

Proposed Policies, Programs and Strategies, and Levels of Service for the Draft 2016 Stormwater Management Comprehensive Plan

Summary proposed through May 10, 2016

“Normal Text” is existing proposed Draft 2016 Plan

“~~Strikethrough Text~~” is existing draft 2016 Plan language that will be deleted

“Underline Text” is draft 2016 Plan language that will be added

“...” indicates that there is additional Plan language that has been omitted

#	Commenter	Code Section	PC Recommended Draft Language	Comments
1	<p>Planning Commissioner Nancy Anderson</p> <p>Public Comment Arn Thoreen</p> <p>Public Comment Ron Cornwall</p>	<p>Section 7 Policy 1</p>	<p>Policy 1 - Coordinate surface and stormwater management services with neighboring jurisdictions</p> <p>Rationale: Many of the City’s drainage basins cross jurisdictional boundaries, including Evans, Laughing Jacobs, and North Fork Issaquah Creeks. In order to achieve a comprehensive approach to surface and stormwater management, the City should coordinate surface and stormwater management services with neighboring jurisdictions. In addition, the program may contract for services with interested municipalities or special districts including, but not limited to, sewer and water districts, school districts, or other governmental agencies.</p>	<p>Commissioner Anderson Comment: Coordination with neighboring jurisdictions is important. Discuss what coordination the City is currently doing. Is Sammamish coordinating with schools?</p> <p>Thoreen Public Comment: Allen Lake, located just outside of Sammamish, has seen an increase of lake levels during the last decade of development. King County has worked with downstream property owners to maintain vegetation in ditches, but the City of Sammamish should address problems with the City infrastructure that may be contributing the increased lake levels.</p>

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				<p>Mr. Thoreen wants the City to monitor water quality and quantity leaving stormwater facilities in Sammamish. He believes ponds are leaking and contributing toward the increased water levels in Allen Lake.</p> <p>Cornwall Public Comment: Allen Lake property owner. Mr. Cornwall has concerns about a pipe under NE 3rd St that is draining to Allen Lake from the Klineburger pond. He believes ponds are leaking and contributing toward the increased water levels in Allen Lake.</p> <p>Staff Response: Staff coordinates with School Districts in new and redevelopment of schools, often accelerating reviews to keep with school funding timelines. We have also coordinated extensively with them on educational outreach activities on protecting water quality and salmon habitat. Staff coordinated with King County during annexations. Staff coordinates with the City of Issaquah on development</p>
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				<p>projects that border our common jurisdictional boundaries. Staff coordinates with Sammamish Plateau Water in capital improvement projects such as Inglewood Hill Stormwater Retrofit and development projects through joint pre-application meetings and the development review.</p> <p>Regarding Allen Lake, King County is currently modeling Allen Lake tributary areas and downstream conveyance constrictions. According to County staff, a report is due by the end of 2016. City staff will review the recommendations from the report, make comments, and address stormwater facility issues as they are identified. Development within Sammamish upstream of the lake mostly built out. The City will evaluate the potential for reducing stormwater volumes by retrofitting existing city-owned storm facilities in the future. Our current inspection of our facilities indicate that facilities are operating as designed.</p>
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				<p>Staff recommended draft language: No changes.</p>
2	<p>Planning Commissioner Larry Crandall</p> <p>Public Comment Jeff Weems</p>	<p>Section 7 Policy 2</p>	<p>Policy 2 - Promote surface and stormwater education and outreach</p> <p>Rationale: Technical assistance and community education regarding environmental and stormwater stewardship enables the City, its residents, and its businesses to comply with federal, state, and local mandates, and enables the City to protect its quality of life and natural resources. The promotion of stewardship is an integral part of a comprehensive surface and stormwater management program and is required by the City’s NPDES Phase II Permit.</p>	<p>Commissioner Crandall Comment: Appreciates outreach and education policy</p> <p>Weems Public Comment: Add a goal similar to “Address the property development rights of land owners, and the legally required growth in GMA urban areas, balanced with environmental concerns.”</p> <p>Staff comment: This policy has been revised to include language that would support technical assistance to homeowners and developers.</p> <p>Staff recommended draft language: Policy 2 - Promote surface and stormwater education and outreach</p> <p>Rationale: Technical assistance and community education regarding environmental and stormwater stewardship enables the City, its residents, <u>developers</u>, and businesses</p>

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				to comply with federal, state, and local mandates, and enables the City to protect its quality of life and natural resources. <u>Providing technical assistance to homeowners and developers while</u> The promoting sustainable environmental stewardship is an integral part of an effective comprehensive surface and stormwater management program and is required by the City's NPDES Phase II Permit.
3	Planning Commission Chair Frank Blau	Section 7 Policy 3	<p>Policy 3 - Develop surface water rates and charges based on present and future revenue needs</p> <p>Rationale: Comprehensive management of surface and stormwater runoff should include anticipation of future growth and development in the design and improvement of the surface and stormwater management system. Service charge revenue needs should be based upon the present and future requirements of the surface and stormwater management system, and these needs should be considered when determining the rates and charges of the program.</p>	<p>Chair Blau Comment: What assumptions define the future needs?</p> <p>Staff comment: Section 5 of the draft 2016 Stormwater Management Comprehensive Plan documents anticipated future conditions such as climate change and aging infrastructure that will drive long term needs. Basin planning will identify future stormwater capital improvement projects. Additionally,</p>

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				<p>the proposed programs and strategies, and the 6 year stormwater capital improvement projects show the projected future needs of the program.</p> <p>Staff recommended draft language: No changes.</p>
4	<p>Planning Commission Chair Frank Blau</p> <p>Planning Commissioner Larry Crandall</p>	<p>Section 7 Policy 4</p>	<p>Policy 4 - Use basin planning as a comprehensive approach to surface water management</p> <p>Rationale: Basin plans are essential to establishing a comprehensive approach to Capital Improvement Projects (CIP), maintenance of facilities, preservation and restoration of natural resources, and development of integrated strategies for surface and stormwater management within an individual drainage basin.</p>	<p>Chair Blau Comment: What is a basin plan? What information was used to determine the priority of basin plans to be completed in the future?</p> <p>Commissioner Crandall Comment: Appreciates “comprehensive” approach to basin planning.</p> <p>Staff comment: Two basin plans have been completed by the City to date (Inglewood and Thompson basin plans). These plans can be found on the City’s website and have also been provided to the Planning Commissions. Basins plans review and analyze specific watersheds in the City to describe natural resources and City</p>

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				<p>infrastructure, make recommendations for future programs, maintenance needs, property acquisitions, and stormwater capital improvement projects, and take a comprehensive approach to the preservation and restoration of natural resources.</p> <p>See Staff response to Strategy S-15 The Zackuse Creek Basin and the Laughing Jacobs Basin Plans are the next planned basin studies.</p> <p>Staff recommended draft language: Policy 4 - Use basin planning as a comprehensive approach to surface water management</p> <p>Rationale: Basin plans are essential to establishing a comprehensive approach to Capital Improvement Projects (CIP), maintenance of facilities, preservation and restoration of natural resources, and development of integrated strategies for surface and stormwater management within an individual</p>
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				<p>drainage basin. <u>Basins plans review and analyze specific watersheds in the City to describe natural resources and City infrastructure, make recommendations for future programs, maintenance needs, property acquisitions, and stormwater capital improvement projects, and take a comprehensive approach to the preservation and restoration of natural resources.</u></p>
5	none	Section 7 Policy 5	<p>Policy 5 - Promote City-wide compliance with surface and stormwater regulations</p> <p>Rationale: The federal Clean Water Act, implemented through municipal stormwater NPDES permits, mandates a wide variety of local programs to manage surface water and improve water quality. Compliance is measured by the effectiveness of the City's surface water and water quality programs, which impact operations in parks, public works, and other departments.</p>	<p>Comments: none</p> <p>Staff comment: none</p> <p>Staff recommended draft language: No changes.</p>
6	Planning Commissioner Nancy Anderson	Section 7 Policy 6	<p>Policy 6 - Manage surface and stormwater to promote the recovery of Chinook Salmon and Lake Sammamish kokanee</p> <p>Rationale: Under the federal Endangered Species Act, Chinook salmon were listed as a threatened species in March 1999, and</p>	<p>Commissioner Anderson Comment: Appreciates kokanee focus but would like to learn more about Patterson Creek and tributaries. There are extinct runs of fish on other side of</p>

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			<p>bull trout were listed as a threatened species in November 1999. Additionally, Lake Sammamish kokanee are a species of high importance to the City and region. These fish and listings bring into focus the need for higher standards in managing surface water, including new, expanded and more intensive programs to control the quantity and quality of runoff. Programs responding to these imperatives have included the design, permitting, and construction of facilities; facility retrofitting and maintenance; habitat acquisition and restoration; monitoring; regulation development; and coordination with other agencies on transboundary issues.</p>	<p>Plateau and hydrologically connected bogs and wetlands. Would like more attention to east side of Plateau.</p> <p>Staff comment: Basin planning in Patterson Creek would identify state of existing natural resources and make recommendations for protection and restoration of built and natural resources. King County has published the Snoqualmie Water Quality Synthesis Report that includes a broad description of Patterson Creek. Coho, steelhead, and Chinook Salmon can be found in Patterson Creek and a major tributary, Canyon Creek that flows through Duthie Hill Park and the Aldarra golf course. A tributary to Canyon Creek originates in the High Country neighborhood of Sammamish (see Figure 3.1 Draft 2016 Plan)</p> <p>Staff recommended draft language: Policy 6 - Manage surface and stormwater to promote the recovery of Chinook Salmon and Lake Sammamish kokanee <u>and threatened</u></p>
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				and endangered? aquatic species in all <u>City regions.</u>
7	<p>Mayor Don Gerend</p> <p>Planning Commissioner Nancy Anderson</p> <p>Public Comment Sharon Steinbis Sammamish Stormwater Stewards</p> <p>Public Comment Ilene Stahl Friends of Pine Lake</p>	<p>Section 7 Policy 7</p>	<p>Policy 7 - Manage surface and stormwater comprehensively to address problems related to development</p> <p>Rationale: In general, increased development results in increased stormwater runoff, pollution, and surface and stormwater problems such as flooding, habitat impacts, and water quality degradation. Development-related problems require a comprehensive approach that includes education and outreach, development reviews and approvals, capital projects, operations and maintenances of facilities, and interdepartmental and interjurisdictional coordination to effectively reduce impacts.</p>	<p>Mayor Gerend Comment: Is incorporation of regional facilities in the Town Center part of Stormwater Comprehensive Plan? The Council has also heard comments from Sammamish Stormwater Stewards about promoting green infrastructure and getting rid of “stormwater prisons”.</p> <p>Commissioner Anderson Comment: Philadelphia is removing stormwater systems to let nature take over natural functions. Sammamish is moving in the right direction.</p> <p>Steinbis Public Comment: Envisions a “Green Sammamish” as opposed to a “Gray Sammamish”. Would like the City to adopt a green stormwater pond program in which the “stormwater prisons” are retrofitted and new development be required to design more natural</p>

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				<p>looking stormwater ponds to support habitat and open space.</p> <p>Stahl Public Comment: Concerned that the City has not adopted legislation that keeps the intent of the wetland management overlay districts and the erosion hazard overlay districts that was originally adopted from King County under City incorporation.</p> <p>Staff comment: The “comprehensive” emphasis in this policy would address the incorporation of regional stormwater facilities. It also addresses the desire to manage stormwater to compliment natural resources by creating more natural looking stormwater facilities. More explicit language can be incorporated into this policy.</p> <p>Regarding wetland management and erosion hazard overlay districts, the proposed stormwater manual for discussion with the Planning Commission later in the year, has</p>
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				<p>language requiring that wetland hydrology be met. However this comment may be better addressed through SMC 21A. 50 which addresses the critical areas code update with language that addresses wetland management and erosion hazard overlay districts. Staff believes the current critical areas regulations meets the intent the overlay districts that were originally adopted from King County under City incorporation.</p> <p>Staff recommended draft language: Policy 7 - Manage surface and stormwater comprehensively to address problems related to development</p> <p>Rationale: In general, increased development results in increased stormwater runoff, pollution, and surface and stormwater problems such as flooding, habitat impacts, and water quality degradation. Development-related problems require a comprehensive approach that includes education and outreach, development reviews and approvals,</p>
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				capital projects, operations and maintenances of facilities, and interdepartmental and interjurisdictional coordination to effectively reduce impacts. <u>As opportunities arise, regional stormwater facilities should be encouraged and facilitated. Green stormwater infrastructure should be encouraged through implementation of design standards and retrofitting programs.</u>
8	none	Section 7 Policy 8	<p>Policy 8 - Revise and update regulations and development standards to protect the surface and stormwater management system and natural resources as new research becomes available that indicates better methods</p> <p>Rationale: The surface water management program, through reconnaissance studies, basin plans, and other special studies, will continuously provide valuable information on the existing problems and areas of the natural drainage system that need special protection. Regional research is being conducted and new BMPs are being developed to treat stormwater runoff and protect natural resources. The City should keep abreast of the latest research and when appropriate, be prepared to update or modify development standards and codes to reflect the most current and best available science.</p>	<p>Comments: none</p> <p>Staff comment: none</p> <p>Staff recommended draft language: No changes.</p>

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9	none	Section 7 Policy 9	<p>Policy 9 - Surface and stormwater program capital and operating expenditures will be covered by service charges and other revenues generated or garnered by the program</p> <p>Rationale: By funding all capital and operating expenses through service charges generated by the surface water management program, the program will maintain long-term fiscal viability and solvency for all of its related funds. All required capital and operating expenditures will be covered by service charges and other revenues generated or garnered by the program. The program will pay all current operating expenses from current revenues, and will maintain an operating reserve to minimize service impacts due to revenue or expenditure variances during a fiscal year.</p>	<p>Comments: none</p> <p>Staff comment: none</p> <p>Staff recommended draft language: No changes.</p>
10	Planning Commissioner Larry Crandall	Section 7 Policy 10	<p>Policy 10 - Prepare a multiyear CIP that encompasses all of the program's activities related to acquisition, construction, replacement, or renovation of capital facilities or equipment and special projects</p> <p>Rationale: A multiyear surface and stormwater CIP will provide the mechanism for implementing surface and stormwater improvements in the City. The program's capital facilities will be</p>	<p>Commissioner Crandall Comment: Appreciates policy.</p> <p>Staff comment: none</p> <p>Staff recommended draft language: No changes.</p>

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			planned and financed to ensure that the benefits of the facilities and their costs are balanced over time.	
11	<p>Planning Commission Chair Frank Blau</p> <p>Planning Commissioner Larry Crandall</p>	<p>Section 6 Table 6-2 Appendix B S-1</p>	<p>S-1 Support Kokanee Work Group</p> <p>Provide support in efforts to improve habitat and fish passage for kokanee salmon</p> <ul style="list-style-type: none"> • Related policies: P1, P2, P6, P7, P10 • Planning Level Cost Estimate: \$10,000 per year • Schedule: Ongoing 	<p>Chair Blau Comment:</p> <p>Does this program support more than the KWG, for example, Sammamish Stormwater Stewards?</p> <p>Commissioner Crandall Comment:</p> <p>The vision statement for the Plan discusses health, safety, properties, and people. There is a newly formed Human Resources Commissioner that focuses on many of the same issues and a liaison between this Commissioner and the KWG is suggested.</p> <p>Staff Response:</p> <p>The program specifically targets support of the goals of the KWG. Staff has been supporting this group since its formation in 2007. Approval of the recommended program is confirmation that the City wishes to continue our support of this program.</p>

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				<p>Staff recommended draft language: No changes.</p>
12	<p>Planning Commissioner Nancy Anderson</p>	<p>Section 6 Table 6-2 Appendix B S-2</p>	<p>S-2 Regional Coordination</p> <p>Continue participation in regional forums to promote best practices and research on salmon recovery, water quality, habitat improvement, cross-watershed interests</p> <ul style="list-style-type: none"> • Related policies: P1, P6 • Planning Level Cost Estimate: \$10,000 per year • Schedule: Ongoing 	<p>Commissioner Anderson Comment: What kinds of regional coordination is the City currently doing?</p> <p>Staff Response: The City participates in the following regional work groups:</p> <ul style="list-style-type: none"> • WRIA 8 Planning - salmon • APWA Stormwater Manager's Group • Stormwater Outreach for Regional Municipalities – • Stormwater Outreach Group (SOGGIES) • Stormwater Permit Coordinators Group • Local Jurisdiction Stormwater Monitoring Caucus • ROADMAP - Maintenance <p>Staff recommended draft language: No changes.</p>

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13	<p>Planning Commission Chair Frank Blau</p> <p>Planning Commissioner Larry Crandall</p> <p>Planning Commissioner Vice Chair Shanna Collins</p> <p>Public Comment Jan Bird Sammamish Stormwater Stewards</p>	<p>Section 6 Table 6-2 Appendix B S-3</p>	<p>S-3 Update Stormwater Web Page</p> <p>Keep information current on LID codes, revised drainage standards and Surface Water Design manual</p> <ul style="list-style-type: none"> • Related policies: P1, P2, P5, P6, P7 • Planning Level Cost Estimate: \$10,000 one-time cost • Schedule: 2016 	<p>Chair Blau Comment:</p> <p>If this is a one-time cost, how is webpage going to be updated as codes change, ie LID next year?</p> <p>Commissioner Crandall Comment:</p> <p>Would like a dashboard added to the web page.</p> <p>Vice Chair Collins Comment:</p> <p>Would also like a dashboard added to the web page that would be for each strategy/program and a sense of where staff was in the process of completing program.</p> <p>Bird Public Comment:</p> <p>Supports a better website.</p> <p>Staff Response:</p> <p>The one-time cost will be used to revamp the current webpage to be more user friendly. The ongoing updates to the website will be done as needed and is not included in planning level costs. The website can include a dashboards for all programs.</p>
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				<p>Staff recommended draft language: No changes. See Appendix B description and assumptions.</p>
14	<p>Planning Commissioner Larry Crandall</p> <p>Planning Commissioner Nancy Anderson</p> <p>Public Comment Jan Bird</p>	<p>Section 6 Table 6-2 Appendix B S-4</p>	<p>S-4 Create Low Impact Development (LID) and stormwater educational material</p> <p>Continue education and outreach focused on LID, habitat protection and improving water quality</p> <ul style="list-style-type: none"> • Related policies: P1, P2, P5, P7 • Planning Level Cost Estimate: \$15,000 one time cost • Schedule: 2017 	<p>Commissioner Crandall Comment: Partnerships and coalitions can be formed with Ecology groups and Master Builders to develop best strategies for education. This is an opportunity for the City to be a leader in developing education materials for rain gardens and bioretention ponds.</p> <p>Commissioner Anderson Comment: Suggests that partnerships with programs such as the International Baccalaureate Program at Skyline HS which requires essays of their participants could be developed to allow students to work with consultants and City staff. This could provide for very innovative education and outreach materials.</p> <p>Bird Public Comment: Would like to see more signage on Park facilities that explain green stormwater features.</p>

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				<p>Staff Response:</p> <p>The program would have a focus on creating fact sheets and web material on changes to the stormwater requirements with Low Impact Development, specifically targeting homeowners and developers. Staff coordination with the Department of Ecology, King County, and other stormwater educators in the region will help provide educational material. Coordination with stakeholders such as Master Builders, local developers, and homeowners will allow feedback to improve the material.</p> <p>Staff have been approached by STEM programs and schools like Eastside Catholic HS to help with their education programs. Staff resources have not allowed much participation in these programs. As opportunity allows, partnerships with the IB program at Skyline will be explored.</p> <p>Regarding stormwater educational signage in the City's Park facilities, Public Works will work with Park</p>
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				<p>planners on feasibility of adding signage.</p> <p>Staff recommended draft language: No changes.</p>
15	<p>Planning Commission Chair Frank Blau</p>	<p>Section 6 Table 6-2 Appendix B S-5</p>	<p>S-5 Beaver management strategy</p> <p>Develop strategies to minimize impacts of beavers on public safety and property protection</p> <ul style="list-style-type: none"> • Related policies: P1, P4, P5, P7, P8, P10 • Planning Level Cost Estimate: \$15,000, one time cost • Schedule: 2017-2018 	<p>Chair Blau Comment: Are there cases in which beavers are harmless? We want to be thoughtful when engaging with wildlife habitat.</p> <p>Commissioner Crandall Comment: As a caution, I have heard of cases where deep springs have been identified with removal of obstructions only to later find that branches needed to be placed back into the spring.</p> <p>Staff Response: The beaver management strategy would include criteria for when to (1) leave them alone, (2) protect their environment (e.g., protect the environment they live in to lessen the damage they do), (3) manage their activity (e.g., beaver deceivers, or</p>

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				<p>actively removing their dams), and (4) remove the beavers themselves. The Department of Fish and Wildlife Hydraulic Project Approval (HPA) is required to do any work on beaver dams. They review and question all proposals that disrupt existing habitat. Our strategy will have to meet their expectations and conditions.</p> <p>The placement of large woody debris in stream channels is a common practice to provide aquatic habitat and is often part of a mitigation plan when impacts are necessary. The beaver management strategy would include mitigation options as part of work in any stream, lake, or wetland.</p> <p>Staff recommended draft language: No changes.</p>
16	none	Section 6 Table 6-2 Appendix B S-6	<p>S-6 Develop stormwater asset management program</p> <p>Use asset management data to improve maintenance and operational efficiency and cost effectiveness</p> <ul style="list-style-type: none"> • Related policies: P3, P7, P9, P10 • Planning Level Cost Estimate: \$25,000 • Schedule: 2017-2018 	<p>Comments: none</p> <p>Staff Response: none</p> <p>Staff recommended draft language:</p>

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				No changes.
17	Planning Commissioner Larry Crandall	Section 6 Table 6-2 Appendix B S-7	S-7 Education and outreach (LID, stormwater) Provide education and outreach consistent with the NPDES permit requirements targeting K-12. <ul style="list-style-type: none"> • Related policies: P1, P2, P5, P6, P7 • Planning Level Cost Estimate: \$30,000 per year • Schedule: ongoing 	Commissioner Crandall Comment: Education and outreach is important before standards are adopted. Staff Response: Agreed. Staff recommended draft language: No changes.
18	Planning Commission Chair Frank Blau	Section 6 Table 6-2 Appendix B S-8	S-8 Pursue grants Actively pursue grants to help fund priority stormwater management needs <ul style="list-style-type: none"> • Related policies: P1, P2, P6, P7, P9, P10 • Planning Level Cost Estimate: \$30,000 per year • Schedule: ongoing 	Chair Blau Comment: Amount of grant should be greater than \$30,000. Staff rResponse: Agreed. Staff recommended draft language: No changes.
19	Planning Commission Chair Frank Blau	Section 6 Table 6-2 Appendix B	S-9 Groundwater seepage strategy Develop approach to assess and manage groundwater on publically owned property	Chair Blau Comment: It will be important to engage the public during this development as it is an important issue to many.

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		S-9	<ul style="list-style-type: none"> • Related policies: P4, P7, P8, P10 • Planning Level Cost Estimate: \$40,000 • Schedule: 2019-2020 	<p>Staff Response: The strategy would include solicitation of public comments.</p> <p>Staff recommended draft language: No changes.</p>
20	<p>Planning Commission Chair Frank Blau</p> <p>Public Comment Jeffrey Weems</p> <p>Public Comment Enayat Aziz</p> <p>Public Comment Gary Tobiason</p> <p>Public Comment Lorraine LaPenna</p> <p>Public Comment John Schien</p>	<p>Section 6 Table 6-2 Appendix B S-10</p>	<p>S-10- Adopt new surface water design manual and revise city standards</p> <p>Update City’s Stormwater Design Manual to be in compliance with Ecology’s requirements</p> <ul style="list-style-type: none"> • Related policies: P5, P8 • Planning Level Cost Estimate: \$45,000 • Schedule: 2016 	<p>Chair Blau Comment: I am confused on the adoption of the 2016 King County Manual with the specific Sammamish addendum.</p> <p>Weems Public Comment: Lives on 206th PI NE in Inglewood Historic Plat. Mr. Weems is concerned that the current restrictions for new and replaced impervious surface in the Inglewood Historic Plat pose blanket restrictions over the area. The stormwater retrofit program on Inglewood Hill Road will not benefit his property and many other properties in the area. His issues include requirements for stormwater control on new and replaced impervious surfaces on his property.</p>

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				<p>Feels that homeowners doing a simple 500 SF remodel project on their home are unfairly restricted.</p> <p>Consider allowance for private geotechnical studies on each property be done to allow for modifying the required stormwater provisions in the current code.</p> <p>Aziz Public Comment: Lives on 206th PI NE in Inglewood Historic Plat. Site specific geology is important to consider when determining land use decisions associated with stormwater. Mr. Aziz is a registered geotechnical engineer.</p> <p>Tobiason and LaPenna Public Comment: Both live on 206th PI NE in Inglewood Historic Plat. Consider allowing individual homeowners to determine if geotechnical evaluation on each property can change the stormwater requirements.</p> <p>Schien Public Comment:</p>
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				<p>Lives on 206th PI NE in Inglewood Historic Plat. Concerned about the “repair” language in current drainage code for Inglewood Historic Plat area.</p> <p>Staff comment: Under the City’s current 2013-2018 NDPES Phase II Permit, by December 31, 2016, the City is required to adopt the 2014 Stormwater Management Manual for Western Washington or a surface water design manual that is deemed equivalent by the Department of Ecology. The 2016 King County Surface Water Design Manual (KCSWDM) has been deemed equivalent. Staff intends to recommend the adoption of the 2016 KCSWDM with a Sammamish specific addendum.</p> <p>Currently, the City’s adopted surface water manual is the 2009 KCSWDM with a Sammamish addendum that allows for the use of the 1998 KCSWDM for all development projects that have less than 1 acre of site</p>
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				<p>disturbance. Ecology no longer has this exemption for projects that are less than 1 acre in disturbance. Maintaining a bifurcated surface water manual will no longer be allowed under the City’s existing NDPES permit requirements. The Sammamish specific addendum would include recommendations on design standards such as maximum pond embankment slopes, plantings, etc, if applicable. The addendum will also review and make recommendations on existing Inglewood Historic Plat requirements.</p> <p>Staff recommended draft language: No changes.</p>
21	<p>Planning Commissioner Eric Brooks</p>	<p>Section 6 Table 6-2 Appendix B S-11</p>	<p>S-11 Conduct city-wide development code review and revision for Low Impact Development</p> <p>Assess and revise City’s current codes and to make LID the preferred option for managing stormwater</p> <ul style="list-style-type: none"> • Related policies: P5, P8 • Planning Level Cost Estimate: \$50,000 • Schedule: 2016 	<p>Commissioner Brooks Comment:</p> <p>Is LID more expensive to maintain? It seems like if the use of Low Impact Development techniques is designed to mimic the natural environment – trees for example, wouldn’t maintenance be less?</p>

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				<p>Staff comment:</p> <p>Depending on the LID technique, more expensive maintenance may be needed. For example, proper maintenance of porous pavement requires specialized expensive machines to jet, sweep, and vector the pavement. Weed control in bioretention facilities may require more frequent maintenance by hand in addition to annual pond mowing. The level of maintenance is often a policy and budget decision, because greater maintenance may provide extra benefits such as beautification or other public use.</p> <p>One of the principles of LID is to distribute the collection and discharge of stormwater generated by development related impervious surfaces. This translates to more facilities, smaller in nature, but greater in number. If we adopt new LID code, we will need to closely examine the maintenance needs of different techniques and determine what maintenance obligations would be</p>
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				<p>more appropriate to maintain as public infrastructure or require maintenance by the property owner.</p> <p>Staff recommended draft language: No changes.</p>
22	<p>Planning Commission Vice Chair Shanna Collins</p> <p>Public Comment Sharon Steinbis Sammamish Stormwater Stewards</p> <p>Public Comment Kathryn Love Sammamish Stormwater Stewards</p> <p>Public Comment Jan Bird</p>	<p>Section 6 Table 6-2 Appendix B S-12</p>	<p>S-12 Develop city-wide stormwater retrofit strategy</p> <p>Create plan to prioritize and retrofit existing stormwater facilities to improve functionality and aesthetics</p> <ul style="list-style-type: none"> • Related policies: P2, P4, P5, P6, P7, P10 • Planning Level Cost Estimate: \$50,000 • Schedule: 2017-2018 	<p>Vice Chair Collins Comment: Appreciates the Green Sammamish concept from the Sammamish Stormwater Stewards and would like language in this strategy to specifically support this group and other groups who want to help in the retrofit of stormwater facilities in the City.</p> <p>Steinbis, Love and Bird Public Comments: All are members of the Sammamish Stormwater Stewards and support this program.</p> <p>Staff response: Staff agrees in the Green Sammamish concept and has provided some support to the Sammamish Stormwater Stewards. We have</p>

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	Sammamish Stormwater Stewards			<p>worked with this group to identify a stormwater pond facility next to Big Rock Park on Lancaster Way, and have provided education on stormwater functions and maintenance considerations when planting. We have given the group permission to improve this mostly grassed pond into a natural area with native plants. We look forward to working with the group and this pilot project for stormwater retrofit.</p> <p>Staff recommended draft language: Appendix B, S-12</p> <p>Assumptions:</p> <ul style="list-style-type: none"> ◆ Stormwater retrofit strategy would be primarily an office-based mapping exercise, with field validation to follow. ◆ New stormwater treatment would focus on LID alternatives, where appropriate. ◆ Existing stormwater treatment facilities would be improved for better function and aesthetic appearances. ◆ <u>Work with local groups such as Sammamish Stormwater Stewards to implement retrofit</u>
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				<u>projects to meet the vision of a Green Sammamish.</u>
23	none	Section 6 Table 6-2 Appendix B S-13	<p>S-13 Develop enforcement policy for commercial properties</p> <p>Strengthen City’s ability to enforce proper maintenance of privately owned stormwater facilities</p> <ul style="list-style-type: none"> • Related policies: P2, P4, P5, P7, P9, P10 • Planning Level Cost Estimate: \$50,000 • Schedule: 2017-2018 	<p>Comments: None</p> <p>Staff comment: None</p> <p>Staff recommended draft language: No changes.</p>
24	Planning Commission Vice Chair Shanna Collins	Section 6 Table 6-2 Appendix B S-14	<p>S-14 Map and prioritize culverts for repair and replacement</p> <p>Inventory, assess and prioritize culverts for replacement to enhance fish passage</p> <ul style="list-style-type: none"> • Related policies: P1, P4, P5, P6, P7, P10 • Planning Level Cost Estimate: \$54,000 • Schedule: 2019-2020 	<p>Vice Chair Collins Comment: Does this make more sense to combine with S-6 Develop stormwater asset management program?</p> <p>Staff response: This program is different because it is very focused on assessing culverts for fish passage. S-6 is more related to data management. For example, how should we use the information that is part of data base to determine</p>

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				<p>maintenance frequency? This strategy is also being recommended for implementation sooner.</p> <p>Staff recommended draft language: No changes.</p>
25	<p>Planning Commission Chair Frank Blau</p> <p>Planning Commissioner Nancy Anderson</p> <p>Planning Commission Vice Chair Shanna Collins</p>	<p>Section 6 Table 6-2 Appendix B S-15</p>	<p>S-15 Basin Planning</p> <p>Complete basin plans (10 total)</p> <ul style="list-style-type: none"> • Related policies: P1, P4, P5, P6, P7, P10 • Planning Level Cost Estimate: \$100,000-\$300,000/basin • Schedule: 2017-2018, two basins (Zackuse and Laughing Jacobs) 	<p>Chair Blau Comment: More information is needed on how basins were selected. Also, what is included is a basin plan? Can we get a copy of the basin plans that have been completed? The cost estimates seem high.</p> <p>Commissioner Anderson Comment: How were the basins identified and chosen?</p> <p>Vice Chair Collins Comment: Agrees that basin planning is important as a first step to identify maintenance needs, capital projects, and property acquisition to support natural surface water resources.</p> <p>Staff comment:</p>

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				<p>Please refer to draft 2016 Plan Figure 3-1 to see basin names and boundaries. Two basin plans have been completed by the City to date (Inglewood and Thompson basin plans). These plans can be found on the City's website and have also been provided to the Planning Commissions. Basins plans review and analyze specific watersheds in the City to describe natural resources and City infrastructure, make recommendations for future programs, maintenance needs, property acquisitions, and stormwater capital improvement projects, and take a comprehensive approach to the preservation and restoration of natural resources.</p> <p>Staff would recommend completing studies on all the basins within the City. However, as part of our workload and resources, we would be unable to complete all basin studies in the next two years. We have instead recommended two basin studies to complete between 2017 and 2018:</p>
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				<ol style="list-style-type: none"> 1. Zackuse Creek Basin 2. Laughing Jacobs Basin <p>Both these basins include creeks that support or have historically supported Lake Sammamish kokanee. A number of surface water issues have caused significant problems recently in the Zackuse Basin, including a road landslide on Louis Thompson Hill Road in 2015 and development related drainage issues in Tamarack. Laughing Jacobs Basin is the largest basin in Sammamish (4.6 sq miles) and contains Beaver Lake and Laughing Jacobs lake/wetland. Development and redevelopment is likely to occur on a larger scale in Laughing Jacobs Basin than in any other basin.</p> <p>The costs of the basin studies are estimates based on proportionality to previous basin studies performed. In 2008, the City contracted the completion of the following basin studies at the listed amount:</p> <p>Thompson Basin Study - \$267,504 Inglewood Basin Study Update - \$78,368</p>
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				<p>Town Center Comprehensive Stormwater Plan - \$115,024 TOTAL \$474,723.</p> <p>Staff recommended draft language: No changes.</p>
26	<p>Planning Commission Chair Frank Blau</p> <p>Planning Commission Vice Chair Shanna Collins</p> <p>Public Comment Kathryn Love</p> <p>Public Comment Jan Bird Sammamish Stormwater Stewards</p>	<p>Section 6 Table 6-2 Appendix B S-16</p>	<p>S-16 Property acquisition fund</p> <p>Establish fund to purchase properties in strategic locations for priority stormwater management or transportation projects (e.g. habitat improvement, flow control, water quality treatment)</p> <ul style="list-style-type: none"> • Related policies: P4, P6, P7, P10 • Planning Level Cost Estimate: \$250,000 to \$1,000,000 • Schedule: TBD 	<p>Chair Blau Comment: This is a new program and budget request that the City Council would need to consider.</p> <p>Vice Chair Collins Comment: Agrees that properties need to be identified in basin studies that would provide benefits to surface water management and agrees that the City should purchase such properties as opportunities arise. However, a separate fund for property acquisition does not seem to be needed given the nature of property acquisition historically in the City.</p> <p>Love Public Comment: Parks Department has a draft CIP that includes property acquisition. Are</p>

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				<p>there synergies that can be developed between parks and stormwater?</p> <p>Bird Public Comment: Supports a property acquisition fund.</p> <p>Staff Response: The City Council may choose to reallocate funds at any time from/to this fund. Establishing a fund to acquire property for stormwater management emphasizes the importance of proactively looking for opportunities to reserve strategic properties for future stormwater needs.</p> <p>Public Works will coordinate with the Parks Departments to develop plans for property acquisition that would be mutually beneficial.</p> <p>Staff recommended draft language: No changes.</p>
27	none	Section 6 Table 6-2	S-17 Water Quality Monitoring Establish fund to continue water quality monitoring programs.	Comments: none

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		Appendix B S-17	<ul style="list-style-type: none"> • Related policies: P4, P6, P7, P8 • Planning Level Cost Estimate: \$100,000 per year • Schedule: ongoing 	<p>Staff response: S-17 is a recommended program that was added after the draft Plan was submitted to the Planning Commission. Water quality monitoring is required by the NPDES Phase 2 permit. The City paid Ecology \$56,574 for 2015/2016 for participation in the Regional Stormwater Monitoring Program with fees expected to increase to \$70K to account for annexation population growth. Water quality monitoring is also conducted on Beaver Lake, Pine Pine Lake, City beaches areas, and Ebright Creek.</p> <p>Staff recommended draft language: S-17 added.</p>
28	Planning Commission Vice Chair Shanna Collins	Section 6 Table 6-2 Appendix B	Order of presentation	<p>Vice Chair Collins Comment: Would like to see S-1 through S-17 order changed so that basin planning, groundwater seepage, retrofit strategy, and commercial property enforcement are more toward</p>

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				<p>beginning of program list. The importance of these programs are high and should be listed higher in list. Basin planning should be first.</p> <p>Staff Response:</p> <p>The order was by cost estimate and can be rearranged to most expensive to least expensive. This order would bring those programs higher in list. Basin planning could be first.</p> <p>Staff recommended draft language:</p> <p>Order will be as directed by Planning Commission.</p>
29	Public Comment Mary Wictor	Draft 2016 Plan		<p>Wictor Public Comment:</p> <p>The City should work with sewer districts and other utilities on draft Plan. She is excited about asset management and pleased that the City is proposing to investigate culverts.</p> <p>Staff Response:</p> <p>Staff will provide draft Plat to Sewer and Water Districts for their comments.</p>

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				<p>Staff recommended draft language: No changes.</p>
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