

Stormwater Program report

This report covers activities that occurred between the following dates:

1/1/2008 to 12/31/2008

Date Report Prepared: 3/30/2009

For questions regarding this report contact:

Dan Smith
555 Israel Road SW
Tumwater, WA 98501

Stormwater Program Permit Information	
1. Permitting Authority: WA Department of Ecology	
2. Permit Number: WAR045020	3. Permit Type: NPDES Phase II
4. Permit Name: City of Tumwater NPDES	
5. Date Issue: 1/17/2007	6. Date Expire: 2/15/2012

General Information for MS4 Operator	
1. Operator Name:	Jay Eaton, P.E.
2. Operator Title:	Public Works Director
3. Represented Entity:	City of Tumwater
4. Mailing Address:	555 Israel Road SW
5. Mail City, State, Zip:	Tumwater, WA 98501
6. Phone Number:	(360) 754-4140
7. E-Mail Address:	jeaton@ci.tumwater.wa.us
8. Co-Permitting With:	
9. Population: 13,340	Households: 5,659 Area (sq mi): 12
10. Official Website:	www.ci.tumwater.wa.us

General Information for Primary Contact Person	
1. Name:	Dan Smith
2. Title:	Water Resources Program Manager
3. Phone Number	(360) 754-4140
4. E-Mail Address:	desmith@ci.tumwater.wa.us

General Information for Secondary Contact Person	
1. Name:	Steve Craig
2. Title:	Utility Operations Manager
3. Phone Number	(360) 754-4150
4. E-Mail Address:	scraig@ci.tumwater.wa.us

General Information for Receiving Waters

Receiving Water Lists: Listed below are all the identified receiving waterbodies to which identified outfalls discharge.

Receiving Streams (creek, stream, river, etc.)	Receiving Waterbodies (lake, wetland, ocean, etc.)	Receiving Watersheds
Percival Creek Deschutes River	Capitol Lake Puget Sound Barnes Lake Trosper Lake	Deschutes Percival Creek

Public Education & Outreach

Details of BMPs and Work Performed for Them

Educational Outreach Program

Responsible Party: Debbie Smith, Water Resources Educator

Start Date: 2/16/2007

End Date: 2/15/2009

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: 2/18/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - The Olympian

Type: Public Service Announcement

Name of Source: The Olympian

Cost: 0.00

Audience: 30,000

Delivery Source: Newspaper

Message:

As Thurston County continues to grow, increasing amounts of native forest and prairie lands are replaced by roads, roofs, driveways and other impervious surfaces. Rainfall that formerly was intercepted by the forest canopy or soaked into soils now becomes stormwater runoff, flowing across the landscape.

[Click here to find out more!](#)

This creates two problems. Localized flooding can occur as water floods yards, streets and parking lots. Stormwater also can wash pollutants into waterways and ultimately, Puget Sound. These pollutants can include motor oil, pesticides, excess fertilizers, trash and fecal bacteria from pet waste. While modern developments include highly engineered solutions for stormwater management, such as catch basins and pipes that convey the water to central retention ponds, there is a new, low-impact-development approach that enables individual homeowners to help protect streams and wetlands while directing stormwater away from their house.

Rain gardens are modest depressions in the landscape of people's yards. A rain garden acts much like the original native forest landscape did by collecting, absorbing and filtering stormwater runoff from a house's roof, driveway and walkways, before it can even enter the street and catch basin system.

How do rain gardens work? They typically are excavated to a depth of about 2 feet, and then a mix of highly amended, compost-rich soil is placed in the depression, filling it to a level at least 6 inches below the surrounding lawn, so ponding might occur during periods of heavy rain. This soil/compost mix rapidly soaks up water and retains it.

Then plants that do well in both wet and dry conditions are planted in it. While many of these are native plants, some nonnative ornamentals might also be used to create a colorful, attractive landscape amenity.

While easy to create, rain gardens must be designed and built carefully to accommodate the correct amount of rainfall. Soil conditions must be assessed during the design to determine the depth of the soil/compost mix.

If you are interested in learning more about how you can incorporate a rain garden into your yard's landscape, Stream Team is teaming up with Stewardship Partners and Native Plant Salvage Project to offer several free, hands-on workshops on rain garden design and construction. Dates for "Rain Gardens — Your Key to Managing Drainage and Protecting Puget Sound" include Feb. 25 in Yelm, March 6 in Olympia, April 3 in Tumwater and April 17 in Lacey. All workshops are from 6:30 to 9:30 p.m. Workshop participants also will be invited to learn more by helping to install a rain garden April 26.

Registration is free but required, and participants will be sent site-assessment instructions to help maximize their learning at the workshop. For more information, contact Stream Team at 360-357-2491.

Chris Maun is the Stream Team coordinator with the Thurston County Storm & Surface Water Utility. He can be reached at maunc@co.thurston.wa.us.

Rain Garden Information. Delivered as part of the regional Stream Team program to promote stormwater treatment and water quality. Article written as part of interjurisdiction Stream Team program. Article appeared on a Monday. Average Monday circulation for The Olympian is 30,000.

Date: 2/28/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Education - - Multiple

Audience: 0

Program Name: SS GREEN Water Quality Monitoring Program

Cost: 0.00

Audience Reached: 25

Focus:

To assess the water quality of surface water in Percival Creek and Deschutes River, and to educate students on water quality issues.

Description:

Water quality samples taken from multiple locations along Percival Creek and Deschutes River on one day to produce a "snapshot" of water quality. Parameters include dissolved oxygen, pH, temperature, nitrates, phosphates, BOD and fecal coliform.

Date: 3/3/2008 **Responsible Party: Debbie Smith**

Public Education - Stream Team Quarterly Newsletter

Type: Newsletter

Title: Stream Team Quarterly Newsletter

Cost: 825.44

Delivered To: General Public

Distribution: 0

Message:

Comments:

Tumwater paid for this issue.

Date: 3/14/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Jean-Michel Cousteau Event

Type: Environmental Fair

Event Name: Jean-Michel Cousteau Event

Cost: 0.00

Volunteers: 2

Number Attending: 125

Focus:

To educate the public on local water quality issues, including fresh and marine waters and the effect of nonpoint pollution in storm water.

Description:

Stream Team informational booth staffed at event to provide water quality information and water quality enhancement volunteer opportunities.

How was the event sponsored?:

City of Olympia and Puget Sound Partnership sponsored event. Tumwater and Thurston Co.

Stream Teams sponsored water quality/volunteer opportunity information booth in lobby of event

Date: 3/20/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Education - - Multiple

Audience: 100

Program Name: Global Rivers Environmental Education Network (GREEN) Congress

Cost: 500.00

Audience Reached: 100

Focus:

To educate students on water quality issues through the examination and interpretation of water quality data from local watersheds.

Description:

Data analyzed for 1) parameters "good" or improving, and 2) parameter "hot spots" or declining. Causal hypotheses formulated. Plan developed for improving watershed water quality. Plan ranked according to areas of need. Suggestions developed for programs to improve water quality, including public education campaigns on pet waste, car washing, yard care, revegetation, storm drain marking, etc.

Date: 3/20/2008 **Responsible Party: Debbie Smith, Unknown**

Education - - Multiple

Audience: 25

Program Name: Rain garden Workshop - Tumwater

Cost: 116.20

Audience Reached: 100

Focus:

Description:

Date: 4/8/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Habitat Enhancement Project

Type: Habitat Enhancement

Event Name: Percival Creek Habitat Enhancement Project

Cost: 0.00

Volunteers: 12

Number Attending: 12

Focus:

To protect and enhance water quality through riparian revegetation along Percival Creek.

Description:

Volunteers weeded native plantings to ensure survival of previously planted native material. Water quality education information provided to volunteers.

How was the event sponsored?:

Tumwater Stream Team Olvmpia Mountaineers and Tumwater Old Town Center

Date: 4/26/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Earth Day Event

Type: Habitat Enhancement

Event Name: Percival Creek Earth Day Event

Cost: 189.00

Volunteers: 21

Number Attending: 21

Focus:

To protect and enhance water quality through riparian revegetation project along Percival Creek.

Description:

Volunteers maintained native plantings along Percival Creek. Water quality information provided to volunteers.

How was the event sponsored?:

Tumwater Stream Team

Date: 5/18/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Tumwater Falls Historical District Celebration

Type: Environmental Fair

Event Name: Tumwater Falls Historical District Celebration

Cost: 0.00

Volunteers: 8

Number Attending: 100

Focus:

To educate the general public about nonpoint pollution and its effects on water quality/quantity.

Description:

Stream Team booth taught about salmon life cycle, benthic macroinvertebrates, water conservation and other water-related issues through the use of hands-on activities. Yearling Chinook salmon were released, some by volunteers, to the Deschutes River.

How was the event sponsored?:

Tumwater Stream Team, Thurston Co. Stream Team, Tumwater Long Range Planning/Museum, WA Dept. of Fish and Wildlife and Olympia-Tumwater Foundation

Date: 5/26/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - The Olympian

Type: Newspaper article

Name of Source: The Olympian

Cost: 0.00

Audience: 30,000

Delivery Source: Newspaper

Message:

Water conservation tips, including reduction of storm water runoff.

Comments:

Article on Environment page.

Date: 6/2/2008 **Responsible Party: Debbie Smith**

Public Education - Stream Team Quarterly Newsletter

Type: Newsletter

Title: Stream Team Quarterly Newsletter

Cost: 0.00

Delivered To: General Public

Distribution: 0

Message:

Comments:

Date: 7/22/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Habitat Enhancement Project

Type: Habitat Enhancement

Event Name: Percival Creek Habitat Enhancement Project

Cost: 19.24

Volunteers: 6

Number Attending: 6

Focus:

To protect water quality through the revegetation of riparian area along Percival Creek, and to educate the public on water quality issues.

Description:

Work party to weed/mulch previous plantings.

How was the event sponsored?:

Tumwater Stream Team provided tools, gloves and light refreshments

Date: 7/26/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Bike Your Watershed: The Deschutes

Type: Environmental Fair

Event Name: Bike Your Watershed: The Deschutes

Cost: 300.00

Volunteers: 18

Number Attending: 100

Focus:

To educate the public about the Deschutes Watershed and related water quality issues through the promotion of bicycle riding.

Description:

Families are encouraged to bring their bicycles and helmets to the Deschutes River at Tumwater Historical Park to participate in a bike ride and education fair. Riders are provided with three routes to choose with each route marked w/points of interest within the watershed. Environmental education activities, focusing on local water quality, are provided at the park for before/after the ride (participants are not required to ride a bike to participate in the ed. activities).

How was the event sponsored?:

Tumwater Stream Team and WA Dept. of Ecology

Date: 8/9/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Benthic Macroinvertebrate Monitoring

Type: Monitoring

Event Name: Percival Creek Benthic Macroinvertebrate Monitoring

Cost: 0.00

Volunteers: 6

Number Attending: 6

Focus:

To assess the biological integrity of local streams, and to educate the public on water quality issues.

Description:

Benthic macroinvertebrate (bug) samples are collected from Percival Creek and sent to a lab for BIBI analysis. Data is tracked for water quality trends. Public workshops and field experience is offered to inform the public of the effect of different behaviors on water quality.

How was the event sponsored?:

Lab fees are paid through an interlocal agreement between Tumwater, Lacey, Olympia and Thurston Co. Collection equipment and volunteer labor provided by Stream Team

Date: 8/16/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Deschutes River Benthic Macroinvertebrate Monitoring

Type: Monitoring

Event Name: Deschutes River Benthic Macroinvertebrate Monitoring

Cost: 0.00

Volunteers: 8

Number Attending: 8

Focus:

To assess the biological integrity of local streams and to educate the public on water quality issues.

Description:

Benthic macroinvertebrate (bug) samples are collected from the Deschutes River and sent to a lab for BIBI analysis. Data is tracked for water quality trends. Public workshops and field experience is offered to inform the public of the effect of different behaviors on water quality.

How was the event sponsored?:

Lab fees are paid through an interlocal agreement between Tumwater, Lacey, Olympia and Thurston Co. Collection equipment and volunteer labor provided by Stream Team

Date: 9/1/2008 **Responsible Party: Debbie Smith**

Public Education - Stream Team Quarterly Newsletter

Type: Newsletter

Title: Stream Team Quarterly Newsletter

Cost: 0.00

Delivered To: General Public

Distribution: 0

Message:

Comments:

Date: 10/5/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Tumwater Falls Harvest Fest

Type: Environmental Fair

Event Name: Tumwater Falls Harvest Fest

Cost: 500.00

Volunteers: 12

Number Attending: 3,250

Focus:

To present water quality information to the public within a celebration of the fall harvest, including the return of Chinook salmon up the Deschutes River to Tumwater Falls.

Description:

Water quality information is presented in several formats:

- 1) Stream Team tent with salmon-themed activities and information
- 2) FIN, the migrating Chinook salmon, activity for children
- 3) Salmon Stewards, docents who teach about the incoming salmon and water quality issues
- 4) Fish facility tours led by WA Dept. of Fish & Wildlife
- 5) River Walk tours w/both water quality and human history information

How was the event sponsored?:

City of Tumwater event. Water/salmon activities and information sponsored by Tumwater Stream Team, Friends of Deschutes Watershed Center and Washington Dept. of Fish and Wildlife

Date: 11/8/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Habitat Enhancement Project

Type: Habitat Enhancement

Event Name: Percival Creek Habitat Enhancement Project

Cost: 150.00

Volunteers: 16

Number Attending: 16

Focus:

To protect and enhance the water quality/quantity in the Percival Creek subwatershed.

Description:

Volunteers planted native trees and shrubs in the riparian zone along Percival Creek north of Sapp Rd.

How was the event sponsored?:

Tumwater Stream Team purchased plant materials from Thurston Conservation District and Sound Native Plants and light refreshments for volunteers

South Sound GREEN

Responsible Party: Debbie Smith, Water Resources Educator

Start Date: 2/16/2007

End Date: 2/16/2009

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: 2/28/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Education - - Multiple

Audience: 0

Program Name: SS GREEN Water Quality Monitoring Program

Cost: 0.00

Audience Reached: 25

Focus:

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Description:

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Audience: 100

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Date: 5/18/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Tumwater Falls Historical District Celebration

Type: Environmental Fair

Event Name: Tumwater Falls Historical District Celebration

Cost: 0.00

Volunteers: 8

Number Attending: 100

Focus:

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Description:

Stream Team booth taught about salmon life cycle, benthic macroinvertebrates, water conservation and other water-related issues through the use of hands-on activities. Yearling Chinook salmon were released, some by volunteers, to the Deschutes River.

How was the event sponsored?:

Tumwater Stream Team, Thurston Co. Stream Team, Tumwater Long Range Planning/Museum, WA Dept. of Fish and Wildlife and Olympia-Tumwater Foundation

Storm Drain Marking

Responsible Party: Debbie Smith, Water Resources Educator

Start Date: 2/16/2007

End Date: 2/16/2009

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: 3/25/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Israel Road Drain Marking

This activity occurred on 3/25/08 to place drain markers on all publically owned catch basins along Israel Road SW from the intersection of Capitol & Israel to Linderson & Israel and including New Market Street. Approximately 35 catch basins were marked.

Approximately 12 volunteers participated from the Old Town Center program, including Charlie Groth from the Parks and Recreation Dept.

Technical Assistance Program

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 2/16/2007

End Date: 2/15/2009

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: 6/24/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

Simmons Mill HOA Site Inspection

Visited Simmons Mill upon request from Laurie Vigue, HOA representative. Provided copies of HOA Maintenance Agreement, stormwater facility engineering documents and a maintenance guide.

Date: 8/28/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

66th Ave Tech Assist

Response to a flooding complaint at 66th Ave. Reviewed flow patterns and impediments to maintaining flows in newly annexed area.

Date: 10/3/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

Somerset Hills Tech Assist

Provided maintenance guide, inspection checklist and HOA Maintenance Agreement.

Date: 10/13/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

Inchausti SW Tech Assist

Discussed stormwater runoff concerns with private property owner at 2640 54th Ave SW. Reviewed historical issues and discussed future stormwater management considerations, including the regular maintenance of drainage swales along Trosper Rd/54th Ave SW.

Date: 10/22/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

On-Guard Mini Storage

Provided technical assistance to On-Guard Mini Storage. Reviewed drainage issues and provided maintenance schedule to decrease onsite flooding impacts and reduce the potential for hazardous materials to enter surface runoff.

Date: 10/29/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

Mottman Rd SW Request for Maintenance

Complaints received re: flooding at entrance to Jack-in-the-Box Restaurant and Extended Stay America. Field inspection revealed that stormwater pond is not maintained and inhibiting flow from catch basin in right-of-way. Letter and documentation mailed to owners of site.

Date: 11/21/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

The Bluff HOA Tech Assist

Inspected and provided customized Maintenance Guide (including plans) to president of the HOA. Documented maintenance needs visible - excessive vegetation. Once vegetation is clear, additional inspections can take place.

Tumwater Pet Waste Program

Responsible Party: Debbie Smith, Water Resources Educator

Start Date: 2/16/2007

End Date: 2/16/2009

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: 9/5/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Bush Prairie

Contact: Elena Guinn (360) 956-3860

Provided 2 pet waste stations and 250 brochures for residential customers.

Date: 9/15/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Barnes Lake Condos

Contact:

Mallery Moseman - (360) 455-4464 x118

Deborah Hooket - (360) 445-4464 x120

Installed 2 signs and dispensers near trailheads on site. Provided 65 educational brochures for condo residents.

Date: 10/15/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Streamland Estates

Contact: Kevin Chandos (360) 705-1630

Provided 1 pet waste station and 100 educational brochures for residential customers.

Date: 10/31/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Brochure Distribution - Shalimar Suites

Pinhurst & Capitol Blvd

Distributed 50 educational brochures for apartment residents.

Date: 10/31/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Brochure Distribution - Alpine Village

Contact: Christy Ward (360) 943-9555

Pinehurst & Capitol Blvd

Provided 400 brochures for apartment residences.

Date: 10/31/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Hearthstone

Contact: Allen Johnston (360) 870-2539

233 W. Pinehurst Dr.

Installed 2 pet waste signs and dispensers. Provided with 50 brochures.

Date: 11/6/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Somerset Hills, Highlands

Contact: Tiffany (253) 396-1004

Provided 2 pet waste stations and 50 educational brochures to association residents.

Date: 11/12/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Indian Creek Condos

Contact: Christy Golan (360) 970-6104

Provided 1 pet waste station and 50 educational brochures for condo residents.

Date: 11/26/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Pet Waste Station - Countryside Assoc

Contact: Theresa Hammer (360) 455-1131

Installed 2 pet waste signs at the playground and trailhead to Black Hills High School. Garbage cans will be present at both locations.

100 Brochures delivered to the homeowner association for delivery.

Tumwater Stream Team

Responsible Party: Debbie Smith, Water Resources Educator

Start Date: 2/16/2007

End Date: 2/16/2009

Has Goal Been Accomplished: YES

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Type: Public Service Announcement

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Type: Environmental Fair

Event Name: Jean-Michel Cousteau Event

Cost: 0.00

Volunteers: 2

Number Attending: 125

Focus:

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Description:

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How was the event sponsored?:

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Date: 4/8/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Habitat Enhancement Project

Type: Habitat Enhancement

Event Name: Percival Creek Habitat Enhancement Project

Cost: 0.00

Volunteers: 12

Number Attending: 12

Focus:

To protect and enhance water quality through riparian revegetation along Percival Creek.

Description:

Volunteers weeded native plantings to ensure survival of previously planted native material. Water quality education information provided to volunteers.

How was the event sponsored?:

Tumwater Stream Team, Olympia Mountaineers and Tumwater Old Town Center

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Type: Environmental Fair

Event Name: Bike Your Watershed: The Deschutes

Cost: 300.00

Volunteers: 18

Number Attending: 100

Focus:

To educate the public about the Deschutes Watershed and related water quality issues through the promotion of bicycle riding.

Description:

Families are encouraged to bring their bicycles and helmets to the Deschutes River at Tumwater Historical Park to participate in a bike ride and education fair. Riders are provided with three routes to choose with each route marked w/points of interest within the watershed. Environmental education activities, focusing on local water quality, are provided at the park for before/after the ride (participants are not required to ride a bike to participate in the ed. activities).

How was the event sponsored?:

Tumwater Stream Team and WA Dept. of Ecology

Date: 8/9/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Benthic Macroinvertebrate Monitoring

Type: Monitoring

Event Name: Percival Creek Benthic Macroinvertebrate Monitoring

Cost: 0.00

Volunteers: 6

Number Attending: 6

Focus:

To assess the biological integrity of local streams, and to educate the public on water quality issues.

Description:

Benthic macroinvertebrate (bug) samples are collected from Percival Creek and sent to a lab for BIBI analysis. Data is tracked for water quality trends. Public workshops and field experience is offered to inform the public of the effect of different behaviors on water quality.

How was the event sponsored?:

Lab fees are paid through an interlocal agreement between Tumwater, Lacey, Olympia and Thurston Co. Collection equipment and volunteer labor provided by Stream Team

Date: 8/16/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Deschutes River Benthic Macroinvertebrate Monitoring

Type: Monitoring

Event Name: Deschutes River Benthic Macroinvertebrate Monitoring

Cost: 0.00

Volunteers: 8

Number Attending: 8

Focus:

To assess the biological integrity of local streams and to educate the public on water quality issues.

Description:

Benthic macroinvertebrate (bug) samples are collected from the Deschutes River and sent to a lab for BIBI analysis. Data is tracked for water quality trends. Public workshops and field experience is offered to inform the public of the effect of different behaviors on water quality.

How was the event sponsored?:

Lab fees are paid through an interlocal agreement between Tumwater, Lacey, Olympia and Thurston Co. Collection equipment and volunteer labor provided by Stream Team

Date: 9/1/2008 **Responsible Party: Debbie Smith**

Public Education - Stream Team Quarterly Newsletter

Type: Newsletter

Title: Stream Team Quarterly Newsletter

Cost: 0.00

Delivered To: General Public

Distribution: 0

Message:

Comments:

Date: 10/5/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Tumwater Falls Harvest Fest

Type: Environmental Fair

Event Name: Tumwater Falls Harvest Fest

Cost: 500.00

Volunteers: 12

Number Attending: 3,250

Focus:

To present water quality information to the public within a celebration of the fall harvest, including the return of Chinook salmon on the Deschutes River to Tumwater Falls.

Description:

Water quality information is presented in several formats:

- 1) Stream Team tent with salmon-themed activities and information
- 2) FIN, the migrating Chinook salmon, activity for children
- 3) Salmon Stewards, docents who teach about the incoming salmon and water quality issues
- 4) Fish facility tours led by WA Dept. of Fish & Wildlife
- 5) River Walk tours w/both water quality and human history information

How was the event sponsored?:

City of Tumwater event. Water/salmon activities and information sponsored by Tumwater Stream Team, Friends of Deschutes Watershed Center and Washington Dept. of Fish and Wildlife

Date: 11/8/2008 **Responsible Party: Debbie Smith, Water Resources Educator**

Public Education - Percival Creek Habitat Enhancement Project

Type: Habitat Enhancement

Event Name: Percival Creek Habitat Enhancement Project

Cost: 150.00

Volunteers: 16

Number Attending: 16

Focus:

To protect and enhance the water quality/quantity in the Percival Creek subwatershed.

Description:

Volunteers planted native trees and shrubs in the riparian zone along Percival Creek north of Sapp Rd.

How was the event sponsored?:

Tumwater Stream Team purchased plant materials from Thurston Conservation District and Sound Native Plants and light refreshments for volunteers

Public Involvement & Participation

Details of BMPs and Work Performed for Them

Public Posting of City SWMP

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 2/16/2007

End Date: 2/16/2009

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: *3/6/2008* **Responsible Party:** *Dan Smith, Water Resources Program Manager*

2002 Stormwater Comp Plan Posted

The Stormwater Utility protects water quality, reduces harm to aquatic habitat, and minimizes flooding in the City. The City has outlined a comprehensive approach to the overall management of stormwater in the 2002 Comprehensive Stormwater Implementation Plan, and looks toward long-term goals emphasizing prevention, community participation, and resource conservation.

Public Works Committee

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 2/16/2007

End Date: 2/15/2012

Has Goal Been Accomplished: YES

No activities have been recorded for the BMP listed above during this reporting period

Illicit Discharge Detection & Elimination

Details of BMPs and Work Performed for Them

IDDE Education

Responsible Party: *Debbie Smith, Water Resources Educator*

Start Date: 1/27/2009

End Date: 2/16/2010

Has Goal Been Accomplished: NO

Work performed for the BMP listed above

Date: 12/31/2008 **Responsible Party:** *Tim Wilson, Water Resources Specialist*

IDDE 24-hour Hotline

Posted the City's emergency notification number, (360) 754-4150, for concerned public to report activities relating to illicit discharge notification. The hotline is a 24-hour phone number. During normal business hours, the caller reports to staff who will direct the information to the appropriate party. After normal business hours, the caller is directed to the on-duty staff person who will document the call and follow-up as necessary. In the event of a large spill, staff is directed to call the WA Dept of Ecology.

Illicit Discharge Detection & Elimination

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 1/1/2007

End Date: 2/15/2012

Has Goal Been Accomplished: NO

No activities have been recorded for the BMP listed above during this reporting period

Illicit Discharge Ordinance

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 1/1/2007

End Date: 2/15/2012

Has Goal Been Accomplished: NO

Work performed for the BMP listed above

Date: 10/9/2008 **Responsible Party: Unknown, Unknown**

Training - Stormwater Ordinance Development

Type: Workshop

Host: Department of Ecology

Address 1:

Address 2:

City: Olympia

State: WA

Zip:

Description:

WA Dept of Ecology presented a training session for Writing Regulations to Meet Phase II Permit Requirements. This was held at Ecology headquarters in Lacey. The IDDE guidance is already online:

<http://www.ecy.wa.gov/biblio/0810061.html> We expect to have guidance for writing construction and post-construction ordinances published by then as well.

The training will include a presentation on adopting these ordinances into existing code structures, basic components required, and some considerations related to implementation. However, it will not go into detail on specific requirements.

We will have plenty of time for discussion and Q/A, sharing ideas and approaches among jurisdictions. We really value your input, insight and experiences and encourage you to bring a member of your planning staff.

Storm System Map

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 1/1/2007

End Date: 2/15/2012

Has Goal Been Accomplished: YES

No activities have been recorded for the BMP listed above during this reporting period

Construction Site Runoff Control

Details of BMPs and Work Performed for Them

Construction Site Inspections & Site Plan Review

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 1/1/2007

End Date: 1/31/2012

Has Goal Been Accomplished: YES

Work performed for the BMP listed above

Date: 2/12/2008 **Responsible Party:** Unknown, Unknown

Training - Stormwater Treatment Short Course

Type: Not Applicable

Host: Gary Minton & City of Tumwater

Address 1: 555 Israel Road SW

Address 2:

City: Tumwater

State: WA

Zip: 98501

Description:

SYLLABUS - WET CLIMATE REGIONS

DAY 1 Doors open 7:30, Course 8:00 to 5:00

TOPIC CONTENT

1 Introduction Course overview and objectives; review of questionnaire results; the role of Volume and Treatment Performance Goals; where does MEP fit it.

2 Stormwater quality What matters to treatment; sources of pollutants; characterization of suspended solids; TSS/SSC; pollutants in stormwater that tend to be dissolved; are we focused on the right pollutants.

3 Treatment Framework

A framework for Stormwater Treatment: Unit Processes and Operations, Systems, and Families. Overview of public-domain and manufactured systems (BMPs) organized as Families: (1) Basins. (2) Swales. (3) Filters, (4) Infiltrators, (5) Screens. What's new and trends in treatment systems.

4 Water flow Hydraulic efficiency: what it is; why it is important; design criteria. Swales: a what the grass really does- the misnomer biofilters; validity of high Manning's coefficient; design elements to maximize hydraulic efficiency in swales, determination of swale bottom width. Wet basins: Plug flow vs. complete-mix; dead zones and short-circuiting, what causes these conditions and design to minimize their effects, e.g. L/W ratio.

5 Sedimentation Basins: current design criteria; dynamic and quiescent settling as related to basins; USEPA method relating basin volume to performance; concept of hydraulic loading rate (HLR); why wet ponds and wetlands are currently grossly oversized and what to do; why extended detention basins do not perform as well as wet basins and alternative design changes to achieve equivalent performance. Pretreatment: sizing for ponds, filters, infiltration basins, bioretention, etc. Swales: a determining swale length, origins of 9-minute and minimum length. Swirl concentrators and other small manufactured vaults: why drop the terms vortex and hydrodynamic separation; comparing products using HLR; recent regulator decisions.

TOPIC CONTENT

6 Laminar settling Laminar settling and its application to oil and fine TSS removal; TPH removal by other treatment systems; performance limitations of oil/grit separators; and limiting the use of oil water separators.

7 Inert media filtration

Design criteria; media; terminology; sizing filters based on flow rate and alternatively sediment accumulation/maintenance cycle; new criteria to reduce costs but not performance; maintenance experience.

8 Sorptive filtration Design criteria; three sorptive processes; types of media; total and operating sorption capacities - how to determine, importance of difference; vegetated amended sand filters (bioretention) - sizing, new

design criteria and concepts, performance, other benefits; manufactured filters, and drain inlet inserts.

9 Soil processes- Wet ponds/wetlands

Design criteria; uniqueness of saturated soils; pollutant removal processes; possible negative impact of placing wet pools on native soils; soil-pollutant relationships; potential for desorption and possible effects of base flow; sizing wet basins for pollutants other than TSS.

10 Soil processes- Infiltration

Current design criteria; pollutant removal processes; pollutant movement through soil; data on changes in groundwater quality and soil chemistry; porous pavement performance; an alternative method to size infiltration systems.

11 Biological processes

Design criteria; what the plants do; long-term performance of ponds and wetlands; does cropping vegetation help and how answer may differ with each pollutant; is it okay for wet basins to go dry and possible benefits; possible harm of base flow.

12 Maintenance Purposes of maintenance; keys to reduce costs; design to minimize maintenance costs; construction inspection; elements of a post-construction inspection and maintenance program; summary of

common inspection actions; the trade off between public domain and manufactured systems with respect to maintenance cost; cost experience; concept of life-cycle cost.

13 Meeting performance goals

Performance goals - types and origins; do we base on % removal or effluent concentration; final summation of performance of different treatment systems; role of source control; requirements and status of certification programs; lab versus field testing; uncertified systems that likely will meet TSS goal; what are the practical lower or "irreducible" effluent concentrations.

14 Final topics Final review of questions in questionnaire; topics raised by attendees not covered in previous sessions.

a. Topic covered where flow-through type swales are used such as the Pacific Northwest and

Date: 2/28/2008 **Responsible Party: Unknown, Unknown**

Training - CESCL Certification

Type: Construction Site Runoff

Host: ECO-3

Address 1:

Address 2:

City: Lacey

State: WA

Zip: 98516

Description:

Certified Erosion and Sediment Control Lead (CESCL)

Training and Certification and Re-certification Requirements

1. The course shall teach the construction stormwater pollution prevention guidance provided in the most recent version of the Washington State Dept. of Ecology Stormwater Management Manual for Western Washington.

2. Upon completion of course, each attendee shall receive an 8 ½ x 11" certificate and a wallet-sized card that certifies completion of the course. Certification shall remain valid for three years. Recertification may be obtained by completing the 8-hour refresher course or by re-taking the initial 16-hour training course.

3. The initial certification course shall be a minimum of 16 hours, include a field element and test.

1. The field element must familiarize students with the proper installation, maintenance and inspection of common erosion and sediment control BMPs including, but not limited to, blankets, check dams, silt fence, straw mulch, plastic, and seeding.

2. The test shall be open book and a passing score is not required for certification. Upon completion of the test, the correct answers shall be provided and discussed.

Required Course Elements

1. Erosion and Sedimentation Impacts
2. Erosion and Sedimentation Processes
3. Factors Influencing Erosion Potential
4. Regulatory Requirements
5. Stormwater Pollution Prevention Plan (SWPPP)

Date: 6/19/2008 **Responsible Party: Unknown, Unknown**

Training - CESCL Certification
Type: Construction Site Runoff
Host: ECO-3

Address 1: Cabela's
Address 2: 1600 Gateway Dr NE
City: Lacey
State: WA
Zip: 98516
Description:
Certified Erosion and Sediment Control Lead (CESCL)

Training and Certification and Re-certification Requirements

1. The course shall teach the construction stormwater pollution prevention guidance provided in the most recent version of the Washington State Dept. of Ecology Stormwater Management Manual for Western Washington.

2. Upon completion of course, each attendee shall receive an 8 ½ x 11" certificate and a wallet-sized card that certifies completion of the course. Certification shall remain valid for three years. Recertification may be obtained by completing the 8-hour refresher course or by re-taking the initial 16-hour training course.

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Required Course Elements

1. Erosion and Sedimentation Impacts
2. Erosion and Sedimentation Processes
3. Factors Influencing Erosion Potential
4. Regulatory Requirements
5. Stormwater Pollution Prevention Plan (SWPPP)

Date: 9/16/2008 **Responsible Party: Dan Smith, Water Resources Program Manager**

Ecology Complaint Notification

Called Kurt Fremont at Ecology to notify him of a complaint received by Public Works from Dev Services Inspectors.

Complaint stems from a development, Viewpoint Estates, not having a grading permit and dumping soils along a wetland buffer within the development. (Lots 57-60). Dev Services applied a stop work order.

Due to available resources, the best course of action for this issue is to maintain the stop work order until all permits are filed and proof of application is received. This would include any local permits as well as the NPDES Construction Permit and NOI.

Construction Site Runoff Control Ordinance

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 1/1/2008

End Date: 12/31/2008

Has Goal Been Accomplished: NO

Work performed for the BMP listed above

Date: 2/28/2008 **Responsible Party: Unknown, Unknown**

Training - CESCL Certification

Type: Construction Site Runoff

Host: ECO-3

Address 1:

Address 2:

City: Lacey

State: WA

Zip: 98516

Decription:

Certified Erosion and Sediment Control Lead (CESCL)

Training and Certification and Re-certification Requirements

1. The course shall teach the construction stormwater pollution prevention guidance provided in the most recent version of the Washington State Dept. of Ecology Stormwater Management Manual for Western Washington.
2. Upon completion of course, each attendee shall receive an 8 ½ x 11" certificate and a wallet-sized card that certifies completion of the course. Certification shall remain valid for three years. Recertification may be obtained by completing the 8-hour refresher course or by re-taking the initial 16-hour training course.
3. The initial certification course shall be a minimum of 16 hours, include a field element and test.
 1. The field element must familiarize students with the proper installation, maintenance and inspection of common erosion and sediment control BMPs including, but not limited to, blankets, check dams, silt fence, straw mulch, plastic, and seeding.
 2. The test shall be open book and a passing score is not required for certification. Upon completion of the test, the correct answers shall be provided and discussed.

Required Course Elements

1. Erosion and Sedimentation Impacts
2. Erosion and Sedimentation Processes
3. Factors Influencing Erosion Potential
4. Regulatory Requirements
5. Stormwater Pollution Prevention Plan (SWPPP)

Date: 6/19/2008 **Responsible Party: Unknown, Unknown**

Training - CESCL Certification
Type: Construction Site Runoff
Host: ECO-3

Address 1: Cabela's
Address 2: 1600 Gateway Dr NE
City: Lacey
State: WA
Zip: 98516
Description:
Certified Erosion and Sediment Control Lead (CESCL)

Training and Certification and Re-certification Requirements

1. The course shall teach the construction stormwater pollution prevention guidance provided in the most recent version of the Washington State Dept. of Ecology Stormwater Management Manual for Western Washington.
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3. The initial certification course shall be a minimum of 16 hours, include a field element and test.
 1. The field element must familiarize students with the proper installation, maintenance and inspection of common erosion and sediment control BMPs including, but not limited to, blankets, check dams, silt fence, straw mulch, plastic, and seeding.
 2. The test shall be open book and a passing score is not required for certification. Upon completion of the test, the correct answers shall be provided and discussed.

Required Course Elements

1. Erosion and Sedimentation Impacts
2. Erosion and Sedimentation Processes
3. Factors Influencing Erosion Potential
4. Regulatory Requirements
5. Stormwater Pollution Prevention Plan (SWPPP)

Date: 10/9/2008 **Responsible Party: Unknown, Unknown**

Training - Stormwater Ordinance Development

Type: Workshop

Host: Department of Ecology

Address 1:

Address 2:

City: Olympia

State: WA

Zip:

Description:

We'll send out an agenda and some materials for the workshop – the IDDE guidance is already online:

<http://www.ecy.wa.gov/biblio/0810061.html> We expect to have guidance for writing construction and post-construction ordinances published by then as well.

The training will include a presentation on adopting these ordinances into existing code structures, basic components required, and some considerations related to implementation. However, it will not go into detail on specific requirements.

We will have plenty of time for discussion and Q/A, sharing ideas and approaches among jurisdictions. We really value your input, insight and experiences and encourage you to bring a member of your planning staff

Drainage Manual Implementation

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 1/1/2001

End Date: 8/18/2009

Has Goal Been Accomplished: NO

Work performed for the BMP listed above

Date: 2/12/2008 **Responsible Party: Unknown, Unknown**

Training - Stormwater Treatment Short Course

Type: Not Applicable

Host: Gary Minton & City of Tumwater

Address 1: 555 Israel Road SW

Address 2:

City: Tumwater

State: WA

Zip: 98501

Description:

SYLLABUS - WET CLIMATE REGIONS

DAY 1 Doors open 7:30, Course 8:00 to 5:00

TOPIC CONTENT

1 Introduction Course overview and objectives; review of questionnaire results; the role of Volume and Treatment Performance Goals; where does MEP fit it.

2 Stormwater quality What matters to treatment; sources of pollutants; characterization of suspended solids; TSS/SSC; pollutants in stormwater that tend to be dissolved; are we focused on the right pollutants.

3 Treatment Framework

A framework for Stormwater Treatment: Unit Processes and Operations, Systems, and Families. Overview of public-domain and manufactured systems (BMPs) organized as Families: (1) Basins. (2) Swales. (3) Filters, (4) Infiltrators, (5) Screens. What's new and trends in treatment systems.

4 Water flow Hydraulic efficiency: what it is; why it is important; design criteria. Swales: a what the grass really does- the misnomer biofilters; validity of high Manning's coefficient; design elements to maximize hydraulic efficiency in swales, determination of swale bottom width. Wet basins: Plug flow vs. complete-mix; dead zones and short-circuiting, what causes these conditions and design to minimize their effects, e.g. L/W ratio.

5 Sedimentation Basins: current design criteria; dynamic and quiescent settling as related to basins; USEPA method relating basin volume to performance; concept of hydraulic loading rate (HLR); why wet ponds and wetlands are currently grossly oversized and what to do; why extended detention basins do not perform as well as wet basins and alternative design changes to achieve equivalent performance. Pretreatment: sizing for ponds, filters, infiltration basins, bioretention, etc. Swales: a determining swale length, origins of 9-minute and minimum length. Swirl concentrators and other small manufactured vaults: why drop the terms vortex and hydrodynamic separation; comparing products using HLR; recent regulator decisions.

DAY 2 Doors open 7:30, Course 8:00 to ~4:30

TOPIC CONTENT

6 Laminar settling Laminar settling and its application to oil and fine TSS removal; TPH removal by other treatment systems; performance limitations of oil/grit separators; and limiting the use of oil water separators.

7 Inert media filtration

Design criteria; media; terminology; sizing filters based on flow rate and alternatively sediment accumulation/maintenance cycle; new criteria to reduce costs but not performance; maintenance experience.

(bioretention) - sizing, new design criteria and concepts, performance, other benefits; manufactured filters, and drain inlet inserts.

9 Soil processes- Wet ponds/wetlands

Design criteria; uniqueness of saturated soils; pollutant removal processes; possible negative impact of placing wet pools on native soils; soil-pollutant relationships; potential for desorption and possible effects of base flow; sizing wet basins for pollutants other than TSS.

10 Soil processes- Infiltration

Current design criteria; pollutant removal processes; pollutant movement through soil; data on changes in groundwater quality and soil chemistry; porous pavement performance; an alternative method to size infiltration systems.

11 Biological processes

Design criteria; what the plants do; long-term performance of ponds and wetlands; does cropping vegetation help and how answer may differ with each pollutant; is it okay for wet basins to go dry and possible benefits; possible harm of base flow.

12 Maintenance Purposes of maintenance; keys to reduce costs; design to minimize maintenance costs; construction inspection; elements of a post-construction inspection and maintenance program; summary of common inspection actions; the trade off between public domain and manufactured systems with respect to maintenance cost; cost experience; concept of life-cycle cost.

13 Meeting performance goals

Performance goals - types and origins; do we base on % removal or effluent concentration; final summation of performance of different treatment systems; role of source control; requirements and status of certification programs; lab versus field testing; uncertified systems that likely will meet TSS goal; what are the practical lower or "irreducible" effluent concentrations.

14 Final topics Final review of questions in questionnaire; topics raised by attendees not covered in previous sessions.

a. Topic covered where flow-through type swales are used such as the Pacific Northwest and

Date: 7/10/2008 **Responsible Party: Unknown, Unknown**

Training - WWHM V.3 Training - Basic & Advanced

Type: Workshop

Host: AGC Education Foundation

Address 1:

Address 2:

City: Kirkland

State: WA

Zip:

Description:

WESTERN WASHINGTON HYDROLOGY MODEL v. 3 (WWHMv3)

The course content includes training for the version 3 features. Workshop participants will each have access to a computer with the WWHM 3 loaded and ready to use. They will receive hands on instruction from the model. The instruction will include: program installation and setup, step by step walk through of all model features, specific training of pond design capabilities, specific training of water quality design capabilities, numerous project examples, tips and tricks for easy model use, a hard copy of the users manual, and a CD-ROM with all course materials including the full installable version of the WWHMv3

Date: 10/14/2008 **Responsible Party: Unknown, Unknown**

Training - WWHM v.3 Training - Basic & Advanced

Type: Workshop

Host: AGC Education Foundation

Address 1: 10604 NE 38th Place

Address 2: Suite 118

City: Kirkland

State: WA

Zip: 98033

Description:

WESTERN WASHINGTON HYDROLOGY MODEL v.3 (WWHMV3) BASICS WORKSHOP

The course contents will include training for all of the version 3 basic features. Workshop participants

will each have access to a computer with the WWHMv3 loaded and ready to use. They will receive hands on instruction from the model. The instruction will include:

- Program installation and setup
- Step by step walk through of all basic model features
- Specific training of pond design capabilities
- Specific training of water quality design capabilities
- Numerous project examples
- Tips and tricks for easy model use
- A hard copy of the users manual
- A CD-ROM with course materials and the full installable version of WWHM 3

WESTERN WASHINGTON HYDROLOGY MODEL v.3 (WWHMv3) ADVANCED WORKSHOP

The course contents will include training in the advanced features of WWHM3 standard edition plus the WWHM3 PRO Basic features (PRO Basic software will be available for sale). Workshop participants

will each have access to a computer with WWHM3 PRO Basic loaded and ready for use. They will receive hands on instruction. The instruction will include:

- Bioretention/rain gardens
- Green roofs
- Porous pavement
- Culverts/pipes
- User-defined open channels
- Criteria checker
- LID Analysis tool

Municipal O&M and Pollution Prevention

Details of BMPs and Work Performed for Them

Annual Stormwater Facility Inspection Program

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 2/16/2007

End Date: 2/16/2010

Has Goal Been Accomplished:

No activities have been recorded for the BMP listed above during this reporting period

Employee Training

Responsible Party: Dan Smith, Water Resources Program Manager

Start Date: 1/1/2008

End Date: 2/16/2010

Has Goal Been Accomplished: NO

Work performed for the BMP listed above

Date: 1/22/2008 **Responsible Party: Unknown, Unknown**
Training - Phase II Municipal Stormwater Permit Annual Report Training
Type: Permit Administration
Host: WA Department of Ecology

Address 1: Lacey Timberland Library
Address 2: 500 College Street SE
City: Lacey
State: WA
Zip: 98503
Description:

Ecology has prepared the following materials to support your preparation of the Phase II Permit Year 1 Annual Report. Please note that you must submit your signed Annual Report and supporting documentation, including the Stormwater Management Program Document, to Ecology by March 31, 2008. These documents can all be found at the newly published Annual Reports page on Ecology's municipal stormwater website:

www.ecy.wa.gov/programs/wq/stormwater/municipal/annual_reports.html

New Materials

1. Phase II Annual Report Guidance: <http://www.ecy.wa.gov/pubs/0710100.pdf>

This guidance document has three major parts. Part I provides guidance on preparing the Stormwater Management Program (SWMP) Document, per S5.A.2. Part II includes instructions for preparing the Annual Report form as well as clarifications and answers to address Errata in Appendix 3 of the Annual Report form. Part III includes a listing of attachments you may (not) be required to include to address specific questions in your Annual Report. Please note that many of these attachments will not come due in this Annual Reports and require no specific action on your part at this time.

2. ERRATA for Western Washington Phase II City and County Permittees – Annual Report Form

This document provides a number of clarifications/corrections to bring the Appendix 3 Annual Report form (found in the permit) into line with permit requirements.

3. Excel-based Annual Reporting Form: Ph 2 West Ann Rpt.xls

Ecology developed this Excel-based worksheet to enable you to fill out the Annual Report form electronically. You may save this form to your computer and submit the completed form to us via email as part of your Annual Report submittal package.

****We encourage you to use this form, instead of the Appendix 3 (pdf version) found in the permit and at the website above****

4. Steps for Annual Report Electronic Submittal

This brief one-page document describes the steps you will take to download, prepare, and submit the Excel-based Annual Reporting Form.

Please contact me if you have any questions about these materials or the permits in general.

****I would recommend that you download these materials and bring them with you to the workshop. I plan on bringing extra copies and will try to bring bound copies of the Phase II Municipal Stormwater Permit.****

Municipal Stormwater Permit Annual Report Workshops

As a reminder, Ecology will host a series of workshops to assist Phase II municipal staff with completing annual reports as required by the municipal stormwater permits. At these workshops, we will review the materials listed above, including the Excel-based Annual Reporting Form, and answer your questions. You may attend any of the workshops.

*Note: Ecology staff may organize small group meetings for some permit holders in other locations in southwest Washington. Contact your permit manager for details.

Note: We now have available the Phase II Stormwater Workshop: Overview of the Construction and Post-Construction Requirements DVD set. We will also have DVD sets from the Getting In Step training available in the near future. These DVD sets are available on a first come, first serve basis. You may check them out for up to 30 days at a time. If you would like to get on the list to check out a copy of the Training DVDs, please contact me and I will make them available for you.

Don't panic just yet. Most of the questions that you will have to answer for the first reporting year will be answered as N/A because they are projected requirements into subsequent years. After we review the first annual report requirements we will have time to answer any questions that you may have.

Date: 7/23/2008 **Responsible Party: Unknown, Unknown**

Training - Stormwater 101: The Basics

Type: Webcast

Host: US EPA

Address 1:

Address 2:

City: Tumwater

State: WA

Zip:

Description:

Session Description

Confused about regulations, laws, and permits? What are the stormwater requirements and where do they come from? What requirements apply nationally and which are set by the state permitting authorities? Learn the truth about some "urban legends" of the stormwater program.

In 1987, Congress amended the Clean Water Act to require implementation, in two phases, of a comprehensive national program for addressing stormwater discharges. Now, 20 years later, over 6,000 municipalities, 100,000 industrial facilities, and as many as 400,000 construction sites annually are covered under NPDES stormwater permits. This webcast will describe why stormwater is a significant water quality problem, and present an overview of the NPDES stormwater program, including a discussion of the laws, regulations, and permits that shape this complex regulatory program. A summary of the stormwater requirements addressing municipal, construction, and industrial facets of the program will also be discussed.

This fun and interactive webcast is targeted to newcomers to the stormwater program or those that want a refresher on the basic elements of the program. We will offer a light-hearted quiz so that you can test your NPDES knowledge and we'll reserve plenty of time for question from the audience.

Speakers:

Nikos Singelis, U.S. EPA's Stormwater Program

Thelma Murphy, U.S. EPA Region 1

Maintenance Standard Development

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 1/1/2009

End Date: 2/16/2010

Has Goal Been Accomplished:

No activities have been recorded for the BMP listed above during this reporting period

Pollution Prevention Plans

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 1/1/2008

End Date: 2/16/2010

Has Goal Been Accomplished: NO

No activities have been recorded for the BMP listed above during this reporting period

Stormwater Pollution Prevention

Responsible Party: *Dan Smith, Water Resources Program Manager*

Start Date: 1/1/2008

End Date: 2/16/2010

Has Goal Been Accomplished: NO

No activities have been recorded for the BMP listed above during this reporting period