Washington Department of Ecology
Electronic Submission Cover Letter

DEPARTMENT OF ECOLOGY
State of Washington

WQWebSubmittal - Submittal Submission Id: 1713977 - 3/25/2020 1:09:09 PM

Company Name	Signer Name	System Name
City of Shoreline	Debbie Tarry	WQWebPortal

Attachments:

Document Name Or Description	Document Name
Submitted Copy of Record for City of Shoreline	Copy of Record CityofShoreline Wednesday March 25 2020
WAR045542_2_03182020152906	Appndx A. 2020 SWMP_Final_2_03182020152906
WAR045542_21_03172020125040	Appndx B. 2019 NPDES Ed and Ou_21_03172020125040
WAR045542_26a_03172020125040	Appndx C. 2019 NPDES Ed and Ou_26a_03172020125040
WAR045542_30a_03172020125401	Appndx D. Outfall Spreadsheet_30a_03172020125401
WAR045542_42_03182020153117	Appndx E. IDDE Data_42_03182020153117
WAR045542_53_031820	Appndx F. Additional Explanations

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

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DEPARTMENT OF ECOLOGY
State of Washington

Water Quality Program

Permit Submittal Electronic Certification

Permittee: SHORELINE CITY OF

Permit Number: WAR045542 **Site Address:** 17500 MIDVALE AVE N
SHORELINE, WA 98133-4905

Submittal Name: MS4 Annual Report Phase II Western

Version: 1 **Due Date:** 3/31/2020

Questionnaire

Number	Permit Section	Question	Answer
1	S5.A	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.6.	Not Applicable
2	S5.A	Attach updated annual Stormwater Management Program Plan (SWMP Plan). (S5.A.2)	Appndx A. 2020 SWMP_Final_2_03182020152906
3	S5.A	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
15	S5.C.1.c	Continue to design and implement local development-related codes, rules, standards, or other enforceable documents to minimize impervious surfaces, native vegetation loss, and stormwater runoff, where feasible? See S5.C.1.c.i. (Required annually)	Yes
16	S5.C.1.c	From the assessment described in S5.C.1.c.i (a), did you identify any administrative or regulatory barriers to implementation of LID Principles or LID BMPs? (Required annually)	No
20	S5.C.2	Did you choose to adopt one or more elements of a regional program? (S5.C.2)	Yes

20a	S5.C.2	If yes, list the elements, and the regional program.	#OrcaHero Campaign / Puget Sound Starts Here Month (Social Posts), Don't Drip and Drive (distributed flyers, linked to program website on website and social media), "Starts Here, Ends Here" Bus Ad Campaign (Contributed funding for bus routes in Shoreline/King County). Natural Yard Care Program (distributed flyers at events, provide program materials on City website).
21	S5.C.2	Attach a description of general awareness efforts conducted, including your target audiences and subject areas, per S5.C.2.a.i.	Appndx B. 2019 NPDES Ed and Ou_21_03172020125040
22	S5.C.2	Conducted an evaluation of the effectiveness of the ongoing behavior change program and documented recommendations as outlined in S.5.C.2.a.ii(b). (Required no later than July 1, 2020)	Not Applicable
26	S5.C.2	Promoted stewardship opportunities (or partnered with others) to encourage resident participation in activities such as those described in S5.C.2.a.iii.	Yes
26a	S5.C.2	Attach a list of stewardship opportunities provided.	Appndx C. 2019 NPDES Ed and Ou_26a_03172020125040
27	S5.C.3.	Describe in Comments field the opportunities created for the public, including overburdened communities, to participate in the decision-making processes involving the development, implementation, and updates of the Permittee's SWMP and the SMAP. (S5.C.3.a)	The public can provide direct input to the SWMP via the City's Website, at any time of the year. Additionally, the public can comment each year on the Capital Improvement Plan and City budget that details programs outlined in the current Surface Water Master Plan.
28	S5.C.3.	Posted the updated SWMP Plan and latest annual report on your website no later than May 31. (S5.C.3.b)	Yes
28a	S5.C.3.	List the website address in Comments field.	http://www.shorelinewa.gov/stormwaterpermit
29	S5.C.4.	Maintained a map of the MS4 including the requirements listed in S5.C.4.a.i-vii?	Yes
30	S5.C.4.	Started mapping outfall size and material in accordance with S5.C.4.b.i? (Required no later than January 1, 2020)	Yes
30a	S5.C.4.	Attach a spreadsheet that lists the known outfalls' size and material(s).	Appndx D. Outfall Spreadsheet_30a_03172020125401

31	S5.C.4.	Completed mapping connections to private storm sewers in accordance with S5.C.4.b.ii? (Required no later than August 1, 2023)	Not Applicable
32	S5.C.4.	Developed an electronic format for map, with fully described mapping standards in accordance with S5.C.4.c? (Required no later than August 1, 2021)	Not Applicable
33	S5.C.5	Informed public employees, businesses, and the general public of hazards associated with illicit discharges and improper disposal of waste. Describe actions in Comments field. (S5.C.5.b)	Yes
34	S5.C.5	Implemented an ordinance or other regulatory mechanism to effectively prohibit non-stormwater, illicit discharges as described in S5.C.5.c.	Yes
35	S5.C.5	Implemented procedures for conducting illicit discharge investigations in accordance with S5.C.5.d.i.	Yes
35a	S5.C.5	Cite field screening methodology in Comments field.	Illicit Discharge Detection and Elimination: A Guidance Manual for Program Development and Technical Assessments, Center for Watershed Protection, October 2004 and Illicit Connectoin and Illicit Discharge Field Screening and Source Tracing Guidance Manual, Herrera, May 2013.
36	S5.C.5	Percentage of MS4 coverage area screened in the reporting year per S5.C.5.d.i. (Required to screen 12% on average each year.)	32
36a	S5.C.5	Cite field screening techniques used to determine percent of MS4 screened.	38% of ditches inspected in 2019 (46,138' of 123,011') 51% of city owned/operated CBs inspected in 2019 (3,875 of 7,666) 6.5% of city owned pipes inspected in 2019 (47,331' of 733,918')
37	S5.C.5	Percentage of total MS4 screened from permit effective date through the end of the reporting year. (S5.C.5.d.i.)	3
38	S5.C.5	Describe how you publicized a hotline telephone number for public reporting of spills and other illicit discharges in the Comments field. (S5.C.5.d.ii)	Listed on Recology trucks, City Customer Response Team trucks, City website, and in the Surface Water Utility report

39	S5.C.5	Implemented an ongoing illicit discharge training program for all municipal field staff per S5.C.5.d.iii.	Yes
40	S5.C.5	Implemented an ongoing program to characterize, trace, and eliminate illicit discharges into the MS4 per S5.C.5.e.	Yes
41	S5.C.5	Municipal illicit discharge detection staff are trained to conduct illicit discharge detection and elimination activities as described in S5.C.5.f.	Yes
42	S5.C.5	Attach a report with data describing the actions taken to characterize, trace, and eliminate each illicit discharge reported to, or investigated by, the Permittee as described in S5.C.5.g. The submittal must include all of the applicable information and must follow the instructions, timelines, and format described in Appendix 12.	Appndx E. IDDE Data_42_ 03182020153117 Comment: Please note there are 2 tabs in this spreadsheet: the first tab contains IDDE data from the 2013-2019 Permit coverage period (01/01/19-07/31/19) and the second tab contains IDDE data from the current Permit coverage period (08/01/19-12/31/19).
43	S5.C.6.	Implemented an ordinance or other enforceable mechanism to effectively address runoff from new development, redevelopment, and construction sites per the requirements of S5.C.6.b.i-iii.	Yes
44	S5.C.6.	Revised ordinance or other enforceable mechanism to effectively address runoff from new development, redevelopment, and construction sites per the requirements of S5.C.6.b.i-iii. (Required no later than June 30, 2022)	Not Applicable
45	S5.C.6.	Number of adjustments granted to the minimum requirements in Appendix 1. (S5.C.6.b.i. and Section 5 of Appendix 1)	0
46	S5.C.6.	Number of exceptions/variances granted to the minimum requirements in Appendix 1. (S5.C.6.b.i., and Section 6 of Appendix 1)	0
47	S5.C.6.	Reviewed Stormwater Site Plans for all proposed development activities that meet the thresholds adopted pursuant to S5.C.6.b.i. (S5.C.6.c.i)	Yes
47a	S5.C.6.	Number of site plans reviewed during the reporting period.	823
48	S5.C.6.	Inspected, prior to clearing and construction, permitted development sites per S5.C.6.c.ii, 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?	Yes
49	S5.C.6.	Inspected permitted development sites during construction to verify proper installation and maintenance of required erosion and sediment controls per S5.C.6.c.iii.	Yes

49a	S5.C.6.	Number of construction sites inspected per S5.C.6.c.iii.	117
49b	S5.C.6.	Inspected stormwater treatment and flow control BMPs/facilities and catch basins in new residential developments every 6 months per S5.C.6.c.iv?	Yes
50	S5.C.6.	Inspected all permitted development sites upon completion of construction and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities. (S5.C.6.c.v)	Yes
51	S5.C.6.	Verified a maintenance plan is completed and responsibility for maintenance is assigned for projects prior to final approval and occupancy being granted. (S5.C.6.c.v)	Yes
52	S5.C.6.	Number of enforcement actions taken during the reporting period (based on construction phase inspections at new development and redevelopment projects). (S5.C.6.c.ii-iv) (S5.C.7.c.viii)	33
53	S5.C.6.	Achieved at least 80% of scheduled construction-related inspections. (S5.C.6.c.vi)	No Comment: The City will be submitting a G20 notification of non-compliance.
54	S5.C.6.	Made Ecology's Notice of Intent for Construction Activity and Notice of Intent for Industrial Activity available to representatives of proposed new development and redevelopment? (S5.C.6.d)	Yes
55	S5.C.6.	All staff whose primary job duties are 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.6.e)	Yes
56	S5.C.7.	Implemented maintenance standards that are as protective, or more protective, of facility function than those specified in the Stormwater Management Manual for Western Washington or a Phase I program approved by Ecology per S5.C.7.a.?	Yes
57	S5.C.7.	Updated maintenance standards specified in Stormwater Management Manual for Western Washington per S5.C.7.a? (Required no later than June 30, 2022)	Not Applicable
58	S5.C.7.	Applied a maintenance standard for a facility or facilities which do not have maintenance standards specified in the Stormwater Management Manual for Western Washington? If so, note in the Comments field what kinds of facilities are covered by this alternative standard. (S5.C.7.a)	Yes
58a	S5.C.7.	Note what kinds of facilities are covered by this alternative standard. (S5.C.7.a)	Filterra, Aqua Swirl, CDT filter, Contech storm filters, Silva cells

59	S5.C.7.	Verified that maintenance was performed per the schedule in S5.C.7.a.ii when an inspection identified an exceedance of the maintenance standard.	Yes
59a	S5.C.7.	Attach documentation of maintenance time frame exceedances that were beyond the Permittee's control.	Not Applicable
60	S5.C.7.	Implemented an ordinance or other enforceable mechanisms to verify long-term operation and maintenance of stormwater treatment and flow control BMPs/facilities regulated by the permittee per (S5.C.7.b.i (a))?	Yes
61	S5.C.7.	Annually inspected stormwater treatment and flow control BMPs/facilities regulated by the Permittee per S5.C.7.b.i(b)	Yes
61a	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.b.i (b)	Not Applicable
62	S5.C.7.	Achieved at least 80% of scheduled inspections to verify adequate long-term O&M. (S5.C.7.b.ii)	Yes
63	S5.C.7.	Annually inspected all municipally owned or operated permanent stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i)	Yes
63a	S5.C.7.	Number of known municipally owned or operated stormwater treatment and flow control BMPs/facilities. (S5.C.7.c.i)	111
63b	S5.C.7.	Number of facilities inspected during the reporting period.	86
63c	S5.C.7.	Number of facilities for which maintenance was performed during the reporting period.	33
64	S5.C.7.	If using reduced inspection frequency for the first time during this permit cycle, attach documentation per S5.C.7.c.i.	Not Applicable
65	S5.C.7.	Conducted spot checks and inspections (if necessary) of potentially damaged stormwater facilities after major storms as per S5.C.7.c.ii.	Yes
66	S5.C.7.	Inspected municipally owned or operated catch basins and inlets every two years or used an alternative approach? Cleaned as needed? (S.5.C.7.c.iii)	Yes
66a	S5.C.7.	Number of known catch basins?	7666
66b	S5.C.7.	Number of catch basins inspected during the reporting period?	3875
66c	S5.C.7.	Number of catch basins cleaned during the reporting period?	943
67	S5.C.7.	Attach documentation of alternative catch basin cleaning approach, if used. (S5.C.7.c.iii.(a)-(c))	Not Applicable
68	S5.C.7.	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.7.d)	Yes

69	S5.C.7.	Documented 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.7.d – Required by December 31, 2022)	Not Applicable
70	S5.C.7.	Implemented an ongoing training program for Permittee employees whose primary construction, operations or maintenance job functions may impact stormwater quality. (S5.C.7.e)	Yes
71	S5.C.7.	Implemented a Stormwater Pollution Prevention Plan (SWPPP) 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.7.f)	Yes
72	S5.C.7.	Updated, if needed, SWPPPs according to S5.C.7.f no later than December 31, 2022.	Not Applicable
73	S5.C.8	Adopted ordinance(s), or other enforceable documents, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities per S.5.C.8.b.i. (Required by August 1, 2022)	Not Applicable
74	S5.C.8	Established an inventory per S5.C.8.b.ii. (Required by August 1, 2022.)	Not Applicable
75	S5.C.8	Implemented an inspection program S5.C.8.b.iii (Required by January 1, 2023).	Not Applicable
76	S5.C.8	Implemented a progressive enforcement policy per S5.C.8.b.iv (Required by January 1, 2023).	Not Applicable
77	S5.C.8	Attach a summary of actions taken to implement the source control program per S5.C.8.b.iii and S5.C.8.b.iv.	Not Applicable
78	S5.C.8	Attach a list of inspections, per S5.C.8.b.iii, organized by the business category, noting the amount of times each business was inspected, and if enforcement actions were taken.	Not Applicable
79	S5.C.8	Implemented an ongoing source control training program per S5.C.8.b.v?	Not Applicable
80	S7	Complied with the Total Maximum Daily Load (TMDL)-specific requirements identified in Appendix 2. (S7.A)	Not Applicable
81	S7	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)	Not Applicable
82	S8	Submitted payment for cost-sharing for Stormwater Action Monitoring (SAM) status and trends monitoring no later than December 1, 2019 (S8.A.1); and no later than August 15 of each subsequent year? (S8.A.2.a.)	Yes
83	S8	Notified Ecology by December 1, 2019 which option you selected: S8.A.2.a, or S8.A.2.b.	Yes

84	S8	Submitted payment for cost-sharing for SAM effectiveness and source identification studies no later than December 1, 2019 (S8.B.1); and no later than August 15 of each subsequent year (S8.B.2.a or S8.B.2.c)?	Yes
85	S8	Notified Ecology by December 1, 2019 which option you selected: S8.B.2.a, or S8.B.2.b?	Yes
86	S8	If conducting stormwater discharge monitoring in accordance with S8.C.1, submitted a QAPP to Ecology no later than February 1, 2020? (S8.C.1.b and Appendix 9)	Not Applicable
88	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)	Yes
89	G3	Took appropriate action to correct or minimize the threat to human health, welfare, and/or the environment per G3.A.	Yes
90	Compliance with standards	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)	Yes
91	Compliance with standards	If requested, submitted an Adaptive Management Response report in accordance with S4.F.3.a.	Not Applicable
92	Compliance with standards	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
93	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)	Yes
94	G20	Number of non-compliance notifications (G20) provided in reporting year. List permit conditions described in non-compliance notification(s) in Comments field.	1
94a	G20	List permit conditions described in non-compliance notification(s).	Section 5.C.4.b.v of the 2013-2019 Permit - presence and records of established inspection program for Controlling Runoff from New Development, Redevelopment and Construction sites.

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.

Debbie Tarry 3/25/2020 1:09:07 PM

Signature **Date**

2020
STORMWATER MANAGEMENT PROGRAM (SWMP) PLAN

City of Shoreline | Public Works Department | NPDES Permit # WAR04-5542

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2020

STORMWATER MANAGEMENT PROGRAM (SWMP) PLAN

City of Shoreline
17500 Midvale Ave N
Shoreline, WA 98133

Prepared March 2020

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1 Introduction

1.1 The NPDES Program

The National Pollutant Discharge Elimination System (NPDES) is a program created under the Federal Clean Water Act, with authority over NPDES Permits within Washington State given to the Washington State Department of Ecology (Ecology). Ecology issues Permits to governmental and private entities. The intent of the NPDES program is to protect and restore water quality in lakes and streams so that they can support "beneficial uses" such as fishing and swimming. Governmental and private entities wishing to discharge water or wastewater to surface waters regulated by the Federal Government ("waters of the state") must obtain permits and comply with the conditions of the permit.

1.2 The Western Washington Phase II Municipal Stormwater Permit

The City of Shoreline (City) has been operating under a Western Washington Phase II Municipal Permit (Permit) since 2007. The current Permit covers the period from August 1, 2019 to July 31, 2024. The Permit allows municipalities to discharge stormwater from municipal systems into "waters of the state," as long as they implement programs to reduce pollutants in stormwater to the maximum extent practicable (MEP), apply all known and reasonable technologies (AKART) to address stormwater pollutants, and protect receiving waters from degradation.

1.3 Purpose of the Stormwater Management Program Plan

This document is the City of Shoreline's 2020 Stormwater Management Program (SWMP) Plan. The purpose of the document is to comply with requirements of the *Western Washington Phase II Municipal Stormwater Permit (*NPDES Permit). Specifically, under Section 5.A.2 of the NPDES Permit (the Permit), the City of Shoreline must prepare the SWMP Plan to inform the public of the planned SWMP activities for the upcoming calendar year. This SWMP Plan covers the period between January 1, 2020 and December 31, 2020 and must be posted on the City's website by May 31, 2020. **NOTE: This plan was developed prior to the emerging COVID-19 pandemic crisis (as of March 2020). Therefore, some of the activities outlined in this document may be delayed or not occur in 2020 due to ongoing and potential additional future impacts (as of March 2020) from the COVID-19 pandemic.**

This SWMP Plan follows the organization of Section 5.C of the 2019-2024 Permit, and is broken into the eight elements of the Permit:

- S5.C.1, Stormwater Planning
- S5.C.2, Public Education and Outreach
- S5.C.3, Public Involvement and Participation
- S5.C.4, MS4 (Municipal Separate Storm Sewer System) Mapping and Documentation
- S5.C.5, Illicit Discharge Detection and Elimination
- S5.C.6, Controlling Runoff from New Development, Redevelopment & Construction Sites
- S5.C.7, Operations and Maintenance
- S5.C.8, Source Control Program for Existing Development

Coverage of Section 7, Compliance with Total Maximum Daily Load Requirements, and Section 8, Monitoring and Assessment, is also included in this document.

In addition, the Permit requires the City to submit an Annual Report by March 31st of each year that details actions taken in the previous year to achieve compliance. The full text of the Permit is available at: www.shorelinewa.gov/stormwaterpermit.

1.4 City Coordination and Responsibilities

The City's Surface Water Utility (Utility) in the Public Works Department holds the primary responsibility for developing and implementing the stormwater program and tracking Permit requirements. Permit conditions require internal coordination and documentation of activities across several City departments. Utility staff will coordinate City efforts and will meet with staff from other departments regularly to ensure that on-going and planned activities meet Permit requirements. It is anticipated that activities required for Permit compliance will be carried out largely by the Public Works, Planning and Community Development, City Manager's Office, Administrative Services, and Parks, Recreation & Cultural Services departments (Table 1). The Fire and Police departments will be involved to a lesser extent. Internal coordination between the City departments occurs regularly as issues arise and more formally through annual NPDES Internal Coordinators group meetings.

TABLE 1. CITY ORGANIZATIONAL RESPONSIBILITIES FOR THE NPDES PROGRAM

City Department	NPDES Responsibilities
Public Works – Surface Water Utility	Administers, develops, and coordinates the NPDES program within the City and other NPDES jurisdictions, including: • Stormwater Planning • Public Education and Outreach and Involvement • Illicit Discharge Detection and Elimination • Stormwater incident response • Private facility inspections • Inspection & maintenance of City stormwater facilities • Pollution prevention practices/source control • Municipal staff training • Permit-required reporting, including Annual Report
Public Works – Streets	Maintenance of City owned or operated stormwater facilities; pollution prevention practices
Public Works – Grounds	Maintenance of City owned or operated stormwater facilities; pollution prevention practices
Public Works – Engineering	Conducts stormwater site plan review; implements surface water capital program; develops and maintains stormwater standards for redevelopment and other new construction (via the Engineering Design Manual (EDM)); conducts construction stormwater inspections for work within public rights-of-way
Planning & Community Development	Permit Center is first point of contact for new or redevelopment projects and distributes Notice of Intent; conducts construction stormwater site inspections
City Manager's Office – Customer Response Team	Stormwater incident response; code enforcement for stormwater violations
Administrative Services – Information Services	Maintains and updates map of the municipal separate storm sewer system (MS4)
Parks, Recreation & Cultural Services	Maintenance of City owned stormwater facilities; pollution prevention practices
Police and Fire Departments	First responder to stormwater incident if called

1.5 The Surface Water Management Utility – Other Activities

This SWMP Plan details planned activities that fall under the purview of the Permit and does not address all activities and programs implemented by the City to address stormwater runoff issues. Stormwater management is one part of the City's overall surface water management strategy. The Surface Water Utility conducts a suite of programs that reduce flooding, protect and improve water quality, and protect and restore aquatic habitat in the City's streams and lakes. Although not directly required, flood reduction and aquatic habitat restoration efforts can often further stormwater management goals. For details on Surface Water Utility activities beyond this SWMP Plan, see the City website at http://www.shorelinewa.gov/surfacewater.

1.6 Permit Implementation Timing

The Permit allows for phased implementation of stormwater management programs and actions. Table 2 provides a Permit implementation schedule and due dates. The City will continue to implement ongoing activities throughout the remainder of the permit term.

TABLE 2. STORMWATER MANAGEMENT PROGRAM IMPLEMENTATION TIMELINE

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S4	**Compliance with Standards**						
S4.F	Response to violations of Water Quality Standards	Notification and possible adaptive management may occur at any time.					
S5.A	**Stormwater Management Program Plan**						
	Update SWMP Annually		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
	Continue to track SWMP costs	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Continue to coordinate internally and externally	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
S5.C.1	**Stormwater Planning**						
	Convene inter-disciplinary team		8/1/2020				
	Respond to Annual Report questions for 2013-2019 permit cycle			3/31/2020			
	Respond to Annual Report questions for current permit cycle					3/31/2023	
	Assess barriers to LID-implementation		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
	Complete Receiving Water Assessment				3/31/2022		
	Complete Receiving Water Prioritization				6/30/2022		
	Develop Stormwater Management Action Plan					3/31/2023	

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S5.C.2	**Public Education and Outreach**						
	Continue to build general awareness each year for at least one target audience and one subject area	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Evaluate existing behavior change program		7/1/2020				
	Based on evaluation, use social marketing practices to further develop behavior change program strategy			2/1/2022			
	Begin to implement behavior change program strategy			4/1/2022			
	Evaluate and report on the behavior change program						3/31/2024
	Continue to provide stewardship opportunities	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
S5.C.3	**Public Involvement and Participation**						
	Provide opportunities to participate in SMAP and SWMP development	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Post Annual Report and SWMP Plan on Shoreline's website		5/31/2020	5/31/2021	5/31/2022	5/31/2023	5/31/2024
S5.C.4	**MS4 Mapping and Documentation**						
	Continue GIS-based mapping program	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Begin collecting size and materials for all known MS4 outfalls		1/1/2020				
	Complete mapping of all known connections from MS4 to private systems					8/1/2023	
	Electronic mapping format with fully described mapping standards			8/1/2021			

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S5.C.5	**Illicit Discharge Detection and Elimination (IDDE)**						
	Continue to implement ongoing program to address illicit discharges, spills, and connections into the MS4	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Field screen 12% of MS4 each year		12/31/2020	12/31/2021	12/31/2022	12/31/2023	12/31/2024
	Submit IDDE data in Annual Report per Appendix 12		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
S5.C.6	**Controlling Runoff from New Development, Redevelopment and Construction Sites**						
	Continue to implement and document program for construction/post construction runoff controls	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Adopt Appendix 1 equivalent, i.e. Ecology's 2019 SWMMWW				6/30/2022		
S5.C.7	**Operations and Maintenance**						
	Continue to implement and document program to regulate and conduct maintenance activities	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
	Update maintenance standards as protective as 2019 SWMMWW. Develop own standards that aren't in SWMMWW				6/30/2022		
	Document practices, policies, and procedures to reduce stormwater impacts from all lands owned/maintained by permittee.				12/31/2022		
	Update SWPPP for heavy equipment maintenance or storage yards, if necessary				12/31/2022		

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S5.C.8	**Source Control Program for Existing Development**						
	Adopt and implement code/ordinance that requires pollution prevention source control BMPs for pollution generating activities/lands				8/1/2022		
	Establish an inventory of sites that have the potential to generate pollutants to the municipal stormwater system				8/1/2022	Ongoing	Ongoing
	Implement inspection program for sites on the inventory.					1/1/2023	Ongoing
	Annually inspect 20% of sites on the inventory.					1/1/2023	Ongoing
	Implement a progressive enforcement policy to require compliance					1/1/2023	Ongoing
	Train staff; document trainings					Ongoing	Ongoing
S8.A	**Regional Status and Trends Monitoring**						
	One-time payment to implement regional small streams and marine nearshore areas status and trends monitoring in Puget Sound	12/1/2019					
	Notify Ecology which option for regional status and trends monitoring is chosen	12/1/2019					
	Annual payment to implement regional small streams and marine nearshore areas status and trends monitoring in Puget Sound		8/15/2020	8/15/2021	8/15/2022	8/15/2023	

Permit Section	Permit Requirements	Permit Deadlines					
		2019	2020	2021	2022	2023	2024
S8.B	**Stormwater Management Program (SWMP) Effectiveness and Source Identification Studies**						
	One-time payment to implement effectiveness and source identification studies	12/1/2019					
	Notify Ecology which option for effectiveness and source identification studies is chosen	12/1/2019					
	Annual payment to implement effectiveness and source identification studies		8/15/2020	8/15/2021	8/15/2022	8/15/2023	
S9.	**Reporting Requirements**						
	Submit annual report of previous year's activities.		3/31/2020	3/31/2021	3/31/2022	3/31/2023	3/31/2024
G3	**Notification of Discharge, Including Spills**						
	Notify Ecology within 24 hours any discharge into or from the MS4 which could constitute a threat to human health, welfare, or the environment	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing
G18	**Duty to Reapply**						
	Apply for permit renewal at least 180 days prior to expiration						2/2/2024
G20	**Non-Compliance Notification**						
	Notify Ecology within 30 days of becoming aware of permit non-compliance	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing	Ongoing

2 Stormwater Planning (S5.C.1)

2.1 Permit Requirements

Section S5.C.1 of the Permit requires the City to implement a Stormwater Planning program to inform and assist in the development of policies and strategies as water quality management tools to protect receiving waters. The specific requirements are:

- Convene an inter-disciplinary team to inform and assist in the development, progress, and influence of the Stormwater Planning program.
- Coordinate with long-range plan updates. Describe how stormwater management needs and protection/improvement of receiving water health are (or are not) informing the planning update processes and influencing policies and implementation strategies.
- Continue to require Low Impact Development (LID) principles and LID best management practices (BMPs) and annually assess and document any newly identified administrative or regulatory barriers to implementation of LID principles or BMPs.
- Implement Stormwater Management Action Planning:
    - Document and assess existing information related to local receiving waters and contributing area conditions to identify which receiving waters are most likely to benefit from stormwater management planning. Submit a watershed inventory and include a brief description of the relative conditions of the receiving waters and the contributing areas.
    - Develop and implement a prioritization method and process to determine which receiving waters will receive the most benefit from implementation of stormwater facility retrofits, tailored implementation of SWMP actions, and other land/development management actions.
    - Develop a Stormwater Management Action Plan (SMAP) for at least one high priority catchment.

2.2 Current and Planned Activities

Stormwater Planning is a new permit requirement introduced in the 2019-2024 Permit. Although the City has engaged in various stormwater planning efforts for many years (e.g., basin planning), the new permit requires the City to look at a broad range of water quality tools available to protect receiving waters. The City will also continue to require LID principles and BMPs when updating, revising, and developing new local development-related codes, rules, standards, or other enforceable documents.

2.2.1 S5.C.1.a Convene an inter-disciplinary team

The City will convene an inter-disciplinary team by August 1, 2020, which will be led by the Surface Water Utility's Surface Water Engineer II.

2.2.2 S5.C.1.b Coordination with long-range plan updates

The inter-disciplinary team will identify how stormwater impacts on water quality were addressed (if at all) in the Comprehensive Plan and in other locally initiated or state-mandated, long-range land use plans that are used to accommodate growth or transportation during the 2013-2019 permit term.

2.2.3 S5.C.1.c Low impact development code-related requirements

The City will continue to require LID principles and BMPs when updating, revising, and developing the City's Engineering Design Manual (EDM) as well as new local development-related codes, rules, standards, or other enforceable documents. The City will also continue to assess any newly identified administrative or regulatory barriers to implementation of LID principles or BMPs during the annual review and update of the EDM.

2.2.4 S5.C.1.d Stormwater Management Action Planning

The inter-disciplinary team will utilize the City's local water quality data and basin plans to begin the receiving water assessment, receiving water prioritization, and SMAP.

3 Public Education and Outreach (S5.C.2)

3.1 Permit Requirements

Section S5.C.2 of the Permit requires the SWMP to include a stormwater education and outreach program designed to:

- Build general awareness about methods to address and reduce impacts from stormwater runoff.
- Effect behavior change to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts.
- Create stewardship opportunities that encourages community engagement in addressing the impacts from stormwater runoff.

3.2 Current and Planned Activities

The City's Surface Water Utility has several programs in place to help residents and businesses understand stormwater pollution as a significant water quality concern. The City provides outreach to residents, schools, businesses, and government on ways to reduce actions that negatively impact our environment.

In addition to local programs and events, Shoreline is an active participant in regional education and outreach activities through Stormwater Outreach for Regional Municipalities (STORM) and Stormwater Outreach Group (SOG). Efforts of these groups include developing regional stormwater education campaigns and evaluation.

The City tracks education and outreach efforts, and formal tracking of the programs offered in 2019 can be found in Appendix B of the 2019 NPDES Annual Report. For the 2020 period, the City will continue to implement an education and outreach program designed to reduce or eliminate behaviors and practices that cause or contribute to adverse stormwater impacts and encourage the public to participate in stewardship activities.

3.2.1 S5.C.2.a.i General Awareness

Table 3 (below) lists target audiences and behaviors that are currently being addressed by the City's education and outreach programs. These programs fulfill the Permit requirement to build general awareness.

TABLE 3. EDUCATION AND OUTREACH GENERAL AWARENESS PROGRAMS

Item	Target Audience	Goal and/or Behaviors Promoted
Surface Water Utility Website	General Public; Businesses	Reduce contaminants entering the storm drain system through educational information accessible on the City's website.
Surface Water Utility Report	General Public	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care, and low-impact development. Promotes stewardship programs.

Item	Target Audience	Goal and/or Behaviors Promoted
Earth Day Every Day Event	General Public; Homeowners	Promotion of storm water quality BMPs, including natural yard care, car washing, car leaks, pet waste, low-impact development, stormwater impacts, and waste reduction that minimize the amount of pollutants washed down storm drains.
"Starts Here, Ends Here" Bus Ad Campaign	General Public	In coordination with other local jurisdictions to raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care.
Natural Yard Care Campaign	General Public; Residents	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts through natural yard care practices.
Puget Sound Starts Here Month	General Public	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, and natural yard care.
Soak It Up Program	General Public; Land Owners; Businesses	Continue rebate program for rain garden retrofits and native vegetation landscaping to community residents and businesses.
Workshops and presentations on rain gardens and native vegetation landscaping	General Public; Land Owners; Contractors	Raise awareness of low impact development and incentives for these retrofits.
Booths and displays at various special and on-going events on Basic Stormwater Education	General Public; Youth	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.
Storm Drain Marking Program	General Public	Awareness; prevention of discharge of non-stormwater materials into the stormwater system; resident participation by involvement of citizen organizations and residents in the storm drain labeling process.
Adopt-A-Drain Program	General Public; Residents	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.

Item	Target Audience	Goal and/or Behaviors Promoted
Local Source Control/ Pollution Prevention Program	Businesses	Work with businesses to develop practical methods of reducing or eliminating discharge of non-stormwater materials into the stormwater system.
"Did You Know"/"Salmon Safe" factoid and environmental column in the City's monthly Currents news publication	General Public	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.
Water Quality-focused education posts on Social Media (Facebook, Twitter)	General Public	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care, hazardous waste disposal, and low-impact development. Will also promote stewardship programs, regional stormwater messaging, and local environmental events.
Park signage and pet waste stations encouraging people to pick up their pet waste (park rule or ordinance cited)	General Public; Dog Owners	Increase awareness of the importance of picking up pet waste.

3.2.2 S5.C.2.a.ii Behavior Change

By July 1, 2020, the City will complete a new evaluation of the effectiveness of the Soak It Up LID Rebate Program, the City's ongoing behavior change campaign. The evaluation will include lessons learned and a recommendation to do one of the following options:

- Develop a strategy and schedule to more effectively implement the existing Soak It Up LID Rebate Program; or
- Develop a strategy and schedule to expand the existing Soak It Up LID Rebate Program to a new target audience or BMP; or
- Develop a strategy and schedule to implement a new behavior change program for a new target audience and BMP and continue to administer the Soak It Up LID Rebate Program as is.

3.2.3 S5.C.2.a.iii Stewardship

The City will continue to offer its Storm Drain Marking, Adopt-A-Drain, and Environmental Mini-Grant programs in 2020. Citizens, community groups, and school groups can volunteer to mark storm drains with "No Dumping" medallions through the Storm Drain Marking program. Utility staff coordinate, track, and provide support for marking efforts. The Adopt-A-Drain Program is a volunteer-based opportunity for residents to help care for Shoreline's utility infrastructure of 7,000+ storm drains. Volunteers are provided with instructions and tools, by request, to care for a storm drain or multiple drains on their street or walking route. Tasks include monitoring and

removing debris from the storm drain(s) approximately once a week during the storm season (especially during peak leaf-dropping season) and tracking hours performed. The commitment term is for six months, October through March. The City also offers Environmental Mini-Grants for community groups to implement projects that preserve, restore, and enhance the environment and benefit the community. Additional details are provided in Table 4, below.

TABLE 4. EDUCATION AND OUTREACH STEWARDSHIP PROGRAMS

Item	Target Audience	Goal and/or Behaviors Promoted
Adopt-A-Drain Program	General Public; Businesses	Provides volunteer opportunities and education on how to protect and care for storm drains and water quality.
Storm Drain Marking (Medallions) Program	General Public; Businesses	Provides volunteer opportunities and education on storm drains and water quality protection.
Environmental Mini Grant Program	General Public; Homeowners; Schools	Provides funding for community groups to implement projects that benefit the environment and community, such as riparian habitat restoration, ecosystems and stormwater education, natural yard care, and litter removal projects.

4 Public Involvement and Participation (S5.C.3)

4.1 Permit Requirements

Section S5.C.3 of the Permit requires the City to provide ongoing opportunities for the public to participate in the decision-making processes involving the development, implementation, and update of the City's SWMP Plan and SMAP. The City is required to post the NPDES annual report, including the SWMP Plan, on the City's website by May 31st each year.

4.2 Current and Planned Activities

The City of Shoreline values public input on its stormwater programs. The City will provide ongoing opportunities for public involvement and participation through a variety of avenues as described below.

4.2.1 S5.C.2.a-b Involving the Public in the SWMP and SMAP

This SWMP Plan and the NPDES annual report will be posted on the City's website no later than May 31st of each year. Public comments can be made directly at www.shorelinewa.gov/stormwaterpermit. In 2020, the Surface Water Utility will develop a plan to implement in 2021 to create more opportunities for the public, including overburdened communities, to participate in the development, implementation, and update of the City's SMAP and SWMP.

TABLE 5. PUBLIC INVOLVEMENT AND PARTICIPATION PLANNED ACTIVITIES

Item	Description	Schedule
Revise SWMP Plan	The SWMP Plan outlines actions to be taken within the year to comply with the NPDES Permit. The SWMP Plan is open for public comment year-round.	Annually, by March 31st
Post Annual Report on City website	The annual report is submitted to Department of Ecology by March 31st each year. The final Report, including the SWMP Plan and other supplemental documentation if applicable, is posted on the City's website.	Annually, by May 31st
Public Involvement in the City's SWMP Plan	The City encourages public comment on the SWMP Plan via website, email, or any other written form.	Ongoing

Other avenues for public input include:

- The public can give input each year to the capital improvement plan and budget that details programs outlined in the current Surface Water Master Plan at www.shorelinewa.gov/budget.

5 MS4 Mapping and Documentation (S5.C.4)

5.1 Permit Requirements

Section S5.C.4 of the Permit requires the SWMP to include an ongoing program for mapping and documenting the municipal separate storm sewer system (MS4). The program includes:

- Continue mapping the MS4, including MS4 outfalls, discharge points, receiving waters (other than groundwater), stormwater treatment and flow control BMPs/facilities owned or operated by the City, tributary conveyances to all known outfalls and discharge points (24-inch diameter or larger), connections between other municipalities or public entities, and all connections authorized after February 16, 2007.
- New mapping requirements including collecting data for size and material for all known MS4 outfalls as well as all known connections from the MS4 to privately-owned stormwater systems.

5.2 Current and Planned Activities

The City maintains and updates a GIS database that contains all known outfalls, receiving waters, stormwater facilities, and all known connections. Field verification of the mapped drainage system occurs through the City's inspection programs and basin planning efforts.

5.2.1 S5.C.4.a-e Ongoing and New Mapping

Standard procedures are in place for documenting new connections to the MS4, changes/alterations to the existing system, and changes based on field verification. Size and material of outfalls and pipes is collected as standard procedure when digitizing final plan details. Maps and GIS datasets are available for download from the City's website and are available in electronic format to Ecology and other entities upon request.

6 Illicit Discharge Detection and Elimination (S5.C.5)

6.1 Permit Requirements

Section S5.C.5 of the Permit requires the City to have an ongoing program designed to prevent, detect, characterize, trace and eliminate illicit connections and illicit discharges into the City's stormwater drainage system.

6.2 Current and Planned Activities

One of the largest threats to the City's receiving waters is illicit discharge. The City of Shoreline has an ongoing illicit discharge detection and elimination (IDDE) program to fulfill this requirement. The IDDE program has grown over the years and includes a variety of techniques and methods as described below.

6.2.1 S5.C.5.a-e Ongoing IDDE Program

The City has adopted and implemented an illicit discharge ordinance (SMC 13.10) that provides a list of prohibited and allowable discharges and enforcement procedures. In almost all cases, the City seeks voluntary compliance through education and outreach to the general public and technical assistance to business owners through the Local Source Control/Pollution Prevention program. The City will escalate its response as necessary to ensure compliance, utilizing the City's Code Enforcement Officer.

The City has developed and implemented an ongoing IDDE program to detect, respond to, and remove illicit discharges and connections to the City's MS4. The City responds to and investigates reports of illegal dumping, spills, illicit discharges, and illicit connections. The City also maintains a spill response hotline (206.801.2700) for citizens to call and report illicit discharges or spill complaints. The hotline is advertised on the City's website at http://www.shorelinewa.gov/spillresponse.

The City is required to screen an average of 12% of its stormwater system each year. The City will continue to fulfill this requirement through its inspection programs (right-of-way, regional/residential, ditch, and hot spots) and stormwater infrastructure condition assessments.

6.2.2 S5.C.5.f Staff Training

In 2019, the City implemented an internal annual on-line refresher training for the staff who have already attended an in-person training. In 2020, an internal in-person training program will be implemented for new staff and staff who have not yet attended an in-person training. Surface Water Utility staff will also attend training on the updated King County *"Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual"*.

6.2.3 S5.C.5.g Recordkeeping

The City uses Cityworks, a Computerized Maintenance Management System (CMMS), to track efforts made in identifying, reducing, and eliminating spills, illicit discharges, and illicit connections. In 2019, the City modified the Cityworks IDDE work order's in order to meet the 2019-2024 Permit recordkeeping requirements.

7 Controlling Runoff from New Development, Redevelopment, and Construction Sites (S5.C.6)

7.1 Permit Requirements

S5.C.6 of the Permit requires that the City implement and enforce a program to reduce pollutants in stormwater runoff from new development, redevelopment, and construction site activities. The program applies to private and public development, including transportation projects.

7.2 Current and Planned Activities

The City will continue to control pollutant loads and reduce peak flows from construction and development sites as described in the sections below.

7.2.1 S5.C.6.a-b Controlling Runoff from New Development, Redevelopment, and Construction Sites Ordinance/Regulatory Mechanism

Shoreline Municipal Code (SMC) 13.10.200 adopts the 2014 update of the *2012 Stormwater Management Manual for Western Washington* (2014 SWMMWW) and the Minimum Requirements found in Appendix 1 of the NPDES Phase II Permit. Division 3 of the City of Shoreline's *Engineering Development Manual* (EDM) also addresses stormwater management as follows:

- Chapter 19 – Stormwater Manual Modifications: Modifies sections of Ecology's 2014 SWMMWW for the City.
- Chapter 21 – Surface Water Project Classifications: Defines the minimum submittal requirements for the following project classifications:
  - Small Impact Projects (MR #2 only)
  - Medium Impact Projects (MR #1 through #5)
  - Large Impact Projects (MR #1 through #9)
- Chapter 22 – Site Development Plan: Specifies criteria for project layout and site design.
- Chapter 23 – Stormwater Pollution Prevention Plan (SWPPP): Defines the requirement for MR #2 and requires a SWPPP for all development.

7.2.2 S5.C.6.c Review and Inspect Development/Redevelopment Projects

The current permitting process includes site plan review, inspections, and enforcement mechanisms for compliance. The City's Site Development Permit Checklist currently includes the following stormwater requirements:

- Plan, details, and profile of drainage system
- Erosion control
- Surface water report
- Geotechnical or soils report
- Declaration of (stormwater) covenant (includes drainage system maintenance information or manual)
- Stormwater Pollution Prevention Plan (SWPPP)

An in-field pre-construction and pre-demolition conference is required as part of the Demolition Permit submittal process before any ground-disturbing activity takes place. Right-of-Way (ROW) inspectors and Combination inspectors conduct all erosion control and BMP inspections for public projects in the ROW, CIP projects, and private building projects. The City utilizes TRAKiT to document construction and development-related inspections.

The City of Shoreline requires covenants for inspection and maintenance on all new stormwater facilities built to meet permit requirements enacted by Ordinance No. 531 – Shoreline Municipal Code 13.10, Surface Water Management Code, effective April 1, 2009. The City utilizes the maintenance standards in the 2014 SWMMWW.

7.2.3 S5.C.6.d Notice of Intent (NOI)

The City will continue to direct representatives of proposed new development and redevelopment to the Washington State Department of Ecology for electronic NOI submittal when necessary. The EDM also describes when a NPDES Construction Stormwater General Permit is required and directs representative of proposed new development and redevelopment to Ecology's website for applying for a NOI. In addition, permit checklists contain NOI information.

7.2.4 S5.C.6.e Staff Training

Staff responsible for inspecting construction, development, and redevelopment sites are Certified Erosion and Sediment Control Lead (CESCL) certified. Training will be kept up to date for employees involved in any aspect of planning, development, inspection, or enforcement of stormwater runoff controls.

8 Operations and Maintenance (S5.C.7)

8.1 Permit Requirements

The Permit requires the City to implement and document a program to regulate maintenance activities and to conduct maintenance activities to prevent or reduce stormwater impacts. The program includes:

- Implementing maintenance standards that are as protective, or more protective, than those in the SWMMWW.
- Maintenance of stormwater facilities regulated by the City.
- Maintenance of stormwater facilities owned or operated by the City.
- Implement practices, policies, and procedures to reduce stormwater impacts associated with runoff from all lands owned or maintained by the City.
- Implement a training program for staff addressing the importance of protecting water quality during operations.
- Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards and material storage facilities owned or operated by the City.
- Track and maintain records of inspections and maintenance and repair activities.

8.2 Current and Planned Activities

The City of Shoreline currently operates its operation and maintenance (O&M) programs in accordance with the Permit with the goal of reducing potential impacts to water quality. These programs use a variety of methods to meet that goal. In 2018, the Utility developed the City of Shoreline's Surface Water Operations and Maintenance Manual (O&M Manual) in accordance with the 2014 SWMMWW. The Public Works Department adheres to the O&M Manual for all stormwater O&M activities. The Surface Water Utility implements a rigorous stormwater system inspection, maintenance, and cleaning program, which is described in the O&M Manual. The City inspects several hundred public and private stormwater facilities on a rotating inspection cycle, to assure facilities are maintained after construction is complete. Through this inspection program, the City strives to assure that stormwater facilities are functioning as designed.

All City departments adhere to Shoreline Municipal Code (SMC) 20.80.085 for use of pesticides, herbicides and fertilizers on City-owned property. Additionally, all City Maintenance Yards operate under a SWPPP and are regularly inspected to assure compliance with the SWPPP.

8.2.1 S5.C.7.a Maintenance Standards

The City continues to use the 2014 SWMMWW for maintenance standards as well as following the ESA Regional Roads Maintenance Program Guidelines.

8.2.2 S5.C.7.b Maintenance of stormwater facilities regulated by the City

The City annually inspects all private stormwater facilities that were permitted and constructed in accordance with requirements adopted per the 2013-2019 Permit to ensure they are maintained according to the maintenance standards per the 2014 SWMMWW. The City utilizes a stormwater maintenance covenant as an enforcement mechanism when necessary. The City uses Cityworks to track and document all private facility inspections and enforcement actions.

8.2.3 S5.C.7.c Maintenance of stormwater facilities owned or operated by the Permittee

The City has established stormwater inspection programs designed to meet Permit requirements and achieve a minimum of 95% of the annual inspections through the following programs (see Table 6):

- Right-of-Way Inspections: includes catch basins and ditches that transfer surface water runoff from right-of-way pavement.
- Commercial/Private Facility Inspections: involves inspection of all stormwater infrastructure on site.
- Regional/Residential Facility Inspections: involves inspection of all stormwater infrastructure on site.

City owned and operated pipes with a diameter of 8 inches or larger are assessed through the City's Pipe Condition Assessment Program.

TABLE 6. STORMWATER ASSETS INSPECTION FREQUENCY

Inspection Program	Asset	Frequency of Inspection
Right-of-Way	Catch Basins Ditch	Every 2 years (1/2 annually) Every 3 years (1/3 annually)
Regional	Catch Basins Facilities (ponds, tanks, wetlands, pump stations) Culverts Contech Filters; Filterras Aquafilter Vault Vortechs Ditch Permeable Pavement Bioretention	Annually
Residential	Catch Basins Facilities (ponds, tanks, pump stations)	Every 2 years (1/2 annually)
Commercial/ Private Facility	Catch Basins Facilities (ponds, tanks) Ditch Swale Filters Vaults Permeable Pavement Bioretention	Annually or Biennially, depending on requirements & inspection history

The City continues to perform spot checks of known “hot spots” before and after major storm events.

8.2.4 S5.C.7.d Reduction of Municipal Operations Stormwater Impacts

The City of Shoreline is committed to using applicable BMPs associated with runoff control during routine maintenance. The City continues to follow the ESA Regional Roads Maintenance Program Guidelines and adheres to SMC 20.80.085.

8.2.5 S5.C.7.e Staff Training

The City coordinated a Certified Erosion and Sediment Control Lead (CESCL) certification and re-certification in 2019. The City also provided SWPPP training to the Streets and Parks maintenance crews in 2019. In 2020, the Grounds maintenance crew will also receive SWPPP training. The City will continue to provide additional training as needed.

8.2.6 S5.C.7.f Stormwater Pollution Prevention Plans (SWPPPs)

The City has SWPPPs on file for Hamlin Maintenance Yard and North Maintenance Facility. SWPPPs were updated in 2017 and will continue to be updated as needed. SWPPP inspections occur annually. In 2020, the City will develop new SWPPPs, as needed, for any new heavy equipment maintenance or storage yards or material storage facilities as the City acquires and develops new facilities.

8.2.7 S5.C.7.g Maintenance Records

The City uses Cityworks, a Computerized Maintenance Management System (CMMS), to track inspections and maintenance/repair activities.

9 Source Control Program for Existing Development (S5.C.8)

9.1 Permit Requirements

Section S5.C.8 requires the City to implement a new program designed to prevent and reduce pollutants in runoff from areas that discharge to the City's MS4. The program requires the City to:

- Implement and enforce an ordinance that requires source control BMPs for pollutant generating sources on existing development as identified in Appendix 8 of the Permit.
- Establish an inventory that identifies institutional, commercial, and industrial sites that have the potential to generate pollutants to the City's MS4.
- Implement an inspection program for sites identified on the inventory.
- Implement a progressive enforcement policy that requires sites to comply with stormwater regulations.
- Maintain a training program for staff who are responsible for implementing the source control program.

9.2 Current and Planned Activities

The City currently implements a Local Source Control/Pollution Prevention outreach program, providing assistance to businesses to develop practical methods of reducing or eliminating discharge of non-stormwater materials into the stormwater system. The City will continue to implement this program in 2020 while beginning to develop the City municipal code update, business inventory, inspection program, and enforcement policy.

10 Compliance with Total Maximum Daily Load (TMDL) Requirements (Permit Section 7)

The City is not required to implement actions for compliance with TMDLs since the City is currently not affected by any TMDLs listed in Appendix 2 of the Permit.

11 Monitoring and Assessment (Permit Section 8)

11.1 Permit Requirements

Section 8 of the Permit covers Regional Status and Trends Monitoring and SWMP Effectiveness and Source Identification Studies and requires the City to do the following:

- For the previous permit cycle, pay into a collective fund to implement regional status and trends monitoring and effectiveness and source control identification studies.
- For the current permit cycle, notify Ecology of the City's intent to pay into a collective fund to implement regional status and trends monitoring and SWMP effectiveness and source identification studies (or conduct stormwater discharge monitoring).
- Submit records of SWMP activities tracked and/or maintained in response to requests by the Stormwater Action Monitoring (SAM) coordinator.

11.2 Current and Planned Activities

In 2013, the City of Shoreline opted to contribute to the Regional fund for the Status and Trends Monitoring and Effectiveness Studies for the Permit term. Stormwater Action Monitoring (SAM) is the regional stormwater monitoring program implemented through the collective funds. The Stormwater Work Group (SWG) sets priorities and oversees the budget for SAM. City staff continue to participate in the SWG as one of six local jurisdiction representatives. This group works to identify objectives for monitoring stormwater, to develop an approach to provide needed information about stormwater impacts and the effectiveness of stormwater management actions, and to share results in a way that helps the region make better decisions. Updates on this work are provided through SAM newsletters and the SWG Reporter. See their webpages at https://ecology.wa.gov/About-us/Our-role-in-the-community/ Partnerships-committees/Stormwater-Work-Group and https://ecology.wa.gov/ Regulations-Permits/Reporting-requirements/Stormwater-monitoring/Stormwater-Action-Monitoring.

For the 2019-2024 permit term, the City will continue to pay into the collective fund to implement regional status and trends monitoring and SWMP effectiveness and source identification studies. The annual payments for the City are as follows:

- Regional Status and Trends Monitoring: $9,107
- SWMP Effectiveness and Source Identification Studies: $16,644

Additionally, City staff continue to participate in the SWG and the SWG source identification subgroup.

Surface Water Utility

2019 Education & Outreach Tracking Form - General Awareness

Program	Component	Target Audience	Subject Area(s)	Goal/Behavior(s) Promoted
General SWM Program	Surface Water Utility Website Pages	General public, businesses	General impacts of stormwater on surface waters, including impacts from impervious surfaces.	Reduce contaminants entering the storm drain system through educational information accessible on the City's website.
	Surface Water Utility Report	General public		Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care, and low-impact development. Promotes stewardship programs.
Earth Day Every Day Event	Earth Day Every Day Event flyer	General public	General impacts of stormwater on surface waters, including impacts from impervious surfaces; LID principles and BMPs.	Promotion of storm water quality BMPs, including natural yard care, car washing, car leaks, pet waste, low-impact development, stormwater impacts, and waste reduction that minimize the amount of pollutants washed down storm drains.
	Earth Day Event article in Currents Newsletter	General public		
	Earth Day Every Day Event: hosted 18 organizations, staffed booths with outreach materials; over 785 participants attended the event	General public, homeowners		

Program	Component	Target Audience	Subject Area	Goal/Behavior Promoted
Water Quality Education	"Did You Know?" water quality and environmental column in "Currents" newsletter	General public and businesses	General impacts of stormwater on surface waters, including impacts from impervious surfaces; LID principles and BMPs.	Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.
	Water quality-focused educational posts on City social media streams (Facebook, Twitter)			Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care, hazardous waste disposal, and low-impact development. Will also promote stewardship programs, regional stormwater messaging, and local environmental events.
	Adopt-A-Drain Progam			Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.
	Storm Drain Marking (Medallions)			Awareness; prevention of discharge of non-stormwater materials into the stormwater system; resident participation by involvement of citizen organizations and residents in the storm drain labeling process.
	Staffed booth at community events; Enviroscapes Model interactive display	General Public, residents, youth		Raise awareness of stormwater impacts and ways that citizens can reduce these impacts.
Park Pet Waste Stations	Park signage and pet waste stations encouraging people to pick up their pet waste (park rule or ordinance cited on signage)	General public	General impacts of stormwater on surface waters.	Increase awareness of the importance of picking up pet waste.

Program	Component	Target Audience	Subject Area	Goal/Behavior Promoted
Environmental Mini-Grant Program	Shoreline School District Ecosystems Unit covering water quality, ecosystems, climate change	School age children	General impacts of stormwater on surface waters, including impacts from impervious surfaces.	Provides funding for community groups to implement projects that benefit the environment and community, such as riparian habitat restoration, ecosystems and stormwater education, natural yard care, and litter removal projects.
Local Source Control/ Pollution Prevention Program	Pollution Prevention Assistance Program provides technical assistance site visits and education to small businesses (SQGs)	Businesses (SQGs)	General impacts of stormwater on surface waters, including impacts from impervious surfaces.	Work with businesses to develop practical methods of reducing or eliminating discharge of non-stormwater materials into the stormwater system.
Soak It Up LID Rebate Program	Workshops and presentations on rain gardens and native vegetation landscaping	General public, residents, businesses	General impacts of stormwater on surface waters, including impacts from impervious surfaces; LID principles and BMPs.	Continue rebate program for rain garden retrofits and native vegetation landscaping to community residents and businesses. Raise awareness of low impact development and incentives for these retrofits.
	LID Rebate Program Information Booth & Rain Garden Display Banner	General public, residents, businesses, landscapers, contractors		
	Site Visit / LID Consultation	Single-family residential property owners		
Regional Storm Water Outreach Group (STORM)	Puget Sound Starts Here Month: #OrcaHero Campaign/social media posts	General public	General impacts of stormwater on surface waters.	Raise awareness of stormwater impacts and ways residents can reduce these impacts, including proper pet waste disposal, fixing car leaks, proper car washing procedures, natural yard care.
	"Starts Here, Ends Here" Bus Ad Campaign			
	Don't Drip and Drive Program			
	Natural Yard Care Program			

Surface Water Utility

2019 Education & Outreach Tracking Form - Stewardship

Program	Component	Target Audience	Activity Type
Environmental Mini-Grant Program	Shoreline School District Ecosystems Unit covering water quality, ecosystems, climate change, each class recieves 6 hours instruction and 1 field trip	School age children	Classroom Instruction and Field Trip
Water Quality Education	Adopt-A-Drain Progam provides volunteer opportunities and education on how to protect and care for storm drains and water quality	General public and businesses	Participants
	Storm Drain Marking (Medallions) provides volunteer opportunities and education on storm drains and water quality protection	General public and businesses	Drains Marked

Type	PIPE SHAPE	PIPE MATERIAL	DIAMETER	DIMENSION HEIGHT	DIMENSION WIDTH	COMMENTS
PIPE	RND	Corrugated Metal	12			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Corrugated Metal	12			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Corrugated Metal	24			This outfall was not marked as a potential OF in the original inventory. This outfall was ID'd from originating end.
PIPE	RND	Corrugated Metal	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Corrugated Metal	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Corrugated Metal	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Corrugated Metal	12			This outfall was not marked as a potential OF in the original inventory- appears to run out of city
PIPE	RND	Corrugated Metal	6			This outfall was ID'd fom the originating CB to the East (CS). There is no feature above the junction point through which to view.
PIPE	RND	Corrugated Metal	6			This outfall was ID'd fom the originating CB to the East (CS). There is no feature above the junction point through which to view.
PIPE	RND	Corrugated Metal	6			This outfall was ID'd fom the originating CB to the East (CS). There is no feature above the junction point through which to view.
PIPE	RND	Corrugated Metal	6			This outfall was ID'd fom the originating CB to the East (CS). There is no feature above the junction point through which to view.
PIPE	RND	Corrugated Metal	12			This outfall was created by the re-routing of the stream

PIPE	RND	Corrugated Metal	48			This outfall is on apartment complex grounds. ID'd but validity as confirmed outfall subject to review.
PIPE		Corrugated Metal	12			This Outfall drains to City of Seattle.
PIPE	RND	Corrugated Metal	12			This Outfall drains to City of Seattle.
PIPE	RND	Corrugated Metal	18			This Outfall drains to City of Seattle.
PIPE	RND	Corrugated Metal	18			This Outfall drains to City of Seattle.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. ID'd from proximal end.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. ID'd from distal end of pipe.
PIPE	RND	Corrugated Metal	18			This outfall drains to a system outside the City of Shoreline. ID'd from distal end of pipe.
PIPE	RND	Corrugated Metal	30			This outfall drains to a system outside the City of Shoreline. ID'd from distal end of pipe.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Corrugated Metal	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Corrugated Metal	30			This is a stream flowing out of City of Shoreline.

PIPE	RND	Corrugated Metal	12			This outfall discharges to detention pond.
PIPE	RND	Corrugated Metal	18			School playground.
PIPE	RND	Corrugated Metal	18			rusty smell
PIPE	RND	Corrugated Metal	12			Pipe outfall, then runs through short channel to stream. 2 photos: 040209_3_1; 3_2
PIPE	RND	Corrugated Metal	12			Outfall discharges from pipe on hillside high above stream. Look for OF below and left of trail entrance.
PIPE	RND	Corrugated Metal	12			Observed from boat
PIPE	RND	Corrugated Metal	18			observations taken from proximal end of pipe
PIPE	RND	Corrugated Metal	12			innis arden
PIPE	RND	Corrugated Metal	12			empties onto surface
PIPE	RND	Corrugated Metal	12			empties onto surface
PIPE	RND	Corrugated Metal	12			Crushed
PIPE	RND	Corrugated Metal	12			comes from cs
PIPE	RND	Corrugated Metal	20			assumed it runs over surface down to stream
PIPE	RND	Corrugated Metal	36			3 photos: 021709_13_1; 13_2; 13_3
PIPE	RND	Corrugated Metal	12			2 photos: 021709_8_1; 8_2
PIPE	RND	Corrugated Metal	12			2 photos: 021709_5_1; 5_2
PIPE	RND	Corrugated Metal	36			2 photos: 021709_12_1; 12_2
PIPE	RND	Corrugated Metal	24			2 photos: 021209_11_1; 021209_11_2
PIPE	RND	Corrugated Metal	4			
PIPE	RND	Corrugated Metal	4			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			

PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	8			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	OVAL	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			

PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	SQR	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	OVAL	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	12			
PIPE	RND	Corrugated Metal	16			

PIPE	RND	Corrugated Metal	18			
PIPE	RND	Corrugated Metal	18			
PIPE	RND	Corrugated Metal	18			
PIPE	RND	Corrugated Metal	18			
PIPE	OVAL	Corrugated Metal	18			
PIPE	RND	Corrugated Metal	18			
PIPE	RND	Corrugated Metal	24			
PIPE	RND	Corrugated Metal	24			
PIPE	RND	Corrugated Metal	24			
PIPE	RND	Corrugated Metal	30			
PIPE	OVAL	Corrugated Metal	30			
PIPE	RND	Corrugated Metal	36			
PIPE	RND	Corrugated Metal	36			
PIPE	RND	Corrugated Metal	48			
PIPE	RND	Corrugated Metal	48			
PIPE	RND	Corrugated Metal	48			
PIPE	RND	Concrete	6			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	8			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	10			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	12			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	12			This point feature represents a pipe flowing into City of Shoreline.

PIPE	RND	Concrete	12			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	18			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	18			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	18			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	18			This point feature represents a pipe flowing into City of Shoreline.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory. ID'd as if stream extended south to this CB.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory. ID'd as if stream extended south to this CB.
PIPE	RND	Concrete	18			This outfall was not marked as a potential OF in the original inventory. ID'd as if stream extended south to this CB.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory. This outfall was ID'd from originating end.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Concrete	12			This outfall was not marked as a potential OF in the original inventory.

PIPE	RND	Concrete	24			This outfall was not marked as a potential OF in the original inventory.
PIPE	RND	Concrete	18			This outfall was ID'd from originating catch basin- discharges to stream that is on railroad property.
PIPE	RND	Concrete	12			This outfall was created by the re-routing of the stream
PIPE	RND	Concrete	12			This outfall is the distal end of a line that runs out of City of Shoreline.
PIPE	RND	Concrete	12			This outfall is on apartment complex grounds. ID'd but validity as confirmed outfall subject to review.
PIPE	RND	Concrete	12			This outfall is on apartment complex grounds. ID'd but validity as confirmed outfall subject to review.
PIPE	RND	Concrete	12			This outfall is on apartment complex grounds. ID'd but validity as confirmed outfall subject to review.
PIPE	RND	Concrete	15			This outfall is on apartment complex grounds. ID'd but validity as confirmed outfall subject to review.
PIPE	RND	Concrete	18			This outfall is on apartment complex grounds. ID'd but validity as confirmed outfall subject to review.
PIPE	RND	Concrete	12			This outfall ID'd from basin closest to origination of stream; pipe crossing 23rd Pl NW and junction with stream not visible
PIPE	RND	Concrete	18			This outfall flows from culvert under RR tracks. Unsure if this is a defined stream, but there is no stream feature described here on the current stream shapefile.
PIPE		Concrete	12			This Outfall drains to City of Seattle.
PIPE	RND	Concrete	12			This Outfall drains to City of Seattle.
PIPE	RND	Concrete	12			This Outfall drains to City of Seattle.

PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline. ID'd from proximal end.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline. ID'd from proximal end.
PIPE	RND	Concrete	18			This outfall drains to a system outside the City of Shoreline. ID'd from distal end.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline. ID'd from distal end of pipe.
PIPE	RND	Concrete	6			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	6			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	8			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	8			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	8			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	10			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	OTH	Concrete	12			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	18			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.

PIPE	RND	Concrete	30			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	Concrete	18			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	18			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	36			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	Concrete	12			This outfall could not be viewed (no feature above junction), was ID'd from originating basin a few feet to the East.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.

PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.

PIPE	RND	Concrete	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.

PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.

PIPE	RND	Concrete	12			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	30			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	Concrete	12			
PIPE	RND	Concrete	12			Some uncertainty re where stream runs here, but likely that these points are outfalls.
PIPE	RND	Concrete	12			Some uncertainty re where stream runs here, but likely that these points are outfalls.
PIPE	RND	Concrete	12			Pipe outfall discharges to hillside above stream. 2 photos: 033109_7_1; 7_2
PIPE	RND	Concrete	12			Pipe outfall discharges to hillside above stream
PIPE	RND	Concrete	24			Photo 030609_7 shows outfalls 030609_7; 030609_8
PIPE	RND	Concrete	24			Photo 030609_7 shows outfalls 030609_7; 030609_8
PIPE	RND	Concrete	24			Photo 021909_4 shows outfalls 021909_4; 021909_5. Could not see outfall due to overhanging wall.
PIPE	RND	Concrete	30			Photo 021909_4 shows outfalls 021909_4; 021909_5. Could not see outfall due to overhanging wall.
PIPE	RND	Concrete	12			Outfall is about 8 feet from shoreline and submerged
PIPE	RND	Concrete	12			Outfall ID'd from originating end in ditch across street from the hillside where it discharges; could not locate discharge end; discharges several hundred feet above main stream

PIPE	RND	Concrete	12			Outfall confirmed by looking through open end of pipe at ditch terminus; no feature above junction
PIPE	RND	Concrete	8			
PIPE	RND	Concrete	12			Discharges to North Pond
PIPE	RND	Concrete	12			Catch basin lid jammed; ID'd from beginning of pipe/terminus of ditch. 2 photos: 040909_5_1; 5_2
PIPE	RND	Concrete	24			bus barn
PIPE	RND	Concrete	36			2 photos: 042709_1_1; 1_2
PIPE	RND	Concrete	8			2 photos: 040709_4_1; 4_2
PIPE	RND	Concrete	12			2 photos: 030609_6_1; 6_2
PIPE	RND	Concrete	4			
PIPE	RND	Concrete	6			
PIPE	RND	Concrete	6			
PIPE	RND	Concrete	6			
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PIPE	RND	Concrete	30			
PIPE	RND	Concrete	36			
PIPE	RND	Concrete	36			
PIPE	RND	Concrete	48			
PIPE	RND	Corrugated Plastic	4			Yard drain from private school grounds.
PIPE	RND	Corrugated Plastic	12			Unsure where this pipe originates
PIPE	RND	Corrugated Plastic	18			Unsure where this pipe originates
PIPE	RND	Corrugated Plastic	12			This point feature represents a pipe flowing into City of Shoreline.

PIPE	RND	Corrugated Plastic	12			This outfall's catch basin originally showed a stream running in from the West but inspection revealed that this connection never existed or was sealed up. Edited stream layer to show disconnect but stream is otherwise unchanged.
PIPE	RND	Corrugated Plastic	12			This outfall was created by the re-routing of the stream
PIPE	RND	Corrugated Plastic	12			This outfall was created by the re-routing of the stream
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PIPE	RND	Corrugated Plastic	12			This outfall was created by the re-routing of the stream
PIPE	RND	Corrugated Plastic	18			This outfall was created by the re-routing of the stream
PIPE	RND	Corrugated Plastic	18			This outfall was created by the re-routing of the stream

PIPE	RND	Corrugated Plastic	12			This outfall discharges to detention pond.
PIPE	RND	Corrugated Plastic	12			Picture link is actually a video of the pipe; outfall is at the end.
PIPE	RND	Corrugated Plastic	4			Observed from boat
PIPE	RND	Corrugated Plastic	12			New pipe/outfall installed for condo project just south. 2 photos: 032409_7_1; 7_2
PIPE	RND	Corrugated Plastic	12			empties onto surface
PIPE	RND	Corrugated Plastic	18			Could not ID from feature (large grill cover) to the West, so ID'd from pipe discharge to open channel beyond City boundary.
PIPE	RND	Corrugated Plastic	18			2 photos: 042409_7_1; 7_2
PIPE	RND	Corrugated Plastic	12			2 photos: 032509_3_1; 3_2
PIPE	RND	Corrugated Plastic	36			2 photos: 021909_9_1; 9_2
PIPE	RND	Corrugated Plastic	4			
PIPE	RND	Corrugated Plastic	6			
PIPE	RND	Corrugated Plastic	6			
PIPE	RND	Corrugated Plastic	8			
PIPE	RND	Corrugated Plastic	12			
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PIPE	RND	Corrugated Plastic	24			
Catch Basin	N/A	N/A	N/A	20	24	This outfall is a catch basin that is part of the conveyance that is considered a receiving water.
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Catch Basin	N/A	N/A	N/A	20	24	This outfall is a catch basin that is part of the conveyance that is considered a receiving water.
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Catch Basin	N/A	N/A	N/A	20	24	This outfall is a catch basin that is part of the conveyance that is considered a receiving water.
PIPE	RND	PVC	12			This outfall was created by the re-routing of the stream
PIPE	RND	PVC	12			This outfall was created by the re-routing of the stream
PIPE	RND	PVC	24			This outfall was created by the re-routing of the stream
PIPE	RND	PVC	12			This outfall drains to a system outside the City of Shoreline. ID'd from proximal end.
PIPE	RND	PVC	8			This outfall drains to a system outside the City of Shoreline. Inventory was taken from the proximal end of pipe.
PIPE	RND	PVC	12			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	PVC	18			This outfall drains to a system outside the City of Shoreline.
PIPE	RND	PVC	4			Some uncertainty re where stream runs here, but likely that these points are outfalls. This yard drain discharges into catch basin from surface level.
PIPE	RND	PVC	8			Photo 030309_2 shows outfalls 030309_2; 030309_3; 030309_4
PIPE	RND	PVC	6			Photo 022509_6 shows outfalls 022509_6; 022509_7
PIPE	RND	PVC	6			Photo 022509_6 shows outfalls 022509_6; 022509_7
PIPE	RND	PVC	18			Outfall submerged in control overflow basin. Could confirm presence but not able to ID all attributes or photograph.
PIPE	RND	PVC	24			Outfall submerged in control overflow basin. Could confirm presence but not able to ID all attributes or photograph.

PIPE	RND	PVC	24			Outfall is at the end of a long, above-ground pipe running down hill in greenbelt. Outfall point is several hundred feet above main stream- water runs through its own streamlike channel down to connect with main stream.
PIPE	RND	PVC	4			Observed from boat
PIPE	RND	PVC	6			Observed from boat
PIPE	RND	PVC	8			Manhole cover above junction locked/jammed; ID'd from originating basin a few feet to West.
PIPE	RND	PVC	8			Manhole cover above junction locked/jammed; ID'd from originating basin a few feet to West.
PIPE	RND	PVC	8			Manhole cover above junction locked/jammed; ID'd from originating basin a few feet to West.
PIPE	RND	PVC	8			Manhole cover above junction locked/jammed; ID'd from originating basin a few feet to West.
PIPE	RND	PVC	3			
PIPE	RND	PVC	4			
PIPE	RND	PVC	4			
PIPE	RND	PVC	6			
PIPE	RND	PVC	6			
PIPE	RND	PVC	8			
PIPE	RND	PVC	8			
PIPE	RND	PVC	8			
PIPE	RND	PVC	8			
PIPE	RND	PVC	8			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	12			
PIPE	RND	PVC	18			
PIPE	RND	PVC				

PIPE	RND	STEEL	12			This outfall was created by the re-routing of the stream
PIPE	RND	STEEL	12			This outfall was created by the re-routing of the stream
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PIPE	RND	STEEL	12			This outfall was created by the re-routing of the stream
PIPE	RND	STEEL	3			This outfall is from small pipe, possibly discharging excess water from forced (drinking) water basin nearby
PIPE	RND	STEEL	3			This outfall is from small pipe, possibly discharging excess water from forced (drinking) water basin nearby
PIPE	RND	STEEL	8			This Outfall drains to City of Seattle.
PIPE	RND	STEEL	12			This Outfall drains to City of Seattle.
PIPE	RND	STEEL	18			This outfall discharges to detention pond.
PIPE	RND	STEEL	8			This outfall could not be confirmed. Pipes from catch basins appear to run at an angle that intersects with the stream. Outfall data was taken from the beginning end of the pipe. Photo taken to show direction pipe runs from basin to stream.
PIPE	RND	STEEL	3			This is a small outfall with what appears to be a small discharge just below it about 2" diameter, with flow
PIPE	RND	STEEL	8			School playground.
PIPE	RND	STEEL	24			2 photos: 030509_3; 3_2
PIPE	RND	STEEL	8			2 photos: 030509_2; 2_2
PIPE	RND	STEEL	10			2 photos: 021909_3_1; 3_2
PIPE	RND	STEEL	2			
PIPE	RND	STEEL	8			
PIPE	RND	STEEL	8			
PIPE	RND	STEEL	8			
PIPE	RND	STEEL	8			
PIPE	RND	STEEL	12			
PIPE	RND	STEEL	12			
PIPE	RND	STEEL	12			
PIPE	RND	STEEL	12			
PIPE	RND	STEEL	18			

PIPE	RND	STEEL	24			
DITCH				24	24	Well defined ditch parallels street, then discharges down hill ~200 ft above main stream. 2 photos: 0330909_8_1; 8_2
PIPE	RND		12			Unexpected outfall. Runoff coming out of hillside; concentrated, perhaps coming from pipe, no pipe visible; runs in short open channel to stream.
PIPE	OTH					Unexpected outfall. Runoff coming out of hillside; concentrated, perhaps coming from pipe, no pipe visible; runs in short open channel to stream.
DITCH				42	18	Uncertain whether this ditch outfall is technically draining outside of City or not; but is draining to stream. 2 photos: 031309_22_1; 22_2
PIPE				24	36	Pipe discharges at top of steep hillside ~50 ft above stream; water runs through well-defined channel to main stream below. 3 photos: 041409_4_1; 4_2; 4_3
DITCH				36	42	3 photos: 030509_1_1; 1_2; 1_3
DITCH				6	12	3 photos: 021709_15_1; 15_2; 15_3
DITCH				36	24	2 photos: 040709_6_1; 6_2
DITCH				24	12	2 photos: 040709_2_1; 2_2
DITCH				24	48	2 photos: 033009_6_1; 6_2
DITCH				30	48	2 photos: 031309_7_1; 7_2
DITCH				24	24	2 photos: 031309_12_1; 12_2
DITCH				12	36	2 photos: 031309_11_1; 11_2
DITCH				8	30	2 photos: 021709_9_1; 9_2
DITCH				8	12	2 photos: 021709_2_1; 2_2
DITCH				8	18	2 Photos 031709_5_1; 5_2
DITCH				6	12	2 Photos 031709_4_1; 4_2
DITCH				8	5	2 Photos 031709_2_1; 2_2
DITCH				6	12	2 Photos 031709_1_1; 1_2
PIPE	RND		8			
PIPE	RND		8			
PIPE	RND		8			
PIPE	RND		12			
PIPE	RND		12			
PIPE	RND		12			
PIPE	RND		12			
PIPE	RND		12			
PIPE	RND		12			

PIPE	RND		18			
PIPE	RND		18			
DITCH				18	12	
DITCH				24	48	
DITCH				24	60	
DITCH				12	24	
PIPE	RND					
PIPE	RND					
PIPE	RND					
PIPE						
DITCH						
PIPE	RND					

Inspection Template Name	Inspection ID	1. Shoreline Permit WAR04 5542	2. Date incident reported to you	3. Date of beginning your response	4. Date of end of your response	5. How was the incident discovered or reported to you	5a. ERTS case number	5b. Explain Other	6. Discharge to MS4	6a. Explain Other	7. Incident location	7a. Address Street City State Zip	7b. Latitude (Y)	7b. Longitude (X)
IDDE Reporting	86389	Shoreline - Permit # WAR04-5542	8/7/2019	8/7/2019	8/7/2019	Pollution Hotline (phone, web, app)			Unknown	No documentation or evidence of illicit discharge	Street address	18810 Densmore Ave N, Shoreline, WA 98133		
IDDE Reporting	94595	Shoreline - Permit # WAR04-5542	7/24/2019	7/24/2019	7/24/2019	Pollution Hotline (phone, web, app)			No - none found					
IDDE Reporting	94596	Shoreline - Permit # WAR04-5542	8/1/2019	8/1/2019	8/1/2019	Pollution Hotline (phone, web, app) ERTS referral	692022		No - cleaned up before reached MS4					
IDDE Reporting	94599	Shoreline - Permit # WAR04-5542	8/21/2019	8/21/2019	8/21/2019	Pollution Hotline (phone, web, app)			Yes - did not notify		Street address	15401 1st Ave NE, Shoreline, WA 98133		

IDDE Reporting	94693	Shoreline - Permit # WAR04-5542	9/5/2019	9/5/2019	9/5/2019	Staff Referral	693006		Yes - allowable or conditionally allowable		Street address	155th & Aurora, Shoreline, WA 98133		
IDDE Reporting	94696	Shoreline - Permit # WAR04-5542	9/4/2019	9/5/2019	9/5/2019	Staff Referral			Unknown			108 NE 157th St, Shoreline, WA 98155		
IDDE Reporting	94697	Shoreline - Permit # WAR04-5542	9/4/2019	9/4/2019	9/4/2019	Pollution Hotline (phone, web, app) ERTS referral	692832		Yes - notified Ecology			17525 Densmore Ave N, Shoreline, WA 98133		
IDDE Reporting	94731	Shoreline - Permit # WAR04-5542	9/9/2019	9/9/2019	9/9/2019	ERTS referral	692940		No - none found					
IDDE Reporting	94734	Shoreline - Permit # WAR04-5542	9/10/2019	9/10/2019	9/10/2019	Staff Referral	693009		Yes - notified Ecology		Street address	17233 15th Ave NE Shoreline WA 98155		

IDDE Reporting	94739	Shoreline - Permit # WAR04-5542	9/6/2019	9/9/2019	9/9/2019	Staff Referral	693007		Unknown	Staining on walls of catch basin near lid, but no material found in sump of catch basin	Street address	303 NW 193rd Ct		
IDDE Reporting	94770	Shoreline - Permit # WAR04-5542	9/11/2019	9/11/2019	9/11/2019	ERTS referral	693030		No - none found					
IDDE Reporting	94778	Shoreline - Permit # WAR04-5542	6/25/2019	6/25/2019	6/25/2019	Business inspection			No - cleaned up before reached MS4		Street address	15323 Westminster Way N, Shoreline, WA 98133		
IDDE Reporting	94783	Shoreline - Permit # WAR04-5542	9/10/2019	9/10/2019	9/10/2019	Pollution Hotline (phone, web, app)	693008		No - cleaned up before reached MS4					
IDDE Reporting	94784	Shoreline - Permit # WAR04-5542	9/11/2019	9/11/2019	9/11/2019	Staff Referral	693046		Unknown		Street address	18502 3rd Ave NW, Shoreline, WA 98177		

IDDE Reporting	94785	Shoreline - Permit # WAR04-5542	9/13/2019	9/13/2019	9/13/2019	Pollution Hotline (phone, web, app)	693095		Yes - notified Ecology		Street address	1810 N 155th St, Shoreline, WA 98133		
IDDE Reporting	94955	Shoreline - Permit # WAR04-5542	10/2/2019	10/2/2019	10/2/2019	Direct report to your staff	693528		Yes - notified Ecology		Street address Latitude/Longitude		284741.110	1266310.420
IDDE Reporting	95187	Shoreline - Permit # WAR04-5542	10/10/2019	10/10/2019	10/10/2019	Staff Referral			No - cleaned up before reached MS4					
IDDE Reporting	95290	Shoreline - Permit # WAR04-5542	10/17/2019	10/17/2019	10/17/2019	ERTS referral	693786		Other (Explanation required)	Discharge was from a private system to another private system that discharges to Puget Sound. No MS4 was impacted.		35 NW Cherry Loop, Shoreline, WA		
IDDE Reporting	95291	Shoreline - Permit # WAR04-5542	10/17/2019	10/17/2019	10/17/2019	Staff Referral			No - cleaned up before reached MS4					

IDDE Reporting	95348	Shoreline - Permit # WAR04-5542	10/25/2019	10/25/2019	10/25/2019	Staff Referral	694005		Yes - notified Ecology		Street address	19553 Aurora Ave N, Shoreline, WA		
IDDE Reporting	95350	Shoreline - Permit # WAR04-5542	10/24/2019	10/24/2019	10/24/2019	Pollution Hotline (phone, web, app)			No - none found					
IDDE Reporting	100914	Shoreline - Permit # WAR04-5542	11/14/2019	11/14/2019	11/14/2019	Direct report to your staff			Yes - allowable or conditionally allowable	Fire fighting foam from emergency (car fire)	Street address	19555 N 198th St, Shoreline, WA		
IDDE Reporting	101034	Shoreline - Permit # WAR04-5542	11/19/2019	11/19/2019	11/19/2019	Pollution Hotline (phone, web, app)			No - cleaned up before reached MS4					
IDDE Reporting	101146	Shoreline - Permit # WAR04-5542	11/27/2019	11/27/2019	11/27/2019	Pollution Hotline (phone, web, app)	694621		Yes - notified Ecology			18209 Fremont N		
IDDE Reporting	101502	Shoreline - Permit # WAR04-5542	12/19/2019	12/19/2019	12/19/2019	Staff Referral	695063		Yes - notified Ecology		Street address	17213 8th Ave NE		
IDDE Reporting	101541	Shoreline - Permit # WAR04-5542	12/24/2019	12/24/2019	12/24/2019	Staff Referral	695268		Yes - notified Ecology		Street address	1521 NE 172nd St, Shoreline, WA		

IDDE Reporting	102813	Shoreline - Permit # WAR04-5542	12/23/2019	12/30/2019	12/30/2019	ERTS referral	695152		Yes - notified Ecology	The construction company notified Ecology.	Street address	16045 25th Ave NE, Shoreline, WA 98155		
IDDE Reporting	102844	Shoreline - Permit # WAR04-5542	10/27/2019	10/28/2019	10/28/2019	Staff Referral	694028		Yes - notified Ecology			2355 N 147th St, Shoreline 98133		
IDDE Reporting	102862	Shoreline - Permit # WAR04-5542	10/29/2019	10/29/2019	10/29/2019	ERTS referral	693893		No - cleaned up before reached MS4					
IDDE Reporting	102863	Shoreline - Permit # WAR04-5542	11/5/2019	11/5/2019	11/5/2019	Pollution Hotline (phone, web, app)			No - none found					
IDDE Reporting	102864	Shoreline - Permit # WAR04-5542	11/12/2019	1/6/2020	1/6/2020	Staff Referral			Yes - allowable or conditionally allowable			14541 25th Ave NE, Shoreline, WA 98155		

IDDE Reporting	102865	Shoreline - Permit # WAR04-5542	11/26/2019	11/26/2019	11/26/2019	ERTS referral	694607		No - cleaned up before reached MS4					
IDDE Reporting	102866	Shoreline - Permit # WAR04-5542	12/20/2019	12/20/2019	12/20/2019	Staff Referral	695080, 695201		Yes - notified Ecology		Street address	2355 N 147th St, Shoreline, WA		
IDDE Reporting	102884	Shoreline - Permit # WAR04-5542	12/20/2019	12/20/2019	12/20/2019	Staff Referral	695718		Yes - notified Ecology			106 NE 155th St, Shoreline, WA		
IDDE Reporting	102885	Shoreline - Permit # WAR04-5542	12/20/2019	12/20/2019	12/20/2019	Staff Referral	695215		Yes - notified Ecology		Street address	17803 3rd Ave NE, Shoreline, WA		
IDDE Reporting	102935	Shoreline - Permit # WAR04-5542	12/10/2019	1/17/2020	1/17/2020	Business inspection			No - none found	Excessive sediment in catch basins, but no illicit discharge found. Located on private property, did not impact MS4.	Street address	14710 & 14720 Aurora Ave N, Shoreline, WA		

IDDE Reporting	103067	Shoreline - Permit # WAR04-5542	12/23/2019	12/23/2019	12/23/2019	ERTS referral	695195		Yes - notified Ecology		Street address	1103 NE 200th St		
IDDE Reporting	103074	Shoreline - Permit # WAR04-5542	12/20/2019	12/20/2019	12/20/2019	ERTS referral	695176		Yes - notified Ecology		Street address	14701 5th Ave NE, Shoreline, WA		
IDDE Reporting	107871	Shoreline - Permit # WAR04-5542	12/23/2019	12/23/2019	12/23/2019	ERTS referral	695175		Yes - notified Ecology		Street address	1151 NE 205th St, Shoreline, WA		

8. Pollutants identified	8a. Explain Other	9. Source or cause	9a. Investigated within 21 days	9b. Explain Other	10. Source tracing approach es used	10a. Explain Other	11. Correction elimination methods used	11a. Explain Other	12. Field notes explanations and or other comments
Unconfirmed, unspecified, or not identified Other (Explanation required)	Herbicide	Other (Explanation required)		Private property owner using Roundup in City rain garden	Not applicable		Education/technical assistance		A neighbor claims their other neighbor has used Roundup in a City ROW bioretention facility. No documentation to substantiate claim, so sent a letter to neighborhood that herbicides, pesticides, etc not allowed to be used.
Other (Explanation required)	Pollen	Other (Explanation required)		Natural (trees)	Observation	Visual	Other (Explanation required)	Pollen from trees/natural occurance	City employee investigated and determined the "white powder" to be pollen from the trees that accumulated on the parking lot

		Other (Explanation required)		Water main	Not applicable		Other (Explanation required)	Confirmed that the discharge was de-chlorinated	SPU used a vitamin C hose attachment to de-chlorinate the water
Fuel and/or vehicle related fluids Other (Explanation required)	granular absorbent	Other (Explanation required)		vehicle leak	Observation	visual	Education/technical assistance		Sent a follow-up letter to property owner informing them to clean granular material from street
Fuel and/or vehicle related fluids		Other (Explanation required)		Vehicle - mechanical failure	Observation	Visual	Clean-up		
									There are no ditches in that area. There is a large a dump truck with a trailer with heavy equipment on it parked on the private property across from the entrance to the park, but there is no evidence of any type of dumping or spills from the truck.
Sediment/soil		Construction activity	Yes		Observation		Clean-up Add or modify operational source control BMP		

Unconfirmed, unspecified, or not identified	Possibly concrete wash water, unable to confirm	Unconfirmed, unspecified, or not identified		Possibly from installation of new fence on a private property, unable to confirm	Observation	Visual	Education/technical assistance		
Food-related oil/grease		Food-related business			Observation		Clean-up Education/technical assistance Add or modify operational source control BMP Enforcement		
Paint		Intentional dumping		Residential painting	Observation	Visual	Education/technical assistance		

Soap or cleaning chemicals		Intentional dumping Other (Explanation required)		Preschool	Observation	Visual & odor	Clean-up Education/technical assistance		
Sediment/soil		Other (Explanation required)	Yes	Water Main Break	Observation Map analysis		Clean-up		
Other (Explanation required)	Pond dye	Other (Explanation required)		Golf club	Observation		Education/technical assistance Referred to other agency or department		

Paint		Food-related business			Observation		Clean-up		Appeared the business painted exterior right before rain storm, causing rain to wash paint off building and into storm drain.
Firefighting foam		Other (Explanation required)		Vehicle fire	Observation		Clean-up		
Fuel and/or vehicle related fluids					Observation		Clean-up		
Fuel and/or vehicle related fluids		Other accident/spill	Yes		Observation		Clean-up		
Sediment/soil		Construction activity	Yes		Observation	Visual	Clean-up Add or modify operational source control BMP Enforcement		
Sewage/septage/pet waste/human waste		Construction activity	Yes		Observation		Clean-up		

Sediment/soil		Construction activity	Yes		Not applicable		Add or modify operational source control BMP		
Sediment/soil		Construction activity			Observation		Clean-up Education/technical assistance Add or modify operational source control BMP Referred to other agency or department	Also referred to Ecology CSWGP site inspector	
Other (Explanation required)	Conditionally allowable discharge - hydrant line flushing	Other (Explanation required)		Hydrant	Observation		Education/technical assistance		Coordinating with North City Water District and other utilities during annual utility coordination meeting on 4/16/20

Sediment/soil		Construction activity			Observation		Add or modify operational source control BMP		
Sediment/soil		Construction activity			Observation		Add or modify operational source control BMP		
Sediment/soil		Construction activity			Observation		Add or modify operational source control BMP		
Sediment/soil		Vehicle-related business			Observation		Clean-up		Sending a follow letter to the business pollution prevention site visit informing businesses that catch basins need to be vactored due to excessive sediment.

Sediment/soil		Construction activity			Observation Field indicator measurements		Clean-up Add or modify operational source control BMP		
Sediment/soil		Construction activity			Observation Field indicator measurements		Clean-up Add or modify operational source control BMP		Sound Transit installed and began operating the pumps and have successfully managed their onsite stormwater since the December 20, 2019 event. The site passed the follow-up inspection completed by the City's inspector on December 23, 2019.
Sediment/soil		Construction activity			Observation		Add or modify operational source control BMP		

APPENDIX F. FURTHER EXPLANATION OF SELECT REPORT QUESTIONS

Question #	Permit Section(s)	Question(s)
53	S5.C.6.c.vi & vii	Achieved at least 80% of scheduled construction-related inspections. AND The program shall include a procedure for keeping records of inspections and enforcement actions by staff, including inspection reports, warning letters, notices of violations, and other enforcement records. Records of maintenance inspections and maintenance activities shall be maintained. ***While assembling this annual report, the City discovered on March 13, 2020 that the City did not achieve 80% of required inspections based on the current level of documentation. The inspectors completed and documented 72% of the required inspections. Therefore, 28% of the required inspections were not documented per the workflow process instated in 2019. In light of this discovery, the City will submit a G20 notification of non-compliance with S5.C.6.c.vi and S5.C.6.vii.***