I. Permittee Information

Permittee Name City of Pullman	**Permittee Coverage Number** WAR04-6504
Contact Name Rob Buchert	**Phone Number** 509-338-3314
Mailing Address 325 SE Paradise St	
City Pullman	**State** WA / **Zip + 4** 99163-2631
Email Adddress rob.buchert@pullman-wa.gov	

II. Regulated Small MS4 Location

Jurisdiction City of Pullman	***Entity Type: Put an X in the box that applies***		
	County	**City/Town**	**Other**
		X	
Major Receiving Water(s) South Fork Palouse River			

III. Relying on another Governmental Entity

If you are relying on another governmental entity to satisfy one or more of the permit obligations, list the entity and briefly describe the permit obligation(s) they are implementing on your behalf below. ***Attach a copy of your agreement with the other entity to provide additional detail (unless previously submitted).***

Name of Entity:	**Permit Obligation(s):**
Washington State University	Construction (S5.B.4.)
(Agreement provided to Ecology 3/30/12)	Post-Construction (S5.B.5.)

IV. Certification

All annual reports must be signed and certified by the responsible official(s) of permittee or co-permittees. Please print and sign this page of the reporting form and mail it (with an original signature) to Ecology at the address noted below. An electronic signature will not suffice.

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

Name	Kevin [illegible]	Title	Public Works Director	Date	3/3/14
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	
Name		Title		Date	

VI. Status Report Covering Calendar Year 2013

Jurisdiction: City of Pullman

PLEASE label information in any attachments with corresponding question numbers.
PLEASE fill out your jurisdiction name in line 1 above.
PLEASE refer to the INSTRUCTIONS tab for assistance filling out this table.
For additional clarification on how to answer questions, put cursor over cell with red flagged corners.
PLEASE review your work for completeness and accuracy. Save this worksheet as you go!

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
1	**Attached** annual written update of Permittee's Stormwater Management Program (SWMP), including applicable requirements under S5.A.3 and S9.	Y	The updated SWMP is located on the city's website at www.pullman-wa.gov under "Departments" - "Public Works" - "Stormwater Services".	**Updated SWMP (Attachment 1)**
2	**Attached** a copy of any annexations, incorporations or boundary changes resulting in an increase or decrease in the Permittee's geographic area of permit coverage during the reporting period, and implications for the SWMP as per S9.E.3.	N/A	No Annexations in 2013.	
3	Tracked or estimated the cost of development and implementation of the SWMP. (S5.A.4.a.ii)	Y	A stormwater utility and corresponding enterprise fund were created in 2009 to fund SWMP development and implementation. This provides a permanent tracking and estimating mechanism as part of the city's budget development process. The FY2013 Budget for Stormwater Services was adopted by City Council on December 4, 2012.	
4	Implemented a public education and outreach strategy designed to reach all of the identified target audiences. (S5.B.1.b)	Y		
4a	**Attached** a description of the number and type of public education and involvement activities (S5.B.1.b)	Y		(Attachment 2)

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
5	Made the most current version of the SWMP available to the public. If posted on website, list address in *Comments* field. (S5.B.2.b)	Y	Most current version of SWMP is available on the city's website at www.pullman-wa.gov .	
6	Completed the map of your MS4. (*Required no later than February 15, 2012,* S5.B.3.a)	Y		
6a	**Attached** a sumary of the status of the mapping and updated storm drainage infrastructure information; do not include the map. (S5.B.3.a)	Y	Estimate 95% of MS4 mapped in both AutoCAD & ArcGIS. Completed GPS inventory of all known catch basins and manholes in 2010 and outfalls and detention ponds in 2012. Added pipes, culverts & drainages to GIS in 2013.	
7	Implemented an ongoing program to detect and address non-stormwater discharges to the MS4, including spills and illicit connections. (S5.B.3.c.i through iv)	Y		
8	Field assessed at least one high priority water body or other priority area to verify outfall locations and detect illicit discharges. (S5.B.3.c.ii)	Y	City staff worked with a private consultant to assess the N Stadium Way drainage basin in 2012 and began assessing the Crestview drainage basin in 2013. City staff also assessed Dry Fork Creek in 2013.	
8a	**Attached** a summary of outfalls and illicit discharges discovered, and actions taken to eliminate the illicit discharges. (S5.B.3.c.ii)	Y	Outfall summary provided in 2012 Annual Report. One illicit discharge discovered in Dry Fork Creek. Broken sanitary line identified and replaced.	
9a	Publicized a hotline or other local telephone number for public reporting of illicit discharges, including spills. (S5.B.3.d.ii)	Y		
9b	**Attached** summary of hotline reports received and follow-up actions taken during the reporting period (S5.B.3.d.ii)	Y	3 IDDE hotline calls received in 2013.	(Attachment 3)

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
10	Provided adequate training to all staff responsible for identification, investigation, termination, cleanup, and reporting of illicit discharges and illicit connections. (S5.B.3.f)	Y		
11	Provided training to all municipal field staff that as part of their normal job resonsibilities might come into contact with or otherwise observe an illicit discahrge or illicit connection to the MS4, including office personnel who might receive reports of illicit discharges. (S5.B.3.g)	Y		
12	Implemented procedures for the IDDE program. (S5.B.3.e)	Y		
12a	**Attached** summary of numbers and types of illicit discharges identified; inspections made; and any feedback received from public education efforts. (S5.B.3.e)	Y	5/30/13 - Qualifying SSO (N.Grand). 9/10/13 - Qualifying SSO (Rocky Way-DFC). 10/10/13 - Qualifying SSO (Kamiaken). 10/28/13 - IDDE (WSU-Chiller line break). No public feedback.	
13	Implemented procedures for construction site plan review. (S5.B.4.b)	Y		
14	Reviewed *Stormwater Site Plans* including construction SWPPPs for new development and redevelopment projects.	Y		
14a	Number of site plans reviewed during the reporting period:	Y	19 (11 City, 8 WSU)	
14b	Number of SWPPPs reviewed during the reporting period:	Y	19 (11 City, 8 WSU)	
14c	Number of site plans approved during the reporting period:	Y	11 (3 City, 8 WSU)	

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
15	Implemented procedures for site inspection and enforcement of construction stormwater pollution control measures. (S5.B.4.c)	Y		
16	Provided adequate training for all staff involved in permitting, plan review, field inspection and enforcement for construction site runoff control. (S5.B.4.b.i and S5.B.4.c.ii)	Y		
17	Inspected construction-phase stormwater controls at new development and redevelopment projects. (S5.B.4.c.iii)	Y		
17a	Number of sites inspected during the reporting period:	Y	14 (8 City, 6 WSU)	
18	Provided information to construction site operators about training available on how to comply with requirements in Appendix I and the BMPs in the *Stormwater Management Manual for Eastern Washington,* or an equivalent document. (S5.B.4.d and S5.B.5.e)	Y		
19	Implemented procedures for post-construction site plan review. (S5.B.5.b)	Y		
20	Implemented procedures for post-construction site inspection and enforcement of post-construction stormwater control measures. (S5.B.5.c)	Y		
21	Inspected post-construction stormwater controls, including structural BMPs, at new development and redevelopment projects. (S5.B.5.c)	Y		

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
21a	Number of sites inspected during the reporting period:	Y	11 (8 City, 3 WSU)	
22b	Number of structural BMPs inspected at new development and redevelopment sites during the reporting period:	Y	13 (8 City, 5 WSU)	
23	Inspected structural BMPs at least once during installation. (S5.B.5.c.ii)	Y		
23a	Number of structural BMPs inspected during installation during the reporting period:	Y	11 (8 City, 3 WSU)	
24	Provided adequate training for all staff involved in permitting, planning, review, inspection and enforcement for post-construction stormwater control. (S5.B.5.d)	Y		
25	Implemented the Operation and Maintenance plan for municipal operations. (S5.B.6.a)	Y		
26	Inspected 20% of stormwater treatment and flow control facilities owned or operated by the Permittee. (S5.B.6.a.i)	Y		
26a	Number of known facilities:	Y	42 (41 detention ponds, 1 Vortech vault)	
26b	Number of facilities inspected during the reporting period:	Y	42 (41 detention ponds, 1 Vortech vault)	

Question		Y/N/ NA	Comments (50 word limit)	Name of Attachment & Page Number, if applicable
27	Have NPDES permit coverage for stormwater discharges for all applicable construction projects and industrial facilities. (S5.B.6.a.i)	Y		
28	Conducted spot checks of stormwater facilities after major storms. (S5.B.6.a.ii)	Y		
29	Provided adequate training for staff with primary construction, operations, or maintenance job functions that are likely to impact stormwater quality. (S5.B.6.b)	Y		
30	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	N/A		
31	Notified Ecology immediately in cases where the Permittee becomes aware of a discharge into or from the Permittee's MS4 which could constitute a threat to human health, welfare, or the environment? (G3)	N/A		
32	Took appropriate action to correct or minimize discharges into or from the MS4 which could constitute a threat to human health, welfare, or the environment. (G3.A)	N/A		
33	**Attached** a summary of the status of implementation of any actions taken pursuant to S4.F and the results of monitoring, assessment, and evaluation efforts conducted during the reporting period. (S4.F.3.d)]	N/A		

Information Collection, S8.B.1 Description of Monitoring Studies

If applicable, you are required to provide information to fulfill permit requirement S8.B.1 in each annual report. You must describe any stormwater monitoring or studies conducted by you during the reporting period. If stormwater monitoring was conducted on your behalf, or if studies or investigations conducted by other entities were reported to you, you must briefly describe the type of information gathered or received during the reporting period.

Please note in row #1 of the table below if you have no information to report.

NOTE: Please limit your entries to 255 characters per cell. You may include additional information in your Supplemental Documentation attachment and reference it below with the page number.

Information Collection

	Briefly describe any stormwater monitoring, studies, or type of information collected and analyzed during the reporting period. (S8.B.1)	Who/how to contact for additional information?
1.	Crestview/Dry Fork Creek Fecal Coliform Bacteria Study - TMDL Implementation	Rob Buchert, Stormwater Services Program Manager - rob.buchert@pullman-wa.gov
2.	PCB Reconnaissance	Kevin Gardes, Public Works Director - kevin.gardes@pullman-wa.gov
3.		
4.		
5.		
6.		

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part B for all annual reports.

B. SWMP Evaluation

You are required to assess the appropriateness of the BMPs you have selected to implement your SWMP. This evaluation is necessary to evaluate whether the MEP standard set by the permit is protective of water quality in your receiving water bodies. This assessment may be entirely qualitative. Answer **NA** if you are not yet implementing BMPs for a component of the SWMP. (S8.B.2 and S9)

	Question	Y/N/NA	Comments (50 word limit)
1.	Are the BMPs selected and implemented for Public Outreach appropriate to minimize pollutants in the MS4 to the MEP?	Y	
2.	Are the BMPs selected and implemented for Public Involvement appropriate to minimize pollutants in the MS4 to the MEP?	Y	
3.	Are the BMPs selected and implemented for Illicit Discharge Detection and Elimination appropriate to minimize pollutants in the MS4 to the MEP?	Y	
4.	Are the BMPs selected and implemented for Construction Stormwater Pollution Prevention appropriate to minimize pollutants in the MS4 to the MEP?	Y	
5.	Are the BMPs selected and implemented for Post-Construction Runoff Management appropriate to minimize pollutants in the MS4 to the MEP?	Y	
6.	Are the BMPs selected and implemented for Good Housekeeping for Municipal Operations appropriate to minimize pollutants in the MS4 to the MEP?	Y	

VII. Information Collection, BMP Evaluation, and Monitoring

Complete Part C for all annual reports.

C. Changes in BMPs or objectives (S8.B)

If any of the BMPs or objectives is being changed, list the old BMP and objective, the new BMP and objective, and a justification for the change below. (S8.B.2., and S9)

NOTE: You may choose to attach additional documentation justifying Changes in BMPs or objectives. Note such attachments in the *Justification for change* field.

	Old BMP	Old Objective	New BMP	New Objective	Justification for Change
1	N/A				
2					
3					
4					
5					
6					
7					

ATTACHMENT 1

City of Pullman
Stormwater Management Program (SWMP)

Last Updated 02/28/14

Related to Question #1 in Annual Report (Section VI)

Stormwater Management Program
(SWMP)

Last Updated: February 28, 2014

Prepared By:

Stormwater Services Division
Public Works Department

Background

In 1987, Congress amended the federal Clean Water Act to include stormwater discharges in the National Pollutant Discharge Elimination System (NPDES) permit program. The Environmental Protection Agency (EPA) developed rules to implement the new stormwater requirements in two phases called Phase I and Phase II. The Washington State Department of Ecology (Ecology) implements these stormwater rules through municipal stormwater permits. The Phase I permit, which went into effect in 1990, covers large jurisdictions such as cities and counties serving more than 100,000 people. In 1999, EPA issued the Phase II stormwater permit regulations to cover stormwater discharges in urbanized areas that serve smaller populations (Ecology, 2006).

There are two separate Phase II municipal stormwater permits in the State of Washington, one for western Washington and one for eastern Washington. Ecology issued the NPDES Eastern Washington Phase II Municipal Stormwater Permit (Permit) in January 2007. The city of Pullman (City) was granted coverage under the Permit soon after. Eighteen other cities and six counties in eastern Washington are also covered under the Permit. The original Permit became effective February 16, 2007 and has since been modified, extended and re-issued unchanged with a new expiration date of July 31, 2014. This is the Permit the city is currently operating under. An updated Permit with additional modifications has also been issued with an effective date of August 1, 2014.

The first Permit was designed to give jurisdictions an opportunity to develop their stormwater management programs and prepare for the next permit cycle (now beginning August 1, 2014) which will require additional actions and an increased level of management and oversight. The City has spent the past seven years developing its stormwater management program in accordance with the requirements of the Permit, including adoption of new ordinances, changing policies and procedures, purchasing new equipment and training staff.

The current Permit, as well as information related to the next Permit, can be viewed in its entirety on Ecology's website below.

http://www.ecy.wa.gov/programs/wq/stormwater/municipal/phaseiiEwa/ewph2permit.html

Hatley Creek Storm Drainage Basin Study

In 2000, responding to citizen concerns and recognizing that stormwater runoff was a growing problem, the City hired consulting firm Gray & Osborne to conduct a study of the Hatley Creek drainage basin. Hatley basin is located in the southwest quadrant of town and drains approximately 760 acres (both city & county) which have been experiencing a high rate of development. The purpose of the study was to recommend a level of stormwater quantity control that seeks to decrease the existing peak rate of stormwater runoff in the basin, as well as provide water quality benefits. As a result of

the study, the City requires enhanced stormwater detention design standards for all new and re-development within the Hatley basin (Gray & Osborne, 2000).

The Water Quality Problem

Pullman's network of storm drains is classified as a municipal separate storm sewer system (MS4). The storm drain system is separate from and therefore does not convey stormwater to the City's wastewater treatment plant. Stormwater runoff has been identified by Ecology as "the number one water pollution problem in the urban areas of our state" (Ecology, 2007). Pollutants commonly found in stormwater include fertilizers, pesticides, vehicle fluids, trash, sediment and pet waste. Stormwater can also contribute to problems associated with flooding.

Most storm drains within Pullman empty directly into the South Fork Palouse River (SFPR) or one of its main tributaries that flow through town. According to Ecology, the SFPR is on the State's list of impaired water bodies for not meeting water quality criteria for temperature, dissolved oxygen, pH and fecal coliform bacteria. Ecology has completed a Water Clean-up Plan or Total Maximum Daily Load (TMDL) for fecal coliform bacteria and is in the process of developing TMDLs for the remaining parameters. Water quality sampling related to the TMDLs has shown that Pullman's stormwater quality is similar to other urban areas across the nation, indicating a need for enhanced stormwater management.

Stormwater Management Program (SWMP)

The city of Pullman has been managing its stormwater for a long time. However, to be more effective and successfully meet permit compliance requirements, enhanced coordination between the various staff and departments that deal with stormwater issues is essential. The Permit requires the city of Pullman to develop and implement a comprehensive Stormwater Management Program (SWMP). An updated SWMP documenting the actions the City plans to implement to satisfy State requirements and protect water quality is required to be made available to Ecology by March 31st and to the public by May 31st of each year. The SWMP and other related documents are available on the City's Stormwater Services website below.

http://www.pullman-wa.gov/departments/stormwater-services

Early in 2007, the City hired consulting firm Otak, Inc. to assist with development of Pullman's first SWMP. Otak worked closely with City staff and in September 2007 produced the *Final Stormwater Program Implementation Plan*. The Implementation Plan contains the following Sections:

- Background
- Stormwater Program Definition Process
- Regulatory Gap Analysis - Process & Results

- Detailed Annual Stormwater Program Implementation Matrices
- Resources Needed for Pullman's Updated Stormwater Program
  - Estimated Annual Program Revenue Needs & Sources
  - NPDES Equipment & Funding Needs
  - Capital Improvement Plan

As required by the Permit, the Implementation Plan addressed the following elements:

- Public Education and Outreach
- Public Involvement & Participation
- Illicit Discharge Detection & Elimination
- Construction Site Stormwater Runoff Control
- Post-Construction Stormwater Management for New Development and Redevelopment
- Pollution Prevention & Good Housekeeping for Municipal Operations
- Compliance with Total Maximum Daily Load (TMDL) Allocations
- Monitoring & Program Evaluation
- Reporting & Recordkeeping

In 2008 the City chose to create a new Stormwater Services Division within the Public Works Department and hired a program manager to coordinate all the activities identified in the Implementation Plan.

In January 2009, Otak, Inc. produced the *Stormwater Program Funding Alternatives and Financial Plan (FAFP)*. The FAFP included program and projected budget needs for the newly created program. The FAFP served as a necessary update to the Implementation Plan. Funding decisions related to the Stormwater Services Division now follow the City's annual formal budget approval process (see *Stormwater Utility* below).

Among other things, the Permit required the City to adopt ordinances addressing illicit discharge detection and elimination (IDDE), runoff from construction sites and post-construction stormwater management. The City adopted an IDDE ordinance in August 2009 which added a new Chapter 10.31 to Pullman City Code (PCC). The City also adopted a combined Construction and Post-Construction stormwater ordinance in January 2011 which added a new Chapter 10.32 to PCC.

A stormwater field technician/inspector was hired in January 2010 to implement and enforce the provisions in these program areas. Also, in accordance with the Implementation Plan, budget has been allocated to the Maintenance & Operations Division to ramp up maintenance activities related to the City's stormwater system. An operations and maintenance plan (O&M Plan) that prescribes regularly scheduled maintenance activities on the stormwater system has been developed. In 2011, the City purchased a jet-vactor truck and other specialized equipment to begin implementing the O&M Plan. Recently, budget was also allocated to assist the Parks Department with

litter control and pet waste management. The Engineering Division also receives an annual allocation of Stormwater funding in order to provide drawing, mapping and other technical support.

Stormwater Utility

Much like water supply and sanitary sewer systems, maintaining and replacing an aging storm drain infrastructure and providing other stormwater management services is very costly. In February 2009, the Pullman City Council created a storm drainage and surface water management utility and corresponding enterprise fund to sustain the stormwater program. This provides a permanent tracking and financial planning mechanism as part of the city's overall budget development process. The annual budget for Stormwater Services is typically adopted by City Council in December of each year. The utility currently only charges fees for developed properties with impervious surfaces. In 2011, an Advisory Committee was formed to provide the City Council with a recommendation on whether or not undeveloped properties should also be charged a stormwater utility fee. After a six month facilitated process, the Advisory Committee recommended to not charge undeveloped properties.

Using updated aerial photography and ArcGIS mapping software, city staff and stormwater consultant URS, Inc. are currently working on an update to the stormwater utility customer database. The update will include new impervious surface measurements and resulting fee adjustments and will be completed in Summer 2014.

The codified stormwater utility ordinance is located in Chapter 10.30 of PCC and can be viewed on the City's website below.

http://www.pullman-wa.gov/

Recent Activities

2013 saw continued development and implementation of the City's Stormwater Management Program. Notable activities included:

General Program Administration

- Continued management of and compliance with the City's NPDES Phase II Municipal Stormwater Permit.
- Applied for and received a grant from Washington Department of Ecology totaling $170,000 for NPDES Permit implementation and design of Low Impact Development (LID) practices on four city owned parking lots.
- Continued participation in the Eastern Washington NPDES Coordinators Forum.
- Employed a part-time Stormwater Aide to assist with volunteer coordination, pet waste management and field maintenance activities.

Public Education & Outreach

- Continued education and outreach efforts via website, news media and personal interaction with the public, including 2,400 radio ads targeting pet owners.
- Partnered with the Palouse-Clearwater Environmental Institute (PCEI), Pullman School District and private schools to integrate stormwater related information into the 5th and 8th grade science curriculum. The stormwater information was delivered in 15 classes totaling 389 students.
- Sponsored three WSU student interns including a MS in Engineering, a BS in Engineering and a BS in Wildlife Ecology. The students primarily worked on updating our detention pond and outfall inventories, light maintenance and public involvement activities such as the Stream Clean-up, the Adopt-a-Stream and pet waste management programs.
- Continued promotion of car wash kit and storm drain stenciling programs.

Public Involvement

- Partnered with the Palouse-Clearwater Environmental Institute (PCEI) to sponsor the 9th Annual Pullman Stream Clean-up event in April. Over 200 volunteers spent 600+ hours cleaning Pullman's streams by removing an estimated 12 cubic yards of trash and recyclables. Litter was removed from 4.4 miles of stream plus an additional 1.75 miles of the Grand Avenue Greenway and other off-stream public areas.
- Continued development of the Pullman Adopt-a-Stream Program. All thirteen available segments were adopted by "Stream Stewards" who conducted a minimum of three clean-up activities throughout the year.

Illicit Discharge Detection & Elimination (IDDE)

- Completed GPS inventory of detention pond assets within 41 public detention ponds (inlets, outlet structures, energy dissipaters, etc.).
- Responded to, investigated and resolved stormwater/illicit discharge related complaints.
- Continued development of a pet waste management program, including manufacture, distribution and/or installation of a total of 77 new pet waste stations in and along Pullman's parks and trails.
- Began and completed Phase I of the West Crestview/Dry Fork Creek Fecal Coliform Bacteria Investigation Study.

Construction Site Runoff Control

- Reviewed Site Plans and Stormwater Pollution Prevention Plans (SWPPPs) for large grading and new construction projects.
- Reviewed Erosion and Sediment Control (ESC) plans for projects of Tri-plex size or smaller (mostly single family residential homes).
- Conducted 214 documented construction related erosion control inspections.

Post-Construction Stormwater Management

- Reviewed drainage reports and civil drawings of post-construction stormwater BMPs included in plans for newly proposed development.
- Actively participated on Low Impact Development Stakeholder Advisory Group (LID-SAG) for development of the Eastern Washington LID Guidance Manual.

Pollution Prevention & Good Housekeeping – Municipal Operations

- Successfully applied for and received Certificate of No Exposure (CNE) designation for the Pullman Transit and WWTP facilities under the City's NPDES Industrial Stormwater Permits.
- Provided stormwater awareness training to staff from most City departments.

Capital Projects

- As part of its capital improvement program, the City repaired approximately 1,000 ft of aging and failing stormwater main line on NE Stadium Way from N Grand Avenue to "B" St.

2014 promises to be even busier with the following activities already underway or planned:

Stormwater in the Classroom

The City will continue partnering with PCEI, the Pullman School District and private schools to challenge students with water quality and stormwater related exercises that compliment the science curriculum. In 2014, lessons will be developed to engage 5th graders, 8th graders and 11th graders.

Annual Pullman Stream Clean-up

The City will partner again with PCEI to sponsor the 10th Annual Stream Clean-up event on Saturday April 5, 2014. Other major partners involved in the Stream Clean-up include Pullman Parks & Recreation, Pullman Transit, Pullman Disposal Service, Pullman Civic Trust and numerous local businesses that donate food and other materials for the event.

Pullman Adopt-a-Stream Program

The City will continue to partner with PCEI to implement a program modeled after the adopt-a-highway program, where community groups and/or businesses can "adopt" a segment of stream in town and then be responsible for keeping it clean. As of January 1, 2014, all 13 of the identified segments of stream have been adopted, with a waiting list of potential stewards. Creation of three additional segments are planned for 2014.

West Crestview Illicit Connection Study

Phase I of the study was very successful and led to elimination of a significant source of fecal coliform bacteria to Dry Fork Creek. In Phase II, City staff and water quality consultant Worldthree, LLC will continue to attempt to identify sources of fecal coliform bacteria and other indicators within the West Crestview Street drainage basin and its receiving waterbody, Dry Fork Creek.

As part of the TMDL process, Ecology identified this section of Dry Fork Creek as needing a reduction in fecal coliform bacteria. In addition to traditional grab sample methods, the study is using multiple ultra-sensitive temperature probes deployed throughout the drainage basin to identify potential illicit connections. The drainage basins being studied are primarily residential in nature with some light commercial near the outfalls to Dry Fork Creek.

Pet Waste Management

To complement the additional pet waste stations installed throughout town, City staff have applied for and received grant funding for a pet waste receptacle pilot project. The grant will be used to purchase new waste receptacles that will be placed by pet waste stations and can be serviced by garbage trucks with automated side lifting (ASL) capability. City staff will evaluate whether the new ASL cans are cleaner, safer and more convenient than existing waste collection methods and whether they are a cost-effective alternative. The need for additional waste receptacles was identified by City staff and members of the public who use the pet waste stations.

Detention Pond Maintenance Needs Evaluation

Using the Stormwater Management Manual for Eastern Washington as a guide, City staff have identified fourteen maintenance issues potentially needing to be addressed for each of the City's 41 detention ponds. In 2014, City staff will evaluate and document the needs of each pond and develop a schedule for completing the necessary maintenance. Maintenance will be performed by the City's Maintenance and Operations Division, Parks and Recreation Department, Stormwater Services Division and/or private contractors.

Stormwater Utility Update

The original stormwater utility was established by measuring impervious surfaces using aerial photographs from April 2006. Using updated photographs from 2012, the City will review and if necessary amend existing customer accounts. New accounts will also be added as needed. New ArcGIS maps of the impervious surface within Pullman was created as part of this process.

Contacts

Questions about Pullman's Stormwater Management Program can be directed to:

Rob Buchert
Stormwater Services Program Manager
City of Pullman
325 SE Paradise St.
Pullman, WA 99163
(509) 338-3314
rob.buchert@pullman-wa.gov

Questions about the Eastern Washington Phase II Municipal Stormwater Permit can be directed to:

David Duncan
Municipal Stormwater Permit Manager
WA Dept. of Ecology
4601 North Monroe Street
Spokane, WA 99205
(509) 329-3554
ddun461@ecy.wa.gov

References

Gray & Osborne, Inc. 2000. *Hatley Creek Storm Drainage Basin Study.*

Washington State Department of Ecology. 2006. *Frequently Asked Questions about Municipal Stormwater Permits*. Publication No. 06-10-005 (revised).

Washington State Department of Ecology. 2007. *Protecting Washington's Waters From Stormwater Pollution*. Publication No. 07-10-058.

ATTACHMENT 2

Public Education & Involvement Activities

Related to Question #4a in Annual Report (Section VI)

Eastern Washington Phase II Municipal Stormwater Permit - ATTACHMENT 2

Q4a: Public Education & Involvement Activities - 2013

Public Education & Outreach

- Continued education and outreach efforts via website, news media and personal interaction with the public, including 2400 radio ads targeting pet owners.
- Partnered with the Palouse-Clearwater Environmental Institute (PCEI), Pullman School District and private schools to integrate stormwater related information into the 5th and 8th grade science curriculum. The stormwater information was delivered in 15 classes totaling 389 students.
- Sponsored several WSU student interns, one seeking a MS in Engineering, one seeking a BS in Engineering and one seeking a BS in Wildlife Ecology. The students primarily worked on updating our detention pond and outfall inventories, light maintenance and public involvement activities such as the Stream Clean-up, the Adopt-a-Stream and pet waste management programs.

Public Involvement

- Partnered with the Palouse-Clearwater Environmental Institute (PCEI) to sponsor the 9th Annual Pullman Stream Clean-up event in April. Over 200 volunteers spent 600+ hours cleaning Pullman's streams by removing an estimated 12 cubic yards of trash and recyclables. Litter was removed from 4.4 miles of stream plus an additional 1.75 miles of the Grand Avenue Greenway and other off-stream public areas.
- Continued development of the Pullman Adopt-a-Stream Program. All thirteen available segments were adopted by "Stream Stewards" who conducted clean-up activities throughout the year.

ATTACHMENT 3

IDDE Hotline Calls & Responses

Related to Question #9b in Annual Report (Section VI)

Buchert, Rob

From: Buchert, Rob
Sent: Wednesday, April 17, 2013 9:12 AM
To: 'Duncan, David Joseph (ECY)'
Cc: Sprouse, Shilo
Subject: Pullman Potential IDDE

Dave,

Just wanted to let you know of a few recent potential IDDE incidents that occurred here in Pullman.

1) 2/11 – Hotline call about motor oil deposited in a residential catch basin. Unable to identify responsible party. Response – Vactored/jetted, then hung 12 informational door hangers and affixed "No dumping-drains to stream" markers on storm drains in the area. No evidence that the oil traveled beyond the catch basin. Issue resolved within 4 hrs.
2) 3/25 – City staff report of anti-freeze spilled on a commercial parking lot that made its way to a private catch basin. Response - Property owner swept/vactored/jetted. No evidence of spill entering MS4 or surface waters. Issue resolved within 36 hrs.
3) 4/1 - Hotline call about a local business that was washing off their pavement with a hose and sprayer. Response – Contacted business manager. Area was dry swept first, then hosed down with no detergents. We discussed a few additional BMPs that might be employed and will follow-up with a site visit. Issue resolved within 1 hr.
4) 4/9 – Hotline call about overflowing sanitary line. Determined to be plugged private service line. Some solids and liquids present on grass, some liquid in street gutter. Did not reach nearest catch basin. Response – Contacted tenants and told them to cease sanitary use. Contacted property manager. Plumber called to site for repair and clean-up. Issue resolved within 3 hrs.

The size of the spills and the amounts of material were small (<1 gal). Nothing too exciting, but I wanted to report them to cover the bases. There was no evidence to suggest that any material reached surface waters. Response, investigation and resolution are all happening pretty quickly. We seem to be getting more calls lately, presumably because of our increased outreach efforts. Hopefully it will continue.

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