

DEPARTMENT OF
ECOLOGY
State of Washington

Water Quality Program

Permit Submittal Electronic Certification

Permittee: ARLINGTON CITY

Permit Number: WAR045501

Site Address: 238 N OLYMPIC AVE
Arlington, WA 98223

Submittal Name: MS4 Annual Report Phase II Western

Version: 1

Due Date: 3/31/2015

Questionnaire

Number	Permit Section	Question	Answer
1	S5.A.2	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2)	3-26-2015Final_1_03262015_1040.docx
2	S9.D.5	Attach 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 per S9.D.5.	Not Applicable
3	S5.A.3	Implemented an ongoing program to gather, track, and maintain information per S5.A.3, including costs or estimated costs of implementing the SWMP.	Yes
4	S5.A.5.b	Coordinated among departments within the jurisdiction to eliminate barriers to permit compliance. (S5.A.5.b)	Yes
4b	S5.A.5.b	Attach a written description of internal coordination mechanisms. (Required to be submitted no later than March 31, 2015, S5.A.5.b)	of internal coordination mechanisms_4b_03262015_1040.docx
5	S5.C.1.a.i and ii	Attach description of public education and outreach efforts conducted per S5.C.1.a.i and ii.	Education and Outreach_2014Final_5_03032015_1106.docx
6	S5.C.1.b	Created stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.1.b.	Yes
7	S5.C.1.b	Used results of measuring the understanding and adoption of targeted behaviors among at least one audience in at least one subject area to direct education and outreach resources and evaluate changes in adoption of targeted behaviors. (Required no later than February 2, 2016, S5.C.1.b)	Not Applicable
7b	S5.C.1.b	Attach description of how this requirement was met.	

8	S5.C.2.a	Describe the opportunities created for the public to participate in the decision making processes involving the development, implementation and updates of the Permittee's SWMP. (S5.C.2.a)	Present at City Council Public Meeting, available on City Web Site. Also opportunity during Public Education and Outreach efforts to suggest changes to the SWMP
9	S5.C.2.b	Posted the updated SWMP Plan and latest annual report on your website no later than May 31. (S5.C.2.b)	Yes
9b	S5.C.2.b	List the website address.	http://www.arlingtonwa.gov/modules/showdocument.aspx?documentid=3713
10	S5.C.3.a.i - vi	Maintained a map of the MS4 including the requirements listed in S5.C.3.a.i.-vi.	Yes
11	S5.C.3.b.v	Implemented a compliance strategy, including informal compliance actions as well as enforcement provisions of the regulatory mechanism described in S5.C.3.b. (S5.C.3.b.v)	Yes
12	S5.C.3.b.vi	Updated, if necessary, the regulatory mechanism to effectively prohibit illicit discharges into the MS4 per S5.C.3.b.vi. (Required no later than February 2, 2018)	Not Applicable
12b		Cite the Prohibited Discharges code reference	Not Applicable
13	S5.C.3.c.i	Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.3.c.i.	Yes
13b	S5.C.3.c.i	Cite methodology	Performed MAQWA water quality assesment wadeable stream survey with DOE, SnoCo, and dept of Health in 2013
14	S5.C.3.c.i	Percentage of MS4 coverage area screened in reporting year per S5.C.3.c.i. (Required to screen 40% of MS4 no later than December 31, 2017 (except no later than June 30, 2018 for the City of Aberdeen) and 12% on average each year thereafter. (S5.C.3)	30
15	S5.C.3.c.ii	List the hotline telephone number for public reporting of spills and other illicit discharges. (S5.C.3.c.ii)	360-403-4600
15b	S5.C.3.c.ii	Number of hotline calls received.	0
16	S5.C.3.c.iii	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.3.c.iii.	Yes
17	S5.C.3.c.iv	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. (S5.C.3.c.iv)	Yes
17b	S5.C.3.c.iv	Describe the information sharing actions. (S5.C.3.c.iv)	Employee training and public outreach education events
18	S5.C.3.d	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.3.d.	Yes

19	S5.C.3.d.iv	Number of illicit discharges, including illicit connections, eliminated during the reporting year. (S5.C.3.d.iv)	15
20	S5.C.3.d.iv	Attach a summary of actions taken to characterize, trace and eliminate each illicit discharge found by or reported to the permittee. For each illicit discharge, include a description of actions according to required timeline per S5.C.3.d.iv	IDDE'S_20_03262015_1050.docx
21	S5.C.3.e	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.3.e.	Yes
22	S5.C.4.a	Implemented an ordinance or other enforceable mechanism to address runoff from new development, redevelopment and construction sites per the requirements of S5.C.4.a.	Yes
24	S5.C.4.a.i	Number of exceptions granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)	0
25	S5.C.4.a.i	Number of variances granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)	0
26	S5.C.4.b.i	Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.i)	Yes
26b	S5.C.4.b.i	Number of site plans reviewed during the reporting period.	16
27	S5.C.4.b.ii	Inspected, prior to clearing and construction, permitted development sites that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 Determining Construction Site Sediment Damage Potential, or alternatively, inspected all construction sites meeting the minimum thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.ii)	Yes
27b	S5.C.4.b.ii	Number of construction sites inspected per S5.C.4.b.ii.	8
28	S5.C.4.b.iii	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls. (S5.C.4.b.iii)	Yes
28b	S5.C.4.b.iii	Number of construction sites inspected per S5.C.4.b.iii.	9
29	S5.C.4.b.ii, iii and	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.4.b.ii, iii and v)	0
30	S5.C.4.b.iv	Inspected all permitted development sites that meet the thresholds in S5.C.4.a.i upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.4.b.iv)	Yes
31	S5.C.4.b.ii-iv	Achieved at least 80% of scheduled construction-related inspections. (S5.C.4.b.ii-iv)	Yes

32	S5.C.4.b.iv	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects. (S5.C.4.b.iv)	Yes
33	S5.C.4.c	Implemented provisions to verify adequate long-term operation and maintenance (O&M) of stormwater treatment and flow control BMPs/facilities that are permitted and constructed pursuant to S5.C.4. a and b. (S5.C.4.c)	Yes
35	S5.C.4.c.iii	Annually inspected stormwater treatment and flow control BMPs/facilities per S5.C.4.c.iii.	Yes
35b	S5.C.4.c.iii	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.4.c.iii	Not Applicable
36	S5.C.4.c.iv	Inspected new residential stormwater treatment and flow control BMPs/facilities and catch basins every 6 months per S5.C.4.c.iv to identify maintenance needs and enforce compliance with maintenance standards.	Not Applicable
37	S5.C.4.c.v	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C.4.c.v)	Yes
38	S4.C.4.c.vi	Verified that maintenance was performed per the schedule in S5.C.4.c.vi when an inspection identified an exceedance of the maintenance standard.	Yes
38b	S5.C.4.c.vi	Attach documentation of any maintenance delays. (S5.C.4.c.vi)	Not Applicable
39	S5.C.4.d	Provided copies of the Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity to representatives of proposed new development and redevelopment. (S5.C.4.d)	Yes
40	S5.C.4.e	All staff responsible for implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement are trained to conduct these activities. (S5.C.4.e)	Yes
42	S5.C.4.g	Participated and cooperated with the watershed-scale stormwater planning process led by a Phase I county. (S5.C.4.g)	Yes
43	S5.C.5.a	Implemented maintenance standards as protective, or more protective, of facility function as those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington.	Yes
44	S5.C.5.a	Applied a maintenance standard that is not specified in the Stormwater Management Manual for Western Washington.	Not Applicable
44b	S5.C.5.a	Please note what kinds of facilities are covered by this alternative maintenance standard. (S5.C.5.a)	
45	S5.C.5.a.ii	Performed timely maintenance per S5.C.5.a.ii.	Yes
46	S5.C.5.b	Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.5.b)	Yes

46b	S5.C.5.b	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.5.b)	15
46c	S5.C.5.b	Number of facilities inspected during the reporting period. (S5.C.5.b)	15
46d	S5.C.5.b	Number of facilities for which maintenance was performed during the reporting period. (S5.C.5.b)	2
47	S5.C.5.b	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.5.b.	Not Applicable
48	S5.C.5.c	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.5.c.	Yes
49	S5.C.5.d	Inspected all municipally owned or operated catch basins and inlets as per S5.C.5.d, or used an alternative approach. (Required once no later than August 1, 2017 and every two years thereafter, except once no later than June 30, 2018 and every two years thereafter for the City of Aberdeen)	Not Applicable
49b	S5.C.5.d	Number of known catch basins.	3829
49c	S5.C.5.d	Number of catch basins inspected during the reporting period.	1161
49d	S5.C.5.d	Number of catch basins cleaned during the reporting period.	1161
50	S5.C.5.d.i-ii	Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.5.d.i or ii)	Not Applicable
51	S5.C.5.f	Implemented practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (S5.C.5.f)	Yes
52	S5.C.5.g	Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.5.g.)	Yes
53	S5.C.5.h	Implemented a Stormwater Pollution Prevention Plan for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under an NPDES permit that covers stormwater discharges associated with the activity. (S5.C.5.h)	Yes
54	S7.A	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)	Yes
55	S7.A	For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)	TMDL activities_55_03242015_1042.docx
56	S8.A	Attach a description of any stormwater monitoring or stormwater-related studies as described in S8.A.	Not Applicable

57	S8.B.1	Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for status and trends monitoring. (S8.B.1)	Yes
58	S8.C.1	Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for effectiveness studies. (S8.C.1) (Required to begin no later than August 15, 2014)	Yes
59	S8.D.1	Contributed to the RSMP for source identification and diagnostic monitoring information repository in accordance with S8.D.1. (Required to begin no later than August 15, 2014)	Yes
60	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3)	Not Applicable
61	G3	Number of G3 notifications provided to Ecology.	0
62	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Not Applicable
63	S4.F.1	Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1)	Not Applicable
64	S4.F.3.a	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a.	Not Applicable
65	S4.F.3.d	Attach a summary of the status of implementation of any actions taken pursuant to S4.F.3 and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)	Not Applicable
66	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Not Applicable
67	G20	Number of non-compliance notifications (G20) provided in reporting year.	0
67b	G20	List the permit conditions described in non-compliance notification(s).	Not Applicable

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Bill Blake

3/26/2015 1:45:31 PM

Signature

Date

Summary of 2014 Stormwater Education and Outreach events

Sarah Lopez and Bill hosted the 7th annual Eagle Festival. We were blessed once again with a nice sunny February day and estimated around 2,000 people of all ages that came and enjoyed the event. We had many volunteers and groups that participated in making the festival a huge success.

Arbor Day Celebration turned out to be a wonderful sunny Saturday morning with forty volunteers planting Two-hundred and twenty two trees around the campsites at County Charm. The volunteers also planted an Incense Cedar and two Oso berries while holding a moment of silence in remembrance of the Oso slide victims. There was education regarding the function of trees and how they contribute to improving water quality in the Stillaguamish.

Bill attended the April Future Farmers of America (FFA) advisory meeting to review the updated program language. The FFA teacher has added a Natural Resources element to the program as requested to provide a broad technical training that could help students prepare for multiple employment opportunities. This aligns with the Arlington School Districts General Advisory Committee for their Career Technologies Training program. Bill sits on that committee and is promoting education and curriculum that supports students that may go in to Stormwater or Natural Resources fields.

The Stormwater Department helped a local Girl Scout troop that was looking for an Earth Day project. We gave them a tour of the Old-town stormwater wetland and planted approximately twenty trees Monday evening. The girls were very interested in the wetland project and would like to install a bench on the site in honor of the Steelhead Haven Slide victims

Bill submitted a draft Interlocal Agreement (ILA) with Snohomish Conservation District to provide in-classroom outreach and education required by our Stormwater NPDES permit. The details of the program are listed in the ILA.

Sound Salmon Solutions did a salmon outreach and education function at Country Charm. Included in the education was utilizing the buffer plantings and log jams as teaching aids of what other landowners can do to improve salmon habitat.

Bill gave a talk to the ROMEO (Retired Old Men Eating Out) group at Gleneagle on the impacts of the sediment coming down the river from the Steelhead Haven slide on our drinking water supply. Also discussed was how we are coordinating with other agencies in regards to economic recovery actions associated with the slide.

Bill Blake led a tour of the Lower Stillaguamish to the Senior EPA advisor Ellen Gilinsky who was visiting from Washington DC. Her interests are in floodplain management, especially efforts associated with cooperative efforts between fisheries, farming and flooding.

The City partnered with Sound Salmon Solutions to have 75 youth volunteers clean-up twin rivers park. The campers from Camp Kalsman picked up beer bottles and cigarette butts that had been littered on the beaches the weekend before the clean-up. The attached pictures are of the camp counselors that enjoyed their day in Arlington supervising the 75 kids.

Bill taught a riparian ecology and water quality monitoring class in Darrington to a group of Forestry Institute students. The course is intended to give High School age children a glimpse of future job opportunities and an understanding of the water quality conditions in their local stream. This course was coordinated by three of the Oso Slide WSU interns.

Bill Coordinated with Troy Davis and his group of Latter Day Saints Church members who helped clean up the Island Area along the Stillaguamish River downstream of Haller park as their “Day of Caring” project. This area had been a campsite used by a group of about 10 transients though-out the summer. There were 4 truckloads of garbage removed from the site.

Bill and Ken met with Jim Johnson from Smokey Point Community Church for another Day of Caring Project. The Church group needed work for approximately 50 – 70 volunteers. We gave them a tour of the Stormwater wetland for blackberry removal, and the trails and stream corridors in Jensen farm area for garbage removal. The City does not have staff to accomplish these elective tasks so the effort is greatly appreciated

Bill attended an evening stormwater workshop titled “Natural Yard Care”. This is the program the City contributed capacity grant funds towards to assist in meeting the NPDES compliance element of measuring behavior change resulting from stormwater education. Bill attended this workshop as a representative from the City of Arlington in case there were any questions asked towards the City.

Bill, Ken and Oly from the Street department coordinated with Crown Ridge Homeowners association to host the first Stormwater Management Training targeted for privately owned ponds. Invitations were emailed through the neighborhood program administrator Maxine Jenft to those associations for which the City has contact information. Two associations (Gleneagle 4, Crown Ridge 2) showed up with a total of six individuals. A third association could not attend that meeting so we scheduled and met the following week at the Norwood Glen facility.

Sound Salmon Solutions requested that Bill Blake teach a class on Watersheds and Ecosystem processes. Bill was able to utilize the Old-town Stormwater Wetland as an example of how the City was utilizing Ecosystem services to help treat the pollution from the streets, yards and roofs of Old-town.

Our Old-town stormwater wetland was submitted to an organization called “Feet First Washington”. <http://www.feetfirst.org/> Stormwater staff provided information on the creation and function of the wetland and recreational walking benefits being enjoyed by our citizens. The wetland profile should be up on the web page in the near future as they were completing final edits in early November.

Bill was requested to go speak to the Arlington High School AP Environmental Science class. They have been working on a project on East Prairie Creek where the stream passes under the wooden bridge. They have mapped and are studying the accumulation and impacts from garbage being thrown or blown in to the stream/wetland. The class decided that a student driven clean-up project could be combined with a tree planting project for next year’s Arbor Day celebration.

Ashley Deward, a Freshman at Arlington High School spent an entire work day job shadowing Bill Blake. The two main learning experiences were a spirited stormwater staff meeting, and performing spawning surveys on the annual stream spawning index reaches.

City of Arlington 2014 IDDEs

- 2011-1 Cuz concrete slurry runoff - tied into MS4

“The City will work with Ecology to reschedule a visit to the Cuz site and determine the appropriate actions.” BB (10-22-2014)

- 2004-001 Snohomish County: (ERTS) paving created an oil sheen downstream. Snohomish County was notified as it was outside City limits
- 2014-002 Airport fuel leaks: Citizen reported that fueling stations at Airport were leaking and that a previous aircraft leak was not responded too. After investigating, both allegations were proven to be false.
- 2014-003 Bragger: Neighbor reported that a vehicle was leaking fluids and was not being attended to
Owner of vehicle utilized drip pan as well as absorbent for the minor leak
- 2014-004 Commercial Aircraft Interiors: (ERTS) Report of washing down of chemicals into storm system
Ecology sampled storm system for contaminates however nothing was found
- 2014-005 Rosten Automotive: Citizen reported oil flowing from cb on pvt. property
Owner of property notified and system was cleaned
- 2014-006 Axis Roofing employee seen washing out spray tanks onto ground
Owner proved spray was only dye, and would change cleanout procedures
- 2014-007 WBL Automotive: (ERTS) Neighboring business states that mop water and sandblast sand is being put into onsite storm system
No evidence was found onsite. Owner notified of neighbor watching
- 2014-008 172nd roundabout: asphalt tack in a tote had fallen off a truck
Contractor cleaned up tack without incident
- 2014-009 Antifreeze dumped into catchbasin
Resident caught dumping antifreeze into catchbasin – City had effected basin and downstream system cleaned
- 2014-010 172nd Manure fell onto street from truck
City coordinated with driver and facility to clean up using shovels and sweeper

- 2014-011 Puget Sound Kidney Center- 11-6-2014 It appears that something is being discharged into the storm system below the loading dock that is eating the concrete around the basin (12-22-14) I talked to Marv Schloee (Maintenance Chief) and he stated that they will clean the affected areas as well as change the way the disposal methods.

Misc. events-

- 3-24-2014 - 17503 Ironwood neighbor called to report leaking vehicles
I was unable to make contact with resident. IDDE closed out as requested by supervisor.
- Country manor – Oil/diesel found in two manholes on 10-23-2014 (unknown origin) – placed pads in to absorb fuel then changed out. IDDE forwarded to supervisor on 10-23- 14 as requested

4B - Attach a written description of internal coordination mechanisms. (Required to be submitted no later than March 31, 2015, S5.A.5.b)

Internal coordination mechanism include:

- 1) Maintenance/work orders sent to the M&O dept. intended not only to notify of work needing to be done but to open communications for any issues that may be found by maintenance workers while in the field. All work documented in Cartagraph a city wide accessed data base.
- 2) Perform permit reviews to comment on upcoming events and new businesses within Arlington that could potentially negatively impact the stormwater system.
- 3) Attend managers meetings to be included the other departments in the course and requirements of the stormwater dept.
- 4) Provide training for IDDE identification and response
- 5) Participate in City fairs and festivals with other departments and coordinated staffing and exhibit set up.
- 6) SWMP is presented to a City Council Workshop and made available on the web page for access by staff and the public.

Washington Department of Ecology Submission Cover Letter

**WQWebSubmittal - Submittal Submission Id: 1490833 - 3/26/2015
1:45:32 PM**

Report Received Dated:

3/26/2015 1:45:33 PM

Company Name	Signer Name	System Name
City of Arlington	Bill Blake	WQWebPortal

Attachments:

Document Name of Description	Document File Name
	3-26-2015Final_1_03262015_1040.docx
Submitted Copy of Record for City of Arlington	Copy of Record CityofArlington Thursday March 26 2015

Attestation Agreed to at Signing:

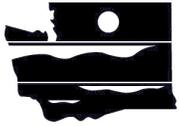
I certify I personally signed and submitted to the Department of Ecology an Electronic Signature Agreement. I understand that use of my electronic signature account/password to submit this information is equal to my written signature. I have read and followed all the rules of use in my Electronic Signature Agreement. I believe no one but me has had access to my password and other account information.

I further certify: I had the opportunity to review the content or meaning of the submittal before signing it; and to the best of my knowledge and belief, the information submitted is true, accurate, and complete. I intend to submit this information as part of the implementation, oversight, and enforcement of a federal environmental program. I am aware there are significant penalties for submitting false information, including possible fines and imprisonment.

**For Ecology Use Only ---
Dev**



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14	S5.C.3.c.i	Percentage of MS4 coverage area screened in reporting year per S5.C.3.c.i. (Required to screen 40% of MS4 no later than December 31, 2017 (except no later than June 30, 2018 for the City of Aberdeen) and 12% on average each year thereafter. (S5.C.3)	30
15	S5.C.3.c.ii	List the hotline telephone number for public reporting of spills and other illicit discharges. (S5.C.3.c.ii)	360-403-4600
15b	S5.C.3.c.ii	Number of hotline calls received.	0
16	S5.C.3.c.iii	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.3.c.iii.	Yes
17	S5.C.3.c.iv	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. (S5.C.3.c.iv)	Yes
17b	S5.C.3.c.iv	Describe the information sharing actions. (S5.C.3.c.iv)	Employee training and public outreach education events
18	S5.C.3.d	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.3.d.	Yes

19	S5.C.3.d.iv	Number of illicit discharges, including illicit connections, eliminated during the reporting year. (S5.C.3.d.iv)	15
20	S5.C.3.d.iv	Attach a summary of actions taken to characterize, trace and eliminate each illicit discharge found by or reported to the permittee. For each illicit discharge, include a description of actions according to required timeline per S5.C.3.d.iv	IDDE'S_20_03262015_1050.docx
21	S5.C.3.e	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.3.e.	Yes
22	S5.C.4.a	Implemented an ordinance or other enforceable mechanism to address runoff from new development, redevelopment and construction sites per the requirements of S5.C.4.a.	Yes
24	S5.C.4.a.i	Number of exceptions granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)	0
25	S5.C.4.a.i	Number of variances granted to the minimum requirements in Appendix 1. (S5.C.4.a.i., and Section 6 of Appendix 1)	0
26	S5.C.4.b.i	Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.i)	Yes
26b	S5.C.4.b.i	Number of site plans reviewed during the reporting period.	16
27	S5.C.4.b.ii	Inspected, prior to clearing and construction, permitted development sites that have a high potential for sediment transport as determined through plan review based on definitions and requirements in Appendix 7 Determining Construction Site Sediment Damage Potential, or alternatively, inspected all construction sites meeting the minimum thresholds adopted pursuant to S5.C.4.a.i. (S5.C.4.b.ii)	Yes
27b	S5.C.4.b.ii	Number of construction sites inspected per S5.C.4.b.ii.	8
28	S5.C.4.b.iii	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls. (S5.C.4.b.iii)	Yes
28b	S5.C.4.b.iii	Number of construction sites inspected per S5.C.4.b.iii.	9
29	S5.C.4.b.ii, iii and	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.4.b.ii, iii and v)	0
30	S5.C.4.b.iv	Inspected all permitted development sites that meet the thresholds in S5.C.4.a.i upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.4.b.iv)	Yes
31	S5.C.4.b.ii-iv	Achieved at least 80% of scheduled construction-related inspections. (S5.C.4.b.ii-iv)	Yes

32	S5.C.4.b.iv	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects. (S5.C.4.b.iv)	Yes
33	S5.C.4.c	Implemented provisions to verify adequate long-term operation and maintenance (O&M) of stormwater treatment and flow control BMPs/facilities that are permitted and constructed pursuant to S5.C.4. a and b. (S5.C.4.c)	Yes
35	S5.C.4.c.iii	Annually inspected stormwater treatment and flow control BMPs/facilities per S5.C.4.c.iii.	Yes
35b	S5.C.4.c.iii	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.4.c.iii	Not Applicable
36	S5.C.4.c.iv	Inspected new residential stormwater treatment and flow control BMPs/facilities and catch basins every 6 months per S5.C.4.c.iv to identify maintenance needs and enforce compliance with maintenance standards.	Not Applicable
37	S5.C.4.c.v	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C.4.c.v)	Yes
38	S4.C.4.c.vi	Verified that maintenance was performed per the schedule in S5.C.4.c.vi when an inspection identified an exceedance of the maintenance standard.	Yes
38b	S5.C.4.c.vi	Attach documentation of any maintenance delays. (S5.C.4.c.vi)	Not Applicable
39	S5.C.4.d	Provided copies of the Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity to representatives of proposed new development and redevelopment. (S5.C.4.d)	Yes
40	S5.C.4.e	All staff responsible for implementing the program to control stormwater runoff from new development, redevelopment, and construction sites, including permitting, plan review, construction site inspections, and enforcement are trained to conduct these activities. (S5.C.4.e)	Yes
42	S5.C.4.g	Participated and cooperated with the watershed-scale stormwater planning process led by a Phase I county. (S5.C.4.g)	Yes
43	S5.C.5.a	Implemented maintenance standards as protective, or more protective, of facility function as those specified in Chapter 4 of Volume V of the 2005 Stormwater Management Manual for Western Washington.	Yes
44	S5.C.5.a	Applied a maintenance standard that is not specified in the Stormwater Management Manual for Western Washington.	Not Applicable
44b	S5.C.5.a	Please note what kinds of facilities are covered by this alternative maintenance standard. (S5.C.5.a)	
45	S5.C.5.a.ii	Performed timely maintenance per S5.C.5.a.ii.	Yes
46	S5.C.5.b	Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.5.b)	Yes

46b	S5.C.5.b	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.5.b)	15
46c	S5.C.5.b	Number of facilities inspected during the reporting period. (S5.C.5.b)	15
46d	S5.C.5.b	Number of facilities for which maintenance was performed during the reporting period. (S5.C.5.b)	2
47	S5.C.5.b	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.5.b.	Not Applicable
48	S5.C.5.c	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.5.c.	Yes
49	S5.C.5.d	Inspected all municipally owned or operated catch basins and inlets as per S5.C.5.d, or used an alternative approach. (Required once no later than August 1, 2017 and every two years thereafter, except once no later than June 30, 2018 and every two years thereafter for the City of Aberdeen)	Not Applicable
49b	S5.C.5.d	Number of known catch basins.	3829
49c	S5.C.5.d	Number of catch basins inspected during the reporting period.	1161
49d	S5.C.5.d	Number of catch basins cleaned during the reporting period.	1161
50	S5.C.5.d.i-ii	Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.5.d.i or ii)	Not Applicable
51	S5.C.5.f	Implemented practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the Permittee, and road maintenance activities under the functional control of the Permittee. (S5.C.5.f)	Yes
52	S5.C.5.g	Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.5.g.)	Yes
53	S5.C.5.h	Implemented a Stormwater Pollution Prevention Plan for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee in areas subject to this Permit that are not required to have coverage under an NPDES permit that covers stormwater discharges associated with the activity. (S5.C.5.h)	Yes
54	S7.A	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)	Yes
55	S7.A	For TMDLs listed in Appendix 2: Attach a summary of relevant SWMP and Appendix 2 activities to address the applicable TMDL parameter(s). (S7.A)	TMDL activities_55_03242015_1042.docx
56	S8.A	Attach a description of any stormwater monitoring or stormwater-related studies as described in S8.A.	Not Applicable

57	S8.B.1	Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for status and trends monitoring. (S8.B.1)	Yes
58	S8.C.1	Participated in cost-sharing for the regional stormwater monitoring program (RSMP) for effectiveness studies. (S8.C.1) (Required to begin no later than August 15, 2014)	Yes
59	S8.D.1	Contributed to the RSMP for source identification and diagnostic monitoring information repository in accordance with S8.D.1. (Required to begin no later than August 15, 2014)	Yes
60	G3	Notified Ecology in accordance with G3 of any discharge into or from the Permittees MS4 which could constitute a threat to human health, welfare or the environment. (G3)	Not Applicable
61	G3	Number of G3 notifications provided to Ecology.	0
62	G3.A	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Not Applicable
63	S4.F.1	Notified Ecology within 30 days of becoming aware that a discharge from the Permittee's MS4 caused or contributed to a known or likely violation of water quality standards in the receiving water. (S4.F.1)	Not Applicable
64	S4.F.3.a	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a.	Not Applicable
65	S4.F.3.d	Attach a summary of the status of implementation of any actions taken pursuant to S4.F.3 and the status of any monitoring, assessment, or evaluation efforts conducted during the reporting period. (S4.F.3.d)	Not Applicable
66	G20	Notified Ecology of the failure to comply with the permit terms and conditions within 30 days of becoming aware of the non-compliance. (G20)	Not Applicable
67	G20	Number of non-compliance notifications (G20) provided in reporting year.	0
67b	G20	List the permit conditions described in non-compliance notification(s).	Not Applicable

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 gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Bill Blake

3/26/2015 1:45:31 PM

Signature

Date



City of Arlington

2015

Stormwater Management Program

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Credits: The cover photo was taken during a Stormwater Workshop held for Neighborhood Homeowners Associations. The City brought in our Vector truck to educate the Neighborhood representatives on the type of equipment and actions that are necessary to maintain functioning Stormwater Management Systems.

1. Reader's Guide

1.1. Why We're Here

Since 1972, the Clean Water Act (CWA) has been the cornerstone of surface water quality protection in the United States. Its primary goal is to restore and maintain the chemical, physical, and biological integrity of the nation's waters so that they can support "the protection and propagation of fish, shellfish, and wildlife and recreation in and on the water".

Within the CWA, the National Pollutant Discharge Elimination System (NPDES) permit program is a tool for the management of pollutants discharged from point sources, such as where pipes and ditches empty into rivers. Initially applied to industrial dischargers and publicly-owned treatment works (POTWs), CWA amendments in 1987 expanded the program to include stormwater runoff in areas with the greatest potential to negatively impact water quality, defined as municipalities with a 1990 population of over 100,000 people. In Washington State, where the Department of Ecology (Ecology) has been delegated the NPDES permit authority; these communities were regulated under the Phase I NPDES Municipal Stormwater Permit.

In 1999, the NPDES stormwater permit program was extended—as "Phase II"—to cover point and non-point (dispersed) stormwater discharges from "small" municipal separate stormwater sewer systems (MS4s), as well as for construction activity that disturbs between 1 and 5 acres of land. Phase II communities include those that:

- Own and operate a storm drain system
- Discharge to surface waters
- Are located in urbanized areas
- Have a population greater than 1,000

Across Washington State, 104 towns, cities and counties located within urban areas—including the City of Arlington—met these criteria. Other neighboring Phase II communities include the Cities of Marysville and Granite Falls. The City of Stanwood does not meet all of the criteria and is not regulated under the NPDES Phase II stormwater program.

Ecology regulates all Phase II communities in Western Washington under one permit. Drafting of the Phase II Municipal Stormwater Permit for Western Washington (the Permit) began in the Fall of 2004. The formal permit was issued on January 17, 2007, and became effective February 16, 2007. Ecology will administer the permit in 5-year cycles. The past term was scheduled to expire on February 15, 2012, but was extended through July 31, 2013.

Since August 1, 2013 the City has been operating under the updated NPDES Phase II 2013 – 2018 permit. There were appeals to a couple of issues the permit which resulted in changes that were eventually resolved. The Washington State Department of Ecology (Ecology) issued the final modified Phase I and

Western Washington Phase II Municipal Stormwater Permits (Permits) on December 17, 2014. The modified permits become effective on January 16, 2015.

The Permit may be considered to be the City of Arlington's "license to pollute" as long as the CWA objectives of "fishable, swimmable" waters are met. This authorization covers only the incidental impacts of the City's stormwater discharges to surface water and groundwater after it demonstrates its best efforts to limit stormwater pollution to the "maximum extent practicable".

Additional information regarding the Phase II Municipal Stormwater Permit for Western Washington can be found on Ecology's website:

<http://www.ecy.wa.gov/programs/wq/stormwater/municipal/phaseIIww/wwphiipermit.html>.

1.2. Program requirements

The Permit requires the City to develop and implement a Stormwater Management Program (SWMP) that addresses Permit conditions grouped according to the following components:

- Public Education and Outreach
- Public Involvement
- Illicit Discharge Detection and Elimination
- Runoff Control for New Development, Redevelopment and Construction Sites
- Pollution Prevention for Municipal Operations and Maintenance
- Total Maximum Daily Loads (TMDLs), also known as water clean-up plans

Annually the City must:

- Submit its SWMP document to Ecology describing compliance activities planned for the coming permit year
- Post the SWMP document on the web
- Submit an annual report documenting Permit compliance activities for the previous calendar year.

Each annual SWMP work plan is to be developed with input from the public.

Ultimately, guided by public opinion, this SWMP will direct City leaders and staff in its annual responsibilities for protecting our rivers, streams, and wetlands. City departments that may be affected by this 2015 SWMP, and their abbreviations within this SWMP, include:

- Public Works Utilities Division (PW Utilities);
- Community and Economic Development Maintenance and Operations Division (CED M&O, and Parks);
- Public Works Engineering Division (PW Eng.);
- Community and Economic Development Permit Center (CED Permit);
- Public Works(PW Admin, Sewer, Water, Stormwater, Natural Resources)
- Finance Department (Finance);
- Information Technology (IT);
- Human Resources Department (HR);
- Fire Department (FD)

1.3. What's Inside

As shown in the Table of Contents, this 2015 SWMP work plan is then formatted to address the various Permit conditions groups: development of a SWMP administrative structure; Public Education; Public Involvement ; Illicit Discharges; Runoff Controls; Municipal Operations ; Water Clean-up Plans or TMDLs; and Monitoring. Each section uses a series of two tables to describe the work plan intended to address the Permit conditions in that group. The first table is a digest of the individual permit conditions and their schedule. The second table identifies the work activities to be completed in 2015, and the departments responsible for their implementation. Some efforts may be extended as necessary incorporate adaptive management responses for continuous improvement of the SWMP.

Appendix A of this document also includes the text of the Western Washington Phase II Municipal Stormwater Permit. The appendices to the Permit itself have been excluded, except for applicable portions of Appendix 2 regarding TMDLs. The Permit contains a list of useful definitions and acronyms that may be referenced within this or future SWMP work plans.

1.4. What's New

You are reading Version 2015 of the City of Arlington’s Stormwater Management Program work plan. The SWMP is expected to be a living, changing document, particularly through mid-year as staff and public input crafts the SWMP into its final form. Table 1-1 is intended to document key changes from the previous versions of the SWMP.

Table 1-1. Version History of the City of Arlington SWMP Work Plan

Version	Release Date	Significant Changes from Previous Versions
2008-1	02/15/2008	First pre-release
2008-2	03/28/2008	More thorough documentation of current activities and proposed work activities in 2008. No public input received for consideration since previous version. This version submitted with 2007 annual report.
2008-3	3/31/2008	Provide template for future documentation of natural and built environments in Section 2.

2009-1	3/27/2009	First release of second year of SWMP. Update for 2008 implemented activities and 2009 proposed activities. Complete Section 2 descriptions of stormwater system and setting. This version referenced in City's 2008 NPDES II permits annual report.
2010-1	3/31/2010	First release of 2010 includes implemented activities in 2009 and proposed activities in 2010. This version referenced in City's 2009 NPDES II permit annual report.
2011-1	3/31/2011	First release of 2011 includes implemented activities through 2010 and proposed activities for 2011. This version referenced in City's 2010 NPDES II permit annual report. Implementation of this SWMP version is intended to achieve full permit compliance by the end of the permit term, February 16, 2012. Includes Bacterial Pollution Control Plan within TMDL Section 9.4
2012/13	3/31/2012	First release of 2012/13 includes implemented activities through 2011, and proposed activities through July 31, 2013. This version referenced in the City's 2011 NPDES II annual report. Implementation of this SWP is intended to continue full compliance with the permit. This version will also include reference to monitoring and maintenance of the new Old-town stormwater wetland.
2013	3/31/2013	First release includes activities through 2013. This version referenced in 2012 NPDES II permits annual report.
2014	3/31/2014	First release is modified from previous versions. This version reduces the content down from three tables per chapter to two tables. The first table shows what is required for that chapter, and the second table shows the proposed actions for the upcoming year.
2015	3/31/15	First release includes several new elements required in the 2013 – 2018 updated Phase II permit.

2. Stormwater Management Program Administration

This section addresses Permit conditions regulating the City's administration of the overall SWMP.

2.1. What's Required

The Permit requires the City to meet certain SWMP administrative conditions, some of which are summarized in Table 2-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 2-1. Permit Requirements for Stormwater Management Program Administration

Reference	Digest of Selected Permit Conditions	Effective
S5.A.2	Written SWMP organized by program components, updated at least annually, and submitted with annual reports	03/31/08
S5.A.3a	Account for SWMP program costs	01/01/09
S5.A.3b	Document SWMP program activities, including inspections, enforcement actions, education and other activities	02/16/07
S5.A.5	Coordinate with other NPDES stormwater permittees to assure efficient programs, particularly where MS4s and water bodies are interconnected or shared	02/16/07
S9.A	Annual reports required for previous calendar year	03/31/08
S9.C, D	Maintain SWMP-related records—available to the public—for at least 5 years	02/16/07
S9.E	Annual report contents: Ecology-provided report form documenting City's evaluation of SWMP implementation and compliance, and implementation schedule, and geographic area under Permit	03/31/08

2.2 What's Next

Table 2-2. City of Arlington 2015 Work Plan to Address Permit Requirements for Stormwater Management Program Administration

Reference	Proposed Effort	Who ¹	Schedule
S5.A.2	Meet with City staff to begin revision of SWMP for 2015	PW Utilities	3/1/15
S5.A.2	Meet or talk with interested public to present and solicit input on draft SWMP	PW Utilities	Variable
S5.A.2	Draft 2015 SWMP incorporating City comments	PW Utilities	03/31/15

Reference	Proposed Effort	Who ¹	Schedule
S5.A.3a	Through the use of financial and asset tracking the City can provide cost estimates of program components	PW Utilities	Ongoing
S5.A.3b	Continue documentation of street and stormwater maintenance activities	CED M & O, PW Utilities	Ongoing
S5.A.3b	Continue implementation, development, evolution of inspection, enforcement, education and other forms for implementation of asset management database (Cartegraph)	PW Utilities	Ongoing
S5.A.5	Continue regular participation in regional (North Sound Permittees) NPDES stormwater forum; coordinate efforts as opportunities evolve; quarterly meetings anticipated	PW Utilities	Ongoing
S5.A.5	Continued participation with City of Marysville in regards to management of interconnecting facilities	PW Utilities, PW Eng. CED	Ongoing
S9.A, E	Submit 2014 annual report utilizing the Ecology electronic reporting system.	PW Utilities	March 31, 2015
S9.C, D	File 2014 annual report and supporting materials electronically on Utilities server	PW Utilities	Ongoing
N/A	Continue the process of updating the land use code, standards and specifications, and citywide comprehensive plan to meet 2013 – 2018 NPDES permit. (Herrera providing consultant support through a DOE NEP grant)	PW Utilities, City Council CED	Ongoing through June 2015
N/A	Present SWMP / Stormwater Utility info at City Council Workshop	PW Utilities	Spring 2015
S5.C.3.a.i.	Update the GIS mapping of the City by defining the difference between “outfall” or “discharge point” as defined in the permit.	PW Utilities	November 2016

¹ First department listed in each cell assumes lead role

3. Public Education and Outreach

This section addresses Permit conditions regulating the City’s public education and outreach activities under the SWMP.

3.1. What’s Required

The Permit requires the City to implement certain public education and outreach activities, some of which are summarized in Table 3-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 3-1. Permit Requirements for Public Education and Outreach

Reference	Digest of Selected Permit Conditions	Effective
S5.C.1.a	Develop an education and outreach program to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts; target populations and topics prioritized below	02/16/09
S5.C.1.a.i	Priority 1—General Public: general stormwater impacts, impervious surfaces, source control BMPs, stewardship for pet owners and homeowners	02/16/09
S5.C.1.a.ii	Priority 2—Public and businesses: BMPs for automotive & other hazardous chemicals; soaps and cleaning supplies; illicit discharges	02/16/09
S5.C.1.a.iii	Priority 3—Homeowners, landscapers, property managers: yard care practices, pesticide/fertilizer use, carpet cleaning, auto repair, LID practices, storm pond maintenance	02/16/09
S5.C.1.a.iv	Priority 4—Engineers, contractors, developers, permit staff, planners: technical standards for plans, LID techniques, water quality & flow control BMPs	02/16/09
S5.C.1.b	Measure understanding and adoption of targeted behaviors in target audiences	02/16/09
S5.C.1.c	Document PEO efforts	02/16/07

3.2 What’s Next

Table 3.2. City of Arlington 2015 Work Plan to Address Permit Requirements for Public Education and Outreach (PEO)

Reference	Proposed Effort	Who ¹	Schedule
S5.C.1.a	Document and schedule the City's pertinent Public Education and Outreach efforts under Stormwater Utility	Stormwater Utility	Ongoing in 2015
S5.C.1.a	Continue meeting with County staff and watershed groups to identify cooperative education opportunities	Stormwater Utility	Goal of 2 meetings 2015
S5.C.1.a	Coordinate with Snoh. County, Sound Salmon Solutions and Snohomish Conservation District and Stillaguamish Tribe to identify cooperative education opportunities	Stormwater Utility	Ongoing
S5.C.1.a	Meet with Stillaguamish Stewardship and Education Committee	Stormwater Utility	Ongoing
S5.C.1.a.i	Participate in the Region wide Natural Yard Care program monitoring behavior change in general public	Stormwater Utility	Ongoing
S5.C.1.a.i	Use the database of streamside landowners to mail out brochures of Best Management Practices	Stormwater Utility	Spring2015
S5.C.1.a.i	Continue efforts with Arlington School District representative to review environmental education curricula for stormwater, water conservation, refuse/recycle	Stormwater Utility	Ongoing
S5.C.1.a.i	Integrate stormwater education curriculum in schools currently receiving stormwater rate adjustments	Stormwater Utility	Ongoing – New Natural Resources Program at High School
S5.C.1.a.i	Outreach at Eagle Festival; cooperative effort with Stilly Tribe, TNC; focus on stormwater treatment, constructed wetland; distribute brochures	Stormwater Utility	Ongoing, 8 th annual Eagle Festival, Wetland getting lots of visitors
S5.C.1.a.i	Request the AQWA Team Earth Day event be in the northern end of the Quilceda. Consider hosting it @ the stormwater wetland?	Stormwater Utility	Summer 2015

Reference	Proposed Effort	Who ¹	Schedule
S5.C.1.a.i	Outreach at Arbor Day Portage Creek High School Environmental Science Class Tree Planting event	Stormwater Utility	April 2015
S5.C.1.a.i	Outreach at Arlington Fair	Stormwater Utility	July 15
S5.C.1.a.i	Outreach at River Festival	Stormwater Utility	August 15
S5.C.1.a.ii	Continue to develop PEO approaches to address targeted behaviors in businesses and other hazardous materials users	Stormwater Utility	Ongoing – with help from ECOSS
S5.C.1.a.ii	Use handouts targeted to businesses on expected /required stormwater protection practices	Stormwater Utility	Ongoing
S5.C.1.a.ii	Outreach to businesses (TBD) Spill kits handed out to 100+ businesses	Stormwater Utility	Ongoing - with help from ECOSS
S5.C.1.a.ii	Outreach to businesses at Arlington Street Fair	Stormwater Utility	July 15
S5.C.1.a.ii	Outreach to residents, landscapers and property managers/owners	Stormwater Utility	Ongoing through 2015
S5.C.1.a.ii	Outreach residents, landscapers and property managers/owners at Arlington Fair	Stormwater Utility	July 15
S5.C.1.a.ii	Outreach to gardeners at Arlington Garden Club	Stormwater Utility	Schedule with Garden Club
S5.C.1.a.ii.c	Continue to develop PEO approaches to address targeted behaviors in “development designers”	Stormwater Utility	Ongoing, include in LID Code Update
S5.C.1.b	Meet with City’s Engineer, PW inspector, Building Official, Planners to facilitate education and outreach opportunities for developers, permit applicants, project proponents	Stormwater Utility, PW Eng, CED Permit	Discussions and education during the LID Code adoption process

Reference	Proposed Effort	Who ¹	Schedule
S5.C.1.b	Outreach to “development designers”	Stormwater Utility, PW Eng., CD Nat Res, CD Permit, CD Planning	Ongoing
S5.C.1.b	Outreach to city leaders at City Council workshop – Finalize the planning and adoption of updating the land use codes, standards and specification and Comprehensive plan	Stormwater Utility	2015, presented to Council for consideration of adoption in June
S5.C.1.b	Provide stormwater literature in City Council Chambers’ foyer for leaders and public use	PW Utilities,	Ongoing
S5.C.1.b	Consider adaptive management action resulting from participation in the Region wide Natural Yard Care, Behavior change program being led by Snohomish County	PW Utilities, All	August 2015
S5.A.5.a	Continue participation in regional stormwater forum or education group	PW Utilities	As scheduled
S5.A.3	Document education efforts	PW Utilities,	Ongoing
S5.A.3	Track PEO efforts across the City through including action in monthly stormwater internal report	Public Works	Ongoing

¹ First department listed in each cell assumes lead role

4. Public Involvement and Participation

This section addresses Permit conditions regulating the City’s public involvement and participation activities under the SWMP.

4.1. What’s Required

The Permit requires the City to implement certain public involvement and participation activities, some of which are summarized in Table 4-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 4-1. Permit Requirements for Public Involvement and Participation

Reference	Digest of Selected Permit Conditions	Effective
S5.C.2	Provide opportunities for public involvement in stormwater matters; e.g., advisory councils, watershed committees, stewardship programs, rate structure studies	02/16/07
S5.C.2a	Meet state and local public notice requirements when developing the SWMP; provide process for public to participate in SWMP development and updates	02/16/08
S5.C.2b	Post SWMP, annual report, and other submittals on City's web site	03/31/08

4.1. What's Next

Table 5-3. City of Arlington 2014 Work Plan to Address Permit Requirements for Public Involvement and Participation

Reference	Proposed Effort	Who ¹	Schedule
S5.C.2	Publish invitations to public participation in stormwater or water education activities on-line and in local newspaper. Utilize the Arlington E-News to provide timely outreach.	Stormwater Utility	Ongoing 2015
S5.C.2	Solicit guest articles (Arlington Times or Update) from general public involved or expressing interest in stormwater and natural resources issues	Stormwater Utility	Goal of one guest article in 2015
S5.C.2	Continue hosting projects for Scouts and youth organizations including local Schools.	PW Nat Res	Ongoing
S5.C.2a	Publish SWMP notice (advertisement) in Arlington Times	Stormwater Utility	5/31/15
S5.C.2.b	Improve web page to solicit public input on the 2015 SWMP	PW Utilities, CD Nat Res	Ongoing
S5.C.1a.i.(a)	Distribute Streamside landowner brochure; place on info racks in Council Chambers, City Hall, web page	PW Utilities	March, 2015

Reference	Proposed Effort	Who ¹	Schedule
S5.C.2a	Also see public involvement and participation activities identified for the SWMP under condition S5.A.2 in Table 3-3	PW Utilities	Ongoing
S5.C.2.b	Post SWMP, annual report, and other 2014 report submittal materials on City web site	PW Utilities	May 31, 2015

¹ First department listed in each cell assumes lead role

5. Illicit Discharge Detection and Elimination

This section addresses Permit conditions regulating the City's illicit discharge detection and elimination (IDDE) activities under the SWMP.

5.1. What's Required

The Permit requires the City to implement certain IDDE activities, some of which are summarized in Table 5-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 5-1. Permit Requirements for Illicit Discharge Detection and Elimination

Reference	Digest of Selected Permit Conditions	Effective
S5.C.3	Full implementation of an IDDE program	08/16/11
S5.C.3.a	Prepare and maintain stormwater infrastructure map, with structures, outfalls, new connections, areas not discharging to surface waters, etc.	02/16/11
S5.C.3.b	Implement IDDE ordinance, addressing: potable water sources, lawn watering, swimming pools, street and sidewalk wash water, other non-stormwater discharges; includes enforcement strategy	08/16/09
S5.C.3.c	Implement IDDE identification program, including prioritizing sites, field assessment & screenings, source ID characterization, corrective procedures	08/16/11
S5.C.3.d.i	Inform public employees, businesses, general public of impacts of illegal discharges & improper waste disposal; distribute info to target audiences in S5.C.1	08/16/11

Reference	Digest of Selected Permit Conditions	Effective
S5.C.3.d.ii	Implement public hotline for reporting IDDE violations	02/16/09
S5.C.3.e	Develop IDDE program tracking database	02/16/07
S5.C.3.f.i	Training for City employees involved in IDDE activities	08/16/09
S5.C.3.f.ii	Training for all City employees	02/16/10

5.2 What's Next

Table 5-3. City of Arlington 2013 Work Plan to Address Permit Requirements for Illicit Discharge Detection and Elimination

Reference	Proposed Effort	Who ¹	Schedule
S5.C.3.a	Continue infrastructure mapping to fill in gaps where historic data is not available., and add new facilities to maps	Stormwater Utility, PW Eng.	Ongoing
S5.C.3.a	Continue implementation of Cartegraph stormwater asset management system to track facility inspections and maintenance work orders	Stormwater Utility Permit Center GIS	Ongoing
S5.C.3.a	Continue comprehensive mapping of hydrography in/near city with GPS or acceptable alternative	PW Eng., Stormwater Utility,	Ongoing
S5.C.3.a	Continue comprehensive mapping of watercourses in/near city in geodatabase	PW Eng., Stormwater Utility PW Nat Res	Ongoing
S5.C.3.a	Complete the Geo-Spatial Analysis identified in the NEP grant proposal	PW GIS., PW Nat Res, Stormwater Utility	June 2015 Grant Completion.

Reference	Proposed Effort	Who ¹	Schedule
S5.C.3.b	Revise City Engineering Standards for consistency with AMC 13.28 and IDDE permit conditions	PW Utilities, PW Eng.,	June 2015 Grant Completion
S5.C.3.c	Internal review and training of staff on SOPs for IDDE (screening priority areas, patrolling, characterization, tracing, corrective measures, and enforcement	PW Utilities Permit Center Maintenance and Operations	Ongoing, held at department staff meetings.
S5.C.3.b.v	Investigate all illicit discharges as observed by or reported to the Utility. Correct through cooperative, educational efforts with business owners	Stormwater Utility	Ongoing
S.7 Appendix 2	The City will begin Stillaguamish TMDL sampling January 2015.	Stormwater Utility	January 1, 2015
	The City will continue source identification work based on review of water quality data.	Stormwater Utility	Ongoing
S5.C.3.d.i	Update web site educational information to highlight IDDE; anticipated to be a multi-year effort	Stormwater Utility, IT	September to prepare for rainy season
S5.C.3.d.ii	Continue to publish IDDE hotline phone number on City communication tools Continuous hotline ad on community TV	Stormwater Utility	Ongoing
S5.C.3.e	Investigate opportunity and appropriateness for incorporating an IDDE database component within Cartegraph asset management system and GIS	Stormwater Utility	When IDDE event is in MS4, and can be tied to an asset
S5.C.3.e	Document feedback from IDDE public education efforts	Stormwater Utility	Ongoing, ECOSS program
S5.C.3.e	IDDE PEO responses will be documented and referenced in report when available.	Stormwater Utility	Ongoing, ECOSS program report

Reference	Proposed Effort	Who ¹	Schedule
S5.C.3.c,f	Provide follow-up training to all city field crews as to the identification, reporting, and correction of illicit stormwater discharges; request input on implementation of the city's IDDE program	Stormwater Utility, PW Eng., CED M&O, PW Nat Res CED Building	Ongoing held at department staff meetings

¹ First department listed in each cell assumes lead role

6. Controlling Runoff from New Development, Redevelopment and Construction Sites

This section addresses Permit conditions regulating the City's activities under the SWMP that would control runoff from new development, redevelopment and construction sites.

6.1. What's Required

The Permit requires the City to implement certain activities for controlling runoff related to development and construction, some of which are summarized in Table 6-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 6-1. Permit Requirements for Controlling Runoff from New Development, Redevelopment And Construction Sites

Reference	Digest of Selected Permit Conditions	Effective
S5.C.4.a	Adopt an ordinance addressing runoff during development and construction projects, including specified minimum technical requirements	02/16/10
S5.C.4.b	Modify permit process, with plan review, inspection, and enforcement capability, to meet specified standards	02/16/10
S5.C.4.c.i	Adopt O&M ordinance to enforce maintenance responsibilities to assure adequate long-term function of stormwater facilities after construction	02/16/10

Reference	Digest of Selected Permit Conditions	Effective
S5.C.4.c.ii	Establish maintenance standards at least as protective of stormwater facility function as the 2005 Stormwater manual, Volume V, Chapter 4	02/16/10
S5.C.4.c.iii, iv	Annual inspections of all stormwater treatment and flow control facilities, or justified alternatives; construction inspections	02/16/10
S5.C.4.d	Record keeping re: runoff control program, including documenting inspections and enforcement actions	02/16/10
S5.C.4.e	Make available to developers and project proponents copies of “Notice of Intent for Construction Activity” and “Notice of Intent for Industrial Activity”	02/16/10
S5.C.4.e	Training for City employees involved in activities associated with the program to control stormwater runoff	02/16/10

6.2 What’s Next

Table 6-2. City of Arlington 2014 Work Plan to Address Permit Requirements for Controlling Runoff from New Development, Redevelopment and Construction Sites

Reference	Proposed Effort	Who ¹	Schedule
S5.C.4.a	Review and revise City Engineering Standards for consistency with AMC 13.28 and permit conditions for runoff control— Second Round	Stormwater Utility, PW Eng., CED Code,	LID Code update in process, to be complete June 2015
S5.C.4.a	Review and revise City Engineering Standards for consistency with AMC 13.28 and permit conditions for runoff control -- Final	Stormwater Utility, PW Eng., CED Code,	LID Code update in process, to be complete June 2015

Reference	Proposed Effort	Who ¹	Schedule
S5.C.4.a.ii	GIS evaluation to rank the potential effectiveness and cost of various LID techniques across the City; consider zoning, land use, landform, soils, critical areas, and existing stormwater infrastructure. Two meetings with engineer, inspector, building official and natural resources and stormwater staff.	Stormwater Utility, PW Eng., CED Permit, PW Nat Res	Concurrent with LID Code development, and Geo-spatial analysis
S5.C.1.a.i.a	Draft outreach materials (brochure, web site, PowerPoint) for “LID in Arlington for Developers”	Stormwater Utility, PW Eng.,	Geo-spatial tool will provide actual recommended site specific BMP. Possibly link to SSMMWW.
S5.C.1.a.i.a	Provide outreach/training opportunities for developers to discuss stormwater issues and LID. Including review and discussion during code update adoption process with Planning Commission and City Council.	Stormwater Utility, PW Eng., CED Permit, CED Code, PW Nat Res	Will develop with LID Code update process. See Public Participation plan
S5.C.4.c	Verify that adequate long-term site-specific O&M manuals for all applicants preparing stormwater site plans are submitted with Site Civil	Stormwater Utility, PW Eng. CED Permits	Ongoing
S5.C.4.b	Improve Iworqs process to identify various application mileposts and LID techniques. Review existing application, permit, and inspection process. Identify information tracking needs.	Stormwater Utility, PW Eng., CED Code, CED Permit	July 2015

Reference	Proposed Effort	Who ¹	Schedule
S5.C.4.b	Improve existing recordkeeping system. Utilize electronic tablets to document while in field	PW Stormwater Utility, PW Eng., CED Code, CED Permit	Ongoing
S5.C.4.b	Improve existing recordkeeping system. City staff revises field forms and reports as necessary for site inspections before, during, and after the building permit process	Stormwater Utility, PW Eng., CED Code, CED Permit	Ongoing
S5.C.4.b	Continue to track LID technique implementation	Stormwater Utility, PW Eng., CED Code, CED Permit	Ongoing
S5.C.4.b, c	Use Iworq for frontloading the subsequent inspection and credit process which may transfer by site address to the stormwater asset management system (Cartegraph).	PW Utilities, PW Eng., CED Code, CED Permit	September 2015
S5.C.4.c.iii	Adapt self-inspection forms to be on the i-pad and downloadable to either Cartegraph or iworqs. If available use an alternate web-based reporting tool for landowners to complete and submit inspection forms.	Stormwater Utility	October 2015
S5.C.4.c.iii	Issue first round of letters for inspection and reporting process	Stormwater Utility	June 2015

Reference	Proposed Effort	Who ¹	Schedule
S5.C.4.c.iii	Continue cycle of notification letters for inspection and reporting	Stormwater Utility	Ongoing; probably bi-monthly
S5.C.4.c.iii	Storm staff monitors/audits selected self-inspection forms when performed by facility owner	Stormwater Utility	<9/1/11; ongoing
S5.C.4.c.iii S5.C.4.c.iv	Use GIS to confirm all control structures are appropriately identified and labeled in existing inventory	Stormwater Utility, PW M&O, PW GIS	Ongoing
S5.C.4.c.iii S5.C.4.c.iv	Expand recordkeeping process from S5.C.4.b to handle all stormwater treatment and flow control facilities permitted by the City	PW Utilities, PW M&O, PW Eng.	Ongoing
S5.C.4.d	Continue to provide Ecology Notices of Intent for Construction and Industrial Activities	CED Permit,	Ongoing
S5.C.4.e	Identify appropriate training requirements for various City staff and schedule for 2015	PW Utilities, All departments	Ongoing
S5.C.4.e	Provide training to all city staff responsible for implementing these permit conditions, including permitting, plan review, site inspections, and enforcement	Stormwater Utility, PW Eng., CED Permit, PW Nat Res, CED Code	Ongoing, during staff meetings

¹ First department listed in each cell assumes lead role

7. Pollution Prevention And Operation And Maintenance For Municipal Operations

This section addresses Permit conditions regulating the City’s responsibilities under the SWMP to prevent or minimize pollution from municipal operations and maintenance activities.

7.1. What’s Required

The Permit requires the City to implement certain activities for preventing pollution from municipal operations and maintenance activities, some of which are summarized in Table 8-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 7-1. Permit Requirements for Pollution Prevention and Operation and Maintenance for Municipal Operations

Reference	Digest of Selected Permit Conditions	Effective
S5.C.5.a	Establish City maintenance standards at least as protective of stormwater facility function as the 2012 Stormwater manual, Volume V, Chapter 4	02/16/10
S5.C.5.b	Annual inspections of all stormwater treatment and flow control facilities (except catch basins), or justified alternatives	02/16/10
S5.C.5.c	Spot checks of potentially damaged permanent treatment and flow control facilities after 24-hour 10-year storm events	02/16/10
S5.C.5.d	Inspection and maintenance of all catch basins & inlets at least once before the end of the Permit term(No later than Aug 1, 2017)	02/16/10
S5.C.5.e	Establish an inspection program to inspect all sites; achieve 95% inspection rate	02/16/10
S5.C.5.f	Establish and implement road maintenance program to reduce stormwater impacts, including: cleaning pipes, culverts, ditches, streets; snow & ice control; roadside maintenance & vegetation control; pavement repair & maintenance; dust control	02/16/10
S5.C.5.f	Establish policies and procedures to reduce pollutant discharges from City common areas (e.g., parks, open space, ROWs), including: fertilizer, herbicide and pesticide use; sediment and erosion control; landscape maintenance; trash management; building maintenance	02/16/10
S5.C.5.g	Training for City employees involved in O&M activities that may impact stormwater quality	02/16/10

Reference	Digest of Selected Permit Conditions	Effective
S5.C.5.h	Develop SWPPP(s) for all equipment maintenance and storage yards	02/16/10
S5.C.5.i	Record keeping re: O&M program	02/16/10

7.2 What's Next

Table 8-3. City of Arlington 2014 Work Plan to Address Permit Requirements for Pollution Prevention and Operation and Maintenance for Municipal Operations

Reference	Proposed Effort	Who ¹	Schedule
S5.C.5.b	Inventory update and inspection of facilities under City jurisdiction; record in Cartegraph during inventory process	PW Utilities	Ongoing
S5.C.5.c	Design Cartegraph (asset management system) database with "spot check" field and automated report to identify facilities requiring field inspections after storms in which the water department (NWS station) rain gage records 2.75 inches or more of water in a 24-hour period	PW Utilities	10/31/2015
S5.C.5.c	Identify, create list and document spot checks of potential damages stormwater facilities/locations frequently requiring maintenance during intense storms; anticipate checks during Thanksgiving storms (typical)	Stormwater Utility	Ongoing to protect downstream know urban flooding areas
S5.C.5.d	Set-up maintenance schedule in Outlook and document in Cartegraph (asset management system) database the inspections of stormwater catch basins, inlets, and manholes on known routes requiring increased servicing (est. 1/2 of all CBs scheduled)	Stormwater Utility	June 2015

Reference	Proposed Effort	Who ¹	Schedule
S5.C.5.d	Inspect and vector scheduled stormwater catch basins, inlets, and manholes (est. 1/2 of all CBs scheduled); record CB conditions and vector date in Cartegraph	Stormwater Utility CED M&O	Ongoing throughout 2015
S5.C.5.e	Meet to evaluate stormwater inspections of 1) treatment/flow control facilities, 2) intense storm reviews; and 3) CBs are on track to achieve 95% compliance rate; confirm recordkeeping; schedule remaining work	Stormwater Utility, CED M&O	Quarterly with Maintenance and Operations
S5.C.5.e	Stormwater inspections and maintenance of inspection records must achieve 95% compliance rate by August 1, 2017.	Stormwater Utility, PW M&O	09/30/2015
S5.C.5.f	Review road management program to create a training program; consider any needs for improvement	CED M&O, Stormwater Utility	10/01/2015
S5.C.5.f	Review parks and open space management programs in advance of creating a training program; consider any needs for improvement	PW M&O, CED Parks, Stormwater Utility	10/01/2015
S5.C.5.g	Review facility management programs in advance of creating a training program; consider any needs for improvement	CED Facilities, Stormwater Utility	10/01/2015
S5.C.5.g	Develop training module for Facilities Maintenance specific to Arlington operations if not covered in the specific SWPPPs of each property	CED Facilities, Stormwater Utility	Ongoing
S5.C.5.g	Train PW Staff in Materials Storage and Spill Cleanup specific to Arlington operations	Stormwater Utility	Ongoing

Reference	Proposed Effort	Who ¹	Schedule
S5.C.5.g	Train PW Streets Staff in Streets and Drainage Maintenance specific to Arlington stormwater operations	Stormwater Utility	Ongoing
S5.C.5.g	Train PW Parks Staff in Parks and Grounds Maintenance specific to Arlington stormwater operations	Stormwater Utility	Ongoing
S5.C.5.g	Train Facilities Manager in Facilities Maintenance specific to Arlington stormwater operations	Stormwater Utility	Ongoing
S5.C.5.h	Review SWPPP(s) implementation at equipment maintenance and storage yards at the Public Works O&M and Utilities facilities	CED M&O, Stormwater Utility	March 2015
S5.C.5.i	Evaluate O&M reporting process and database for opportunities for improvement with respect to permit conditions	PW Utilities, CED M&O	10/31/15

¹ First department listed in each cell assumes lead role

8. Total Maximum Daily Load (TMDL) Requirements

This section addresses Permit conditions regarding the City's responsibilities under existing water clean-up plans (TMDLs). This section serves as the 2009 TMDL Implementation Status Report, referenced in the 2009 annual report in Questions 87 and 88.

8.1. What's Required

The Permit requires the City to implement certain activities to satisfy its role in cleaning up impaired streams in and near the City. This currently involves the Lower Snohomish Tributaries TMDL, which identifies the City's responsibilities toward cleaning up Edgecomb and Heyho Creeks, tributaries to Middle Fork Quilceda Creek. Some of the permit conditions and TMDL requirements are summarized in Table 9-1. See Appendix A for the complete text of TMDL requirements found in Permit special condition S7 and Permit appendix 2.

The Stillaguamish River TMDLs will begin coverage under this Permit term. to the City will complete the creation of the required QAPP in February of 2015, with implementation by August 1, 2015. The selected location on Portage Creek will provide a monthly measurement of the Fecal coliform levels in Portage Creek as the leave the City Limits and enter the County. Ecology considers compliance with Permit conditions to constitute compliance with the Stillaguamish TMDLs.

Data from these efforts are required to be submitted by March 31, 2016 and entered in to Ecology's EIM database by May 31, 2016 (annually thereafter).

Table 8-1. Permit Requirements for Total Maximum Daily Loads

Reference	Digest of Selected Permit Conditions	Effective
S7.A	Meet Lower Snohomish Tributaries and Stillaguamish River TMDL requirements	Variable, described below
S7.B	City compliance with the Permit constitutes compliance with stormwater requirements in the Stillaguamish River TMDLs	Evaluated in each annual report
Appendix 2,	Runoff control requirements in S5.C.3.b also address commercial animal handling areas and commercial composting facilities; source control BMPs equivalent to 2005 Stormwater Manual, Volume 4, pages 2-10 through 2-12	08/16/09
Appendix 2,	Compile list of existing composting and animal waste handling facilities	08/16/09
Appendix 2,	Inspect and enforce source control BMPs at listed sites	08/16/09
Appendix 2,	Update list of existing composting and animal waste handling facilities	08/16/11
Appendix 2,	Complete facility inspections to assure source control BMPs at listed sites	12/16/10
Appendix 2,	Complete QAPP to guide water quality monitoring; sample streams and potential pollution sources for fecal coliform bacteria; adequate frequency to characterize water quality	05/16/07, extended to July 2007
Appendix 2,	Implement water quality monitoring according to QAPP; monthly sampling frequency	10/16/07, ongoing
Appendix 2,	Develop Bacterial Pollution Control Plan (BPCP), including evaluation of: pet waste ordinance; water pollution control enforcement capabilities; critical areas ordinance; bacterial reduction education program; other treatment and reduction options; water quality monitoring to identify sources	02/16/11
Appendix 2,	Conduct public review of BPCP	05/16/11

Reference	Digest of Selected Permit Conditions	Effective
Appendix 2,	Submit BPCP to Ecology with Permit renewal application at end of Permit Term	Prior to 02/16/12
TMDL	Stillaguamish River Tributary QAPP will be written and submitted for approval.	February 2, 2015
TMDL	Data from these efforts are required to be submitted by March 31, 2016, and entered in to Ecology's EIM database by May 31, 2016 (annually thereafter).	March 31, 2016

8.2 What's Next

Table 8-2. City of Arlington 2014 Work Plan to Address Its Lower Snohomish Tributaries TMDL Requirements

Reference	Proposed Effort	Who ¹	Schedule
Appendix 2,	Inspections at commercial animal handling and composting facilities; ensure implementation of source control BMPs and enforce as necessary	PW Utilities	12/31/15
Appendix 2,	Water quality monitoring of 2 locations on Edgecomb	PW Utilities	Monthly, ongoing
Appendix 2	Water quality monitoring at 1 location on Portage creek as it leave the City of Arlington.	PW Utilities	Monthly, ongoing
Appendix 2,	Evaluate monitoring data collected in Edgecomb/Heyho Creeks to date; coordinate and exchange data with City of Marysville	PW Utilities,	Annually
Appendix 2,	Evaluate monitoring data collected in Portage Creek	PW Utilities	Annually
Appendix 2,	Coordinate with Ecology on implementation of BMP's for the National Foods processing and operation	PW Utilities	Ongoing based on Ecology visits
Appendix 2,	Continue outreach to veterinary clinics and animal handling facilities as new businesses come to town	PW Utilities	Ongoing

¹ First department listed in each cell assumes lead role

9. Monitoring

The Permit does not require that Permit conditions for monitoring be addressed within the SWMP work plan (except for monitoring related to requirements for runoff control [S5.C.3] and TMDL [S7.A]).

However, monitoring is a Permit requirement that is appropriate for inclusion in work load planning with many other Permit conditions. The City of Arlington has chosen to incorporate monitoring into this SWMP work plan to assure that monitoring-related Permit requirements are efficiently planned and implemented. This section addresses Permit conditions regulating the City’s monitoring responsibilities.

9.1. What’s Required

The Permit requires the City to implement certain stormwater monitoring and SWMP effectiveness monitoring activities, some of which are summarized in Table 10-1. See Appendix A for the complete text of special and general conditions in the Permit.

Table 10-1. Permit Requirements for Stormwater Monitoring and SWMP Effectiveness Monitoring

Reference	Digest of Selected Permit Conditions	Effective
S8.A.	Monitoring required by TMDLs—see Section 9 of this SWMP	See Section 9
S8.A.	Monitoring required for runoff control—see Section 6 of this SWMP	See Section 6
S8.B	Include stormwater monitoring studies and results in annual reports, or buy in to the Regional Stormwater Management Program. RSMP	March 31 of each year

9.1. What’s Next

The City’s 2011 Work Plan for addressing stormwater monitoring and SWMP effectiveness monitoring requirements is presented in Table 8-3.

Table 10-3. City of Arlington 2011 Work Plan to Address Permit Requirements for Stormwater Monitoring and SWMP Effectiveness Monitoring

Reference	Proposed Effort	Who ¹	Schedule
S8.A	Participate in the Regional Stormwater Management Program	PW Utilities	Ongoing

Reference	Proposed Effort	Who ¹	Schedule
S8.A	Water quality monitoring activities summarized in 2014 annual report	PW Utilities	06/30/15
Optional	Add review of water quality monitoring data to agenda of one Watershed group meeting	PW Utilities	06/31/15
S8.	Monitoring data associated with measuring the efficiency of the Old Town Stormwater Wetland.	PW Utilities	Ongoing
S8.	Monitoring data associated with in-situ monitoring of Prairie creek.	PW Utilities	Nov 2014 – Nov 2015

¹ First department listed in each cell assumes lead role

Chapter 10 – Background Information

11. Natural and Built Environments

This section provides a brief overview of the natural and built environments that the Stormwater Utility manages, and which the Permit governs. Only key components are summarized here. Readers are directed to the City’s Stormwater Comprehensive Plan (in preparation—contact the Utilities Division at 360-403-3523) for more information.

11.1. Basins

The City straddles the divide between two river basins, the Stillaguamish and the Snohomish, which are regionally recognized as Water Resource Inventory Areas (WRIAs) 5 and 7, respectively. For management purposes, the City has further delineated five levels of nested subbasins within each of these larger basins, resulting in a six-tier watershed hierarchy. The first four tiers are described in the table below with respect to their jurisdiction, whether under the City, or under Snohomish County’s management inside and outside of the City’s Urban Growth Area (UGA).

Basin Tier				4 th Tier Basin Area (acres)	Basin Area by Jurisdiction (acres) [percent of 4 th Tier Basin]		
1	2	3	4		City Limits	Outside City Inside UGA	Outside UGA Inside County
Stillaguamish	Mainstem Stillaguamish	Upper Mainstem Stillaguamish	Old Town	339	299 [88%]	0	40 [12%]
		Middle Mainstem Stillaguamish	March	954	104 [11%]	0	850 [89%]
			Dike Road	127	0	0	127 [100%]
		Lower Mainstem Stillaguamish	Portage	12,362	2,422 [20%]	440 [3%]	9,500 [77%]
	I-5		811	0	35 [4%]	776 [96%]	
	South Fork (SF) Stillaguamish	Lower SF Stillaguamish	Eagle	657	374 [57%]	106 [16%]	177 [27%]
			Old Town NE	189	96 [51%]	89 [47%]	4 [2%]
		Upper SF Stillaguamish	Burn Road	1,633	0	0	1,633 [100%]
			Tviet Loop Road	683	9 [1%]	34 [5%]	640 [94%]
	Snohomish	Ebey Slough	Quilceda	Middle Fork (MF) Quilceda	7,692	2,335 [30%]	81 [1%]
<i>Multiple other 4th tier basins</i>				<i>Not included in study area</i>			
Study Area Totals (acres) [percent]				25,447	5,640 [22%]	785 [3%]	19,023 [75%]

11.2. Geology/Soils/Topography

The geology in and around Arlington is largely determined by the erosion and deposition of two forces of nature--glaciers that covered much of Puget Sound 10,000 years ago, and the Stillaguamish River. The glaciers left behind formations that can generally be grouped into two types. Those that readily soak up water, allowing it to infiltrate and percolate to groundwater may be called "outwash formations". Those that are hard, compacted, and largely impermeable to water, causing it to run laterally near the surface, may be called "till formations". In addition, the river creates layers of sands and gravels called alluvium that water also moves through very easily.

Soils that develop on and overlay these formations also serve to absorb, store, and release water. The potential for stormwater to be generated from any site, then, varies with the geology and soils (and other variables such as vegetative cover and types of development) on that site.

The City is fortunate in that it has more area prone to infiltration (60%) than area prone to runoff (40%). This is because runoff generally results in greater stormwater infrastructure costs in an effort to reduce the greater potential for impacts to flooding and water quality in area streams. Nevertheless, each site proposed for development must be evaluated for stormwater requirements during the permitting process.

11.3. Streams

The City administers its stormwater programs within its city limits, but also in the context of a larger stormwater management area composed of the basins identified in Section 2.1 above. This management area abuts about 14 miles of the mainstem and South Fork Stillaguamish Rivers. It includes nearly 85 miles of tributaries that drain either to these rivers or to Quilceda Creek. Within the City's UGA, there are about 2.2 miles of riverfront, and 14.1 miles of streams (82% in the Stillaguamish and 18% in the Snohomish basins).

More than 52 miles of streams (about 62%) in the management area (not river front) are fish-bearing and have high to moderate value for fish, wildlife, and human use that could be negatively impacted by stormwater. More than 25 miles of streams (almost 1/3) are non-fish streams, many of which flow intermittently. About 6.5 miles of streams (8%) are not yet classified.

11.4. Surface Water Quality

The water quality of the mainstem Stillaguamish River, its lower North and South Forks, and Portage Creek is managed to meet water quality standards that protect the beneficial uses of those channels, including salmon and trout aquatic uses, contact recreation, and water supply. However, in the past a number of these channel segments have been observed to not meet the standards for one or more parameters. These impaired water bodies have clean-up plans prepared by Ecology (2005, 2007), with assistance from the City of Arlington and others. The water quality parameters, their standards, and the impaired water bodies near Arlington are summarized in the table below.

Beneficial Use Designation	Water Quality Parameter	173-201A WAC Requirements²	Channels (Segment Location) with Impaired Water Quality
Class A (Noncore Salmon/Trout Aquatic Use)	Temperature	Maximum $\leq 17.5^{\circ}\text{C}$; and/or receiving water temperature will not be increased by more than 0.3°C	Stillaguamish River (I-5), NF Stillaguamish River (Twin Rivers Park), SF Stillaguamish River (River Meadows Park)
	Dissolved Oxygen	Minimum ≥ 8.0 mg/L	March Creek (mouth), Portage Creek (43 rd Ave),
Class A (Primary Contact Recreation)	Fecal Coliform	Geometric mean ≤ 100 colonies/100 mL and $\leq 10\%$ of samples > 200 colonies/100 mL	March Creek (mouth), Portage Creek (43 rd Ave), Stillaguamish River (I-5), NF Stillaguamish River (mouth), SF Stillaguamish River (mouth), Quilceda Creek

Sources of contaminants contributing to these impairments don't just come from pipes pouring out polluted water, but from stormwater runoff from throughout the basin. Typical sources within the city limits are identified here. Pet wastes, failing on-site septic systems, and road and urban surfaces are probable sources of bacteria (fecal coliform). Common sources contributing to low dissolved oxygen levels include the bacterial sources, as well as nutrients, fertilizers, pesticides, and other contaminants attached to sediments from urban and suburban areas. Elevated water temperatures in rivers and streams most often begin with changes in vegetation near streams, and changes in channel shape (wider, shallower streams) that accompany changes in land use.

This SWMP is a significant part of the water clean-up plans intended to improve water quality in the Stillaguamish and Quilceda basins. Since the plans were adopted the City of Arlington has coordinated with Ecology, Snohomish County, Stillaguamish Tribe and City of Marysville to implement BMP's. The Department of Ecology performed a comprehensive WQ study on the Stillaguamish in the summer and fall of 2012 to measure what changes may have occurred since the initial TMDL studies were performed to establish allocations and cleanup plans.

11.5. Fisheries

Fish species present nearly year-round in nearly every stream in the management area include most ocean-going salmonids, and resident native trout and other species. These include recognized threatened species, such as Chinook salmon, bull trout and steelhead. Fish and aquatic habitat are a primary concern for stormwater management because, in part:

- Degraded water quality has direct detrimental impacts on fish, or places their habitat at risk;
- Sedimentation of spawning beds limits reproductive success;

- Culverts have high potential for becoming barriers to fish passage; and
- Changes in the extremes of streamflows (higher peak flows and lower low flows) affect fish and their habitat

11.6. City Zoning

The City’s zoning affects the quantity and quality of its stormwater runoff because of reductions in vegetative cover and increases in impervious surfaces characteristic of the different types of development (residential, commercial, and industrial land uses).

Low to moderate density residential (RLMD) is the dominant zoning within the City’s jurisdiction in most 4th tier basins (range of 8% to 52% of 4th tier basins when the City occupies more than about 20% of the basin). RLMD and high density residential are generally well-distributed across basins containing significant city area.

Intensively developed areas are found throughout most basins, although Portage and Middle Fork Quilceda contain 83% and 99% of all commercial and industrial areas, respectively. These areas are predominately in the central and southeast areas of the City. However, they not uncommonly will infiltrate all of their stormwater on-site.

11.7. Stormwater Infrastructure

The City of Arlington’s stormwater infrastructure is summarized by 4th tier basins in the table below. Across the entire City, the subsurface network includes 3,253 catch basins and manholes, and about 48 miles of pipe. The surface network includes more than 18 miles of ditches and swales, and 2.9 miles of culverts. There are about 86 known outfalls—points of interchange where stormwater is discharged from City infrastructure to a natural feature, whether river, stream, wetland, or ground surface. The City has inventoried 114 detention ponds and vaults to date. The City will continue to add additional stormwater management systems to the inventory as they are identified. The City needs to update inventories to segregate “outfalls” from “discharge points” as defined in the new permit.

Basin Tier				4 th Tier Basin Area (acres)	Features (units) [percent]					
1	2	3	4		CB, MH (number)	Pipes (miles)	Ditches, Swales (miles)	Culverts (miles)	Outfalls (number)	Detention Basins (number)
Stillaguamish	Mainstem Stillaguamish	Upper Mainstem Stillaguamish	Old Town	339	519 [16%]	8.34 [17%]	0.61 [3%]	0.03 [1%]	3 [3%]	3 [3%]
		Middle Mainstem Stillaguamish	March	954	102 [3%]	1.17 [2%]	0.79 [4%]	0.04 [1%]	6 [7%]	0
			Dike Road Reach	127						
		Lower Mainstem Stillaguamish	Portage	12,362	1,410 [43%]	19.72 [41%]	7.08 [39%]	1.41 [49%]	33 [38%]	66 [58%]
	I-5 Reach		811							
	South Fork (SF) Stillaguamish	Lower SF Stillaguamish	Eagle	657	33 [1%]	0.23 [0.5%]	0.09 [1%]	0.07 [2%]	2 [2%]	1 [1%]
			Old Town NE	189	82 [3%]	1.49 [3%]	0.01 [0.1%]	0	2 [2%]	1 [1%]
		Upper SF Stillaguamish	Burn Road	1,633						
			Tviet Loop Reach	683						
	Snohomish	Ebey Slough	Quilceda	Middle Fork (MF) Quilceda	7,692	1,107 [34%]	17.04 [35%]	9.57 [53%]	1.35 [47%]	40 [47%]
Study Area Totals by Feature				25,447	3,253 [100%]	47.99 [100%]	18.15 [100%]	2.90 [100%]	86 [100%]	114 [100%]

Appendix A

Western Washington Phase II Municipal Stormwater Permit Special and General Conditions

City of Arlington

SWMP and Appendix 2 Activities addressing TMDL activities

1. Annual SWPPP of the Arlington Compost Facility was completed. The site was clean and maintenance had been performed.
2. Contacted National Foods to make sure they were implementing proper procedures when hauling chicken manure on the City streets. There were two incidences where they were required to clean up product from the roadways to reduce risk of it reaching surface waters. Contact was made directly with Brian Bookey the President of the Company.
3. Reviewed the Fecal Coliform sampling data for 2014. There were two sampling months (June 26, October 22) where high numbers were recorded, but no specific cause was identified. The October number may have been associated with storm events (Oct 21 = 0.53", Oct 22 = 0.78").
4. Performed sampling of the two sites in the Quilceda system as identified in the QAPP.