



WESTERN WASHINGTON PHASE II MUNICIPAL STORMWATER PERMIT

A FEDERAL CLEAN WATER ACT NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) AND WASHINGTON STATE WASTE DISCHARGE GENERAL PERMIT



City of Bellevue, Washington NPDES ANNUAL REPORT DRAFT 2022 STORMWATER MANAGEMENT PROGRAM PLAN / 2021 COMPLIANCE REPORT

January 2022



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CITY OF BELLEVUE 2022 STORMWATER MANAGEMENT PROGRAM PLAN

1. INTRODUCTION

1.1 Overview and Background

The National Pollutant Discharge Elimination System (NPDES) permit program is a requirement of the federal Clean Water Act, which is intended to protect water quality and restore waters for “fishable, swimmable” uses. The federal Environmental Protection Agency (EPA) delegated permit authority to state environmental agencies. In Washington, the NPDES-delegated permit authority is the Washington State Department of Ecology (Ecology). The NPDES permit also implements relevant provisions of Washington State’s Water Pollution Control Law.

Municipalities with a population of more than 100,000 (based on the 1990 census) were designated as Phase I communities and must comply with Ecology’s Phase I NPDES Municipal Stormwater Permit as operators of large municipal separate storm sewer systems (MS4s). Municipalities with populations of less than 100,000 (based on the 1990 census) were designated as Phase II communities and must comply with Ecology’s Western Washington Phase II NPDES Municipal Stormwater Permit as operators of small and medium MS4s. More than 80 small and medium cities, including the City of Bellevue and urban portions of 5 counties in western Washington, must comply with the Phase II Permit.

The Permit authorizes the discharge of Stormwater runoff from municipal drainage systems into the state’s surface waters (i.e., streams, rivers, lakes, wetlands, etc.) and groundwater as long as municipalities implement Permit-specified “best management practices” (BMPs). These BMPs are intended to protect water quality and reduce the discharge of “non-point source” pollutants to the “maximum extent practicable” (MEP). In addition, BMPs are intended to meet state AKART (all known, available, and reasonable methods of prevention, control, and treatment) waste discharge requirements.

The BMPs specified in the Permit are collectively referred to as the Stormwater Management Program (SWMP or Program) and grouped under the following Program components:

- S5.C.1 - Stormwater Planning
- S5.C.2 - Public Education and Outreach (E&O)
- S5.C.3 - Public Involvement and Participation
- S5.C.4 – MS4 Mapping and Documentation
- S5.C.5 - Illicit Discharge Detection and Elimination (IDDE)
- S5.C.6 - Controlling Runoff from New Development, Redevelopment, and Construction Sites
- S5.C.7 - Operations and Maintenance (O&M)
- S5.C.8 – Source Control Program for Existing Development
- S8 - Monitoring and Assessment

As a programmatic permit, the components work together to ensure protection of water quality in our streams, lakes, wetlands, and groundwater. In addition, the Permit requires reporting and, if applicable, implementation of waterbody-specific cleanup plans developed by Ecology (aka Total Maximum Daily Loads or TMDLs). To date, Ecology has not developed such plans for Bellevue water bodies.

Permit conditions are phased in over the initial 5-year Permit term. The current permit term is from August 2019 through July 2024. The Permit requires the City to report annually (March 31 of each year) on progress in program implementation for the prior year through a compliance report. The Permit also requires submittal of documentation that describes proposed SWMP activities for the coming year. Ecology revises and reissues the Permit at the end of the permit term.

This version of the SWMP Plan also documents the City’s actions to protect Underground Injection Control (UIC) facilities it owns, regulates or operates in accordance with the UIC Program, authorized under the Federal Safe Drinking Water Act. UICs offer another approach to stormwater management. UIC Program requirements for City owned and regulated facilities can be met, substantially, by applying relevant SWMP actions.

Bellevue operates their Underground Injection Control (UIC) Program as part of a holistic Stormwater Management Program. The UIC Program rule, chapter 173-218 WAC, is the regulatory authority for UIC wells in Washington. The UIC program rule applies to Class V wells that receive stormwater.

1.2 Permit History

Ecology issued Washington’s first Phase II Municipal Stormwater Permit to Western Washington municipalities in 2007. Ecology issued it as one general permit with the general permit conditions applicable to all Phase II municipalities in Western Washington, including Bellevue. The Phase II Permit was appealed by several parties and the permit was modified June 17, 2009, in response to the state Pollution Control Hearings Board appeal rulings.

In August 2012, Ecology extended the first Permit to July 31, 2013, issued a 5-year Permit (2013–2018) effective August 1, 2013, and also issued a new 2012 Ecology *Stormwater Management Manual for Western Washington* (2012 Ecology Manual, revised in 2014), which contained Stormwater requirements for new development, redevelopment, and construction sites. In fall of 2017, Ecology extending the existing permit from expiration in 2018 to August of 2019.

Early 2019, Ecology issued a draft permit for the 2019-2024 timeframe. Comments were solicited by Ecology and a new permit was issued July 1, 2019, with an effective permit term of August 1, 2019 - July 31, 2024. The 2019-2024 Permit retains the previous Permit’s SWMP structure and phased implementation approach. It continues and builds upon prior Permit Program requirements by increasing certain Permit requirements and adding new ones.

The current 2019-2024 Western Washington Phase II Municipal Stormwater Permit and 2019 Ecology Stormwater Management Manual are available on Ecology's Web site at:

- <https://ecology.wa.gov/Regulations-Permits/Permits-certifications/Stormwater-general-permits/Municipal-stormwater-general-permits/Western-Washington-Phase-II-Municipal-Stormwater>

1.3 2019-2024 Permit Implementation Timeline

The 2019-2024 Permit requirements are phased in over the course of the Permit term. Permit requirements and key compliance dates are described here.

March 31st Annually Stormwater Management Program Administration. Submit the annual report electronically using Ecology's Water Quality Permitting Portal (WQWebPortal).

August 15th Annually Monitoring and Assessment. Pay Bellevue's \$65,805 fee for participating in the collectively funded Regional Stormwater Monitoring Program (RSMP) to Ecology by August 15th annually.

January 1, 2020 -MS4 Mapping and Documentation

- S5.C.4.b.i Begin to collect size and material for all known MS4 Outfalls during normal course of business and update records

July 1, 2020 -Public Education and Outreach

- S5.C.2.a.ii.(b) each Permittee shall conduct a new evaluation of the effectiveness of an ongoing behavior change campaign. Permittee shall document lessons learned and recommendations for which option to select.

August 1, 2020 -Stormwater Planning

- S5.C.1.a Each Permittee shall convene an inter-disciplinary team to inform and assist in the development, progress and influence of this program.

February 1, 2021 -Public Education and Outreach

- S5.C.2.a.ii.(c) Based on recommendation form S5.C.2.a.ii.(b), each Permittee shall follow social marketing practices and methods, similar to community-based social marketing and develop a campaign that is tailored to the community, including development of a program evaluation plan.

March 31, 2021 -Coordination & Stormwater Planning

- S5.A.5.b. Permittees shall include a written description of internal coordination mechanisms in the Annual Report.
- S5.C.1.b.(a) the Permittee shall respond to the series of Stormwater Planning annual Report questions to describe how anticipated stormwater impacts on water quality were addressed.

April 1, 2021 -Public Education & Outreach

- S5.C.2.a.ii.(d) begin to implement the strategy developed in S5.C.2.a.ii.(c) Social Marketing.

August 1, 2021 -MS4 Mapping and Documentation

- S5.C.4.c. the required format for mapping is electronic with fully described mapping standards.

January 1, 2022 -Controlling Runoff from New Development

- Each Permittee shall adopt and make effective a local program, that meets the requirements of S5.C.6.b(ii). Shall apply to all applications submitted Prior to the above date.

March 31, 2022 -Stormwater Planning

- S5.C.1.d.i. Permittees shall submit a watershed inventory and include a brief description of the relative conditions of the receiving waters and the contributing areas.

June 30, 2022 -Receiving Water Prioritization

- S5.C.1.ii The Permittee shall document the priority ranking process used to identify high priority receiving waters.

June 30, 2022 -Controlling Runoff from New Development

- Each Permittee shall adopt and make effective a local program, that meets the requirements of S5.C.6.b(i) through (iii).

July 1, 2022 -Controlling Runoff from New Development

- Each Permittee shall adopt and make effective a local program, that meets the requirements of S5.C.6.b(i). Shall apply on or after above date.
- Each Permittee shall adopt and make effective a local program, that meets the requirements of S5.C.6.b(iii). Shall apply prior to above date, that have not started construction by July 1st, 2027.

August 1, 2022 -Source Control Program for Existing Development

- S5.C.8.b(i) Permittees shall adopt and make effective an ordinance(s), or other enforceable document(s), requiring the application of source control BMP's
- S5.C.8.b(ii) Permittees shall establish an inventory that identifies publicly and privately owned institutional, commercial and industrial sites which have potential to generate pollutants to the MS4.

December 31, 2022 -Operations and Maintenance

- S5.C.7.f I implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee

January 1, 2023 -Source Control Program for Existing Development

- S5.C.8.b(iii) Permittees shall implement an inspection program for sites identified pursuant to S5.C.8.b(ii).
- S5.C.8.b(iv) Permittees shall implement a progressive enforcement policy that requires sites to comply with stormwater requirements within a reasonable time period.

January 1, 2023 -Stormwater planning

- S5.C.1.b.i.(b) The Permittee shall submit a report responding to the same questions included in S5.C.1.b.i.(a) to describe how water quality is being addressed.

March 31, 2023 -Stormwater Management Action Plan (SMAP)

- S5.C.1.d.iii Permittees shall develop a SMAP for at least one high priority catchment area from S5.C.1.d.ii that identifies a description of stormwater facility retrofits, land management development strategies and targeted, enhanced or customized implementation of stormwater management actions.

August 1, 2023 -MS4 Mapping and Documentation

- S5.C.4.b.ii Complete mapping of all known connections from the MS4 to a privately owned stormwater system.

March 31, 2024 -Public Education and Outreach

- S5.C.2.a.ii.(e) Evaluate and report on the changes in understanding and adoption of targeted behaviors resulting from the implementation of the strategy and any planned or recommended changes to the campaign in order to be more effective; describe the strategies and process to achieve the results.

1.4 NPDES Annual Report

As noted above, the Permit requires submittal to Ecology of an Annual Report by March 31 of each year of the Permit term. The NPDES Annual Report consists of the following documents:

- **Storm Water Management Program (SWMP)**, which is developed by the City and summarizes the continuing/current and planned City-wide Permit implementation activities to assure continued permit compliance for the coming year (2022).
 - Appendix A contains acronyms for City departments and Permit and SWMP acronyms and definitions.
 - Appendix B contains the 2021 Compliance Report.
- **Compliance Report**, which is a specific “fill in the blanks” spreadsheet provided by Ecology and documents the City’s Permit compliance activities for the preceding calendar year (2021). The Compliance Report is very prescriptive and is completed administratively by city-wide staff at the end of the calendar year.

1.5 Department Responsibilities

The Permit requirements affect departments across the City organization. To encourage collaboration and efficient use of resources, the City’s NPDES Coordinator works closely with member of affected Departments to ensure NPDES Permit requirements are within compliance and to obtain information necessary to submit the annual compliance report. The affected departments include Utilities, Development Services Department (DSD), Information Technology (IT), Civic Services, Fire, Planning and Community Development (PCD), City Attorney’s Office (CAO), Finance, Parks and Community Services (Parks), Transportation (Trans.), Police, City Clerk’s Office, and the City Manager’s Office (CMO).

1.6 2022 SWMP Plan Organization

This SWMP Plan describes the:

- Permit requirements;
- Continuing/current programs and activities; and,
- Planned activities to maintain compliance and implement new activities in 2022.

The content in this SWMP Plan is based on Permit requirements and is organized similar to the Permit:

- **Section 2** addresses Permit requirements for administration of the City’s SWMP for 2022.
- **Section 3** addresses Permit requirements for Stormwater Planning for 2022.
- **Section 4** addresses Permit requirements for Public E&O for 2022.
- **Section 5** addresses Permit requirements for Public Involvement and Participation for 2022.
- **Section 6** addresses Permit requirements for MS4 Mapping for 2022.
- **Section 7** addresses Permit requirements for IDDE for 2022.
- **Section 8** addresses Permit requirements for Controlling Runoff from New Development, Redevelopment, and Construction sites for 2022.
- **Section 9** addresses Permit requirements for Municipal O&M for 2022.
- **Section 10** addresses Permit requirements for the Source Control for 2022.
- **Section 11** addresses Permit requirements for the Monitoring and Assessment for 2022.
- **Section 12** is a copy of the 2021 Annual Compliance Report submitted to Ecology.

Each section (excluding Section 12) includes a summary of the relevant Permit requirements and a description of continuing/current and planned compliance activities.

CITY OF BELLEVUE

2022 STORMWATER MANAGEMENT PROGRAM PLAN

2. STORMWATER MANAGEMENT PROGRAM ADMINISTRATION

2.1 Permit Requirements

The Permit (Section S5.A) requires the City to:

Develop and implement a Stormwater Management Program (SWMP). A SWMP is a set of actions and activities comprising the components list in section S5 and any additional action necessary, to meet the requirements of applicable TMDL's pursuant to *S7 – Compliance with Total Maximum Daily Load Requirements* and *S8 – Monitoring and Assessment*.

- At a minimum, the Permittee's SWMP shall be implemented throughout the geographic area subject to the Permit.
- Each Permittee shall prepare written documentation of the SWMP, called the SWMP Plan. The SWMP shall be organized according to the program components in S5.C and shall be updated at least annually for submittal with the Permittee's annual reports to Ecology. The SWMP Plan shall be written to inform the public of the planned SWMP activities for the upcoming calendar year, and shall include a description of:
 - Planned activities for each of the program components included in S5.C.
 - Any additional planned actions to meet the requirements of applicable TMDL's pursuant to *S7 – Compliance with Total Maximum Daily Load Requirements*
 - The City does not have any applicable TMDL's currently.
 - Any additional planned actions to meet the requirements of *S8 – Monitoring and Assessment*.
 - See section 11 – Monitoring and Assessment.
- The SWMP shall include an ongoing program for gathering, tracking, maintaining and using information to evaluate SWMP development, implementation, permit compliance and to set priorities.
 - Each Permittee shall track the cost or estimated cost of development and implementation of each component of the SWMP.
 - Costs are tracked within each program area by the program manager.
 - Each Permittee shall track the number of inspections, follow-up actions as a result of inspections, official enforcement actions and types of public education activities as required by the respective program component.
 - Inspections, follow up actions and enforcement actions are tracked within each program area by the program manager.
- Permittees shall continue implementation of existing stormwater management programs until they begin implementation of the updated program.
 - The 2021 SWMP remains in effect until the 2022 SWMP is implemented.

- Coordination among entities covered under municipal stormwater NPDES permits may be necessary to comply with certain conditions of the SWMP.
 - Clarify roles and responsibilities for the control of pollutants between physically interconnected MS4s covered by a municipal stormwater permit.
 - Staff are in regular communications with neighboring municipal staff where pollutants have or have the potential to cross jurisdictional boundaries.
 - Coordinate stormwater management activities for shared water bodies, or watersheds among Permittees.
 - As Watershed Planning efforts continue, watershed that cross jurisdictional boundaries will be discussed with neighboring Permittees as applicable.
- Include coordination mechanisms among departments within each jurisdiction to eliminate barriers to compliance with the terms of the Permit.
 - Permittees shall include a written description of internal coordination mechanisms in the Annual Report due no later than March 31, 2021.

S5.A - SWMP Administration – 2019-2024 Planned Activities		
<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
SWMP preparation, updates and annual submittal with the Annual Report.	Annually - March 31st	The SWMP is prepared annually in January-February and submitted to Ecology with the annual compliance report on or before March 31st.
Submit the annual report electronically using Ecology's Water Quality Permitting Portal (WQWebPortal).	Annually - March 31st	The annual report is prepared in January-February annually and submitted to Ecology on or before March 31st.
Permittees shall include a written description of internal coordination mechanisms in the Annual Report due no later than March 31, 2021.	March 31, 2021	Submitted in the March 2021 Compliance report - <i>To encourage collaboration and efficient use of resources, the City's NPDES Coordinator works closely with member of affected Departments to ensure NPDES Permit requirements are within compliance and to obtain information necessary to submit the annual compliance report. The affected departments include Utilities, Development Services Department (DSD), Information Technology (IT), Civic Services, Fire, Planning and Community Development (PCD), City Attorney's Office</i>

		<i>(CAO), Finance, Parks and Community Services (Parks), Transportation (Trans.), Police, City Clerk's Office, and the City Manager's Office (CMO).</i>
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CITY OF BELLEVUE

2022 STORMWATER MANAGEMENT PROGRAM PLAN

3. STORMWATER PLANNING

3.1 Permit Requirements

The Permit (Section S5.C.1) 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.

- Convene an inter-disciplinary team to inform and assist in the development, progress and influence of this program.
 - The interdisciplinary team is to be established by August 1, 2020.
- Coordinate 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 in Bellevue.
 - On or before March 31, 2021, the Permittee shall respond to the series of Stormwater Planning Annual Report Questions to describe how anticipated stormwater impacts on water quality were addressed, if at all, during the 2013-2019 permit term.
 - On or before January 1, 2023, the Permittee shall respond to the series of Stormwater Planning Annual Report Questions to describe how anticipated stormwater impacts on water quality are currently being addressed.
- Continue Low Impact Development code-related requirements to make LID the preferred and commonly used approach to site development.
 - The City has made LID the preferred and commonly-used approach to site development per the SWMMWW standards. Local development-related codes, rules, standards or other enforceable documents are designed to minimize impervious surfaces, native vegetation loss, and stormwater runoff in all types of development situations, where feasible.
- Stormwater Management Action Planning.
 - Receiving Water Assessment - Permittees shall document and assess existing information related to their local receiving waters and contributing area conditions to identify which receiving waters are most likely to benefit from stormwater management.
 - By March 31, 2022, submit a watershed inventory and include a brief description of the relative conditions of the receiving waters and the contributing areas.
 - The City established an inventory of 26 defined drainage basins. A Watershed Scale Planning Effort is currently underway to further evaluate the benefits of a Watershed Based management approach with the City.
 - Receiving Water Prioritization – 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.
 - No later than June 30, 2022, document the prioritized and ranked list of receiving waters.
 - This is an identified task within the Watershed Management Planning efforts that are currently underway.

- Stormwater Management Action Plan (SMAP) - No later than March 31, 2023, Permittees shall develop a SMAP for at least one high priority catchment area that identifies:
 - A description of the stormwater facility retrofits needed for the area, including BMP types and preferred locations.
 - Land management/development strategies and/or actions identified for water quality management.
 - Targeted, enhanced, or customized implementation of stormwater management actions.
 - This is an identified task within the Watershed Management Planning efforts that are currently underway. More details will be provided as the planning efforts continue.

S5.C.1 – Stormwater Planning – 2019-2024 Planned Activities		
<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
Convene an interdisciplinary team to inform and assist in the development, progress and influence of this program.	August 1, 2020	The City has a Watershed Management Team that serves to meet this requirement. A portion of the team's work is to respond to Stormwater Planning questions and prepare necessary documentation.
On or before March 31, 2021, the Permittee shall respond to the series of Stormwater Planning Annual Report Questions to describe how anticipated stormwater impacts on water quality were addressed, if at all, during the 2013-2019 permit term.	March 31, 2021	See the 2020 Annual Compliance Report in Section 12 of the 2021 SWMP; questions 6-13.
On or before January 1, 2023, the Permittee shall respond to the series of Stormwater Planning Annual Report Questions to describe how anticipated stormwater impacts on water quality are currently being addressed.	January 1, 2023	To be evaluated in Q4 2022
By March 31, 2022, submit a watershed inventory and include a brief description of the relative conditions of the receiving waters and the contributing areas.	March 31, 2022	The City has an existing watershed inventory of 26 drainage basins. Further refinement is under development.
No later than June 30, 2022, document the prioritized and ranked list of receiving waters.	June 30, 2022	Under developmet as part of the Watershed Management Plan.
Stormwater Management Action Plan (SMAP) - No later than March 31, 2023, Permittees shall develop a SMAP for at least one high priority catchment area.	March 31, 2023	To be developed in 2022/2023 as part of the Watershed Management Plan.

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4. PUBLIC EDUCATION AND OUTREACH

4.1 Permit Requirements

The Permit (Section S5.C.2) requires the City to:

Continued implementation of an 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 and create stewardship opportunities that encourages community engagement in addressing the impacts from stormwater runoff.

- Each Permittee shall implement an education and outreach program for the area served by the MS4.
 - General Awareness - Permittees shall annually select at a minimum one target audience and one subject area as defined in the permit, to provide subject area information to the target audience on an ongoing or strategic schedule.
 - The target audience for 2022 continues to be the General Public including overburdened communities, schools and businesses in the subject area of general impacts of stormwater on surface waters, including impacts from impervious surfaces.
 - Behavior Change – Permittees shall select, at a minimum, one target audience and one BMP from a defined list within the Permit.
 - No later than July 1, 2020, each Permittee shall conduct a new evaluation of the effectiveness of an ongoing behavior change campaign and document lessons learned.
 - Ecology provides and option to forgo this requirement if the City opts to develop a strategy and schedule for a new target audience and BMP behavior change campaign.
 - Bellevue is participating in a regional effort to effect behavior change around the maintenance and operation of dumpsters and their contribution to leaching pollutants into stormwater systems.
 - By February 1, 2021, each Permittee shall follow social marketing practices and methods, similar to community based social marketing and develop a campaign tailored to the community.
 - A campaign has been developed around the maintenance and operation of dumpsters as a contribution to pollutants entering stormwater systems.
 - No later than April 1, 2021, begin to implement the strategy developed.
 - The dumpster outreach campaign is in full implementation.
 - No later than March 31, 2024, evaluate and report on changes in understanding and adoption of targeted behaviors and any planned or recommended changes to the campaign in order to be more effective.
 - Stewardship – Each Permittee shall provide and advertise stewardship opportunities and/or partner with existing organizations to encourage residents to participate in activities or events planned and organized within the community, such as: stream teams, storm drain marking, volunteer monitoring, riparian plantings, and education activities.

- Then City of Bellevue has an active Stream Team that participate in salmon and peamouth observation and general stream health. An active Storm Drain Marking Program funded through Utilities. Riparian planting efforts utilizing volunteers and City staff throughout the year through our Parks Department and various education opportunities focused on stormwater and stream health that target our schools and community events.

S5.C.2 – Education and Outreach – 2019-2024 Planned Activities		
<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
Permittees shall annually select at a minimum one target audience and one subject area as defined in the permit, to provide subject area information to the target audience on an ongoing or strategic schedule.	Ongoing - Annually	Outreach will continue in the form of school programs, outreach/tabling at community events, and information in the city’s newsletter and utilities bill inserts.
No later than July 1, 2020, each Permittee shall conduct a new evaluation of the effectiveness of an ongoing behavior change campaign and document lessons learned.	July 1, 2020	Because the city discontinued the previous behavior change campaign after evaluation, we shared lessons learned from our 2019 Stormwater Runoff Awareness, Attitudes, and Behavior Survey of Residents. Bellevue conducted a strategy and schedule for a new target audience under option 3 in S5.C.2.a.ii.(c) Bellevue has joined with regional partners to support outreach for management of solid waste dumpsters at commercial dumpster areas.
By February 1, 2021, each Permittee shall follow social marketing practices and methods, similar to community based social marketing and develop a campaign tailored to the community.	February 1, 2021	Bellevue is participating in a regional effort to prevent pollution around commercial dumpster areas.
No later than April 1, 2021, begin to implement the strategy developed.	April 1, 2021	In 2021, Bellevue monitored 9 dumpster sites that included 22 individual businesses. Efforts will continue into 2022 expanding to upwards of 40-50 businesses.

No later than March 31, 2024, evaluate and report on changes in understanding and adoption of targeted behaviors and any planned or recommended changes to the campaign in order to be more effective.	March 31, 2024	To be developed following implementation of the dumpster outreach strategy.
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5. PUBLIC INVOLVEMENT AND PARTICIPATION

5.1 Permit Requirements

The Permit (Section S5.C.3) requires the City to:

Provide ongoing opportunities for public involvement and participation through advisory councils, public hearings, watershed committees, participation in developing rate-structures or other similar activities.

- Permittees shall create opportunities for the public, including overburdened communities, to participate in the decision-making processes involving the development, implementation and update of the Permittee’s SMAP and SWMP.
 - The City posts the draft SWMP on the City website, typically by mid-January of each year, inviting the public to submit comments to the NPDES Coordinator.
 - The City holds a Public Meeting at the Environmental Services Commission (ESC) meeting, typically on the first Thursday of February, inviting comments from the public and the ESC. The Public meeting is posted in local newspapers and on the City Website ahead of the ESC scheduled meeting.
- Each Permittee shall post on their website their SWMP Plan and the annual report no later than May 31st each year.

S5.C.3 – Public Involvement & Participation – 2019-2024 Planned Activities		
<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
<ul style="list-style-type: none"> • Each Permittee shall post on their website their SWMP Plan and the annual report no later than May 31st each year. 	Annually – May 31	The draft SWMP is posted for comment in mid to late January annually. A Public Hearing is held annually at the City’s Environmental Services Commission meeting in February. The final SWMP is included in the submittal to Ecology and is posted to the City website along with the annual report on or before May 31 st annually. Typically, this occurs in late March-early April.

Comments received to be entered below:

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6. MS4 MAPPING AND DOCUMENTATION

6.1 Permit Requirements

The Permit (Section S5.C.4) requires the City to:

Implement an ongoing program for mapping and documenting the MS4.

- Ongoing Mapping – Each Permittee shall maintain mapping data for the features listed below:
 - Known MS4 outfalls and discharge points.
 - Receiving waters.
 - Stormwater treatment and flow control BMP's/facilities owned or operated by the Permittee.
 - Geographic areas served by the Permittee's MS4 that do not discharge stormwater to surface waters.
 - Tributary conveyance to all known outfalls and discharge points with a 24-inch diameter or equivalent.
 - Connections between MS4 owned or operated by the Permittee and other municipalities or public entities.
 - All connections to the MS4 authorized or allowed by the Permittee after February 16, 2007.
 - The City maintains mapping data that meet the requirements of the Permit. Mapping data is available to the public through the City's online GIS portal.
- New mapping requirements for the 2019-2024 permit:
 - No later than January 1, 2020, begin to collect size and material for all known MS4 outfalls during normal course of business.
 - The City has been collecting size and material for all known MS4 features including outfalls.
 - No later than August 1, 2023, complete mapping of all known connections from the MS4 to a privately-owned stormwater system.
- No later than August 1, 2021, the required format for mapping is electronic with fully described mapping standards.
 - The City maintains GIS based electronic mapping data for the MS4 and will continue to update the data as new information comes available. GIS data is available online through the City's GIS portal.
 - The City has fully described GIS mapping rules and standards.

S5.C.4 – MS4 Mapping & Documentation – 2019-2024 Planned Activities

<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
No later than January 1, 2020, begin to collect size and material for all known MS4 outfalls during normal course of business.	January 1, 2020	Ongoing
No later than August 1, 2023, complete mapping of all known connections from the MS4 to a privately-owned stormwater system.	August 1, 2023	Mapping of private connections is underway.
No later than August 1, 2021, the required format for mapping is electronic with fully described mapping standards.	August 1, 2021	The City has fully described mapping standards. Stormwater system information is available to download via GIS Shapefiles on the City website.

CITY OF BELLEVUE

2022 STORMWATER MANAGEMENT PROGRAM PLAN

7. ILLICIT DISCHARGE DETECTION AND ELIMINATION

7.1 Permit Requirements

The Permit (Section S5.C.5) requires the City to:

Continued implementation of an ongoing program designed to prevent, detect, characterize, trace and eliminate illicit connections and illicit discharges into the MS4.

- Include procedures for reporting and correcting or removing illicit connections, spills and other illicit discharges when they are suspected or identified.
 - The City utilizes the *Illicit Connection and Illicit Discharge Field Screening and Source Tracing Guidance Manual* (Herrera Environmental Consultants, Inc. and Aspect Consulting, LLC, May 2020 Revision) as the basis of the Illicit Discharge Detection and Elimination Program.
- Inform public employees, businesses and the general public of hazards associated with illicit discharges and improper disposal of waste.
 - The City has an ongoing Education and Outreach/Training Program and dedicated staff to inform public employees, businesses and the general public of the hazards of illicit discharges and improper disposal of waste.
- Implement an ordinance or other regulatory mechanism to effectively prohibit non-stormwater, illicit discharges into the Permittee's MS4 to the maximum extent allowable under state and federal law.
 - Section 24.06.125 of the Bellevue Utilities Storm and Surface Water Code defines *Prohibited, Permissible, and Conditional Discharges* to the MS4. Enforcement of the provisions of the code are set forth in Bellevue City Code 1.18.075, *Enforcement Procedures for Violations of Chapters 24.02, 24.04, 24.06 and 23.76 BCC*.
- Implement an ongoing program design to detect and identify non-stormwater discharges and illicit connections into the Permittee's MS4.
 - Implement procedures for conducting investigations of the Permittee's MS4, including field screening and methods for identifying potential sources.
 - All Permittee's shall complete field screening for an average of 12% of the MS4 each year. Permittee's shall annually track total percentage of the MS4 screened beginning August 1, 2019.
 - The City has an ongoing program to track annual and total percentage of the MS4 screened. The primary source is through the City's Municipal and Operations inspections. Other sources include pipe inspections, hotline reports and staff observations.
 - A publicly listed and publicized hotline or other telephone number for public reporting of spills and other illicit discharges.
 - The City has a 24/7 hotline for reporting of all Utilities related matters (425.452.7840). The City also has a mobile application (My Bellevue) where reports can be filed and receives notifications from Ecology through the ERTS notification.
 - Implement an ongoing training program for all municipal field staff, who, as part of their normal job responsibilities, might come into contact with or otherwise observe and illicit discharge and/or illicit connection to the MS4.

- City staff are trained at two levels within the organization, awareness and response. Awareness training is designed for field staff that may observe an illicit discharge; response level training is designed to contain the discharge until Water Quality/IDDE staff can respond.
- Implement an ongoing program designed to address illicit discharges, including spills and illicit connections, into the Permittee's MS4.
 - Procedures for characterizing the nature of, and potential public or environmental threat posed by, any illicit discharges found by or reported to the Permittee.
 - The City has dedicated and trained IDDE staff that respond to all reported illicit discharges and/or illicit connections.
 - Procedures for tracing the source of an illicit discharge, including visual inspections, and when necessary, opening manholes, using mobile cameras, collecting and analyzing water samples, and/or detailed inspection procedures.
 - All reported illicit discharges or illicit connections are traced to their source as information is available. Staff have resources available to them that allow for opening manholes, utilizing mobile cameras and other equipment that can aid in this activity.
 - Procedures for eliminating the discharge, including notification of appropriate authorities; notification of the property owner; technical assistance; follow-up inspections; and use of developed compliance strategies including escalating enforcement and legal actions.
 - Staff follow up on each reported illicit discharge to notify property owners, business managers and appropriate authorities to initiate a mitigation plan that is designed to eliminate any illicit discharges and/or illicit connections. The City's preferred approach is through voluntary compliance first. The City has an escalating enforcement mechanism in place should voluntary compliance not be successful.
- Train staff who are responsible for identification, investigation, termination, cleanup and reporting of illicit discharges, including spills, and illicit connections, to conduct these activities.
 - City staff are trained at two levels within the organization, awareness and response. Awareness training is designed for field staff that may observe an illicit discharge; response level training is designed to contain the discharge until Water Quality/IDDE staff can respond.
- Track and maintain records of the activities conducted to meet the requirements of this section.
 - All illicit discharges and/or illicit connection investigations are tracked and recorded through the City's Maintenance Management Information System (MMIS) using the characteristics set by Ecology in Appendix 12 of the Permit. Duplicate information is also entered into the Department of Ecology WebIDDE reporting system.

S5.C.5 – Illicit Discharge Detection & Elimination – 2019-2024 Planned Activities

<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
All Permittee's shall complete field screening for an average of 12% of the MS4 each year. Permittee's shall annually track total percentage of the MS4 screened beginning August 1, 2019.	August 1, 2019	Ongoing. The City tracks MS4 screening through the Operations and Maintenance inspection program. Approximately 50% of the system is inspected annually.

CITY OF BELLEVUE
2022 STORMWATER MANAGEMENT PROGRAM PLAN

8. CONTROLLING RUNOFF FROM NEW DEVELOPMENT, REDEVELOPMENT AND CONSTRUCTION SITES

8.1 Permit Requirements

The Permit (Section S5.C.6) requires the City to:

Implement and enforce a program to reduce pollutants in stormwater runoff to a regulated small MS4 from new development, redevelopment and construction site activities. The program shall apply to private and public development, including transportation projects.

- Implement an ordinance or other enforceable mechanism that addresses runoff from new development, redevelopment, and construction site projects.
 - Each Permittee shall adopt and make effective a local program, no later than June 30, 2022 that meets the requirements set forth in the Permit.
 - The legal authority, through the approval process for new development and redevelopment, to inspect and enforce maintenance standards for private stormwater facilities approved under the Permit conditions.
 - The City implemented an ordinance in 2016 that meets the current Permit requirements. (Ord 6321) (See BCC 24.06 & 24.06.065)
- The program shall include a permitting process with site plan review, inspection and enforcement capability to meet permit standards.
 - Review of all stormwater site plans for proposed development activities.
 - Inspections, prior to clearing and construction, all permitted development sites that have a high potential for sediment transport as determined through plan review.
 - Inspection of all permitted development sites during construction to verify proper installation and maintenance of erosion and sediment controls.
 - Inspection of all stormwater treatment and flow control BMPs/facilities, and catch basins, in new residential development every six months, until 90% of them lots are constructed or when construction has stopped and the site is fully stabilized, to identify maintenance needs and enforcement as needed.
 - Inspection of all permitted development sites upon completion and prior to final approval or occupancy to ensure proper installation of permanent stormwater facilities.
 - Compliance with inspection requirements shall be determined by the presence and records of an established inspection program designed to inspect all sites. Compliance during the permit term shall be determined by achieving 80% of required inspections.
 - Procedures for keeping records of inspections and enforcement actions by staff.
 - An enforcement strategy to respond to issues of non-compliance.
 - The City passed several ordinances in 2016 to meet the requirements of the current permit. (see BCC 24.06.060 – Permitting review and inspection, 23.76 – Clear and Grade/Erosion Control, 24.06.105 & 24.06.125 – Routine Inspections).
- The program shall make available, as applicable, the link to the electronic *Construction Stormwater General Permit* Notice of Intent (NOI) form for construction activity and, as applicable, a link to the

electronic Industrial Stormwater General Permit NOI form for industrial activity to representatives of proposed new development and redevelopment.

- Notice of Intent is issued by the Clear and Grade permit process and completion of the Storm Water Pollution Prevention Plan (SWPPP).
- Ensure that 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.
 - The City has ongoing training for inspectors and plan reviewers related to their field of interest as well as an overall IDDE awareness training.

S5.C.6 – Controlling Runoff from New Development, Redevelopment & Construction Sites - 2019-2024 Planned Activities		
<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
Each Permittee shall adopt and make effective a local program, no later than June 30, 2022 that meets the requirements set forth in the Permit.	June 30, 2022	The City implemented an ordinance in 2016 that meets the current Permit requirements. (Ord 6321) (See BCC 24.06 & 24.06.065)

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9. OPERATIONS AND MAINTENANCE

9.1 Permit Requirements

The Permit (Section S5.C.7) requires the City to:

Implement and document a program to regulate maintenance activities and to conduct maintenance activities by the Permittee to prevent or reduce stormwater impacts.

- Implement 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.
 - No later than June 30, 2022, Permittees shall update their maintenance standards as necessary to meet the requirements of the Permit.
 - The City has administratively adopted the *Stormwater Management Manual for Western Washington* as our maintenance standards.
- Maintenance of stormwater facilities regulated by the Permittee - Verify adequate long-term O&M of stormwater treatment and flow control BMP's/facilities that are permitted and constructed pursuant to section 6 and shall be maintained in accordance with defined maintenance timelines defined in section 7.
 - Implementation of an enforceable ordinance or other enforceable mechanism.
 - Section 24.06.045 of the Bellevue Utilities Storm and Surface Water Code defines the *Authority of the Utility* including the Private Drainage Inspection Program. Enforcement of the provisions of the code are set forth in Bellevue City Code 1.18.075, *Enforcement Procedures for Violations of Chapters 24.02, 24.04, 24.06 and 23.76 BCC*.
 - Annual inspections of all stormwater treatment and flow control BMPs/facilities that discharge to the MS4 and were permitted according to Permit standards.
 - The City has an ongoing Private Drainage Inspection Program that includes inspections of facilities and a record tracking system for inspection results, notifications, and maintenance requested/performed.
- Maintenance of stormwater facilities owned or operated by the permittee.
 - Implement a program to annually inspect all municipally owned or operated stormwater treatment and flow control BMP's/facilities and taking appropriate maintenance actions in accordance with the adopted maintenance standards.
 - The City has an ongoing inspection program that annually inspects all treatment and flow control BMPs/facilities, taking appropriate maintenance activities as determined by inspection results.
 - Spot check potential damaged stormwater treatment and flow control BMPs/facilities after major storm events.
 - The City maintains a routine surveillance list of known problem locations that are inspected before, during and following major storm events. Known problem

- locations consist of treatment and flow control BMPs/facilities, pipe ends, culverts and specific stream locations.
- Inspect all catch basins and inlets owned and operated by the Permittee every two years.
 - The City has an ongoing inspection program that bi-annually inspects all catch basins, inlets and manholes, taking appropriate maintenance activities as determined by inspection results.
 - Implement practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or operated by the Permittee, and road maintenance activities under the functional control of the Permittee.
 - The City maintains practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or operated by the Permittee, and road maintenance activities under the functional control of the Permittee.
 - No later than December 31, 2022, document the practices, policies and procedures.
 - The City is coordinating between Departments to understand current documentation of activities and with Ecology to provide clarification of the expectations for this requirement.
 - Implement an ongoing training program for employees of the Permittee whose primary construction, operations, or maintenance job functions may impact stormwater quality.
 - Staff are annually trained on IDDE awareness and/or response dependent on their role in the organization.
 - Stormwater staff are trained on maintenance standards periodically as needed or as conditions change. Several Stormwater Staff are trained as Municipal Stormwater Inspectors.
 - Implement a Stormwater Pollution Prevention Plan (SWPPP) for all heavy equipment maintenance or storage yards, and material storage facilities owned or operated by the Permittee.
 - The City maintains several SWPPP's originally drafted in 2010 and updated as needed since.
 - As necessary, update SWPPPs no later than December 21, 2022 per Permit requirements.

S5.C.7 – Operations & Maintenance - 2019-2024 Planned Activities		
<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
No later than June 30, 2022, Permittees shall update their maintenance standards as necessary to meet the requirements of the Permit.	June 30, 2022	The City has administratively adopted the <i>Stormwater Management Manual for Western Washington</i> as our maintenance standards.
No later than December 31, 2022, document the practices, policies and procedures to reduce stormwater impacts associated with runoff from all lands owned or operated by the Permittee, and road maintenance activities under the functional control of the Permittee.	December 31, 2022	The City is coordinating between Departments to understand current documentation of activities and with Ecology to provide clarification of the expectations for this requirement.

		Further refinement is under development.
As necessary, update SWPPPs no later than December 21, 2022 per Permit requirements.	December 21, 2022	Under review.

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10. SOURCE CONTROL PROGRAM FOR EXISTING DEVELOPMENT

10.1 Permit Requirements

The Permit (Section S5.C.7) requires the City to:

Implement a program to prevent and reduce pollutants in runoff from areas that discharge to the MS4. The program shall include application of operational source control BMPs and, if necessary, structural BMPs. Inspection of potential pollutant generating sources at publicly and privately owned institutional and commercial sites. Application and enforcement of local ordinances at identified sites. And practices to reduce polluted runoff for the application of pesticides, herbicides and fertilizers from identified sites.

- No later than August 1, 2022, Permittees shall adopt and make effective an ordinance(s), or other enforceable document, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities.
 - Current codes language and other enforcement documentation is currently under review.
- No later than August 1, 2022, Permittees shall establish an inventory that identifies publicly and privately owned institutional, commercial and industrial sites which have the potential to generate pollutants to the MS4.
 - The City is working to refine the inventory ahead of implementation of the upcoming Source Control program requirements.
- No later than January 1, 2023, Permittees shall implement an inspection program for identified sites.
 - The Permittee shall annually complete the number of inspections equal to 20% of the businesses and/or sites listed in their source control inventory to assess BMP effectiveness and compliance with source control requirements.
- No later than January 1, 2023, Permittees shall implement a progressive enforcement policy that requires sites to comply with stormwater requirements within a reasonable timeframe as specified in the Permit.
- Permittees shall train staff who are responsible for implementing the source control program to conduct these activities.

**S5.C.8 – Source Control Program for Existing Development - 2019-2024
Planned Activities**

<u>Activity</u>	<u>Due Date</u>	<u>Status/Notes</u>
No later than August 1, 2022, Permittees shall adopt and make effective an ordinance(s), or other enforceable document, requiring the application of source control BMPs for pollutant generating sources associated with existing land uses and activities.	August 1, 2022	The Source Control Program is under development. Existing code may satisfy this requirement.
No later than August 1, 2022, Permittees shall establish an inventory that identifies publicly and privately owned institutional, commercial and industrial sites which have the potential to generate pollutants to the MS4.	August 1, 2022	Source Control Program development is underway.
No later than January 1, 2023, Permittees shall implement an inspection program for identified sites.	January 1, 2023	Source Control Program development is underway.
No later than January 1, 2023, Permittees shall implement a progressive enforcement policy that requires sites to comply with stormwater requirements within a reasonable timeframe as specified in the Permit.	January 1, 2023	Source Control Program development is underway.

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2022 STORMWATER MANAGEMENT PROGRAM PLAN

11. MONITORING AND ASSESSMENT

11.1 Permit Requirements

The Permit (Section S5.8) requires the City to:

The NPDES Monitoring and Assessment program provides two options for Permittees. Permittees can either choose to perform the requirements of this permit section on their own or they can opt in to a payment option and allow Ecology to utilize the funds for region wide studies and assessments.

Bellevue elected to opt in to the regional approach and allow Ecology to manage the funding. Initial cost comparisons of the two options showed a significant increase in costs should Bellevue choose to try and meet the permit requirements on their own.

The program itself is separated into two areas, *Regional Status and Trends* and *Effectiveness and Source Identification Studies*.

Regional Status and Trends

- All Phase II Western Washington Municipal Permittees shall notify Ecology in writing which of the following two options for regional status and trends monitoring by December 1, 2019.
 - Option a – Make annual payment into a collective fund to implement a regional receiving water status and trends monitoring of small stream and marine nearshore areas. The annual payments into the collective fund are due on or before August 15 each year.
 - Option b – Conduct stormwater discharge monitoring per the Permit requirements.
 - The City has elected to participate in option a.

SWMP Effectiveness and Source Identification Studies

- All Phase II Western Washington Municipal Permittees shall notify Ecology in writing which of the following two options for effectiveness and source identification studies by December 1, 2019.
 - Option a – Make annual payment into a collective fund to implement effectiveness and source identification studies. The annual payments into the collective fund are due on or before August 15 each year.
 - Option b – Conduct stormwater discharge monitoring per the Permit requirements.
 - The City has elected to participate in option a.

The cost to Bellevue to meet the permit requirements of Section 8 – Monitoring and Assessment for the 2019-2024 permit term is:

- Regional Status and Trends - \$23,273 annually
- Effectiveness and Source ID Studies - \$42,532 annually

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12. 2021 ANNUAL COMPLIANCE REPORT

The 2021 Annual Compliance Report is under development with the final report to be submitted to Ecology no later than March 31, 2022. Additionally, the Annual Compliance Report will be attached to this document and posted on the City website.

ATTACHMENTS- THE FOLLOWING ATTACHMENTS ARE FROM THE 2021 SWMP AND WILL BE UPDATED AS NEEDED FOR 2022.

Question 4a

Attach a written description of internal coordination mechanisms.

To encourage collaboration and efficient use of resources, the City's NPDES Coordinator works closely with members of affected Departments to ensure NPDES Permit requirements are within compliance and to obtain information necessary to submit the annual compliance report. The affected departments include Utilities, Development Services Department (DSD), Information Technology (IT), Civic Services, Fire, Planning and Community Development (PCD), City Attorney's Office (CAO), Finance, Parks and Community Services (Parks), Transportation (Trans.), Police, City Clerk's Office, and the City Manager's Office (CMO).

Q7

List of stormwater capital projects (currently in or slated for future design and construction) that resulted from this planning. (S5.C.1.b.i(a) and (b) – Required by March 31, 2021 & Jan 1, 2023)

- Bellevue Utilities Stormwater CIP information is available on the City website. General overview of the program and program areas can be found at [Stormwater Capital Investment Projects | City of Bellevue \(bellevuewa.gov\)](https://www.bellevuewa.gov/Stormwater-Capital-Investment-Projects)
- The current 2021-2027 Proposed Stormwater Capital Improvement Projects are also available through the City website at [BELLEVUE UTILITIES 2021-2027 PROPOSED CIP \(bellevuewa.gov\)](https://www.bellevuewa.gov/BELLEVUE-UTILITIES-2021-2027-PROPOSED-CIP)
- Additional information on Bellevue Utilities CIP program can be found at [2021-2027 CIP Rollup by Program - ROUNDED 06-02-2020.xlsx \(bellevuewa.gov\)](https://www.bellevuewa.gov/2021-2027-CIP-Rollup-by-Program-ROUNDED-06-02-2020.xlsx)

Specific details of historic and current projects are available upon request. Bellevue operates on a 7-year CIP budget with updates to the CIP plan occurring at on a 2-year basis.

Previous CIP Budget documentation:

- 2021-2022 Budget Document (2021-2027 Capital Investment Program Plan)
- 2019-2020 Budget Document (2019-2025 Capital Investment Program Plan)
- 2017-2018 Budget Document (2017-2023 Capital Investment Program Plan)
- 2015-2016 Budget Document (2015-2021 Capital Investment Program Plan)

Q21

S5.C.2.a.i.(a) and (c) General awareness

Ads, Articles, Online and Print Materials

The City of Bellevue provides educational pollution prevention material through multiple formats including ads, articles, online, print material, and social media posts.

Ads and Articles

- Articles in the Utilities Bill Newsletter, [Audience: General Public](#)
- Articles in the City Newspaper, [Audience: General Public](#)
- Ads in Newport HS Knightlife Newspaper ([Audience: General Public, reaches 1,850 students and families](#))
- Bus ads (7 from Bellevue) with regional SOGgies Group, *Fall 2020 Audience: General Public*
- Social Media ads with STORM [Audience: General Public, multiple languages](#)
 - Regional campaign including outreach to Korean, Spanish, English, and Vietnamese audiences.
 - Bellevue had some of the most impressions, 291,393 with over 73,000 PSSH videos completed.

Something fishy in Kelsey Creek?

By Laurie Devereaux, Stream Team Coordinator

Bellevue Utilities News



"Poo"llution preventers:
Stop by City Hall Service First desk (with or without your pooch) to pick up a free roll of pet waste bags!

Free Greener

April 22, 2020 marks the 5th anniversary of Greener Living classes by learning how to clean up your act.

In the Zero Waste Hero workshop, we'll show you how to properly sort, recycle, and compost. We'll also provide you with a cleaning kit with more DIY cleaning tips.

Green Cleaning workshop that protect your health and the environment. Register to make your own safer cleaning kit with more DIY cleaning tips.

Registration is required to or email [recycle@bellevue](mailto:recycle@bellevuewa.gov) to 20 people per class—first come, first served.

Protect Our Streams from Pet "Poo"llution



In addition to being a sight themselves, peamouth attract other wildlife like this great heron.

12 ADS MARCH 20, 2020

ONLY RAIN DOWN STORM DRAINS

Indoor drains carry to the sewer for treatment.

Outside drains, called catch basins, carry rain directly to storm drains and lakes without treatment.

Protect water quality for future generations

- Use a commercial car wash
- Fix vehicle leaks
- Scoop pet waste and place it in the trash
- Avoid harmful pesticides and fertilizers

Protect Source Starts Here.org

A Clean Ride Shouldn't Lead to Dirty Water

Even biodegradable soap can pollute our water.

Dirty car wash water contaminates our waterways with petroleum hydrocarbons, heavy metals, phosphorus, nitrogen, and surfactants.

Single streamers are protective physical barriers on fish and natural life in the gills, making fish more susceptible to diseases.

Use a commercial car wash! Commercial car washes send dirty water to the sewer for treatment.

Don't let your car wash water go down the drain.

Don't let your car wash water go down the drain.

Don't let your car wash water go down the drain.

City of Bellevue, Washington - Government
Published by Brue Bob · May 1, 2020

Planning to wash your car this weekend? Please help us protect our stream health. All storm drains in Bellevue lead to lakes, streams and creeks without treatment. When you wash your car in a driveway or road, soap and other car chemicals can enter the waterways we swim, fish and play in. Even biodegradable soap pollutes water and can damage fish.

What can you do instead? Wash your car on the lawn or gravel or divert car wash wastewater into soil.

Or, wait until our commercial car washes can reopen. They send dirty water to the sewer system for treatment, instead of down storm drains, which helps keep our waterways clean.

2,514 People Reached 279 Engagements Boost Unavailable

6 Comments 9 Shares

Help prevent pollution from driveway runoff

By Laurie Devereaux, Stream Team

Rainwater running down your driveway picks up what it touches, including any oil, fertilizer and pet waste in its path. Runoff from car washing or a pressure washing project can also run down your driveway, toward a storm drain. There is no filter or treatment between those drains and local lakes and streams, which are home to chinook, coho, sockeye and kokanee salmon.

Here are five tips to prevent polluted runoff from leaving your property, ensuring that clean water flows into the storm drains on your street.

- **Sweep** up dirt and debris regularly to keep it out of storm drains and prevent buildup of moss.
- **Divert** pressure washing water into landscaping or use a sump

or wet vacuum to divert it to a utility sink. Avoid using soap or hot water.

- **Wash** your car at a commercial car wash. (No soap, biodegradable or otherwise, is safe to flow into local waterways.) Commercial car washes send the polluted wash water to the sewer for treatment.
- **Check** your vehicle for leaks. FixCarLeaks.org offers help.
- **Redirect** roof downspouts to landscaped areas when cleaning your roof. If using chemicals, reconnect your downspouts after a couple rain cycles to prevent polluted water from reaching storm drains.

Bellevue Utilities has a 24-hour hotline that you can report water issues including pollution or stream concerns. Call 425-452-7840.

P

Traditional in-person events were cancelled in 2020, but pollution prevention materials, information and activities were provided at contactless and virtual events.

Community Distribution at Hopelink Mobile Market

Audience: General Public, specifically overburdened communities.

The City held a curbside environmental conservation kit pickup in collaboration with the Hopelink Mobile Market at Lake Hills Elementary School on September 9, 2020. City staff provided environmental conservation kits in English or Spanish to 105 households. In addition to other resource conservation supplies, kits included brochures on clean water for your community, picking up after your pet, and properly disposing of cleaning wipes. Each kit also received a chocolate fish. Households with youth also received a youth conservation kit that included Puget Sound Starts Here buttons and pencils, as well as paper salmon hats.



The Great Bellevue Scavenger Hunt

Audience: General Public

The City hosted a city-wide scavenger hunt using the Goose Chase phone app from October 2-30, 2020. The City released “missions” each week, including a total of seven stormwater and pollution prevention missions were offered as part of the game.



A total of 101 active players on 74 active teams participated. Players submitted 167 responses to the seven missions related to stormwater. Sample stormwater related missions included the following.

- Safer Suds – car washing best practices
- Scoop it, Bag it, Trash it – pet waste disposal
- Storm Drain Superhero – find your closest storm drain, clear it of debris and protect it!
- Where does your rain go? – check out your home gutters and rain system
- Be F.O.G. friendly – proper disposal of fats, oil, and grease
- Don’t Drip and Drive – fix car oil leaks
- You Live in a Basin – learn about your drainage basin



Great Bellevue Scavenger Hunt participant's photo of finding their local storm drain



Great Bellevue Scavenger Hunt participant practicing scooping, bagging and trashing pet waste.

Players on the top scavenger hunt teams received a conservation swag bag from the City that included brochures on clean water for your community, picking up after your pet, and properly disposing of cleaning wipes. Youth in those households also received a youth conservation kit that included Puget Sound Starts Here buttons and pencils, as well as paper salmon hats. Each kit also received a chocolate fish.

Participants responded positively and are already requesting another game in the future. Feedback included the following.

- *“The kids had fun doing some of the “work” and sleuthing. It was so fun.”* -- Team Herrman Horde
- *“You guys did a wonderful thing that the City desperately needed.”* – Team Lake Hills

- *“My family and I had such a fun time with the challenges and actually learned quite a few new tips. We are really hoping there will be another one. It definitely lifted our spirits during these depressing COVID-times.” – The J-Team*
- *“Thanks so much for organizing the game. I’m a member of the Lakeridge team. We used the scavenger hunt as a way to foster greater community in the neighborhood.” – Team Lakeridge*

Storm Drain Markers

Audience: [General Public](#)

City of Bellevue installs four-inch, colorful plastic markers with pollution prevention message like, “Don’t Pollute, Drains to Stream” on public storm drains throughout the city. Markers without the city logo are also available for private properties like businesses and multifamily housing free of charge.

900 storm drains were marked by staff in 2020!

Due to covid, no storm drain marking was done by volunteers in 2020.

Storm drain markers have been customized for most easily recognized streams such as Kelsey and Coal Creeks. In other areas they say they drain to stream or lake.

A focus group conducted in 2009 found that 75% of participants had seen the markers, and participants were nearly unanimously positive about the markers' value as a pollution prevention message and a good use of public funds.

All public drains had been marked by 2011 but storm drain marking continues every summer as original markers need replacement, pavement overlays require new marking, and program is expanded onto parks, school properties, and provided to private properties on request. Starting in summer 2016, the presence or absence of storm drain markers has been added to the stormwater crew’s mobile catch basin inspection list. This map and information help locate where the most markers are missing to direct work most efficiently in the field. These maps are invaluable for staff and volunteers to track their progress.



School Workshops

Audience: General Public, specifically school aged children

Bellevue schools switched to remote learning models in March 2020. After providing in-person workshops to K-12 schools in January through mid-March, the City developed educational materials to encourage conservation and pollution prevention, as well as support at home and remote learning for the remainder of the year. All tools were designed with the intention to continue using them as supplementary materials when students return to in-person learning. The following are examples of the education materials developed in 2020.

- Be the Solution and Blue Teams - Grades 3-12 Classroom Workshops and Curriculum:**
 Nature Vision and Bellevue Utilities continued the pollution prevention school programming that began in 2009. 2020-2021 programming included *Be the Solution* workshops for secondary students and Blue Teams, student stewardship teams for K-12 students. From January to March we taught four Be the Solution programs for 100 students, as well as 15 Blue Team programs for 150 students before school closures due to Covid-19. After school closures, teachers received access to optional supplemental remote curriculum in the form of student packets on: Ecosystems, Watersheds, Humans and Water, Ecological Impacts, Water Quality, Human Systems, and Invasive Weeds.

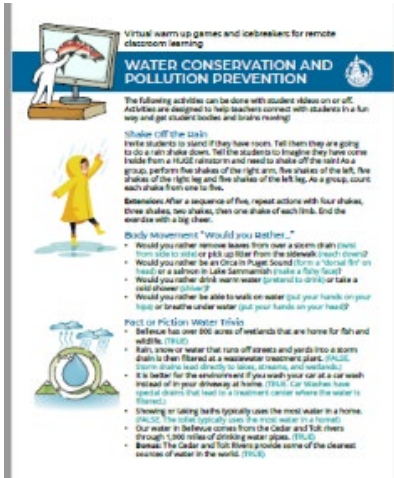
- Water Conservation/Pollution Prevention at Home Activity Guide:**
 Features a “where does it flow” diagram about Bellevue’s water cycle, “did you know” stormwater quiz and water conservation challenges.



- Student Pledge Tree:** For use in classrooms, a Pledge Tree poster encourages students to write a personal conservation pledge on a sticky note leaf, including pledges to protect waterways.



- Virtual Classroom Warm-up Games and Icebreakers:** The City of Bellevue created a variety of quick games such as a one-minute at-home scavenger hunt, environmental knock jokes, Fact vs. Fiction trivia, and more. All activities can be done with student videos on or off. Topics include stormwater pollution prevention and are designed to help teachers connect with students in a fun way and get student bodies and brains moving at the start of class!



- Special Stormwater Presentations Provided for:**
 - Local High School Podcast Program about pollution
 - Seattle University Environmental Studies Class

Paint Program

Audience: General Public and Businesses

2020 marks the eighth year of outreach aimed at informing paint retailers and their customers about options for proper paint disposal and recycling. Paint retailers saw little to no dip in sales due to the pandemic. There was a shift from commercial to residential customers, but overall traffic remained high. All Bellevue paint retailers were pleased to receive refreshed outreach materials, via two site visits, to share with their customers. The City also identified a new Sherman Williams paint retail location to the City and assisted another paint retailer with hazardous waste disposal questions. Paint retailers were also very interested in receiving an update on the State’s new paint take-back program. The City maintained contact with Paint Care, the product stewardship organization, so as to have current information on program roll-out.



Natural Yard Care Program

Audience: [General Public](#)

The Natural Yard Care (NYC) program provides education and how-to-resources to Bellevue homeowners on yard care best management practices that encourage yard care behavior change to conserve and protect water resources, reduce yard waste and enhance public health. The desired behavior changes of the Natural Yard Care Program correlate directly with the five steps of NYC: 1) build healthy soil, 2) plant right for your site, 3) practice smart watering, 4) think twice before using pesticides, and 5) practice natural lawn care. These practices are typically promoted through City communication opportunities and special events. The practices are also modeled and promoted through the City's Waterwise Garden at the Bellevue Botanical Garden (BBG).

This year outreach education materials included one new interpretative sign located at our Waterwise demonstration garden. The interpretive signs detail natural yard care practices that visitors can adopt to prevent stormwater pollution and conserve surface water resources.

Fourteen Natural Yard Care guides are made available on the City's website and form the foundation of the BBG's "Going Green" webpages. NYC resources can be found at: <http://www.bellevuewa.gov/natural-gardening-resources.htm>.

S5.C.2.a.ii Behavior Change

The City of Bellevue has been leading the regional Dumpster Lid Social Marketing Campaign. See details separate documents including detailed strategy and schedule.

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S5.C.2.a.iii Stewardship

Stream Team

Stream Team volunteers gather important information about Bellevue's streams, lakes, and wetlands and help improve the City's fish and wildlife habitat in a variety of ways.

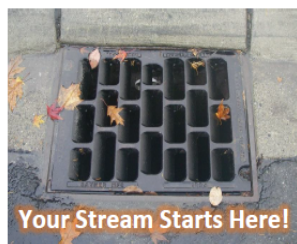
- **Salmon Watchers:** Volunteers monitor local streams for salmon returning in the fall, visiting a site for 15 minutes twice a week from September through December and reporting when, where and what type of salmon are sighted. 2020 participation was limited to previously trained volunteers.
- **Peamouth Patrol:** Volunteers check local streams for 15 minutes twice a week from mid-April through May. They record spawning times and use of Bellevue streams. 2020 training was online written lessons including stormwater pollution prevention. Instead of site visits during quarantine, volunteers were offered the option of viewing the Kelsey Creek Camera, a stream camera pointed at the most popular peamouth spawning location. Volunteers are also trained on how to report illicit discharges. 2020 Peamouth Patrol had higher than usual participation rates!

Watershed Awareness

Soak it up

A watershed is an area of land that all drains into one place like a stream or lake. As a watershed becomes populated, sidewalks, streets, parking lots, and buildings replace natural undeveloped areas.

When rain hits a soil or landscaping, it is slowed down and partially soaked up by the ground and filtered by plants. When rain hits streets and



other hard, impervious surfaces (surfaces that can't absorb water), it runs off quickly, collecting pollutants as it travels to a stream or lake. This runoff can carry a variety of harmful pollutants into streams.

The storm drain system is designed to carry rainwater to our local streams, lakes, and wetlands which eventually flow into our large lakes and out to Puget Sound. The sewer is a completely separate system where water from inside your home (toilets, showers, sinks) gets treated before being released into Puget Sound. Dumping pollutants down storm drains or into surface water is bad for water quality.

Allowing anything but rain to enter a storm drain is against Utilities Code. However, we do not have car wash police or staff to patrol for violations. We rely heavily on outreach and education.

You can help protect water quality by telling others that stormwater is not treated and what they can do to prevent pollution!

Your Choices Make a Difference

Scoop the poop, bag it, and place it in the trash. Pet waste contains harmful microorganisms that can be transferred to humans. <http://www.scoopoop.org/index.aspx>

Wash your car at a commercial car wash because they send the dirty water to the sewer for treatment. Soaps dissolve the protective mucous layer on fish and natural oils in the gills, making fish more susceptible to diseases. Even biodegradable soap pollutes water. If you need to wash before the end of quarantine, do so on lawn or gravel where the water can soak into the soil.

Practice Natural Yard Care. Choose the right plants, build your soil, and water wisely to grow healthy plants and avoid using pesticides and fertilizers that can contaminate our streams and lakes. Visit [Natural Yard Care](#) for more tips!

