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## Acronyms and Abbreviations

BMP	Best Management Practice
Ecology	Washington State Department of Ecology
EPA	Environmental Protection Agency
FTE	Full Time Employee
IDDE	Illicit Discharge Detection and Elimination
MS4	Municipal Separate Storm Sewer System
NPDES	National Pollutant Discharge Elimination System
O&M	Operation and Maintenance
Permit	Eastern Washington Phase II Municipal Stormwater Permit
SWMP	Stormwater Management Program
TESC	Temporary Erosion and Sedimentation Control
TMDL	Total Maximum Daily Load
UIC	Underground Injection Control
WVSTAC	Wenatchee Valley Stormwater Advisory Committee

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# Wenatchee Valley Stormwater Management Program Description

## 1.0 Introduction and Background

To comply with Clean Water Act regulations, Chelan County, Douglas County, City of Wenatchee, and City of East Wenatchee have joined together to create a joint stormwater program. In 1999, the Environmental Protection Agency (EPA) introduced Phase II of the National Pollutant Discharge Elimination System (NPDES) program requiring a permit for stormwater discharges to certain municipal separate storm sewer systems (MS4s) and construction sites greater than one acre of land. In Washington State, the Washington State Department of Ecology (Ecology) administers the NPDES program on behalf of the EPA.

On January 17, 2007, Ecology issued the Eastern Washington Phase II Municipal Stormwater Permit (hereinafter referred to as “permit”) which authorizes permittees to discharge to waters in Washington in accordance with the special and general conditions listed in the permit. As owners and operators of regulated small MS4s, Douglas County, Chelan County, City of Wenatchee, and City of East Wenatchee are required to obtain coverage under the permit. The permit, which expires on February 15, 2012, contains certain requirements that must be met throughout its duration, one of which is a requirement that MS4s implement a stormwater management program (SWMP) that is composed of six minimum control measures:

- Public education and outreach
- Public involvement and participation
- Illicit discharge detection and elimination
- Construction site stormwater runoff control
- Post-construction stormwater management for new development and redevelopment
- Pollution prevention and good housekeeping for municipal operations

The Wenatchee Valley Stormwater Advisory Committee (WVSTAC) was formed as a cooperative effort to address the requirements of the permit and to collaborate on regional stormwater issues. The committee, which is comprised of agency representatives from Douglas County, Chelan County, City of Wenatchee, and City of East Wenatchee, was formed under an interlocal agreement among the jurisdictions. In 2005, the WVSTAC submitted an application on behalf of the jurisdictions for funding to Ecology’s Phase II Municipal Stormwater Grants Program, which Ecology established to provide financial assistance for communities to comply with permit requirements. Having demonstrated financial need, the WVSTAC received an Ecology grant in 2006, which Douglas County administered on behalf of the group.

The objectives of the grant include: 1) coordination with local agencies; 2) professional review of existing stormwater programs; 3) development of a public involvement program; 4) development of a draft SWMP; and 5) development of administrative policies and procedures. The deliverable identified in the grant was a draft regional SWMP that identifies the implementation costs for regional stormwater management activities.

This report is a dynamic document that provides a description of the Wenatchee Valley SWMP. Relevant documents described in this report are provided in the appendices. The companion document to this Volume (Volume I) is Volume II, which contains preliminary working drafts of programs, ordinances, etc. being prepared by the WVSTAC for the SWMP. These drafts will be

available for public review through the public involvement efforts described in Section 4.2, and approved documents will be incorporated into Volume I as they are completed.

## **2.0 Stormwater Utilities**

### **2.1 Chelan County**

Chelan County's stormwater utility was created in 2008 to manage stormwater needs in the developing areas around the City of Wenatchee. The utility is funded through a service fee on all developed properties containing impervious surfaces. One of the initial actions of the stormwater utility will be to inventory all the existing drainage system needs and develop an overall improvement plan.

### **2.2 City of Wenatchee**

The City of Wenatchee's storm drain system, which has 14 outfalls to the Columbia River, was first installed in 1952 and includes over 100 miles of drainage pipe. The City's stormwater utility was established in 1994. Rates are primarily used to fund capital improvement projects and maintenance of the stormwater system. Through the utility, the City of Wenatchee has completed capital improvement projects in flood-prone areas.

### **2.3 Douglas County and City of East Wenatchee**

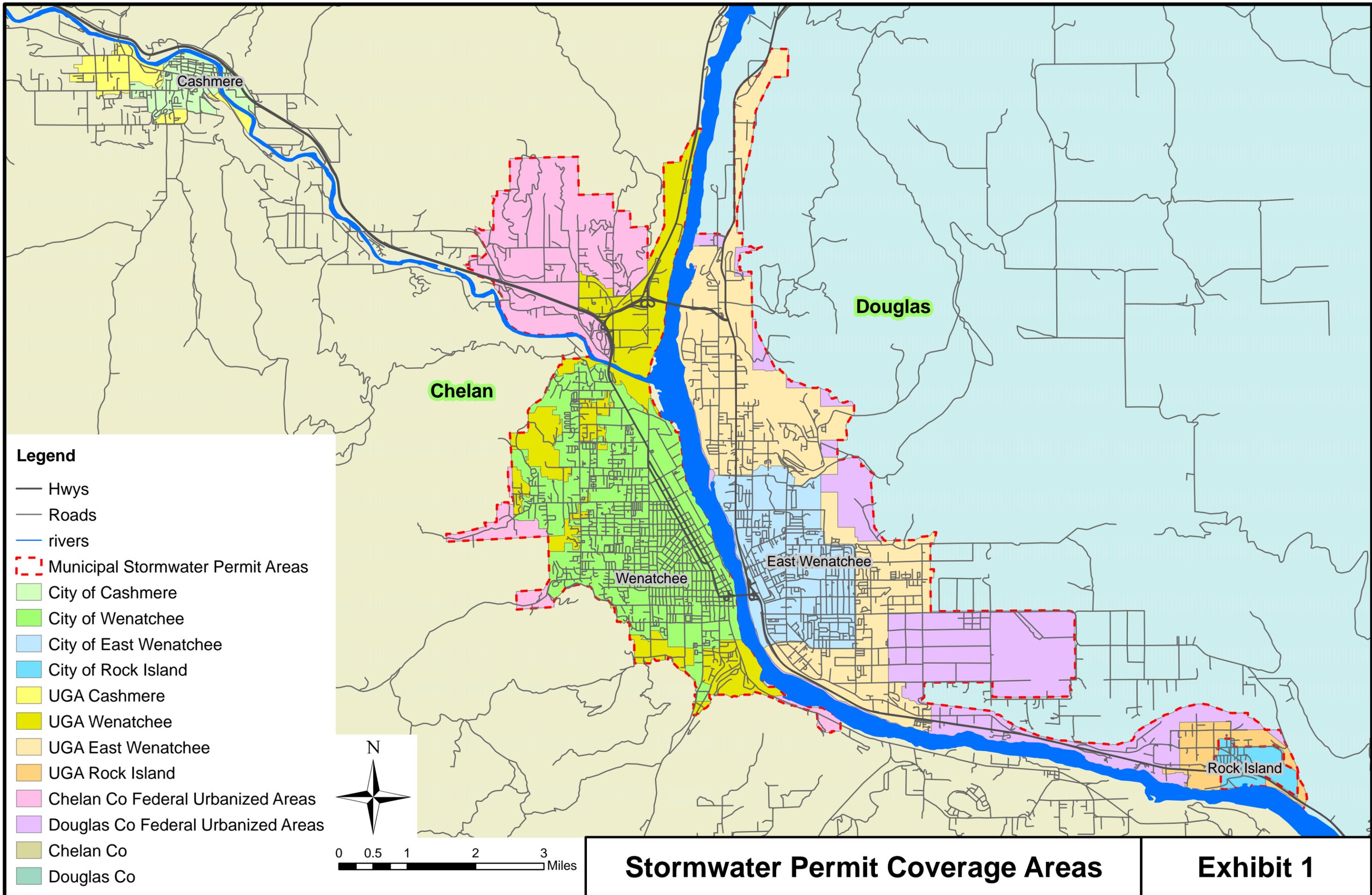
The permit coverage areas of the City of East Wenatchee and Douglas County are served by the Greater East Wenatchee Storm Water Utility.

The utility was established to create an entity that, working cooperatively with Douglas County, would be responsible for all publicly owned storm water facilities within the greater East Wenatchee urban area. The utility provides funding for the construction of needed storm water improvements, as well as operation and maintenance of all existing and planned storm water facilities. Through the utility, East Wenatchee and Douglas County have completed capital improvement projects in flood-prone areas.

## **3.0 Permit Coverage Area**

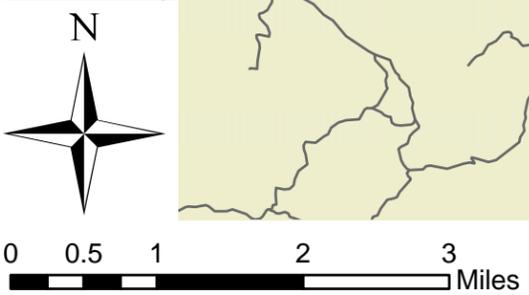
The permit is applicable to owners or operators of regulated small MS4s located in eastern Washington State. For all cities required to obtain coverage under this permit, the permit coverage area is the entire incorporated area of the city. For all counties required to obtain coverage under this permit, the permit coverage area is the urbanized areas and the urban growth areas associated with cities within the urbanized areas that are under the jurisdictional control of the county. The geographic area of coverage also includes any urban growth areas that are contiguous to urbanized areas under County jurisdictional control. Owners and operators within the permit coverage area that are not exempted under special conditions of the permit must apply for and obtain coverage under the permit and must comply with the conditions of the permit.

The permit coverage areas for Douglas County, Chelan County, City of Wenatchee, and City of East Wenatchee ("Cities and Counties") are shown in Exhibit 1. The city limits of Rock Island were excluded from the permit coverage area because, at the time of Ecology's decision, the City did not have a population of 1,000. The urban growth area and census defined urban area for Rock Island, however, are included in Douglas County's permit coverage area. Douglas County has the largest permit coverage area, while the City of East Wenatchee has the smallest (Table 1). The City of Wenatchee has the largest number of housing units, while Chelan County has the least (Table 1). The



**Legend**

- Hwys
- Roads
- rivers
- - - Municipal Stormwater Permit Areas
- City of Cashmere
- City of Wenatchee
- City of East Wenatchee
- City of Rock Island
- UGA Cashmere
- UGA Wenatchee
- UGA East Wenatchee
- UGA Rock Island
- Chelan Co Federal Urbanized Areas
- Douglas Co Federal Urbanized Areas
- Chelan Co
- Douglas Co



**Stormwater Permit Coverage Areas**

**Exhibit 1**

area of each jurisdiction’s permit coverage area and the number of housing units in each jurisdiction’s permit coverage area is presented in Table 1.

<b>Table 1 Permit Coverage Area and Number of Housing Units in the Permit Coverage Area</b>		
<b>Jurisdiction</b>	<b>Number of Housing Units in Permit Coverage Area</b>	<b>Permit Coverage Area (acres)</b>
Chelan County	2,153	6,017
City of Wenatchee	12,177	4,947
Douglas County	4,745	10,772
City of East Wenatchee	4,866	2,438

#### **4.0 NPDES Phase II Permit SWMP Requirements**

As discussed in Section 1.0, the permit requires owners or operators of regulated MS4s located in eastern Washington State to develop a SWMP by August 19, 2011. The Cities and Counties have joined to develop a SWMP that will consist of collaborative efforts among the jurisdictions in addition to individual activities to meet permit requirements. Douglas County will be the lead on tracking regional program requirements, while each jurisdiction will track their own individual efforts. Program activities are defined in terms of regional, semi-regional, and local efforts:

- Regional efforts are collaborative efforts between the four jurisdictions or have shared funding arrangements between the four jurisdictions
- Semi-regional efforts are collaborative efforts between jurisdictions or have shared funding arrangements between two or three of the jurisdictions
- Local efforts are completed individually by each jurisdiction

A summary of the regional, semi-regional, and local SWMP elements is presented in Table 2, along with their permit compliance dates. Prior to the development of this program description, the region addressed stormwater activities within individual jurisdictions at varying levels of activity. Efforts by one or more of the jurisdictions include storm drain stenciling, illicit discharge detection, and educational efforts. These past efforts will be incorporated into the SWMP.

This section outlines the Wenatchee Valley SWMP and its implementation. The Cities and Counties will meet the requirements for the SWMP along with extra efforts to meet their individual program needs. Cost summaries for each of the SWMP measures are also provided in the following sections (see Appendix A for detailed cost information). SWMP costs will be incurred both regionally and locally. Regional costs will be shared between the Cities and Counties. Some regional costs have been funded through grant funding referenced in Section 1.0. In Tables 3 through 13, regional costs are identified; however these are included in local costs. Costs for activities completed on the local or semi-regional level are incurred locally; they are not included in regional costs. Each City and County will track their individual costs while a designated lead will track regional costs and provide this information to the other jurisdictions for inclusion into their annual reports.

##### **Stormwater Management Program Estimated Costs**

Table 3 presents the estimated summary costs for the SWMP, organized by jurisdiction. Costs include the permit fee, developing the SWMP framework, addressing planning requirements, providing SWMP updates, and tracking program costs.

Table 2 SWMP Summary

NPDES Phase II Basic Requirements		Permit Compliance Date	Regional	Semi- Regional	Local	Description
<b>S5.A Stormwater Management Program</b>						
S5.A.2	SWMP fully developed and implemented	08/19/11	X			
S5.A.3	SWMP Annual Updates	Annually	X			
S5.A.4	SWMP Planning Requirements	04/17/07	X			Douglas County will be the lead for the group.
S5.A.4.a.ii	Track program costs	01/01/09	X	X	X	
<b>S5.B.1 Public Education and Outreach</b>						
S5.B.1.a	Identify and characterize target audiences	02/15/10	X		X	Each City/County will maintain its own list. The updated lists will be combined annually into one regional list.
S5.B.1.b	Public Education and Outreach Strategy	08/19/11	X			Wenatchee will be the point of contact for general program questions.
	Create a web site to support outreach	Optional	X		X	A regional website that will be hosted by Wenatchee. Each City/County will have information on its own website and provide a link to the regional website.
	Web site maintenance and management	As needed	X		X	Each City/County will update its own website and Wenatchee will update the regional website.
	Implement Public Education and Outreach Strategy	08/19/11			X	
	Develop and distribute outreach materials	As needed	X		X	Materials will be developed regionally but distributed locally.
<b>S5.B.2 Public Involvement and Participation</b>						
S5.B.2.a	Develop and adopt Public Input Program or Policy Directive	02/16/08	X			

**Table 2 SWMP Summary**

NPDES Phase II Basic Requirements		Permit Compliance Date	Regional	Semi-Regional	Local	Description
S5.B.2.b	Provide Updated SWMP to public (annually after)	05/31/08	X		X	
	Implement Public Involvement and Participation Program				X	
	Post Updated SWMP on website	As needed	X			The updated SWMP will be posted on the regional website.
<b>S5.B.3 Illicit Discharge Detection and Elimination (IDDE)</b>						
S5.B.3.a.i	MS4 Map- 1/3 complete	02/15/10		X	X	This is a semi-regional task for Douglas County and East Wenatchee. Chelan County and Wenatchee are completing this requirement locally.
S5.B.3.a.i	MS4 Map- 2/3 complete	02/15/11		X	X	This is a semi-regional task for Douglas County and East Wenatchee. Chelan County and Wenatchee are completing this requirement locally.
S5.B.3.a.i	MS4 Map- Fully complete	02/15/12		X	X	This is a semi-regional task for Douglas County and East Wenatchee. Chelan County and Wenatchee are completing this requirement locally.
S5.B.3.a.ii	Verify and Identify Outfalls	08/19/11			X	
S5.B.3.b.i	Develop and adopt IDDE Ordinance	08/04/09	X		X	Regional template which will be individually tailored for each City/County.
S5.B.3.c	Develop and implement IDDE detection program	08/19/11	X		X	Program will be developed regionally and enforced locally.

**Table 2 SWMP Summary**

NPDES Phase II Basic Requirements		Permit Compliance Date	Regional	Semi-Regional	Local	Description
S5.B.3.c.ii	Prioritize receiving waters to identify outfalls likely to have non-stormwater discharges	02/15/10			X	
S5.B.3.c.ii	Field assessment of 3 high priority waters	02/15/11			X	
S5.B.3.c.ii	Annual field assessment of 1 high priority waters	02/15/12			X	
S5.B.3.c.iii	Develop IDDE Procedures	08/19/11	X		X	Regional template will be individually tailored for each City/County.
S5.B.3.d.i	Distribute information to Target Audiences	08/19/11	X		X	Each City/County will maintain its own list. The updated lists will be combined annually into one regional list.
S5.B.3.d.ii	Establish hotline and publicize IDDE hazards	02/15/09	X			Regional hotline possibly using a contracted service provider.
S5.B.3.e	Adopt procedures for IDDE Program assessment	08/19/11			X	
S5.B.3.f-g	Provide training to IDDE staff and municipal field staff	08/19/11	X		X	General training will be regional. Specific enforcement training will be local.
<b>S5.B.4 Construction Site Stormwater Runoff Control</b>						
S5.B.4.a	Develop Construction site stormwater ordinance and standards	02/15/10	X		X	Regional draft ordinance will be customized for use locally.
S5.B.4.b	Implement process for site plan review	02/15/11			X	
S5.B.4.b.ii	Provide site plan review, inspection and enforcement training	02/15/11	X		X	Developed regionally and implemented locally.
S5.B.4.c	Implement process for site inspection and enforcement	02/15/11			X	

**Table 2 SWMP Summary**

NPDES Phase II Basic Requirements	Permit Compliance Date	Regional	Semi- Regional	Local	Description
S5.B.4.d	Provide TESC information to construction site operators 02/16/07	X		X	Developed regionally and distributed locally.
<b>S.5.B.5 Post-Construction Stormwater Management for New Development and Redevelopment</b>					
S5.B.5.a	Develop Post-construction site stormwater ordinance and standards 02/15/10	X		X	Developed regionally and customized locally.
S5.B.5.b	Implement process for site plan review 02/15/11			X	
S5.B.5.c	Provide for inspection and enforcement 02/15/11	X		X	Developed regionally and implemented locally.
S5.B.5.d	Provide site plan review, inspection and enforcement training 02/15/11	X		X	Developed regionally and implemented locally.
S5.B.5.e	Provide information to design professionals 02/16/07	X		X	Developed regionally and distributed locally.
S5.B.5.f	Annual Recordkeeping requirements of construction sites >1 acre 02/15/10			X	
<b>S5.B.6 Pollution Prevention and Good Housekeeping for Municipal Operations</b>					
S5.B.6.a	Develop Operations and Maintenance Plan for Municipal activities and facilities 02/15/10	X		X	Developed regionally and implemented locally.
S5.B.6.a.i	Implement O&M practices for municipal stormwater collection system components 08/19/11	X	X	X	Developed regionally and implemented locally. Douglas County and East Wenatchee have proposed sharing a vector.
S5.B.6.a.i	Implement O&M practices for roads, highways and parking lots 08/19/11	X		X	Developed regionally and implemented locally.
S5.B.6.a.i	Implement O&M practices for Vehicle fleet activities 08/19/11	X		X	Developed regionally and implemented locally.
S5.B.6.a.i	Implement O&M practices for municipal building maintenance activities 08/19/11	X		X	Developed regionally and implemented locally.

**Table 2 SWMP Summary**

NPDES Phase II Basic Requirements		Permit Compliance Date	Regional	Semi-Regional	Local	Description
S5.B.6.a.i	Implement O&M practices for parks and open space activities	08/19/11	X		X	Developed regionally and implemented locally.
S5.B.6.a.i	Implement Appendix I for new construction	02/16/07			X	
S5.B.6.a.i	Develop and implement Stormwater Prevention Pollution Plan for municipal storage and maintenance areas	08/19/11			X	
S5.B.6.a.i	Implement provisions for assessing Flood Management projects	08/19/11			X	
S5.B.6.a.ii	Conduct 2 inspections of 95% of known municipal facilities	02/15/12			X	The first inspection no later than three years from the effective date of the permit.
S5.B.6.b	Provide O&M training to municipal staff	02/15/10	X		X	O&M training for general facilities may be developed regionally, but individual City/County training would be done locally.
<b>S7 Total Maximum Daily Load (TMDL) Requirements</b>						
S5.B.7.C	Participate in future TMDL development.			X	X	
<b>S8 Monitoring</b>						
S8.A	Provide for monitoring on as needed basis	As needed		X		A monitoring plan will be developed on a semi-regional basis.
S8.B	Annual Recordkeeping requirements of monitoring activities	02/17/07		X		
S8.C.1	Prepare for future, long-term monitoring	12/31/10		X		
S8.C.2	Prepare monitoring element within Fourth Annual Report	03/31/12		X		
<b>S9 Reporting Requirements</b>						
S.9.A	Prepare Annual Report of All SWMP Activities (Appendix 3)	Annually	X		X	Initial start-up will be a regional effort. Afterward there will be ongoing local requirements with regional elements.

**Table 2 SWMP Summary**

NPDES Phase II Basic Requirements	Permit Compliance Date	Regional	Semi- Regional	Local	Description
Develop recordkeeping system to track SWMP activities and expenditures	02/16/07	X		X	
<b>Other Programmatic Stormwater Considerations- Unregulated by NPDES Phase II</b>					
Update stormwater comprehensive plan	Optional				Efforts will be planned locally.
Delineate stormwater service area	Optional			X	Service areas have been mostly delineated.
Document historic stormwater issues and problems	Optional			X	
Conduct a condition assessment of existing stormwater system	Optional		X	X	
Implement or conduct an assessment of stormwater rates and charges	Optional		X	X	
Develop and/or amend Annual, 6-year and 20-year capital plans	Optional			X	
Develop and/or amend UIC Program	Optional		X	X	This will be a semi-regional effort for East Wenatchee and Douglas County and a local effort for Wenatchee and Chelan County.

<b>Jurisdiction</b>	<b>Already Spent</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012+</b>	<b>Total</b>
Douglas County	\$69,808	\$20,658	\$20,658	\$20,658	\$20,658	\$20,658	\$173,099
Chelan County	\$63,338	\$17,250	\$17,250	\$17,250	\$17,250	\$17,250	\$149,591
City of Wenatchee	\$76,044	\$24,964	\$24,964	\$24,964	\$24,964	\$24,964	\$200,866
City of East Wenatchee	\$68,543	\$18,661	\$18,661	\$18,661	\$18,661	\$18,661	\$161,850
<b>Subtotal</b>	<b>\$277,733</b>	<b>\$81,534</b>	<b>\$81,534</b>	<b>\$81,534</b>	<b>\$81,534</b>	<b>\$81,534</b>	<b>\$685,406</b>
Regional <sup>1</sup>	\$168,000	\$14,000	\$14,000	\$14,000	\$14,000	\$14,000	\$238,000

1. Regional costs are included in individual jurisdiction costs.

#### **4.1 Public Education and Outreach (Permit Requirement S5.B.1)**

The permit requires that the Cities and Counties identify and characterize target audiences and develop a public education and outreach program.

To comply with permit requirements, the WVSTAC has prepared a plan describing the public education and outreach program for the SWMP (provided in Appendix B1). The Cities and Counties will develop and implement public education and outreach activities regionally and at the local level. For regional efforts, the City of Wenatchee will serve as the lead point of contact.

The main components of the public education and outreach program include the development of a website and the distribution of public education materials. The Cities and Counties will create a regional website that will provide information about the SWMP to the public as well as educational materials. The website will be hosted and updated as necessary by the City of Wenatchee. Each City and County will provide a link to the regional website on their respective individual websites.

The Cities and Counties will cooperate regionally and semi-regionally to develop public education materials to inform the public about general stormwater issues and illicit discharges. Such materials include a general stormwater informational brochure, a stormwater brochure addressing construction, illicit discharge brochures for households and for commercial businesses, and a regional display board to be used at public events. An optional effort in the public education and outreach plan includes partnering with schools to provide stormwater educational materials and presentations.

Each City and County will maintain a target audience list that they will contact for public education and outreach efforts. The individual lists will be combined annually into one regional list to identify shared contacts. Each City and County will be responsible for communicating to their respective target audiences, except for shared contacts, which will be contacted at the regional or semi-regional level to avoid duplicative efforts.

Other public education and outreach components include storm drain stenciling and media involvement. Details of these activities, as well as an implementation schedule, are provided in Appendix B1.

#### **Public Education and Outreach Estimated Costs**

Table 4 presents public education and outreach estimated costs. Douglas County, Chelan County, and City of East Wenatchee will each spend between \$118,000 and \$124,000 on public education and outreach efforts, while the City of Wenatchee will spend close to \$182,000. Costs are somewhat proportional to the jurisdictions' population, as this affects the quantity of educational materials that must be produced and distributed. Regional costs, which include website maintenance and the development of educational materials, total approximately \$27,000. Payment for the regional effort is included in the local costs.

<b>Jurisdiction</b>	<b>Already Spent</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012+</b>	<b>Total</b>
Douglas County	\$27,637	\$20,312	\$18,812	\$18,812	\$18,812	\$18,812	\$123,197
Chelan County	\$26,705	\$19,646	\$18,146	\$18,146	\$18,146	\$18,146	\$118,937
City of Wenatchee	\$59,478	\$25,569	\$24,069	\$24,069	\$24,069	\$24,069	\$181,321
City of East Wenatchee	\$26,705	\$19,646	\$18,146	\$18,146	\$18,146	\$18,146	\$118,937
<b>Subtotal</b>	<b>\$140,524</b>	<b>\$85,173</b>	<b>\$79,173</b>	<b>\$79,173</b>	<b>\$79,173</b>	<b>\$79,173</b>	<b>\$542,392</b>
Regional <sup>1</sup>	\$11,500	\$3,000	\$3,000	\$3,000	\$3,000	\$3,000	\$26,500

1. Regional costs are included in individual jurisdiction costs.

## 4.2 Public Involvement and Participation (S5.B.2)

The permit requires jurisdictions to satisfy the public involvement and participation criteria by providing ongoing opportunities for public involvement and participation. To comply with this requirement, jurisdictions must:

- Create a policy that outlines how the public can participate in drafting the SWMP
- Develop and implement a process for gathering public comments on the SWMP
- Make the latest updated version of the SWMP available to the public

To address the permit requirements, the WVSTAC prepared a plan that describes the process for public involvement and participation throughout the permit duration (Appendix B1). According to the plan, public involvement will be facilitated by:

- **Steering committee and planning unit briefings:** The WVSTAC will organize a steering committee representing different community interests to provide comments and suggestions during program development and throughout the permit duration. Steering committee by-laws are provided in Appendix B2. It is anticipated that members of the steering committee would represent the following interests/organizations:
  - Legislative body members or Planning Commission
  - Home Builders Association
  - Chamber of Commerce
  - Environmental organization
  - Land trust
  - Professional engineer
  - Developer/contractor
  - Citizen or local business (at large)
  - Recreation

The WVSTAC will meet with the steering committee and with the WRIA 40A, WRIA 45, and WRIA 44/50 watershed planning units to discuss the updated draft SWMP and to provide an opportunity for comments and suggestions.

- **Public Open Houses:** An open house will be held to provide information to the public about the SWMP and as a mechanism to receive public comments. A regional open house will be held in early 2008. Additional open houses, with a similar format, will be scheduled at

various stages to ensure ongoing citizen involvement during the development of ordinances and other official controls relating to the stormwater program.

- **Public Hearings:** Public hearings will be held prior to the adoption of ordinances that will be created to implement the SWMP and prior to the adoption of the final SWMP. Each jurisdiction will adopt the SWMP individually.

The public will be able to provide comments on the SWMP at open houses and public hearings, as well as in writing. All public comments will be considered by the WVSTAC. Douglas County will be the point of contact representing the WVSTAC for public involvement and participation activities.

The NPDES Municipal permit requires that the updated SWMP be provided to the public by May 31, 2008 and every year thereafter throughout the duration of the permit. The process for the annual review and update will consist of an evaluation of the effectiveness of the program in addition to public hearings to adopt updates:

- The WVSTAC will develop an annual report to identify the successes of the SWMP and opportunities for improvement
- The WVSTAC will present their findings and recommendations to the steering committee
- The WVSTAC will present their recommendations and updates to their respective commissions and councils
- Any proposed SWMP updates will be prepared and made available to the public through the website and targeted mailings
- Hearings will be held to receive public input on the updates
- The updates will be adopted by each jurisdiction

**Public Involvement and Participation Estimated Costs**

Table 5 presents public involvement and participation estimated costs. Costs for public involvement and participation range from approximately \$38,000 for City of East Wenatchee to \$51,000 for the City of Wenatchee. Regional costs, which include steering committee and planning unit briefings and public open houses, total approximately \$8,000. Payment for the regional effort is included in the local costs.

Table 5 Public Involvement and Participation Estimated Costs							
Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$13,312	\$5,325	\$5,325	\$5,325	\$5,325	\$5,325	\$39,936
Chelan County	\$12,818	\$6,289	\$6,323	\$6,323	\$6,323	\$6,323	\$44,400
City of Wenatchee	\$9,784	\$6,989	\$8,387	\$8,387	\$8,387	\$8,387	\$50,319
City of East Wenatchee	\$12,646	\$5,059	\$5,059	\$5,059	\$5,059	\$5,059	\$37,939
<b>Subtotal</b>	<b>\$48,561</b>	<b>\$23,661</b>	<b>\$25,093</b>	<b>\$25,093</b>	<b>\$25,093</b>	<b>\$25,093</b>	<b>\$172,595</b>
Regional <sup>1</sup>	\$8,000	\$0	\$0	\$0	\$0	\$0	\$8,000

1. Regional costs are included in individual jurisdiction costs.

**4.3 Illicit Discharge Detection and Elimination (S5.B.3)**

The permit requires that each permittee develop, implement, and enforce a program to detect and eliminate illicit discharges into the MS4. The WVSTAC has developed a draft regional Illicit Discharge Detection and Elimination (IDDE) program to detect and address non-stormwater discharges to the MS4, which is provided in Appendix C1. The IDDE program, which will be

adopted by each City and County individually, is comprised of the following measures to address permit requirements:

- **MS4 Mapping and Outfalls:** Douglas County will complete the mapping of their MS4s and the City of East Wenatchee's MS4s as a function of the joint Greater East Wenatchee Storm Water Utility, administered by the City of East Wenatchee and Douglas County. Chelan County and City of Wenatchee have already completed this requirement. Each City and County will complete verification and identification of outfalls at the local level. Mapping is maintained and updated electronically by each individual jurisdiction, as needed.
- **IDDE Ordinance or Resolution:** The Cities and Counties will adopt an IDDE ordinance or resolution to prohibit certain non-stormwater discharges into the MS4. The WVSTAC has completed a draft ordinance, which upon completion will be used as a draft template by the jurisdictions to develop their ordinances (Appendix C2). The ordinances will establish the legal authority to carry out inspection, surveillance, monitoring, and enforcement procedures necessary to ensure compliance with the ordinance. Each City and County will adopt their ordinances individually.

**Enforcement:** Based on the ordinance or resolution, each City and County will develop and implement an Enforcement Action Plan. Enforcement of ordinances and resolutions will be handled locally.

Escalating enforcement actions could include:

1. A verbal or written warning: A verbal or written notice to the owner of the identified illicit discharge. This warning gives the owner an appropriate timeframe to fix the problem and notify the owner of potential penalties if the discharge is not eliminated by this time.
  2. Administrative action: This requires elimination of the discharge but does not assess any fines or penalties. Similar to a warning, the action specifies a timeframe to correct the problem.
  3. Administrative action with a fine and/or cost recovery: An administrative action with a financial penalty assessed against the owner. Also, this could include the recovery of cleanup and abatement costs.
  4. Legal action: Any action that brings the owner into the court system, including a formal citation or civil/criminal actions.
- **Illicit Discharge Detection Plan:** A regional illicit discharge detection plan to find, identify, and eliminate unknown pollutant discharges to the storm drainage system will be developed regionally. Each City and County will individually prioritize receiving waters to identify outfalls likely to have non-stormwater discharges and complete field assessments of high priority waters within their respective permit coverage areas. The plan will also include procedures to characterize any discharges found, trace an illicit discharge, and to end the discharge. Each City and County will visually inspect for illicit discharges throughout the permit duration.
  - **Illicit Discharge Spill Response Plan:** A regional discharge spill response plan that will identify appropriate actions when a spill occurs will be developed for use at the local level. The plan will include recordkeeping and reporting requirements so that each spill, the response, and the outcome is tracked. The Cities and Counties will track spills and discharges regionally. The WVSTAC developed a stormwater complaint form to record incident reports (Appendix C3). The plan will coordinate with Ecology's Spill Response Program.

- Public Education:** As part of their public education and outreach efforts, each City and County will compile their own target audience list of people and businesses that should receive illicit discharge educational materials. This list will be a subset of the larger target audience list described in Section 3.1. Each City and County will be responsible for communicating to their respective target audiences, except for shared contacts which will be contacted at the regional or semi-regional level to avoid duplicative efforts. As discussed in Section 3.1, public education materials will be developed regionally and semi-regionally. Educational materials related to illicit discharges include a best management practice (BMP) brochure for homeowners and one for commercial businesses (further details are provided in Appendix B1).

It is anticipated that a regional hotline will be created for the public to report spills and other illicit discharges. The hotline may be administered by a contracted service provider. A call log will be kept for inclusion into the annual report. The hotline will be publicized in the regional educational materials.

- Staff Training:** General training for City and County municipal staff (including office and field staff) responsible for the identification, investigation, termination, cleanup, and reporting of illicit discharges, will be developed and administered regionally. Enforcement training specific to the Cities and Counties will be given to staff at the local level.

The IDDE program will be evaluated annually and a summary of the evaluation will be included in the jurisdictions' annual reports. The IDDE program will be assessed using information from illicit discharge/spill reports, inspections reports, and feedback from public education efforts.

#### Illicit Discharge Detection and Elimination Estimated Costs

Table 6 presents IDDE estimated costs. IDDE costs are highest for Chelan County and the City of Wenatchee, which have an estimated total of approximately \$280,000 and \$273,000 respectively over the duration of the permit. Douglas County and City of East Wenatchee have significantly lower costs at approximately \$176,000 and \$169,000 respectively. The City of Wenatchee's cost is proportional to the larger area needing IDDE coverage and larger population and number of businesses. Chelan County's larger cost is due to their larger estimated mapping costs. Regional costs, which include the development of an IDDE ordinance and IDDE response plan, development of a regional hotline, tracking illicit discharges, and staff training, total approximately \$112,000. Payment for the regional effort is included in the local costs.

Table 6 Illicit Discharge Detection and Elimination Estimated Costs							
Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$30,618	\$15,518	\$22,174	\$16,850	\$47,305	\$43,311	\$175,776
Chelan County	\$99,907	\$20,176	\$26,499	\$21,440	\$51,762	\$59,350	\$279,134
City of Wenatchee	\$23,762	\$14,784	\$21,773	\$16,182	\$100,354	\$96,161	\$273,017
City of East Wenatchee	\$29,087	\$15,052	\$21,376	\$16,317	\$45,375	\$41,581	\$168,787
<b>Subtotal</b>	<b>\$183,373</b>	<b>\$65,531</b>	<b>\$91,822</b>	<b>\$70,789</b>	<b>\$244,796</b>	<b>\$240,403</b>	<b>\$896,714</b>
Regional <sup>1</sup>	\$0	\$20,000	\$20,000	\$20,000	\$26,000	\$26,000	\$112,000

1. Regional costs are included in individual jurisdiction costs.

#### 4.4 Construction Site Stormwater Runoff Control (S5.B.4)

The permit requires that all permittees develop, implement, and enforce a program to reduce pollutants in any stormwater runoff to the MS4 from construction activities that disturb one acre or more, and from construction projects of less than one acre that are part of a common plan of

development or sale. The regional construction site runoff control program that addresses the requirements of the permit is provided in Appendix D1. In order to comply with the permit, the construction program requires the measures discussed in this section.

The Cities and Counties will each adopt a construction site stormwater ordinance using the ordinance prepared by the WVSTAC as a template (Appendix D2). The ordinance will require erosion and sediment controls in compliance with the Stormwater Management Manual for Eastern Washington and other construction-phase stormwater pollution controls at new development and redevelopment projects. The Enforcement Action Plan prepared for the IDDE program will also be followed for the construction site stormwater runoff control ordinance.

Each City and County will adopt and implement procedures for site plan review that incorporate consideration of potential water quality impacts. Each will also adopt procedures for site inspection and enforcement of construction stormwater pollution control measures. All new construction sites that disturb one acre or more, or are part of a common plan of development or sale will be inspected at least once. To comply with these provisions of the permit, each City and County will keep records of appropriate projects and of inspections and enforcement actions. The WVSTAC developed a construction stormwater complaint form to document stormwater incidents, which can be customized and used by all the Cities and Counties (Appendix D3). These records will be combined and summarized for inclusion into the annual report. Staff training for site plan review, inspection, and enforcement will be developed regionally but administered at the local level.

Information will be provided to construction site operators throughout the permit duration on how to install and maintain effective erosion and sediment controls and how to comply with permit requirements. The WVSTAC developed an Erosion Control and Sediment Management flyer that is used regionally to make construction operators aware of new erosion control requirements (provided in Appendix D4). A targeted stormwater education brochure for construction contractors and developers will also be developed regionally and distributed locally to permit applicants within the coverage area. In addition, the public can provide the Cities and Counties with information about construction site runoff issues via the regional public hotline discussed in Section 3.3. The public hotline will serve multiple functions.

### Construction Site Stormwater Runoff Control Estimated Costs

Table 7 presents construction site stormwater runoff control estimated costs. Construction site stormwater runoff control costs range from approximately \$240,000 to \$265,000 for Douglas County, City of Wenatchee, and City of East Wenatchee. Chelan County has the lowest cost for this measure as they already have an inspection process in place. The costs for construction site stormwater runoff control efforts are also dependant upon the number of site plans reviewed by each jurisdiction. Regional costs, which include the development of an ordinance and staff training, total approximately \$82,000. Payment for the regional effort is included in the local costs.

Table 7 Construction Site Stormwater Runoff Control Estimated Costs							
Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$3,662	\$1,831	\$18,487	\$78,547	\$81,210	\$81,210	\$264,947
Chelan County	\$4,794	\$1,765	\$16,823	\$41,939	\$41,939	\$41,939	\$149,199
City of Wenatchee	\$5,796	\$2,898	\$19,887	\$70,695	\$70,695	\$70,695	\$240,664
City of East Wenatchee	\$3,529	\$1,765	\$18,088	\$74,820	\$77,349	\$77,349	\$252,900
<b>Subtotal</b>	<b>\$17,781</b>	<b>\$8,258</b>	<b>\$73,285</b>	<b>\$266,001</b>	<b>\$271,193</b>	<b>\$271,193</b>	<b>\$907,710</b>
Regional <sup>1</sup>	\$0	\$0	\$40,000	\$14,000	\$14,000	\$14,000	\$82,000

1. Regional costs are included in individual jurisdiction costs.

## 4.5 Post-construction Stormwater Management for New Development and Redevelopment (S5.B.5)

The permit requires that all permittees develop, implement, and enforce a program to address post-construction stormwater runoff to the MS4 from new development and redevelopment projects. These permit requirements will be addressed similarly to those for construction site stormwater runoff control, or when appropriate, pre-construction and post-construction stormwater management activities will be addressed simultaneously.

Each City and County will tailor and adopt a post-construction site stormwater ordinance developed regionally. The post-construction site stormwater ordinance will be combined with the construction ordinance described in Section 3.4 (provided in Appendix D2), and will require construction operators to install and maintain post-construction runoff controls in compliance with the Stormwater Management Manual for Eastern Washington. The Enforcement Action Plan prepared for the IDDE program will also address post-construction erosion and sediment controls (see Section 4.3).

A regional plan will be developed to address post-construction stormwater runoff during the plan review, construction inspection, and post-construction maintenance inspection process. Each City and County will adopt and implement procedures for site plan review which incorporates consideration of potential water quality impacts. Each will also adopt procedures for site inspection and enforcement of post-construction stormwater pollution control measures. To comply with these provisions of the permit, each City and County will keep records of appropriate projects and of inspections and enforcement actions. These records will be combined and summarized for inclusion into the annual report. Staff training for site plan review, inspection, and enforcement will be developed regionally but administered at the local level.

Information will be provided to construction site operators on applying BMPs and how to comply with permit requirements throughout the permit duration. The same educational materials utilized for the construction site stormwater runoff control will be used for this measure. In addition, the public can provide the Cities and Counties with information about post-construction site runoff issues via the regional public hotline.

### Post-construction Stormwater Management Estimated Costs

Table 8 presents post-construction stormwater management estimated costs. Post-construction costs are estimated at approximately \$220,000 for Chelan County and City of Wenatchee and about \$184,000 and \$189,000 for Douglas County and City of East Wenatchee, respectively. As with construction site stormwater runoff control costs, costs are dependant upon the number of site plans reviewed by each jurisdiction. Regional costs, which include the development of an ordinance and staff training, total approximately \$102,000. Payment for the regional effort is included in the local costs.

Table 8 Post-construction Stormwater Management Estimated Costs							
Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$2,662	\$1,331	\$28,312	\$56,748	\$47,430	\$47,430	\$183,913
Chelan County	\$5,059	\$2,529	\$33,970	\$59,144	\$59,144	\$59,144	\$218,990
City of Wenatchee	\$2,796	\$1,398	\$24,784	\$63,604	\$63,604	\$63,604	\$219,789
City of East Wenatchee	\$2,529	\$1,265	\$27,646	\$54,086	\$51,556	\$51,556	\$188,639
<b>Subtotal</b>	<b>\$13,046</b>	<b>\$6,523</b>	<b>\$114,712</b>	<b>\$233,581</b>	<b>\$221,734</b>	<b>\$221,734</b>	<b>\$811,330</b>
Regional <sup>1</sup>	\$0	\$0	\$60,000	\$14,000	\$14,000	\$14,000	\$102,000

1. Regional costs are included in individual jurisdiction costs.

#### 4.6 Pollution Prevention and Good Housekeeping for Municipal Operations (S5.B.6)

The permit requires that permittees develop and implement an operation and maintenance (O&M) program for municipal operations that has the ultimate goal of preventing or reducing pollutant runoff from municipal operations. The Cities and Counties will develop a regional O&M plan that each jurisdiction can customize for their municipal operations (Appendix E). The O&M plan will include appropriate pollution prevention and good housekeeping procedures for all of the following types of facilities and/or activities:

- Stormwater collection and conveyance system
- Roads, highways, and parking lots
- Vehicle fleets
- Municipal building maintenance activities, including the development of stormwater pollution prevention plans
- Parks and open space activities
- Construction projects, including construction and post-construction controls selected and implemented pursuant to the requirements in Appendix 1 of the permit
- Industrial activities
- Material storage areas, heavy equipment storage areas, and maintenance areas
- Flood management projects
- Other facilities that would reasonably be expected to discharge contaminated runoff
- Two inspections of a minimum of 95% of all known stormwater treatment and flow control facilities owned, operated, or maintained by the Permittee

O&M activities will be implemented by the Cities and Counties at the local level. Also, equipment, including a vactor, is expected to be shared semi-regionally between East Wenatchee and Douglas County. O&M municipal staff training will be developed regionally; however training would be customized as necessary and administered locally.

#### **Pollution Prevention and Good Housekeeping for Municipal Operations Estimated Costs**

Table 9 presents pollution prevention and good housekeeping estimated costs. Pollution prevention and good housekeeping costs vary greatly between the Cities and Counties. Chelan County had the lowest costs of \$399,000. Douglas County and City of East Wenatchee had similar costs of about \$521,000 and \$506,000, respectively. The City of Wenatchee has the highest cost at approximately \$1 million. This cost difference can be partially attributed to the City of Wenatchee's plan for personnel and the purchase of major equipment. Regional costs, which include the development of an O&M plan and staff training, total approximately \$64,000. Payment for the regional effort is included in the local costs.

Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$7,987	\$153,994	\$35,462	\$20,137	\$154,282	\$148,665	\$520,526
Chelan County	\$3,794	\$2,529	\$26,676	\$17,940	\$175,023	\$172,493	\$398,455
City of Wenatchee	\$8,387	\$5,591	\$38,057	\$16,875	\$510,458	\$429,090	\$1,008,458
City of East Wenatchee	\$7,588	\$153,794	\$34,264	\$19,205	\$147,493	\$143,407	\$505,750
<b>Subtotal</b>	<b>\$27,756</b>	<b>\$315,908</b>	<b>\$134,458</b>	<b>\$74,157</b>	<b>\$987,256</b>	<b>\$893,654</b>	<b>\$2,433,190</b>
Regional	\$0	\$0	\$46,000	\$6,000	\$6,000	\$6,000	\$64,000

1. Regional costs are included in individual jurisdiction costs.

## 4.7 Other Permit Requirements

In addition to the required SWMP, the permit contains additional requirements, which are outlined below. These measures are also included in Table 2.

### 4.7.1 Total Maximum Daily Load Requirements (\$7)

A TMDL, or total maximum daily load, is the maximum amount of pollutant that a water body can receive and without exceeding water quality standards. In Washington State, “TMDL” also refers to the planning process where water bodies that do not meet water quality standards are studied and strategies to reduce pollutants are developed and implemented. The TMDL for the Wenatchee River is the only active TMDL process in the Cities’ and Counties’ permit coverage area affecting storm drainage. The City of Wenatchee and Chelan County will address this TMDL and participate in future TMDL development as a semi-regional effort. The City and County will develop specific BMPs to address discharges into the Wenatchee River for affected basins. East Wenatchee and Douglas County will participate in future TMDL development individually, as necessary.

#### TMDL Estimated Costs

Table 10 presents TMDL estimated costs. Since the only active TMDL process in the region is that for the Wenatchee River, East Wenatchee and Douglas County do not have any costs associated with TMDL requirements. Both City of Wenatchee and Chelan County each estimate about 1/20<sup>th</sup> of a full time employee (FTE) for start up and annual costs. There are no regional costs for this measure.

Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Chelan County	\$15,176	\$7,588	\$7,588	\$7,588	\$7,588	\$7,588	\$53,115
City of Wenatchee	\$6,989	\$6,989	\$6,989	\$6,989	\$6,989	\$6,989	\$41,933
City of East Wenatchee	\$0	\$0	\$0	\$0	\$0	\$0	\$0
<b>Subtotal</b>	<b>\$22,164</b>	<b>\$14,577</b>	<b>\$14,577</b>	<b>\$14,577</b>	<b>\$14,577</b>	<b>\$14,577</b>	<b>\$95,048</b>
Regional <sup>1</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

1. Regional costs are included in individual jurisdiction costs.

#### 4.7.2 Monitoring (S8)

Monitoring is a future requirement that the Cities and Counties are required to prepare for this permit cycle. Under the permit, the Cities and Counties must prepare for the following future monitoring requirements:

- **Stormwater monitoring:** Based on population, the Cities and Counties are required to identify two outfalls or conveyances by December 31, 2010 where the Cities and Counties could conduct stormwater sampling.
- **Targeted SWMP effectiveness monitoring:** By December 31, 2010, each City and County must prepare to conduct monitoring to determine the effectiveness of the SWMP measures by identifying at least two sites where monitoring would be conducted and developing a monitoring program to evaluate effectiveness.
- **Runoff treatment BMP effectiveness monitoring:** Based on population, the City of Wenatchee and Chelan County must prepare to conduct monitoring to evaluate the effectiveness of runoff treatment BMPs applied in their jurisdiction. They must prepare to monitor at least two BMPs.

The permit requires that the Cities and Counties describe the status of their monitoring efforts in the fourth annual report.

#### Monitoring Estimated Costs

Table 11 presents Monitoring costs. Monitoring costs will include the development of a future monitoring plan and the purchase of sampling or other equipment. Monitoring costs range from approximately \$20,000 to \$26,000 for all the Cities and Counties. There are currently no regional costs associated with monitoring, however regional costs may be identified in the future.

Table 11 Monitoring Estimated Costs							
Jurisdiction	Already Spent	2008	2009	2010	2011	2012+	Total
Douglas County	\$0	\$0	\$0	\$7,987	\$1,331	\$11,494	\$20,812
Chelan County	\$0	\$0	\$0	\$7,588	\$1,265	\$15,794	\$24,646
City of Wenatchee	\$0	\$0	\$0	\$4,193	\$2,796	\$18,296	\$25,284
City of East Wenatchee	\$0	\$0	\$0	\$7,588	\$1,265	\$11,294	\$20,146
<b>Subtotal</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>	<b>\$27,356</b>	<b>\$6,656</b>	<b>\$56,877</b>	<b>\$90,889</b>
Regional <sup>1</sup>	\$0	\$0	\$0	\$0	\$0	\$0	\$0

1. Regional Costs are included in individual jurisdiction costs.

#### 4.7.3 Reporting Requirements (S9)

Each jurisdiction will develop their individual annual report (see Appendix H1 for Ecology’s guidance for the preparation of annual reports) using Ecology’s hard-copy annual report template (Appendix H2) or Ecology’s annual report Excel file available at [www.ecy.wa.gov/programs/wq/stormwater/municipal/annual\\_reports.html](http://www.ecy.wa.gov/programs/wq/stormwater/municipal/annual_reports.html). Annual reports must be submitted to Ecology by March 31 for the previous calendar year. For regional efforts, the lead City or County for a particular activity will provide the other jurisdictions with information to be included in their individual annual reports. Each City and County currently has a system to track SWMP activities and expenditures.

## Reporting Estimated Costs

Table 12 presents reporting costs. Reporting costs range from approximately \$38,000 to \$41,000 for all the Cities and Counties. Regional costs are estimated at \$56,000. Payment for the regional effort is included in the local costs.

<b>Jurisdiction</b>	<b>Already Spent</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012+</b>	<b>Total</b>
Douglas County	\$9,325	\$5,994	\$5,994	\$5,994	\$5,994	\$5,994	\$39,293
Chelan County	\$9,059	\$5,794	\$5,794	\$5,794	\$5,794	\$5,794	\$38,028
City of Wenatchee	\$9,591	\$6,193	\$6,193	\$6,193	\$6,193	\$6,193	\$40,557
City of East Wenatchee	\$9,059	\$5,794	\$5,794	\$5,794	\$5,794	\$5,794	\$38,028
<b>Subtotal</b>	<b>\$37,033</b>	<b>\$23,775</b>	<b>\$23,775</b>	<b>\$23,775</b>	<b>\$23,775</b>	<b>\$23,775</b>	<b>\$155,907</b>
Regional <sup>1</sup>	\$16,000	\$8,000	\$8,000	\$8,000	\$8,000	\$8,000	\$56,000

1. Regional costs are included in individual jurisdiction costs.

### 4.7.4 Secondary Permittees

The following entities are designated by Ecology as possibly being subject to the permit as secondary permittees. The Cities and Counties will jointly develop criteria for secondary permittees to join at an agreed upon later date.

- Beehive Irrigation District (Chelan County)
- Central Washington University, Wenatchee Center (Chelan County)
- Greater Wenatchee Irrigation District (Douglas County)
- Lower Squilchuck Irrigation District (Chelan County)
- Lower Stemilt Irrigation District (Chelan County)
- Eastmont Metropolitan Park District (Douglas County)
- Millersdale Irrigation District (Chelan County)
- Port of Chelan County (Chelan County)
- Port of Douglas County (Douglas County)
- Sewer District #1 (Douglas County)
- Stemilt Irrigation District (Chelan County)
- Housing Authority of Chelan County (Chelan County)
- Wenatchee Heights Reclamation District (Chelan County)
- Wenatchee Reclamation District (Chelan County/Douglas County)
- Wenatchee Valley College (Chelan County)

Other entities, including school districts, may be subject to the permit as secondary permittees based on a determination by Ecology or could be petitioned by a person or organization to be required to obtain permit coverage.

## 4.8 Other Programmatic Considerations

The other programmatic considerations listed below are not regulated by the NPDES program, however they are relevant to stormwater management in the Cities and Counties. Unless otherwise noted, these would all be considered local efforts if selected.

- **Stormwater Comprehensive Plans:** All four jurisdictions plan to update their stormwater comprehensive plans in 2008.
- **Historic Stormwater Related Issues and Concerns:** Douglas County and East Wenatchee both developed a map of historic stormwater problem areas for Douglas County's 1995 Flood Hazard Comprehensive Plan. Chelan County has general problem areas identified and will continue working to identify all problem areas. The City of Wenatchee is scheduled to begin documenting historic problem areas and stormwater issues in 2008.
- **Permit Coverage Areas:** Permit coverage areas for the Cities and Counties have largely been delineated.
- **Stormwater Rates and Charges:** An assessment of stormwater rates and charges will be completed at the local and semi-regional level. Douglas County and East Wenatchee will include a rate study as part of the stormwater comprehensive plan update for the Greater East Wenatchee Storm Water Utility in 2008.
- **Conduct a Condition Assessment of Existing Stormwater System:** Chelan County has assessed approximately 40 percent of its existing system while the City of Wenatchee is scheduled to begin assessment in 2008. Actions for City of East Wenatchee and Douglas County have not yet been determined; however it is anticipated to be a semi-regional effort.
- **Annual, 6-year, and 20-year Capital Plans:** Each City and County will individually amend their annual, 6-year, and 20-year capital plans, as part of their 2008 stormwater comprehensive plan updates.
- **Underground Injection Control (UIC Programs):** Chelan County is currently registering UICs through Ecology's UIC program. In general, the City of Wenatchee does not allow UICs and therefore does not expect a significant program effort. The City of East Wenatchee and Douglas County are in the process of completing UIC registration and assessment through the Greater East Wenatchee Storm Water Utility.

### Other Programmatic Considerations Estimated Costs

Table 13 presents the other programmatic considerations estimated costs. Costs for Douglas County and the City of East Wenatchee are estimated at \$209,000 and \$199,000, respectively. The City of Wenatchee has the lowest cost, at about \$107,000, while Chelan County has the highest costs, at about \$321,000. There are no regional costs associated with the other programmatic considerations.

<b>Table 13 Other Programmatic Considerations Estimated Costs</b>							
<b>Jurisdiction</b>	<b>Already Spent</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012+</b>	<b>Total</b>
Douglas County	\$26,624	\$102,534	\$39,936	\$39,936	\$39,936	\$39,936	\$288,902
Chelan County	\$30,000	\$247,869	\$11,382	\$11,382	\$11,382	\$11,382	\$323,396
City of Wenatchee	\$0	\$106,989	\$0	\$0	\$0	\$0	\$106,989
City of East Wenatchee	\$25,293	\$98,408	\$37,939	\$37,939	\$37,939	\$37,939	\$275,457
<b>Subtotal</b>	<b>\$81,917</b>	<b>\$555,800</b>	<b>\$89,257</b>	<b>\$89,257</b>	<b>\$89,257</b>	<b>\$89,257</b>	<b>\$994,745</b>
Regional	\$0	\$0	\$0	\$0	\$0	\$0	\$0

1. Regional costs are included in individual jurisdiction costs.

#### **4.9 Planned Implementation Schedule**

Exhibit 2 shows the NPDES Phase II Timeline. Appendix B1 has a timeline for public involvement and public education and outreach. Table 2 presents the permit compliance dates. The Cities and Counties will meet the permit deadlines and may accomplish many of the tasks earlier.

Exhibit 2

# NPDES Phase II Timeline

