
- Develop and implement site-specific Stormwater pollution prevention plans (SWPPP) for Vehicle Maintenances, Street Division and Wastewater Division

**Scheduling and Responsible Parties**

Pollution Prevention and Good Housekeeping for Municipal Operations compliance dates generally fall four (4) years from the permit effective date. Historically, the City has addressed pollution prevention and good housekeeping objectives as an essential part of a well run program. These good faith efforts will provide a solid basis for Nampa’s Pollution Prevention and Good Housekeeping program. An enhanced program with additional program components will be implemented by Stormwater staff prior to the required compliance dates.

<b><i>Pollution Prevention/Good House Keeping</i></b>		
<b><i>Permit Part</i></b>	<b><i>SWMP Component</i></b>	<b><i>Compliance Date</i></b>
<b><i>Part II.B.6</i></b>	Develop and implement an operation and maintenance program intended to prevent or reduce pollutant runoff from municipal operations (II.B.6.a)	Four years from the permit effective date
	Develop and conduct appropriate training for municipal personnel (II.B.6.b)	Four years from the permit effective date, once per year thereafter
	Prepare storm water pollution prevention plans for the fleet maintenance/street department site and the wastewater treatment plan (II.B.6.c)	Four years from the permit effective date.

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Pollution Prevention and Good Housekeeping for Municipal Operations minimum control measure. Stormwater Division staff will work with the assistance of other departments/divisions within the City to meet the requirements set forth in this minimum control measure. Evaluation of this minimum measure will be performed as part of each Annual Report and changes will be made as applicable.

## II.C Discharges to Water Quality-Impaired Receiving Waters

All NPDES permits must include requirements necessary to achieve state water quality standards. Nampa's MS4 permit contains narrative limits to achieve the Idaho water quality standards to the MEP. Due to the water quality impairment in the Boise River attributed to sediment, bacteria and nutrients, the City must begin a monitoring program to estimate and quantify pollutant loading from the City's MS4. In the first Annual Report, the City must also identify how the specific actions taken through this SWMP will prevent the discharge of these pollutants to receiving waters. In the Nampa Urbanized Area the pollutants of concern have been identified as sediment, nutrients and bacteria.

Key components of this program will include the following activities:

- Conduct Stormwater monitoring as required in Part IV.A
- Determine whether stormwater discharges from any part of the MS4 contribute pollutants of concern, either directly or indirectly to any impaired water bodies
- Describe how permit activities ensure MS4 discharges will not cause or contribute to an excursion above the applicable Idaho water quality standards.

Details of key components:

### **Conduct Stormwater monitoring as required in Part IV.A**

To monitor the quality of stormwater discharges from the MS4, the City must develop and implement a monitoring plan that includes quality assurance requirements.

Monitoring objectives include:

- Estimate the pollutant loading currently discharged from the MS4
- Assess the effectiveness and adequacy of control measures implemented by the SWMP
- Identify and prioritize those portions of the MS4 requiring additional controls
- Submit Storm water Discharge Monitoring Report when applicable

An associated quality assurance plan (QAP) is required to be developed concurrent with the Monitoring Plan. The QAP must be designed to assist in the collection and analysis of stormwater discharge samples in support of permit requirements and in explaining data anomalies if they occur.

### **Determine whether stormwater discharges from any part of the MS4 contribute pollutants of concern, either directly or indirectly to any impaired water bodies**

Impaired water bodies are defined as any Clean Water Act (CWA) Section 303(d) listed waters. The IDEQ 2002 Integrated Report list the Boise River and associated tributaries as impaired. Pollutants of concern refer to the pollutants identified as causing or contributing to the water quality impairment. Monitoring efforts associated with permit requirements will provided Stormwater staff the data to make such determinations



**Describe how permit activities ensure MS4 discharges will not cause or contribute to an excursion above the applicable Idaho water quality standards.**

The first Annual Report must include a description of how the activities in each of the minimum measures are targeted by the City to control the discharge of pollutants of concern, and ensure to the MEP that the MS4 discharges will not cause or contribute to an excursion above the applicable Idaho water quality standards. The City will submit this description of the SWMP implementations to EPA and IDEQ as part of the first Annual Report and update it annually in subsequent Annual Reports.

### **Measurable Goals or Performance Standards**

#### Conduct Stormwater monitoring as required in Part IV.

- Develop, implement or update Monitoring Plan
- Develop, implement or update QAP
- Number and type of samples collected
- Submit Storm water Discharge Monitoring Report
- Evaluate compliance with permit conditions

#### Determine whether stormwater discharges from any part of the MS4 contribute pollutants of concern, either directly or indirectly to any impaired water bodies

- Evaluate SWMP activities and stormwater discharge monitoring data
- Report evaluation results in Annual Report

#### Describe how permit activities ensure MS4 discharges will not cause or contribute to an excursion above the applicable Idaho water quality standards.

- Evaluate SWMP activities and stormwater discharge monitoring data
- Report evaluation results in Annual Report

### **Scheduling and Responsible Parties**

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Discharges to Water Quality-Impaired Receiving Waters requirements. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this permit requirement. Evaluation of these requirements will be performed as part of each Annual Report and changes will be made as applicable.

### **II.D Reviewing and Updating the SWMP**

The City must annually review and update the SWMP actions and activities as part of the preparation of the required Annual Report. Request for changes in the SWMP may be presented in the proper outlined procedures. Documentation for any of the required actions and activities will be submitted to the EPA upon request.

Key components of this program will include the following activities:

- Perform an annual review and update of the SWMP prior to Annual Report
- Prepare request for significant changes in the SWMP as per the proper procedure

Details of key components:

### **Perform an annual review and update of the SWMP prior to Annual Report**

A thorough review and evaluation of the SWMP will be conducted prior to the preparation of the Annual Report

### **Prepare request for significant changes in the SWMP as per the proper procedure**

The proper procedures outlined in Part II.D of the permit will be followed if a significant change to the SWMP plan is proposed.

### **Measurable Goals or Performance Standards**

#### Perform an annual review and update of the SWMP prior to Annual Report

- Perform annual review and update of SWMP

#### Prepare request for significant changes in the SWMP as per the proper procedure

- Number of significant changes requested

### **Scheduling and Responsible Parties**

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Reviewing and Updating the SWMP requirements. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this permit requirement. Evaluation of these requirements will be performed as part of each Annual Report and changes will be made as applicable.

## **II.E Transfer of Ownership, Operational Authority or Responsibility for SWMP Implementation**

The City must implement the actions and activities of the SWMP in all new areas added or transferred no later than one year from the date of annexation. These new areas must be documented in the next Annual Report.

Key components of this program will include the following activities:

- Review request for annexations of property into city limits
- Ensure SWMP actions and activities are implemented within one year of annexation

Details of key components:

### **Review request for annexations of property into city limits**

City staff is notified of a request for annexations of property into city limits. Staff is given an opportunity to review and comment on annexation request before presenting to City Council.

### **Ensure SWMP actions and activities are implemented within one year of annexation**

Stormwater staff will implement the necessary actions to ensure that the annexed property is included in the SWMP actions and activities.

### **Measurable Goals or Performance Standards**

#### Review request for annexations of property into city limits

- Number of requests made for annexation
- Number of applications reviewed
- Actions performed in regards to request

#### Ensure SWMP actions and activities are implemented within one year of annexation

- SWMP actions and activities implemented after annexation
- Add annexed areas to the comprehensive storm sewer system map

### **Scheduling and Responsible Parties**

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the Transfer of Ownership, Operational Authority or Responsibility for SWMP Implementation requirements. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this permit requirement. Evaluation of these requirements will be performed as part of each Annual Report and changes will be made as applicable.

## **II.F SWMP Resources**

The City must provide adequate finances, staff, equipment and other support capabilities to implement the SWMP actions and activities required by the permit.

Key components of this program will include the following activities:

- Formation of a funding mechanism for Nampa's Stormwater Program
- Provide adequate staff to perform permit requirements
- Provide adequate equipment and support capabilities to implement SWMP

Details of key components:

### **Formation of a funding mechanism for Nampa's Stormwater Program**

Nampa city staff, with the assistance of contracted consultants, established preliminary program costs and researched feasible funding options to support the Stormwater Program. These options were then presented to Nampa's Stormwater Advisory Group (SWAG) along with preliminary program costs and Stormwater Program requirements. At the conclusion of four (4) main SWAG meetings and three (3) Funding subcommittee workshops, the recommendation was made to utilize a stormwater utility to provide adequate funds for Nampa's Stormwater Program. At the recommendation of the SWAG and after several workshops with City Council, Nampa adopted ordinance 3928 *Stormwater and Drainage System Utility* on October 4, 2010.

Considerable input regarding Nampa's Stormwater Program and formation of a utility was provided by the SWAG. Staff incorporated many of these recommendations into Nampa's SWMP and stormwater utility formation. It is anticipated that the SWMP and stormwater utility will be more readily accepted by the community when given the opportunity to provide input into these programs.

The SWAG recommended that the City be proactive in evaluating non-single family properties in Nampa for potential stormwater rate credits. This recommendation was taken seriously and after the adoption of the utility ordinance city staff began the process of digitizing and evaluating approximately 8,000 properties within Nampa city limits for potential stormwater utility fee rate credits. Property owners being impacted the most by implementation of the stormwater utility fee will receive a visit from Nampa City staff prior to the issuance of the first bill.

The following activities summarize the steps taken in the formation of the Nampa stormwater utility:

- Establish preliminary Stormwater Program costs
- Research feasible funding options
- Formation of the Nampa Stormwater Advisory Group
- Adoption of the Stormwater and Drainage System Utility ordinance
- Formation of a Stormwater/Drainage Utility
- Rate credit evaluation of non-single family residential properties
- Meet with the top 100 impervious surface owners in Nampa
- Hold a Public Meeting/citywide mailing of utility information
- Adopt stormwater utility rate by resolution
- Commence with stormwater utility billing
- Establish Stormwater Utility Oversight Committee

### **Provide adequate staff to perform permit requirements**

Currently the Stormwater Division is comprised of three (3) full time employees. Various other city departments/divisions provide support in the implementation of MS4 permit requirements and activities. As the SWMP actions and activities expand the Stormwater Division will strive to add additional staff on an as needed basis.

### **Provide adequate equipment and support capabilities to implement SWMP**

Equipment and supplies required to implement SWMP actions and activities will be acquired as needed. Support capabilities such as the use of consultants will be utilized as appropriate.

### **Measurable Goals or Performance Standards**

#### Formation of a funding mechanism for Nampa's Stormwater Program

- Nampa Stormwater Utility
  - Number and type (residential/non-residential) of utility bills
  - Number of parties appealing utility rate credits
  - Number of corrections made to utility fee calculations
- Stormwater Utility Oversight Committee
  - Number of meetings conducted
  - Number of attendees

#### Provide adequate staff to perform permit requirements

- Number of current staff to implement SWMP activities
- Proposed number of additional staff to implement SWMP activities

#### Provide adequate equipment and support capabilities to implement SWMP

- Equipment and supplies acquired in the last permit year
- Equipment and supplies to be acquired in the next permit year

### **Scheduling and Responsible Parties**

The City of Nampa Stormwater Division under the direction of the Department of Public Works is responsible for the implementation of the requirements set forth in the SWMP Resources requirements. Stormwater Division staff will work with the assistance of contracted consultants to meet the requirements set forth in this permit requirement. Evaluation of these requirements will be performed as part of each Annual Report and changes will be made as applicable.

## Section III. Schedule for Implementation and Compliance

Section III of the permit provides a table which summarizes the permit requirements and the compliance date for each permit requirement. This table provides a quick reference for requirements and compliance but must be used in conjunction with the text of the permit for full implementation of requirements.

Table III summarizing the schedule for implementation and compliance can be found on page 14 of Nampa's MS4 permit. See Appendix D for a copy of Nampa's MS4 permit.

## **Section IV. Monitoring, Recordkeeping, and Reporting Requirements**

### **IV.A Monitoring**

At least once per year Nampa will evaluate its compliance with permit conditions, the appropriateness of identified BMPs, and progress toward achieving the minimum control measures. Stormwater discharge monitoring will be conducted to ensure compliance with the conditions of the permit. This evaluation of program compliance will be documented in each Annual Report beginning with the second Annual Report.

Stormwater discharge monitoring objectives, sampling procedures, sampling frequency and discharge sampling site locations are detailed in Nampa's Stormwater Monitoring Plan found in Appendix F. Detailed analytical procedures, data handling and management and stormwater monitoring roles and responsibilities can be found in Nampa's Quality Assurance Plan provided in Appendix G.

### **IV.B Recordkeeping**

The City will retain records and copies of all information pertinent to the development, implementation and reporting activities of its MS4 permit for a period of at least five (5) years from the date of generation or for the term of the permit whichever is longer. The City will make records, including the permit application and the SWMP, available to the public if requested to do so in writing. The public will be able to view the records at Nampa City Hall during regular business hours. A reasonable fee for reproducing the documents may be charged when documents are requested by the public.

### **IV.C Reporting Requirements**

A Stormwater Discharge Monitoring Report will be submitted as part of the Annual Report within three (3) years from the effective date of the permit and once per year thereafter. All available stormwater discharge monitoring data will be submitted along with an estimate of pollutant loadings.

No later than January 15 of each year beginning in year 2011, the City will submit an Annual Report to EPA and IDEQ. The reporting period of the first Annual Report will be from the effective date of the permit through October 15, 2010. The reporting period for all subsequent annual reports will be the twelve (12) month period ending October 15<sup>th</sup> of the previous calendar year. Copies of all Annual Reports will be made available to the public at Nampa City Hall during normal business hours and on the Nampa Stormwater Division website upon completion.

## IV.D Reporting Addresses

Reports and other documents required by the permit will be signed in accordance with Part VI.E and submitted to each of the following addresses:

EPA: United States Environmental Protection Agency  
Attention: Storm Water Program  
NPDES Compliance Unit  
1200 6<sup>th</sup> Avenue, Suite 900 (OCE-133)  
Seattle, WA 98101

IDEQ: Idaho Department of Environmental Quality  
Boise Regional Office  
1445 North Orchard  
Boise, ID 83720



## **Section V. Compliance Responsibilities**

Part V of Nampa's MS4 permit outlines the duties that the City must comply with to remain in compliance. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application. Nampa recognizes and respects all of the compliance responsibilities listed in Part V of Nampa's MS4 permit.

## Section VI. General Provisions

Part VI of Nampa's MS4 permit outlines the general provisions that the City must comply with to remain in compliance. Any permit noncompliance constitutes a violation of the Clean Water Act (CWA) and is grounds for enforcement action, for permit termination, revocation and reissuance, or modification, or for denial of a permit renewal application. Nampa recognizes and respects all of the general provisions listed in Part VI of Nampa's MS4 permit.

## **Appendix A**

### **Stormwater Acronyms**

<b>BMP:</b>	Best Management Practice
<b>CFR:</b>	Code of Federal Regulations
<b>CGP:</b>	Construction General Permit
<b>CWA:</b>	Clean Water Act
<b>DMR:</b>	Discharge Monitoring Report
<b>ESC:</b>	Erosion and Sediment Control
<b>EPA:</b>	Environmental Protection Agency
<b>ESA:</b>	Endangered Species Act
<b>IDDE:</b>	Illicit Discharge Detection and Elimination
<b>IDEQ:</b>	Idaho Department of Environmental Quality
<b>ITD:</b>	Idaho Department of Transportation
<b>LBR:</b>	Lower Boise River
<b>MEP:</b>	Maximum Extent Practicable
<b>MS4:</b>	Municipal Separate Storm Sewer System
<b>NOV:</b>	Notice of Violation
<b>NPDES:</b>	National Pollution Discharge Elimination System
<b>SHPO:</b>	State Historical Preservation Office
<b>SWAG:</b>	Stormwater Advisory Group
<b>SWMP:</b>	Storm Water Management Plan
<b>SWPPP:</b>	Storm Water Pollution Prevention Plan
<b>TMDL:</b>	Total Maximum Daily Load
<b>QAP:</b>	Quality Assurance Plan

## **Appendix B**

### **Stormwater Glossary**

**Best Management Practices (BMPs):** means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of water of the United States. BMPs also include treatment requirements, operating procedures, and practices to control runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

**Control Measure:** refers to any Best Management Practice or other method used to prevent or reduce the discharge of pollutants to waters of the United States.

**Illicit Connection:** means any man-made conveyance connecting an illicit discharge directly to a municipal separate storm sewer.

**Illicit Discharge:** means any discharge to a municipal separate storm sewer that is not entirely composed of stormwater, except discharges authorized under an NPDES permit and discharges resulting from fire fighting activities.

**Maximum Extent Practicable (MEP):** means the technology-based discharge standard for municipal separate storm sewer systems to reduce pollutants in stormwater discharges that was established by the Clean Water Act.

**Measurable Goal:** means a quantitative measure of progress in implementing a component of a stormwater management program.

**Municipal Separate Storm Sewer System (MS4):** means a conveyance or system of conveyances (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels, or storm drains) owned or operated by the city.

**Nampa Urbanized Area:** means the greater Nampa, Idaho area delineated by the Year 2000 Census consisting of contiguous, densely settled census block groups that meet minimum population density requirements of at least 50,000 people.

**Outfall:** means a point source at the point where a municipal separate storm sewer discharges to water of the United States.

**Point Source:** means any discernible, confined, and discrete conveyance, including but not limited to, any pipe, ditch, channel, tunnel, conduit, well, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft from which pollutants are or may be discharged. This does not include return flows from irrigated agricultural storm water runoff.

Pollutant: Anything which causes or contributes to pollution. Pollutants may include, but are not limited to: paints, varnishes, and solvents; oil and other automotive fluids; nonhazardous liquid and solid wastes and yard wastes; refuse, rubbish, garbage, litter, or other discarded or abandoned objects, ordnances, and accumulations, so that same may cause or contribute to pollution; floatables; pesticides, herbicides, and fertilizers; hazardous substances and wastes; sewage, fecal coliform and pathogens; dissolved and particulate metals; animal wastes; wastes and residues that result from constructing a building or structure; and noxious or offensive matter of any kind.

Pollutant(s) of Concern: includes any pollutant identified as a cause of impairment of any water body that will receive a discharge from a MS4 authorized under EPA's Stormwater Permit. Pollutants of concern listed in Nampa's MS4 permit include sediment, bacteria and nutrients.

Post-construction stormwater management controls: means those controls designed to treat or control runoff on a permanent basis once construction is complete.

Stormwater: Any surface flow, runoff, and drainage consisting entirely of water from any form of natural precipitation, and resulting from such precipitation.

Stormwater Management Plan: refers to a comprehensive program to manage the quality of stormwater discharged from the municipal separate storm sewer system.

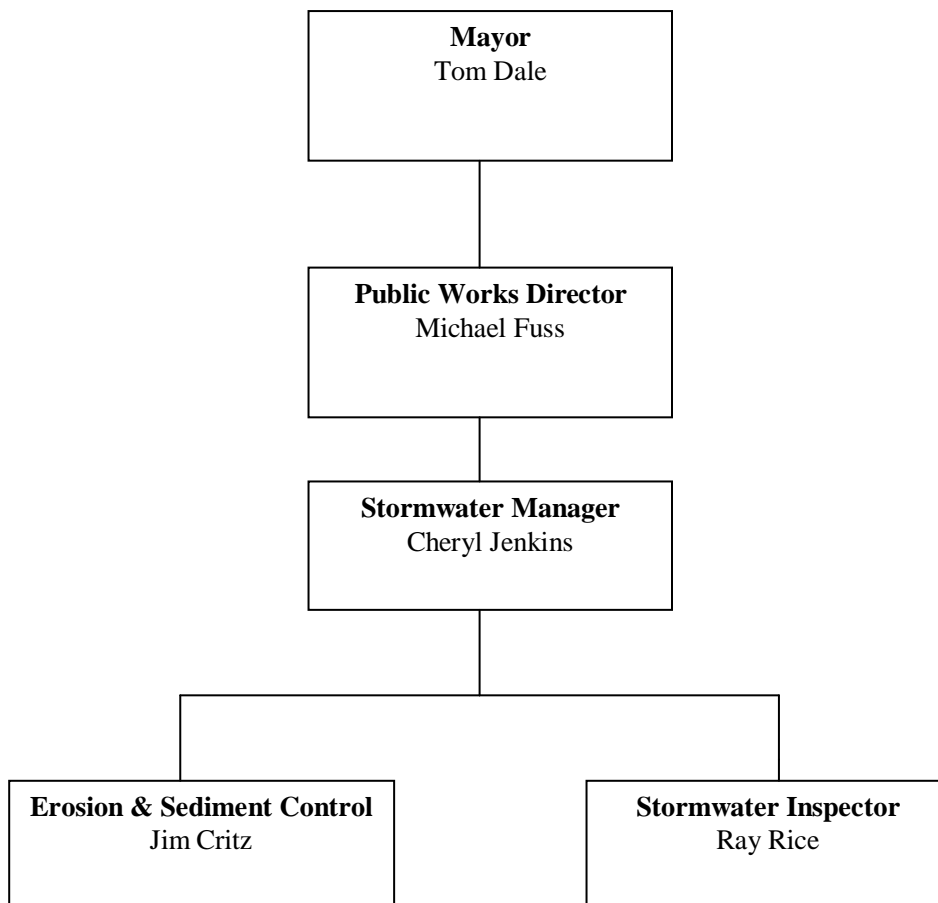
Total Maximum Daily Load (TMDL): an analysis of pollutant loading to a body of water detailing the sum of the individual waste load allocations for point sources and load allocations for non-point sources and natural background.

Wetlands: means those areas that are inundated or saturated by surface or groundwater at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs, and similar areas.

# Appendix C

## Stormwater Division Organizational Chart

### FY 2011-2012



**Appendix D**  
**Nampa MS4 Permit, Fact Sheet, and**  
**Answers to Comments**

**Appendix E**  
**City of Nampa Stormwater Ordinances**

**See Appendix G of the Annual Report**





# **Appendix F Monitoring Plan**

**See Appendix E of the Annual Report**

# **Appendix G**

## **Quality Assurance Plan**

**See Appendix F of the Annual Report**

# **Appendix H**

## **Stormwater Maps**

**See Appendix G of the Annual Report**

**Nampa Comprehensive Storm Sewer System  
Nampa Outfall Inventory  
Stormwater Maps**

**Nampa Comprehensive Storm Sewer System  
Nampa Outfall Inventory  
Stormwater Maps**

# **Appendix I**

## **Copies of Stormwater Documents**

**See Appendix G of the Annual Report**

