

SHORELINE CITY COUNCIL REGULAR MEETING

Monday, June 17, 2019 7:00 p.m. Council Chamber · Shoreline City Hall 17500 Midvale Avenue North

Page

Estimated

Time

7:00

$1 \qquad CALL TO ODDEL$	
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- 2. FLAG SALUTE/ROLL CALL
- 3. **REPORT OF THE CITY MANAGER**
- 4. COUNCIL REPORTS
- 5. PUBLIC COMMENT

Members of the public may address the City Council on agenda items or any other topic for three minutes or less, depending on the number of people wishing to speak. The total public comment period will be no more than 30 minutes. If more than 10 people are signed up to speak, each speaker will be allocated 2 minutes. Please be advised that each speaker's testimony is being recorded. Speakers are asked to sign up prior to the start of the Public Comment period. Individuals wishing to speak to agenda items will be called to speak first, generally in the order in which they have signed. If time remains, the Presiding Officer will call individuals wishing to speak to topics not listed on the agenda generally in the order in which they have signed. If time is available, the Presiding Officer may call for additional unsigned speakers.

6.	AP	PROVAL OF THE AGENDA		7:20
7.	CONSENT CALENDAR			
	(a)	Approving Minutes of Regular Meeting of May 6, 2019	<u>7a-1</u>	
	(b)	Authorizing the City Manager to Execute a Contract with The Blueline Group, LLC for Sound Transit Lynwood Link Extension Development Review Services	<u>7b-1</u>	
	(c)	Authorizing the City Manager to Execute Amendment No. 3 to Contract 8630 with AECOM Technical Services for Construction Administration and Document Control Support	<u>7c-1</u>	
	(d)	Adopting Ordinance No. 861: 2019-2020 Biennial Budget Amendment Amending Ord. No. 855 for Phase 1 Improvements of City Maintenance Facility	<u>7d-1</u>	
	(e)	Adopting Ordinance No. 862 - Authorizing the Refunding of Limited Tax General Obligation Bonds (City Hall)	<u>7e-1</u>	
	(f)	Adopting Ordinance No. 864 - Amending Ordinance No. 829 to Extend the Delegation Period for Bond Anticipation Notes	<u>7f-1</u>	
	(g)	Adopting Resolution No. 438 - Approving the Sale of Limited Tax General Obligation Bonds Supported by the Shoreline Transportation District 0.2% Sales Tax as Authorized by Ordinance No. 853	<u>7g-1</u>	

8. ACTION ITEMS

	(a)	Adopting Ordinance No. 856 – Amending the Shoreline Master Program Pursuant to the Periodic Review Required by the Shoreline Management Act	<u>8a-1</u>	7:20	
9	STUDY ITEMS				
	(a)	Discussing the King County Homelessness System Redesign	<u>9a-1</u>	7:35	
	(b)	Discussing Ordinance No. 863 – Minor Amendments to the Aurora Square Community Renewal Area Planned Action Ordinance	<u>9b-1</u>	8:15	
10.	AL	DJOURNMENT		8:35	

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CITY OF SHORELINE

SHORELINE CITY COUNCIL SUMMARY MINUTES OF REGULAR MEETING

Monday, May 6, 2019 7:00 p.m. Council Chambers - Shoreline City Hall 17500 Midvale Avenue North

- <u>PRESENT</u>: Mayor Hall, Deputy Mayor McConnell, Councilmembers McGlashan, Scully, Chang, Robertson, and Roberts
- ABSENT: None
- 1. CALL TO ORDER

At 7:00 p.m., the meeting was called to order by Mayor Hall who presided.

2. FLAG SALUTE/ROLL CALL

Mayor Hall led the flag salute. Upon roll call by the City Clerk, all Councilmembers were present.

(a) Proclaiming May as National Bike Month

Mayor Hall read a proclamation declaring May as National Bike Month. Kathy Plant, a Shoreline resident who participated in the creation of Shoreline's first Bicycle Rodeo and remains active with this event, was on hand to accept the proclamation. Ms. Plant thanked the City and Councilmembers for creating an environment in which people of all ages can bike safely in the City.

3. REPORT OF CITY MANAGER

Debbie Tarry, City Manager, provided reports and updates on various City meetings, projects and events.

Ellen Southard, the Salmon-Safe Puget Sound Manager, presented the City Council with a plaque recognizing Shoreline as a Salmon-Safe certified city. She commended the City for leading by example and shared information on the value of Shoreline's systematic commitment to the health of the Puget Sound.

4. COUNCIL REPORTS

Councilmember McGlashan stated that Deputy Mayor McConnell and he attended the SeaShore Transportation Forum meeting where they were apprised on Community Transit's new Swift route and heard an update on the planning to support the future Light Rail Stations.

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Deputy Mayor McConnell said she attended a leadership team meeting for the Council of Neighborhoods and reported how much they appreciate Council attendance. She listed the upcoming community garage sales and encouraged residents to attend.

Mayor Hall said that he, Debbie Tarry, and Sara Lane were invited to join Kenmore's City Council to talk about Shoreline's 10-Year Financial Sustainability Plan. He also reported that he met with stakeholders in the North Corridor for an update on Sound Transit's plans for expanding the Light Rail to Everett.

5. PUBLIC COMMENT

There was no public comment.

6. APPROVAL OF THE AGENDA

The agenda was approved by unanimous consent.

7. CONSENT CALENDAR

Upon motion by Councilmember McGlashan and seconded by Councilmember Chang and unanimously carried, 7-0, the following Consent Calendar items were approved:

- (a) Approving Minutes of Regular Meeting of March 18, 2019 Approving Minutes of Regular Meeting of March 25, 2019 Approving Minutes of Workshop Dinner Meeting of April 22, 2019
- (b) Authorizing the City Manager to Enter into an Agreement for Federal Land and Water Conservation Funding Through the State of Washington Recreation and Conservation Office for \$448,000 for the Hidden Lake Dam Removal Project
- (c) Authorizing the City Manager to Execute an Agreement with the Transportation Improvement Board to obligate \$500,000 for the Complete Streets Work Program
- 8. ACTION ITEMS
 - (a) Adopting Resolution No. 434 Adopting the 2020-2025 Transportation Improvement Plan

Nytasha Walters, Transportation Services Manager, presented the Transportation Improvement Plan (TIP) for adoption. She reviewed the updates and listed an additional Council-proposed TIP update which would add NE 200th Street sidewalk improvements as a separate unfunded project. She shared additional details on the ranking of NE 200th Street sidewalk in the 2018 Sidewalk Prioritization Plan and said staff recommends adoption of Resolution No. 434 without adding the project to the TIP.

Councilmember Scully moved to adopt Resolution No. 434 as proposed by Staff. The motion was seconded by Deputy Mayor McConnell.

Councilmember Scully said he is aware of the public comment submitted regarding this Resolution and is confident that the current TIP as proposed by staff reflects the Council's priorities.

Councilmember Roberts moved to amend the TIP by adding Northeast 200th Street Sidewalk Improvements as an unfunded project in the 2020-2025 TIP. The motion was seconded by Councilmember Chang.

Councilmember Roberts said the Aldercrest Campus is the only school in Shoreline that does not have a sidewalk in front of it. He elaborated that the City of Lake Forest Park recently added a pedestrian flashing light in the area to improve safety and he thinks Shoreline needs to add a sidewalk as an unfunded project in the TIP and then work toward funding it through a Safe Routes to School (SRTS) grant. He said it does not change the existing prioritization but gives recognition that there is an alternative process for some sidewalk funding.

When asked if putting this on the unfunded list would change the priorities or increase the chances for securing funding for the project, Ms. Tarry clarified that the City has the ability to apply for funding through SRTS even for projects not on the TIP. Ms. Walters added that the City typically would look for funding for the high priority projects first.

Mayor Hall and Councilmembers Scully and McGlashan voiced opposition of the amendment. Councilmember Scully said an intentional sidewalk ranking system is in place. The more priorities are changed, the more political the decision-making becomes, and this should be avoided. Councilmember McGlashan agreed that Council should continue to work from the existing sidewalk prioritization list. Mayor Hall said he thinks it is fine for the Council to consider adding projects that were not originally included in the Sidewalk Prioritization Plan, but more importantly that the Plan be reviewed and updated every five to 10 years with schools being looked at all together. He said unless a project goes through the complete process of evaluation while applying all the criteria it is hard for him to want to elevate any one unique project.

Councilmember Roberts said there are only two high priority projects adjacent to schools identified on the sidewalk prioritization map, and he thinks calling out 200th Street would be invaluable for the community. Ms. Walters showed a graphic displaying the additional high priority projects in the vicinity.

The motion to amend the main motion by adding Northeast 200th Street Sidewalk Improvements as an unfunded project to the 2020-2025 TIP failed 2-5, with Councilmembers Chang and Roberts voting in favor.

Councilmember Roberts asked how the City's priority criteria are connected to requirements for SRTS project qualification. Ms. Walters explained that generally SRTS projects are evaluated based on connectivity and safety, as well as other criteria. She said that if there are circumstance

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associated with a location that would make it more competitive to the grant request, the City would not preclude taking it into consideration. She added that if no high-priority project met the qualifications for a specific funding source, the City would look elsewhere on the prioritized list to determine a suitable project. Councilmember Roberts confirmed that the sidewalk prioritization matrix is a guideline, but if there are circumstances or opportunities present that would support funding of an alternative project, the City would take advantage of it.

When asked to identify the opportunities for school communities to advocate for locations they feel would benefit from SRTS, Ms. Walters said Schools can make a case for these projects by contacting the City or by applying directly.

The main motion was approved unanimously, 7-0.

- 9. STUDY ITEMS
 - (a) Discussing Ordinance No. 856 Amending the Shoreline Master Program Pursuant to the Periodic Review Required by the Shoreline Management Act

Miranda Redinger, Senior Planner, delivered the staff report. She was joined by Rachael Markle, Planning and Community Development Director. Ms. Redinger reviewed the background and review requirements of the Shoreline Master Program (SMP). She said the Planning Commission discussed the SMP at three meetings and held a joint public Hearing with Ecology in April 2019 prior to making a unanimous recommendation for Council. She identified the locations and regulations of the Shoreline Management Act and listed the proposed revisions and described them as either required or recommended by the State or recommended by the City. She displayed a map of the included areas and shared the City recommended Comprehensive Plan changes. She recognized the work of the Planning Commission and listed the public and stakeholder outreach efforts and reminded Council of the next steps prior to potential adoption on June 17, 2019.

It was asked why the only shoreline homes identified were only those on Appletree Lane. Ms. Redinger explained that these homes are the only ones within the 200' ordinary high-water mark from the shoreline because the train tracks cover that area for most of Shoreline.

It was asked if an existing property within 200' of the ordinary high-water mark would be allowed to make substantial renovations or rebuild. Ms. Redinger replied that they could, since it would be defined as a nonconforming lot allowance. She said the houses on Appletree Lane are grandfathered in for various reasons. Ms. Markle added that you cannot go any closer to the high-water mark. Ms. Redinger explained that repairing bulkheads is categorically exempt from the Shoreline Municipal Code requirements unless it is in the water.

Councilmember Roberts pointed out a duplication of language and asked staff to look into if it is an error or needs clarification.

Mayor Hall thanked staff for the outreach performed to ensure the community understands this project. He said since the required and recommended changes from Ecology were submitted after

the Planning Commission's recommendation, Council would need to amend the Ordinance when it returns to a meeting as an Action item.

10. ADJOURNMENT

At 7:56 p.m., Mayor Hall declared the meeting adjourned.

Jessica Simulcik Smith, City Clerk

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorizing the City Manager to Enter into an Agreement with The Blueline Group, LLC in the Amount of \$245,000 for Development Review Services for Sound Transit				
DEPARTMENT:	Public Works				
PRESENTED BT:	Theia Junnke, City Engineer				
ACTION:	Ordinance Resolution X Motion Discussion Public Hearing				

PROBLEM/ISSUE STATEMENT:

In March 2019, the Term Limited Employee providing development review services for the Sound Transit Lynnwood Link Extension (LLE) project left employment with the City. Rather than hire another term-limited employee, staff has opted to utilize a consultant to provide this service through the end of 2019. Blueline Group, LLC has been providing On-Call Development Review Services through an On-Call Contract for Development Review Support and was able to quickly provide the staff needed to continue to support the on-going LLE project review and permitting.

Based on the schedule for the LLE project permitting and in alignment with the original intention for Development Review Support through the end of 2019, the need for this development review and permitting support will continue through the end of 2019. This on-going need exceeds the volume and scale intended in the On-Call Contract for Development Review, and therefore a new contract is needed specifically for the LLE project. Tonight, Council is being asked to authorize the City Manager to execute a contract with the Blueline Group in the amount of \$245,000 for this purpose.

RESOURCE/FINANCIAL IMPACT:

The costs for this contract are directly reimbursed by Sound Transit through the Expedited Permitting and Reimbursement Agreement for the Lynnwood Link Extension Project.

RECOMMENDATION

Staff recommends that the City Council authorize the City Manager to execute a contract with The Blueline Group, LLC in the amount of \$245,000 for development review services for support of the Sound Transit Lynnwood Link Extension project.

BACKGROUND

In March 2019, the Term Limited Employee providing development review services for the Sound Transit Lynnwood Link Extension (LLE) project left employment with the City. Permit applications for the Sound Transit LLE project had recently been submitted and were under review. The timing of this vacancy left an immediate need to fill the role for Sound Transit Development Review to maintain the schedule for permit issuance and the start of construction.

Development review for LLE project is within the scope of work of the On-Call Development Review contract and staff requested the services of a full time Development Review Engineer. The Blueline Group was able to accommodate the request and provided a Development Review Engineer on March 27, 2019.

The City Council authorized the City Manager to execute Contract No. 9210 for On-Call Development Review with The Blueline Group, LLC in the amount of \$120,000 on January 28, 2019. Although this Sound Transit LLE review work falls within that scope of work of that contract, staff did not anticipate the need for a full time Sound Transit Development Review Engineer and estimated the contract amount based on a maximum of two to three development reviews per week through the end of 2020.

The On-Call Development Review contract enabled the City to quickly continue with the plan and permit review on the project. However, the on-going fulltime support falls outside the scope and budget of the contract and a new contract is warranted. Staff anticipates the need for full-time development review to see all Sound Transit permits through issuance and transition to construction to continue through the end of 2019. The cost to continue this support thought the end of 2019 is \$245,000.

DISCUSSION

The Blueline Group was selected for the On-Call Development Review Support through a competitive Request for Qualification (RFQ) Process in 2019 (Contract No. 9210). The scope for this contract is essentially the same as the tasks being performed under Contract No. 9210. Given both the need for immediate review services and the fact the Blueline Group has provided excellent support under their existing contract, staff believes engaging in another RFQ process would result in delay and/or unduly burden City staff. Shoreline Municipal Code (SMC) Section 2.60.070(D) permits the City Manager to waive the RFQ process and allow for the acquisition of services in such a situation. The City Manager has granted staff's request for a waiver of the RFQ process.

The alternatives considered to provide this support include:

 Contract with the Blueline Group LLC (recommended) – The Blueline Group have provided excellent support under difficult circumstances with the loss of the Term Limited Personnel. Continuing with the same Blueline Group personnel that has provided support for the past several months best serves the delivery of the permits by not having another transition to new staffing.

- Fill the vacancy with another Term Limited position (not recommended) as the term of the position was through the end of 2019, it would be difficult to hire someone for such a limited duration. In addition, the time it takes to hire staff is typically a couple of months, further reducing the duration of the term of employment. Finally, in the current employment environment, it might be difficult to attract qualified personnel to fill this role.
- 3. Utilize existing staff (not recommended) there is not adequate capacity within the Development Review Engineering Team to provide full time review support for the remainder of the year. Switching resources to this project would result in significant delays to review of other development projects.

Staff recommends contracting with the Blueline Group as it meets the needs of the LLE project without impacting customer service to other development projects within the City.

RESOURCE/FINANCIAL IMPACT

The cost for the Sound Transit LLE Development Review Contract is directly reimbursed through the Expedited Permitting and Reimbursement Agreement for the Lynnwood Link Project.

RECOMMENDATION

Staff recommends that the City Council authorize the City Manager to execute a contract with The Blueline Group, LLC in the amount of \$245,000 for development review services for support of the Sound Transit Lynnwood Link Extension project.

ATTACHMENTS

Attachment A: Blueline Group Contract Scope of Work

The Blueline Group LLC shall provide Civil Site Development Review services including, but not limited to, the following tasks:

- 1. Review permit plans and documentation to determine compliance with City codes, Ronald Wastewater District utility codes, Department of Ecology stormwater requirements and other relevant codes, regulations, and statutes.
- 2. Prepare review comment letters for distribution to permit applicants.
- 3. Provide assigned personnel at Shoreline City Hall to answer questions from applicants, developers, citizens and other parties, as directed by the City's project manager.
- 4. Communicate with City Staff and applicants on the status of permits and review issues.



2019 HOURLY RATE SCHEDULE

Principal Engineer	\$210/hr
Senior Project Manager	\$194/hr
Project Manager	\$184/hr
Senior Project Engineer	\$184/hr
Project Engineer	\$173/hr
Engineer	\$153/hr
Construction Administration	\$165/hr
Construction Inspector	\$120/hr
Senior Engineering Designer	\$153/hr
Engineering Designer	\$140/hr
Senior Engineering Drafter	\$135/hr
Engineering Drafter	\$122/hr
Planning Manager	\$165/hr
Project Planner	\$153/hr
Planner	\$135/hr
Assistant Planner	\$122/hr
Permitting Coordinator	\$90/hr
Principal Landscape Architect	\$142/hr
Landscape Project Manager	\$130/hr
Landscape Designer	\$95/hr
Landscape Technician	\$85/hr
Project Administrator	\$90/hr

Notes:

Standard hourly rates include expenses for telephone, fax, photocopies (letter and legal size), and postage. Please refer to The Blueline Group's standard contract regarding the firm's policy regarding other project expenses.

2019 PLOTTING RATE SCHEDULE

11" x 17" Bond	\$0.75/sheet
18" x 24" Bond	\$3.05/sheet
22" x 34" Bond	\$3.45/sheet
24" x 36" Bond	\$3.70/sheet
30" x 42" Bond	\$4.35/sheet
36" x 48" Bond	\$5.00/sheet

Notes:

• Plotting rates are reviewed annually and adjusted accordingly and include 10% Sales Tax.

2019 MILEAGE RATE SCHEDULE

Vehicle mileage as measured from the Consultant's Kirkland, Washington office to the project site shall be reimbursed at the then-current Privately Owned Vehicle (POV) mileage reimbursement rates established by the U.S. General Services Administration.

NOTE: ALL RATES ARE EFFECTIVE JANUARY 1, 2019, ARE REVIEWED ANNUALLY AND ARE ADJUSTED ACCORDINGLY.

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Authorizing the City Manager to Execute Amendment No. 3 to Contract No. 8630 with AECOM Technical Services for Construction Administration and Document Control Services in Amount Not to Exceed \$115,000				
DEPARTMENT: PRESENTED BY:	Public Works Tricia Juhnke, City Engineer				
ACTION:	Ordinance ResolutionX Motion Discussion Public Hearing				

PROBLEM/ISSUE STATEMENT:

Staff is requesting Council to authorize the City Manager to execute Amendment No. 3 to Contract No. 8630 with AECOM Technical Services to provide construction administration and document control services in support of the 2019-2024 Capital Improvement Plan (CIP). This amendment will increase the AECOM contract amount by \$115,000 from \$364,688.62 to \$479,688.62 to continue contract administration and document control services through the end of 2019.

RESOURCE/FINANCIAL IMPACT:

Funding for this contract comes from approved projects included in the 2019-2024 CIP. These expenditures are already programmed into the approved project budgets.

RECOMMENDATION

Staff recommends that Council move to authorize the City Manager to execute Amendment No. 3 to Contract No. 8630 with AECOM Technical Services for contract administration and document control services in an amount not to exceed \$115,000.

BACKGROUND

On February 13, 2017, Council authorized the City Manager to execute a contract with AECOM Technical Services to provide contract administration and document control services. The staff report for this initial contract award can be found at the following link:

http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2017/staff report021317-7k.pdf.

Contract No. 8630 with AECOM was executed on March 28, 2017 for an amount of \$178,801.13. There have been two (2) amendments to this contract since that time: Amendment No. 1 to increase the contract amount by \$185,887.49 for a total contract amount of \$364,688.62, and Amendment No. 2 to extend the contract expiration date to December 31, 2019. Amendment No. 3 is expected to be the final amendment to this contract and will provide budget to complete contract administration and document control services through the 2019 construction season.

In 2017, the decision was made to contract for these services. Currently, staff intends to continue contracting these services in 2020 and beyond. In late 2019, staff will issue a Request for Qualifications (RFQ) to solicit these services for the upcoming 2020-2025 CIP.

DISCUSSION

This amendment will increase the contract amount by \$115,000.00 from \$364,688.62 to \$479,688.62 to continue contract administration and document control services through the end of 2019. Examples of projects identified in the CIP that will utilize this support include:

- Meridian and 155th Intersection Improvements (federally funded),
- Annual Road Surface Maintenance Program,
- WTSC School Zone Flashers,
- 2019 Pavement Marking, and
- Westminster and 155th Improvements.

Consultant Selection

In 2017, AECOM was selected through a competitive process. RFQ No. 8630 was issued and three Statements of Qualifications were received. Two firms were interviewed, and AECOM was selected as the best qualified to meet the needs of this contract. The scope of work for this amendment remains within the scope of work of the original RFQ No. 8630; no other selection process was needed.

The alternative to not authorizing the execution of this amendment would result in not having adequate resources to properly manage projects that are ready to go to construction. The Meridian and 155th Intersection Improvement project has federal funds which require additional and more stringent requirements for Document Control.

RESOURCE/FINANCIAL IMPACT

Funding for this contract comes from approved projects included in the 2019-2024 CIP. These expenditures are already programmed into the approved project budgets.

RECOMMENDATION

Staff recommends that Council move to authorize the City Manager to execute Amendment No. 3 to Contract No. 8630 with AECOM Technical Services for contract administration and document control services in an amount not to exceed \$115,000.

ATTACHMENTS

Attachment A: AECOM Technical Services Supplemental Agreement



Supplemental Agreement	Organization and Address		
Number <u>8630.03</u>	AECOM Technical Services, Inc. 1111 3rd Ave., Suite 1600 Seattle, WA 98101		
Original Agreement Number			
	Phone:		
Project Number	Execution Date	Completion Date	
2019-2024 CIP	3/28/17	12/31/19	
Project Title	New Maximum Amount Payable		
Construction Administration and Doc Control Support	\$364,688.62		

Description of Work

No changes to scope of work. Adding budget to allow for services to continue into 2019 on the following projects: Meridian and 155th Intersection Improvements (federally funded), Annual Road Surface Maintenance Program, WTSC School Zone Flashers, 2019 Pavement Marking and Westminster and 155th Improvements.

The Local Agency of **City of Shoreline**

desires to supplement the agreement entered in to with AECOM Technical Services, Inc.

and executed on <u>3/28/17</u> and identified as Agreement No. <u>8630</u>

All provisions in the basic agreement remain in effect except as expressly modified by this supplement.

The changes to the agreement are described as follows:

Section 1, SCOPE OF WORK, is hereby changed to read:

No changes to Scope of Work. Budget added to account for work in 2019.

Section IV, TIME FOR BEGINNING AND COMPLETION, is amended to change the number of calendar days for completion of the work to read: <u>Completion Date: December 31, 2019</u>

Section V, PAYMENT, shall be amended as follows: No changes to Payment Provisions.

as set forth in the attached Exhibit A, and by this reference made a part of this supplement. If you concur with this supplement and agree to the changes as stated above, please sign in the Appropriate spaces below and return to this office for final action.

Ву:	By:
Consultant Signature	Approving Authority Signature
	Date

Exhibit "A" Summary of Payments

	Basic Agreement + Supplement 1 and 2	Supplement #3	Total
Direct Salary Cost			
Overhead (Including Payroll Additives)			
Direct Non-Salary Costs			
Fixed Fee			
Total	\$364,688.62	\$115,000.00	\$479,688.62

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Adopting Ordinance No. 861 - 2019-2020 Biennial Budget Amendment Amending Ordinance No. 855 for Phase 1 Improvements of the City Maintenance Facility					
DEPARTMENT:	Administrative Services					
PRESENTED BY:	Sara Lane, Administrative Services Director					
	Rick Kirkwood, Budget and Tax Manager					
ACTION:	<u>X</u> Ordinance <u>Resolution</u> Motion <u>Discussion</u> Public Hearing					

PROBLEM/ISSUE STATEMENT:

On April 22, 2019, staff provided an update on the Distributed City Maintenance Facility (CMF) Analysis completed by TCF Architecture to the City Council, including completed conceptual design alternatives and cost estimates. Staff sought, and the City Council provided direction, regarding moving forward on Phase 1 of the CMF improvements and developing a budget amendment to appropriate funds in the General Fund and Surface Water Utility Fund to provide contributions to the General Capital Fund necessary to fund the Phase 1 improvements. Further, on May 20, 2019, staff asked for authorization to purchase a modular building to be placed at the North Maintenance Facility (NMF) site as part of the CMF Phase 1 "early work".

The amended 2019-2020 Capital Improvement Program (CIP) includes appropriations for the CMF project totaling \$391,789. The project is estimated to cost \$30.587 million (in 2020 dollars); however, an increase of the 2019-2020 budget for the CMF project to \$1,746,614 is necessary to ensure Phase 1 improvements expected to be completed in this biennium will not have an adverse impact on other projects in the General Capital Fund.

The 2019-2020 Biennial Budget reflects the designation of \$4.0 million of the General Fund's fund balance for the CMF project by the end of the biennium; however, no use of this fund balance for this project has been appropriated. Within the Surface Water Utility Fund, deferral of the 25th Avenue NE Flood Reduction Improvement project is needed based on the CMF project schedule, which makes capital funding available for the Surface Water Utility's share of the Phase 1 improvements. A portion of the General Fund's fund balance will cover the Street Fund's contribution as well as the Wastewater Utility's share of the Phase 1 improvements until reimbursement can be accomplished upon assumption of the Ronald Wastewater District. Therefore, staff proposes amending the 2019-2020 Biennial Budget by increasing appropriations to provide transfers to the General Capital Fund from the General Fund, in the amount of \$1,112,254, and Surface Water Utility Fund, in the amount of \$242,571, and increasing appropriations in the General Capital Fund by \$1,354,825.

On June 3, staff presented to the City Council proposed Ordinance No. 861 (Attachment A), which provides for this amendment and is presented tonight for the City Council's adoption.

FINANCIAL IMPACT:

Adoption of proposed Ordinance No. 861 impacts expenditures and resources, as follows:

- Increases 2019-2020 biennium appropriations for capital expenditures, as follows:
 - City Maintenance Facility project in the General Capital Fund by \$1,354,825, thereby increasing the 2019-2020 project budget to \$1,746,614
- Increases 2019-2020 biennium appropriations for transfers out, as follows:
 - General Fund of \$1,112,254 to the General Capital Fund
 - Surface Water Utility Fund of \$242,571 to the General Capital Fund
- Provides transfers in, as follows:
 - General Capital Fund of \$1,354,825 from the General Fund (\$1,112,254) and Surface Water Utility Fund (\$242,571)
- Uses available fund balance totaling \$1,112,254 in the General Fund and \$242,571 in the Surface Water Utility Fund

The net impact of proposed Ordinance No. 861 is an increase in 2019-2020 biennium appropriations totaling \$2,709,650 comprised of expenditure appropriations totaling \$1,354,825 and interfund transfers totaling \$1,354,825.

RECOMMENDATION

Staff recommends that the City Council adopt Ordinance No. 861, amending the 2019-2020 Biennial Budget.

Approved By: City Manager DT City Attorney MK

BACKGROUND

On April 22, 2019, staff provided an update on the Distributed City Maintenance Facility (CMF) Analysis completed by TCF Architecture to the City Council, including completed conceptual design alternatives and cost estimates. The staff report for this Council discussion is available at the following link:

http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff report042219-9b.pdf.

Further, on May 20, 2019, staff asked for authorization to purchase a modular building to be placed at the North Maintenance Facility (NMF) site as part of the CMF Phase 1 "early work". That staff report noted the current budget is not sufficient to cover the cost of the facilities for the Grounds Maintenance crew use at the NMF site. The staff report is available for this Council discussion at the following link:

http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff report052019-7e.pdf.

The amended 2019-2020 Capital Improvement Program (CIP) includes appropriations for the CMF project totaling \$391,789. The anticipated expenditures and revenues to support phasing of the CMF project are shown in the table below:

	Estimated Amounts (\$ in Thousands)				
	Phase 1			Future	
Project Work Item	2019	2020	2021	Phases*	Total
Expenditures					
Staff Time	\$54	\$45	\$45	\$135	\$279
Distributed Facilities Study	\$40				\$40
NMF Site – Early work	\$716				\$716
NMF Site – 25 th Ave NE Frontage				\$440	\$440
NMF Site – Ballinger Wy Frontage				\$812	\$812
NMF Site – Design		\$116		\$348	\$464
NMF Site – Construction				\$3,936	\$3,936
Brightwater Site – Design	\$188	\$188			\$376
Brightwater Site – Construction			\$3,169		\$3,169
Hamlin Yard – Design		\$400		\$1,225	\$1,625
Hamlin Yard – Temp. Relocation				\$1,000	\$1,000
Hamlin Yard – All Park Frontage				\$2,730	\$2,730
Hamlin Yard – Construction				\$15,000	\$15,000
Total Expenditures	\$998	\$749	\$3,214	\$25,626	\$30,587
Resources					
2019-2024 CIP Budget	\$358	\$33	\$0	\$0	\$392
Unprogrammed Funding	\$640	\$715	\$3,214	\$25,626	\$30,195
Total Revenues	\$998	\$749	\$3,214	\$25,626	\$30,587

Estimated Expenditures and Resources (may not foot due to rounding)

* Phase 1 2021 costs and Future Phases costs are estimated in 2020 dollars and will require escalation for future budgeting.

Estimated expenditures listed in the above table were created using preliminary design information developed in late 2018 and escalated to 2020 dollars. As the project progresses, refined cost estimates will be presented in future CIP updates and appropriated in future biennial budgets.

Funding source allocations were estimated by fund whose operations have maintenance activities served by the Phase 1 and overall CMF improvements. The seven key City user groups are: Streets Operations, Grounds Maintenance, Parks Operations, Surface Water and Wastewater maintenance crews, as well as Police and Facilities/Fleet. Staff finalized the allocation methodology and determined the appropriate mix of funding sources. The estimated Phase 1 improvement costs by fund and year are shown in the table below:

	-	-		
Fund	2019	2020	2021	Total
General Fund	\$462,273	\$330,994	\$983,532	\$1,776,799
Street Fund	\$376,671	\$295,235	\$1,166,095	\$1,838,001
Surface Water Fund	\$139,903	\$102,668	\$987,388	\$1,229,959
Wastewater Fund	\$19,267	\$19,603	\$77,140	\$116,010
Total	\$998,114	\$748,500	\$3,214,155	\$4,960,769

Estimated Phase 1 Improvement Costs by Fund and Year

The 2019-2020 Biennial Budget reflects the designation of \$4.0 million of the General Fund's fund balance for the CMF project by the end of the biennium; however, no use of this fund balance for this project has been appropriated. Within the Surface Water Utility Fund, construction funding for daylighting and floodplain storage work is currently programmed under the 25th Avenue NE Flood Reduction Improvement project as a 2023 expenditure; however, deferral is needed based on the CMF project schedule, which makes capital funding available for the Surface Water Utility's share of the Phase 1 improvements. A portion of the General Fund's fund balance will cover the Street Fund's contribution as well as the Wastewater Utility's share of the Phase 1 improvements until reimbursement can be accomplished upon assumption of the Ronald Wastewater District.

An update of the six-year CIP will be presented later this year reflecting the \$3.2 million budget necessary to complete the balance of Phase 1 improvements in 2021, which will be programmed with adoption of the 2021-2022 Biennial Budget. The City has applied for a \$500,000 state capital budget request to partially fund 2020-2021 design and construction of improvements at the Brightwater site. This funding is listed in the final state capital budget. Timing and means for obtaining this funding have not yet been determined but is currently assumed to be applicable to 2021 project expenditures.

Expenditures for future phases are estimated to total \$25.6 million (2020 dollars) to finish design and construction of the CMF improvements. Final design of the North Maintenance Facility (NMF) site will be tentatively scheduled in the CIP in the 2021-2022 biennium and construction in the 2023-2024 biennium with Hamlin Yard improvements following that effort, which is outside of the current six-year CIP.

DISCUSSION

As was noted above, the amended 2019-2020 CIP includes appropriations for the CMF project totaling \$391,789. An increase of the 2019-2020 budget for the CMF project to \$1,746,614 is necessary to ensure Phase 1 improvements expected to be completed in this biennium will not have an adverse impact on other projects in the General Capital Fund.

Staff proposes amending the 2019-2020 Biennial Budget by increasing appropriations to provide transfers to the General Capital Fund from the General Fund, in the amount of \$1,112,254, and Surface Water Utility Fund, in the amount of \$242,571 and increasing appropriations in the General Capital Fund by \$1,354,825. On June 3, staff presented to the City Council proposed Ordinance No. 861 (Attachment A), which provides for this amendment and is presented tonight for the City Council's adoption. The staff report is available at the following link:

http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff report060319-9a.pdf.

ALTERNATIVES ANALYZED

Alternative 1: Take no action

If the City Council chooses to not approve proposed Ordinance No. 861, there would not be sufficient budget authority to complete Phase 1 improvements for the City Maintenance Facility project, including facilities for the Grounds Maintenance crew use, within the proposed schedule without impacting other projects in the General Capital Fund.

Alternative 2: Approve Ordinance No. 861 (Recommended)

Approval of proposed Ordinance No. 861 will provide the budget authority to cover the cost of the Phase 1 improvements for the City Maintenance Facility project within the proposed schedule and without impacting other projects in the General Capital Fund.

FINANCIAL IMPACT

Adoption of proposed Ordinance No. 861 impacts expenditures and resources, as follows:

- Increases 2019-2020 biennium appropriations for capital expenditures, as follows:
 - City Maintenance Facility project in the General Capital Fund by \$1,354,825, thereby increasing the 2019-2020 project budget to \$1,746,614.
- Increases 2019-2020 biennium appropriations for transfers out, as follows:
 - General Fund of \$1,112,254 to the General Capital Fund
 - Surface Water Utility Fund of \$242,571 to the General Capital Fund
- Provides transfers in, as follows:
 - General Capital Fund of \$1,354,825 from the General Fund (\$1,112,254) and Surface Water Utility Fund (\$242,571)

• Uses available fund balance totaling \$1,112,254 in the General Fund and \$242,571 in the Surface Water Utility Fund

The net impact of proposed Ordinance No. 861 is an increase in 2019-2020 biennium appropriations totaling \$2,709,650 comprised of expenditure appropriations totaling \$1,354,825 and interfund transfers totaling \$1,354,825.

RECOMMENDATION

Staff recommends that the City Council adopt Ordinance No. 861, amending the 2019-2020 Biennial Budget.

ATTACHMENTS

Attachment A: Proposed Ordinance No. 861

ORDINANCE NO. 861

AN ORDINANCE OF THE CITY OF SHORELINE, WASHINGTON, AMENDING THE 2019-2020 FINAL BUDGET BY INCREASING APPROPRIATIONS IN THE GENERAL FUND, GENERAL CAPITAL FUND, AND SURFACE WATER UTILITY FUND.

WHEREAS, the 2019-2020 Final Budget was adopted by Ordinance No. 841 and subsequently amended by Ordinance Nos. 852, 854 and 855; and

WHEREAS, on April 22, 2019, the City Council discussed various scenarios for the City Maintenance Facility and determined that Scenario A provides the best long-term, holistic approach for the project; and

WHEREAS, on May 20, 2019, the City Council authorized the purchase of a modular building to be placed at the North Maintenance Facility site as part of the City Maintenance Facility Phase 1 "early work"; and

WHEREAS, an increase of the 2019-2020 budget for the City Maintenance Facility project is necessary to ensure Phase 1 improvements expected to be completed in this biennium will not have an adverse impact on other projects in the General Capital Fund; and

WHEREAS, funding source allocations were estimated by fund whose operations have maintenance activities served by the Phase 1 and overall City Maintenance Facility improvements, including Streets Operations, Grounds Maintenance, Parks Operations, Surface Water and Wastewater maintenance cres, as well as Police and Facilities/Fleet; and,

WHEREAS, a portion of the General Fund's fund balance will cover the Street Fund's contribution as well as the Wastewater Utility's share of the Phase 1 improvements until reimbursement can be accomplished upon assumption of the Ronald Wastewater District; and

WHEREAS, the City of Shoreline is required by RCW 35A.33.075 to include all revenues and expenditures for each fund in the adopted budget and, therefore, the 2019-2020 Final Budget, as amended, needs to be amended to reflect the increases and decreases to the City's funds;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. Amendment – 2019-2020 Final Budget. The City hereby amends the 2019-2020 Final Budget, as adopted by Ordinance No. 841 and amended by Ordinance Nos. 852, 854, and 855 by increasing the appropriation for the General Fund by \$1,112,254; for the General Capital Fund by \$1,354,825; and for the Surface Water Utility Fund by \$242,571; and by increasing the Total Funds appropriation to \$209,744,780, as follows:

	Current	Revised
Fund	Appropriation	Appropriation
General Fund	\$97,852,409	\$98,964,663
Street Fund	3,975,505	3,975,505
Code Abatement Fund	200,000	200,000
State Drug Enforcement Forfeiture Fund	46,718	46,718
Public Arts Fund	268,717	268,717
Federal Drug Enforcement Forfeiture Fund	26,000	26,000
Property Tax Equalization Fund	0	0
Federal Criminal Forfeiture Fund	0	0
Transportation Impact Fees Fund	162,000	162,000
Park Impact Fees Fund	175,000	175,000
Revenue Stabilization Fund	0	0
Unltd Tax GO Bond 2006	3,389,937	3,389,937
Limited Tax GO Bond 2009	3,320,072	3,320,072
Limited Tax GO Bond 2018	1,660,400	1,660,400
Limited Tax GO Bond 2013	519,771	519,771
General Capital Fund	33,321,386	34,676,211
City Facility-Major Maintenance Fund	288,936	288,936
Roads Capital Fund	35,116,539	35,116,539
Surface Water Capital Fund	19,734,665	19,977,236
Wastewater Utility Fund	4,931,699	4,931,699
Vehicle Operations/Maintenance Fund	1,088,547	1,088,547
Equipment Replacement Fund	921,829	921,829
Unemployment Fund	35,000	35,000
Total Funds	\$207,035,130	\$209,744,780

Section 2. Corrections by City Clerk or Code Reviser. Upon approval of the City Attorney, the City Clerk and/or the Code Reviser are authorized to make necessary corrections to this ordinance, including the corrections of scrivener or clerical errors; references to other local, state, or federal laws, codes, rules, or regulations; or ordinance numbering and section/subsection numbering and references.

Section 3. Severability. Should any section, paragraph, sentence, clause or phrase of this ordinance, or its application to any person or circumstance, be declared unconstitutional or otherwise invalid for any reason, or should any portion of this ordinance be preempted by state or federal law or regulation, such decision or preemption shall not affect the validity of the remaining portions of this ordinance or its application to other persons or circumstances.

Section 4. Effective Date. A summary of this ordinance consisting of its title shall be published in the official newspaper of the City. The ordinance shall take effect and be in full force five days after passage and publication.

PASSED BY THE CITY COUNCIL ON JUNE 17, 2019

Mayor Will Hall

ATTEST:

APPROVED AS TO FORM:

Jessica Simulcik Smith City Clerk Margaret King City Attorney

Publication Date:, 2019Effective Date:, 2019

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Adopting Ordinance No. 862 - Authorizing the Refunding of Limited Tax General Obligation Bonds (City Hall)		
DEPARTMENT: PRESENTED BY:	Administrative Services Department Sara Lane, Administrative Services Director		
ACTION:	<u>X</u> Ordinance <u>Resolution</u> Motion Discussion <u>Public Hearing</u>		

PROBLEM/ISSUE STATEMENT:

Bond refinancing (refunding) is an important debt management tool for state and local government issuers. Refunding bonds are commonly issued to achieve interest cost savings, remove or change burdensome bond covenants, or restructure the stream of debt service payments. Proposed Ordinance No. 862 authorizes the refunding of all or a portion of the City's outstanding Limited Tax General Obligation Bonds, Series 2009B (Taxable Build America Bonds – Direct Payment) that were issued in 2009 (the "2009 Bonds") for the construction of Shoreline City Hall. The City Council discussed Ordinance No. 862 on June 3, 2019 and directed staff to return the Ordinance for adoption on the consent calendar. Tonight's action would adopt proposed Ordinance No. 862.

RESOURCE/FINANCIAL IMPACT:

The refunding of the 2009 Bonds is estimated to provide net interest savings of approximately \$2,600,000 (present value of \$2,079,000 and 11.1% of refunded bonds).

RECOMMENDATION

Staff recommends that Council adopt Ordinance No. 862 authorizing the refunding of the City's 2009 LTGO Build America Bonds.

INTRODUCTION

Bond refinancing (refunding) is an important debt management tool for state and local government issuers. Refunding bonds are commonly issued to achieve interest cost savings, remove or change burdensome bond covenants, or restructure the stream of debt service payments. The City has one debt issue that is currently a good candidate for refunding. The Government Finance Officers Association (GFOA) recommends that present value savings from refunding's be at least 3.00%. Proposed Ordinance No. 862 provides for the refunding of this issue.

The City Council discussed proposed Ordinance No. 862 on June 3, 2019. The staff report for this Council discussion is available at the following link: http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff report060319-9b.pdf.

At the June 3 Council discussion, Council directed staff to return the proposed Ordinance for adoption on the consent calendar. Tonight's action would adopt proposed Ordinance No. 862.

BACKGROUND

In July 2009, the City issued \$18,340,000 in councilmanic Limited Tax General Obligation Bonds, Series 2009B (Taxable Build America Bonds – Direct Payment) (the "2009 Bonds") for construction of City Hall. These bonds mature between 2019 and 2039 with interest rates ranging from 4.69% to 6.40%. Build America Bonds were offered as an incentive to build during the economic downturn and provide a subsidy for a portion of the interest by the Federal Government.

While the interest rates on these bonds are all very good, the current bond market offers savings that make refunding beneficial to the City and its taxpayers. Staff has worked with Fred Eoff from PFM Financial Advisors, LLC, the City's financial advisor, to monitor the bond market and determine whether refunding might be advantageous to the City. Based on an analysis of the City's current debt and the market, staff is recommending that Council approve a delegating ordinance that authorizes staff to pursue refunding of the debt at any time in the next 12 months. Proposed Ordinance No. 862 (Attachment A) would provide for this refunding.

Council may recall authorizing a similar refunding in November 2016 via <u>Ordinance No.</u> <u>764</u>. Unfortunately, market changes in response to the general election and subsequent tax law changes eliminated the ability to proceed with that refunding. Recent, and anticipated, market changes have again made the refunding possible and beneficial.

Refunding of these bonds is estimated to provide annual savings averaging \$122,000 per year commencing in 2020. The net present value savings of the complete refunding is estimated to be \$2.08 million (approximately 11.1% of the par amount of the refunded 2009 Bonds). Savings is valued by comparing new debt service versus prior debt service after deduction of the Federal subsidy.

Bond Method of Sale

The delegating ordinance provides the City the option to do either a public sale (also referred to as Underwritten Bonds) or a private placement (also referred to as Direct Purchase Bonds). Depending on market conditions, the City may pursue an RFP for potential investors as a private placement. Due to the size of this financing, however, the City's financial advisor has indicated that this sale may be more advantageous as a competitive publicly offered sale.

Bond Refunding Parameters

In the delegating ordinance, Council authorizes the sale of refunding bonds subject to the following parameters:

- Maximum Principal Amount: \$18,000,000
- Minimum Net Present Value Savings: 3.00%
- Maturity Date: No later than 12/1/2039
- True Interest Cost (in aggregate) not to exceed: 3.50%

RESOURCE/FINANCIAL IMPACT

The refunding of the 2009 Bonds is estimated to provide net interest savings of approximately \$2,600,000 (present value of \$2,079,000 and 11.1% of refunded bonds).

RECOMMENDATION

Staff recommends that Council adopt Ordinance No. 862 authorizing the refunding of the City's 2009 LTGO Build America Bonds.

ATTACHMENTS

Attachment A: Ordinance No. 862, including Exhibit A

Attachment B: Build America Bonds Refunding Summary - LTGO Debt Service Savings Calculations from Refunding 2009 City Hall Debt

CITY OF SHORELINE, WASHINGTON

LIMITED TAX GENERAL OBLIGATION REFUNDING BONDS

ORDINANCE NO. 862

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON, AUTHORIZING THE ISSUANCE OF LIMITED TAX GENERAL OBLIGATION REFUNDING BONDS IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$18,000,000 FOR THE PURPOSE OF REFUNDING CERTAIN OUTSTANDING GENERAL OBLIGATION BONDS OF THE CITY AND PAYING COSTS OF ISSUING THE BONDS; DELEGATING CERTAIN AUTHORITY TO APPROVE THE METHOD OF SALE AND FINAL TERMS OF THE BONDS; AND AUTHORIZING OTHER MATTERS RELATED THERETO.

WHEREAS, the City of Shoreline, Washington (the "City"), issued its Limited Tax General Obligation Bonds, Series 2009B (Taxable Build America Bonds – Direct Payment) (the "2009 Bonds") in the original principal amount of \$18,340,000; and

WHEREAS, Ordinance No. 556 (the "2009 Ordinance") provides that the City may call the 2009 Bonds maturing on or after December 1, 2021 (the "Refunded Bonds"), for redemption on or after December 1, 2019, in whole or in part on any date, at the price of par plus accrued interest, if any, to the date of redemption; and

WHEREAS, the Council deems it in the best interest of the City to issue limited tax general obligation refunding bonds (as further defined herein, the "Bonds") to redeem the Refunded Bonds as described herein and to pay costs of issuing the Bonds; and

WHEREAS, the Council wishes to delegate authority to the City Manager (the "Designated Representative"), for a limited time, to select the method of bond sale for the Bonds authorized hereunder that is in the best interest of the City (if any) and to approve the interest rates, maturity dates, redemption terms and principal maturities for the Bonds within the parameters set by this ordinance, in order to effect such a refinancing; and

WHEREAS, the Bonds shall be sold by either a private placement or be underwritten, all as set forth herein;

THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. Definitions. As used in this ordinance, the following words and terms shall have the following meanings, unless the context or use indicates another or different meaning or intent. Unless the context indicates otherwise, words importing the singular number shall include the plural number and vice versa.

Acquired Obligations means the Government Obligations acquired by the City under the terms of this ordinance and each Escrow Agreement to effect the refunding of the Refunded Bonds, but only to the extent that the same are acquired at Fair Market Value.

Administrative Services Director means the City's Administrative Services Director, or the successor to such officer.

Beneficial Owner means any person that has or shares the power, directly or indirectly, to make investment decisions concerning ownership of any Underwritten Bonds (including persons holding Underwritten Bonds through nominees, depositories or other intermediaries).

Bond Counsel means Pacifica Law Group LLP or an attorney at law or a firm of attorneys, selected by the City, of nationally recognized standing in matters pertaining to the tax exempt nature of interest on bonds issued by states and their political subdivisions.

Bond Purchase Contract means one or more contracts, if any, for the purchase of any Underwritten Bonds sold by negotiated sale to the initial purchaser, executed pursuant to Section 11.

Bond Register means the registration books showing the name, address and tax identification number of each Registered Owner of the Bonds, maintained for the Bonds in the manner required pursuant to Section 149(a) of the Code.

Bond Registrar means (a) for any Underwritten Bonds, initially, the fiscal agent of the State, and (b) for any Direct Purchase Bonds, the fiscal agent of the State or the Administrative Services Director of the City.

Bonds mean the limited tax general obligation refunding bonds authorized to be issued pursuant to this ordinance.

Call Date means December 1, 2019.

Certificate of Award means one or more certificates, if any, for the purchase of any Underwritten Bonds sold by competitive sale awarding the Bonds to the bidder as set forth in Section 11 of this ordinance.

City means the City of Shoreline, Washington, a municipal corporation duly organized and existing by virtue of the laws of the State.

City Attorney means the duly appointed and acting City Attorney of the City, including anyone acting in such capacity for the position, or the successor to the duties of that office.

City Clerk means the duly appointed and acting City Clerk of the City or the successor to the duties of that office.

City Manager means the duly appointed and acting City Manager of the City or the successor to the duties of such office.

City Mayor or *Mayor* means the duly elected and acting Mayor of the City or the successor to the duties of such office.

Closing means the date of issuance and delivery of a series of Bonds to the applicable Underwriter or Direct Purchaser.

Code means the Internal Revenue Code of 1986 as in effect on the date of issuance of the Bonds or (except as otherwise referenced herein) as it may be amended to apply to obligations issued on the date of issuance of the Bonds, together with applicable proposed, temporary and final regulations promulgated, and applicable official public guidance published, under the Code.

Commission means the United States Securities and Exchange Commission.

Continuing Disclosure Certificate means one or more written undertakings for the benefit of the owners and Beneficial Owners of any Underwritten Bonds as required by Section (b)(5) of the Rule.

Council or *City Council* means the Shoreline City Council, as the general legislative body of the City, as the same is duly and regularly constituted from time to time.

Debt Service Fund means one or more funds or accounts created pursuant to this ordinance for the purpose of paying debt service on a series of Bonds.

Designated Representative means the City Manager of the City, or his or her written designee.

Direct Purchase Bonds means any Bonds or Bond sold to a Direct Purchaser pursuant to Section 11 of this ordinance.

Direct Purchaser means any bank or other financial institution selected to purchase (or to accept delivery of one or more Direct Purchase Bonds to evidence the City's obligations under a Loan Agreement) one or more Direct Purchase Bonds pursuant to Section 11 of this ordinance.

DTC means The Depository Trust Company, New York, New York, a limited purpose trust company organized under the laws of the State of New York, as depository for any Underwritten Bonds pursuant to Section 3 of this ordinance.

Escrow Agent means the trust company or state or national bank having powers of a trust company selected by the City to serve as escrow agent pursuant to Section 7 of this ordinance.

Escrow Agreement means one or more Escrow Deposit Agreements between the City and the Escrow Agent to be dated as of the date of Closing of the Bonds.

Escrow Fund means the fund or account established by the Escrow Agent under the Escrow Agreement executed in connection with the redemption of the Refunded Bonds.

Fair Market Value means the price at which a willing buyer would purchase an investment from a willing seller in a bona fide, arm's-length transaction, except for specified investments as described in Treasury Regulation § 1.148-5(d)(6), including United States Treasury obligations, certificates of deposit, guaranteed investment contracts, and investments for yield restricted defeasance escrows. Fair Market Value is generally determined on the date on which a contract to purchase or sell an investment becomes binding, and, to the extent required by the applicable regulations under the Code, the term "investment" will include a hedge.

Federal Tax Certificate means one or more certificates executed by the Administrative Services Director or City Manager setting forth the requirements of the Code for maintaining the tax exemption of interest on the Bonds to be dated as of the date of Closing for such Bonds, and attachments thereto.

Government Obligations means those obligations now or hereafter defined as such in chapter 39.53 RCW constituting direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America, as such chapter may be hereafter amended or restated.

Letter of Representations means the Blanket Issuer Letter of Representations from the City to DTC.

Loan Agreement means one or more loan or purchase agreements, if any, between the City and a Direct Purchaser under which the Direct Purchaser will make a loan to the City, evidenced by a Direct Purchase Bond, or under which the Direct Purchaser will purchase the Direct Purchase Bond.

MSRB means the Municipal Securities Rulemaking Board or any successors to its functions.

Official Statement means the disclosure document(s) prepared and delivered in connection with the issuance of any Underwritten Bonds.

Projects mean the capital projects refinanced with proceeds of the Refunded Bonds.

Record Date means the Bond Registrar's close of business on the 15th day of the month preceding an interest payment date. With respect to redemption of a Bond prior to its maturity, the Record Date shall mean the Bond Registrar's close of business on the date on which the Bond Registrar sends the notice of redemption in accordance with this ordinance.

Refunded Bonds mean the 2009 Bonds.

Registered Owner means the person named as the registered owner of a Bond in the Bond Register. For so long as the Bonds of a series are held in book entry only form, DTC or its nominee shall be deemed to be the sole Registered Owner.

Rule means the Commission's Rule 15c2-12 under the Securities Exchange Act of 1934, as the same may be amended from time to time.

Sale Document means the Bond Purchase Contract, Certificate of Award, or Loan Agreement, if any, executed by the Designated Representative in connection with the sale of the Bonds, which shall provide for the name, principal and interest payment dates and amounts, redemption/prepayment rights, description of the Refunded Bonds, and other terms to describe such Bonds as determined to be necessary by the Designated Representative.

State means the State of Washington.

2009 Bonds mean the City's Limited Tax General Obligation Bonds, Series 2009B (Taxable Build America Bonds – Direct Payment), issued pursuant to the 2009 Ordinance as described in the recitals of this ordinance.

2009 Ordinance means Ordinance No. 556 passed by the Council on July 29, 2009, authorizing the issuance of the 2009 Bonds.

Underwriter means any underwriter, in the case of a negotiated sale, or initial purchaser, in the case of a competitive sale, for any Underwritten Bonds selected pursuant to Section 11.

Underwritten Bonds means Bonds, if any, sold pursuant to a negotiated or a competitive sale by the City to an Underwriter pursuant to Section 11 of this ordinance.

Section 2. Purpose and Authorization of Bonds. For the purpose of defeasing and refunding the Refunded Bonds and paying related costs of issuance, the City is hereby authorized to issue and sell limited tax general obligation refunding bonds in an aggregate principal amount not to exceed \$18,000,000 (the "Bonds"). The Bonds shall be general obligations of the City, shall be designated "City of Shoreline, Washington, Limited Tax General Obligation Refunding Bonds, 2019," or other such designation as set forth in the applicable Sale Document. The Bonds shall be dated as of

the date of Closing of the Bonds. The Bonds shall be fully registered as to both principal and interest and shall be sold as either Direct Purchase Bonds or Underwritten Bonds. The Bonds authorized herein may be combined with other limited tax general obligation bonds of the City and sold as a single series and issue if determined to be in the best interest of the City.

Section 3. Bond Details; Registration, Exchange and Payments.

(a) Underwritten Bonds.

(1) <u>Bond Details</u>. Any Bonds may be sold as Underwritten Bonds. Underwritten Bonds shall be issued in denominations of \$5,000, or any integral multiple thereof, within a maturity; shall be numbered separately in such manner and with any additional designation as the Bond Registrar deems necessary for purposes of identification; shall bear interest payable on the dates set forth in the applicable Sale Document; and shall be subject to optional and/or mandatory redemption and mature on the dates and in the principal amounts set forth in the applicable Sale Document.

Bond Registrar/Bond Register. The City hereby specifies and (2)adopts the system of registration approved by the Washington State Finance Committee from time to time through the appointment of a state fiscal agent. The City shall cause a bond register to be maintained by the Bond Registrar. So long as any Underwritten Bonds remain outstanding, the Bond Registrar shall make all necessary provisions to permit the exchange or registration or transfer of Underwritten Bonds at its designated The Bond Registrar may be removed at any time at the option of the office. Administrative Services Director upon prior notice to the Bond Registrar and a successor Bond Registrar appointed by the Administrative Services Director. No resignation or removal of the Bond Registrar shall be effective until a successor shall have been appointed and until the successor Bond Registrar shall have accepted the duties of the Bond Registrar hereunder. The Bond Registrar is authorized, on behalf of the City, to authenticate and deliver Underwritten Bonds transferred or exchanged in accordance with the provisions of such Bonds and this ordinance and to carry out all of the Bond Registrar's powers and duties under this ordinance. The Bond Registrar shall be responsible for its representations contained in the certificate of authentication of the Bonds.

(3) <u>Registered Ownership</u>. The City and the Bond Registrar, each in its discretion, may deem and treat the Registered Owner of each Underwritten Bond as the absolute owner thereof for all purposes (except as otherwise provided in this ordinance or in the Continuing Disclosure Certificate), and neither the City nor the Bond Registrar shall be affected by any notice to the contrary. Payment of any such Underwritten Bond shall be made only as described below, but such Underwritten Bond may be transferred as provided herein. All such payments made as described below shall be valid and shall satisfy and discharge the liability of the City upon such Underwritten Bond to the extent of the amount or amounts so paid.

(4) <u>DTC Acceptance/Letters of Representations</u>. The Underwritten Bonds initially shall be held in fully immobilized form by DTC acting as depository. The City has executed and delivered to DTC the Letter of Representations. Neither the City nor the Bond Registrar shall have any responsibility or obligation to DTC participants or the persons for whom they act as nominees (or any successor depository) with respect to the Underwritten Bonds in respect of the accuracy of any records maintained by DTC (or any successor depository) or any DTC participant, the payment by DTC (or any successor depository) or any DTC participant of any amount in respect of the principal of or interest on Underwritten Bonds, any notice which is permitted or required to be given to Registered Owners under this ordinance (except such notices as shall be required to be given by the City to the Bond Registrar or to DTC (or any successor depository)), or any consent given or other action taken by DTC (or any successor depository) as the Registered Owner. For so long as any Underwritten Bonds are held by a depository, DTC or its successor depository or its nominee shall be deemed to be the Registered Owner for all purposes hereunder, and all references herein to the Registered Owners shall mean DTC (or any successor depository) or its nominee and shall not mean the owners of any beneficial interest in such Underwritten Bonds.

(5) <u>Use of Depository</u>.

(A) The Underwritten Bonds shall be registered initially in the name of "Cede & Co.", as nominee of DTC, with one Bond maturing on each of the maturity dates for the Underwritten Bonds in a denomination corresponding to the total principal therein designated to mature on such date. Registered ownership of such immobilized Bonds, or any portions thereof, may not thereafter be transferred except (i) to any successor of DTC or its nominee, provided that any such successor shall be qualified under any applicable laws to provide the service proposed to be provided by it; (ii) to any substitute depository appointed by the Administrative Services Director pursuant to subsection (B) below or such substitute depository's successor; or (iii) to any person as provided in subsection (D) below.

(B) Upon the resignation of DTC or its successor (or any substitute depository or its successor) from its functions as depository or a determination by the Administrative Services Director to discontinue the system of book entry transfers through DTC or its successor (or any substitute depository or its successor), the Administrative Services Director may hereafter appoint a substitute depository. Any such substitute depository shall be qualified under any applicable laws to provide the services proposed to be provided by it.

(C) In the case of any transfer pursuant to clause (i) or (ii) of subsection (A) above, the Bond Registrar shall, upon receipt of all outstanding Underwritten Bonds, together with a written request on behalf of the Administrative Services Director, issue a single new Underwritten Bond for each maturity then outstanding, registered in the name of such successor or such substitute depository, or their nominees, as the case may be, all as specified in such written request of the Administrative Services Director.

(D) In the event that (i) DTC or its successor (or substitute depository or its successor) resigns from its functions as depository, and no substitute
depository can be obtained, or (ii) the Administrative Services Director determines that it is in the best interest of the Beneficial Owners of the Underwritten Bonds that such owners be able to obtain physical bond certificates, the ownership of such Underwritten Bonds may then be transferred to any person or entity as herein provided, and shall no longer be held by a depository. The Administrative Services Director shall deliver a written request to the Bond Registrar, together with a supply of physical Bonds, to issue Bonds as herein provided in any authorized denomination. Upon receipt by the Bond Registrar of all then outstanding Underwritten Bonds together with a written request on behalf of the Administrative Services Director to the Bond Registrar, new Bonds shall be issued in the appropriate denominations and registered in the names of such persons as are requested in such written request.

Registration of Transfer of Ownership or Exchange; Change in (6) Denominations. The transfer of any Underwritten Bond may be registered and Underwritten Bonds may be exchanged, but no transfer of any such Underwritten Bond shall be valid unless it is surrendered to the Bond Registrar with the assignment form appearing on such Underwritten Bond duly executed by the Registered Owner or such Registered Owner's duly authorized agent in a manner satisfactory to the Bond Registrar. Upon such surrender, the Bond Registrar shall cancel the surrendered Underwritten Bond and shall authenticate and deliver, without charge to the Registered Owner or transferee therefor, a new Underwritten Bond(s) (or Underwritten Bonds at the option of the new Registered Owner) of the same series, date, maturity and interest rate and for the same aggregate principal amount in any authorized denomination, naming as Registered Owner the person or persons listed as the assignee on the assignment form appearing on the surrendered Underwritten Bond, in exchange for such surrendered and cancelled Underwritten Bond. Any Underwritten Bond may be surrendered to the Bond Registrar and exchanged, without charge, for an equal aggregate principal amount of Underwritten Bonds of the same series, date, maturity, and interest rate, in any authorized denomination. The Bond Registrar shall not be obligated to register the transfer of or to exchange any Underwritten Bond during the 15 days preceding any principal payment or redemption date.

(7) <u>Bond Registrar's Ownership of Bonds</u>. The Bond Registrar may become the Registered Owner of any Underwritten Bond with the same rights it would have if it were not the Bond Registrar, and to the extent permitted by law, may act as depository for and permit any of its officers or directors to act as a member of, or in any other capacity with respect to, any committee formed to protect the right of the Registered Owners or Beneficial Owners of Bonds.

(8) <u>Place and Medium of Payment</u>. Both principal of and interest on the Underwritten Bonds shall be payable in lawful money of the United States of America. Interest on the Underwritten Bonds shall be calculated on the basis of a year of 360 days and twelve 30-day months. For so long as all Underwritten Bonds are held by a depository, payments of principal thereof and interest thereon shall be made as provided in accordance with the operational arrangements of DTC referred to in the Letter of Representations. In the event that the Underwritten Bonds are no longer held by a depository, interest on the Underwritten Bonds shall be paid by check or draft mailed to the Registered Owners at the addresses for such Registered Owners appearing on the Bond Register on the Record Date, or upon the written request of a Registered Owner of more than \$1,000,000 of Underwritten Bonds (received by the Bond Registrar at least by the record date), such payment shall be made by the Bond Registrar by wire transfer to the account within the United States designated by the Registered Owner. Principal of the Underwritten Bonds shall be payable upon presentation and surrender of such Underwritten Bonds by the Registered Owners at the designated office of the Bond Registrar.

If any Underwritten Bond shall be duly presented for payment and funds have not been duly provided by the City on such applicable date, then interest shall continue to accrue thereafter on the unpaid principal thereof at the rate stated on such Underwritten Bonds until it is paid.

(b) *Direct Purchase Bonds.*

(1) <u>Bond Details</u>. Any Bonds may be sold as Direct Purchase Bonds. Direct Purchase Bonds shall be dated as of the date of delivery to the Direct Purchaser, shall be fully registered as to both principal and interest, shall be in one denomination, and shall mature on the date set forth in the applicable Sale Document. Direct Purchase Bonds shall bear interest from the dated date or the most recent date to which interest has been paid at the interest rate set forth in the applicable Sale Document. Interest on the principal amount of Direct Purchase Bonds shall be calculated per annum on a 30/360 basis, or as otherwise provided in the Bond and in the applicable Sale Document. Principal of and interest on Direct Purchase Bonds shall be payable at the times and in the amounts as set forth in the payment schedule attached to the Direct Purchase Bond.

(2) <u>Registrar/Bond Registrar</u>. The Administrative Services Director or the fiscal agent of the State shall act as Bond Registrar for any Direct Purchase Bonds. The Bond Registrar is authorized, on behalf of the City, to authenticate and deliver the Direct Purchase Bonds if transferred or exchanged in accordance with the provisions of the Direct Purchase Bonds and this ordinance and to carry out all of the Bond Registrar's powers and duties under this ordinance with respect to Direct Purchase Bonds.

(3) <u>Registered Ownership</u>. The City and the Bond Registrar may deem and treat the Registered Owner of any Direct Purchase Bond as the absolute owner for all purposes, and neither the City nor the Bond Registrar shall be affected by any notice to the contrary.

(4) <u>Transfer or Exchange of Registered Ownership</u>. Direct Purchase Bonds shall not be transferrable without the consent of the City unless (i) the Direct Purchaser's corporate name is changed and the transfer is necessary to reflect such change, or (ii) the transferee is a successor in interest of the Direct Purchaser by means of a corporate merger, an exchange of stock, or a sale of assets. Notwithstanding the foregoing, Direct Purchase Bonds may be transferred upon satisfaction of the requirements, if any, set forth in the applicable Sale Document and the Direct Purchase Bonds. (5) <u>Place and Medium of Payment</u>. Both principal of and interest on Direct Purchase Bonds shall be payable in lawful money of the United States of America. Principal and interest on Direct Purchase Bonds shall be payable by check, warrant, ACH transfer or by other means mutually acceptable to the Direct Purchaser and the City.

Section 4. Redemption and Purchase of Bonds.

(a) *Redemption of Bonds*. The Bonds shall be subject to mandatory redemption to the extent, if any, as set forth in the applicable Sale Document and as approved by the Designated Representative pursuant to Section 11. The Bonds shall be subject to optional redemption and/or prepayment on the dates, at the prices and under the terms set forth in the applicable Sale Document approved by the Designated Representative pursuant to Section 11.

(b) *Purchase of Bonds*. The City reserves the right to purchase any of the Bonds at any time at a price deemed reasonable by the Designated Representative.

(c) Selection of Bonds for Redemption. If the Underwritten Bonds are held in book-entry only form, the selection of particular Underwritten Bonds within a maturity to be redeemed shall be made in accordance with the operational arrangements then in effect at DTC. If the Underwritten Bonds are no longer held by a depository, the selection of such Underwritten Bonds to be redeemed and the surrender and reissuance thereof, as applicable, shall be made as provided in the following provisions of this subsection (c). If the City redeems at any one time fewer than all of the Underwritten Bonds having the same maturity date, the particular Underwritten Bonds or portions of Underwritten Bonds of such maturity to be redeemed shall be selected by lot (or in such manner determined by the Bond Registrar) in increments of \$5,000. In the case of an Underwritten Bond of a denomination greater than \$5,000, the City and the Bond Registrar shall treat each Underwritten Bond as representing such number of separate Underwritten Bonds each of the denomination of \$5,000 as is obtained by dividing the actual principal amount of such Underwritten Bond by \$5,000. In the event that only a portion of the principal sum of a Underwritten Bond is redeemed, upon surrender of such Underwritten Bond at the designated office of the Bond Registrar there shall be issued to the Registered Owner, without charge therefor, for the then unredeemed balance of the principal sum thereof, at the option of the Registered Owner, a Underwritten Bond or Bonds of like series, maturity and interest rate in any of the denominations herein authorized.

(d) *Notice of Redemption or Prepayment.*

(1) <u>Official Notice</u>. Notice of any prepayment of Direct Purchase Bonds shall be provided by the City to the Direct Purchaser as provided in the applicable Sale Document.

For so long as the Underwritten Bonds are held by a depository, notice of redemption (which notice may be conditional) shall be given in accordance with the operational arrangements of DTC as then in effect, and neither the City nor the Bond Registrar will provide any notice of redemption to any Beneficial Owners. Thereafter (if

the Underwritten Bonds are no longer held in uncertificated form), notice of redemption shall be given in the manner hereinafter provided. Unless waived by any owner of Underwritten Bonds to be redeemed, official notice of any such redemption shall be given by the Bond Registrar on behalf of the City by mailing a copy of an official redemption notice by first class mail at least 20 days and not more than 60 days prior to the date fixed for redemption to the Registered Owner of the Underwritten Bond or Bonds to be redeemed at the address shown on the Bond Register or at such other address as is furnished in writing by such Registered Owner to the Bond Registrar.

All official notices of redemption shall be dated and shall state: (A) the redemption date, (B) the redemption price, (C) if fewer than all outstanding Underwritten Bonds of such series are to be redeemed, the identification by maturity (and, in the case of partial redemption, the respective principal amounts) of the Bonds to be redeemed, (D) any conditions to redemption; (E) that (unless such notice is conditional) on the redemption date the redemption price will become due and payable upon each such Underwritten Bond or portion thereof called for redemption, and that interest thereon shall cease to accrue from and after said date, and (F) the place where such Underwritten Bonds are to be surrendered for payment of the redemption price, which place of payment shall be the designated office of the Bond Registrar.

On or prior to any redemption date, unless any condition to such redemption has not been satisfied or waived or notice of such redemption has been rescinded, the City shall deposit with the Bond Registrar an amount of money sufficient to pay the redemption price of all the Underwritten Bonds or portions of Underwritten Bonds which are to be redeemed on that date. The City retains the right to rescind any redemption notice and the related optional redemption of Underwritten Bonds by giving notice of rescission to the affected registered owners at any time on or prior to the scheduled redemption date. Any notice of optional redemption that is so rescinded shall be of no effect, and the Underwritten Bonds for which the notice of optional redemption has been rescinded shall remain outstanding.

If notice of redemption has been given and not rescinded or revoked, or if the conditions set forth in a conditional notice of redemption have been satisfied or waived, the Underwritten Bonds or portions of Underwritten Bonds to be redeemed shall, on the redemption date, become due and payable at the redemption price therein specified, and, if the Bond Registrar then holds sufficient funds to pay such Underwritten Bonds or portions of Underwritten Bonds shall cease to bear interest. Upon surrender of such Underwritten Bonds shall be paid by the Bond Registrar at the redemption price. Installments of interest due on or prior to the redemption date shall be payable as herein provided for payment of interest. All Underwritten Bonds which have been redeemed shall be canceled by the Bond Registrar and shall not be reissued.

If addition to the foregoing notice, further notice shall be given by the City as set out below, but no defect in said further notice nor any failure to give all or any portion of such further notice shall in any manner defeat the effectiveness of a call for redemption if notice thereof is given as above prescribed. Each further notice of redemption given hereunder shall contain the information required above for an official notice of redemption plus (A) the CUSIP numbers of all Underwritten Bonds being redeemed; (B) the date of issue of the Underwritten Bonds as originally issued; (C) the rate of interest borne by each Underwritten Bond being redeemed; (D) the maturity date of each Underwritten Bond being redeemed; and (E) any other descriptive information needed to identify accurately the Underwritten Bonds being redeemed. Each further notice of redemption may be sent at least 20 days before the redemption date to each party entitled to receive notice pursuant to the Continuing Disclosure Certificate and with such additional information as the City shall deem appropriate, but such mailings shall not be a condition precedent to the redemption of such Underwritten Bonds.

The foregoing notice provisions of this Section 4, including but not limited to the information to be included in redemption notices and the persons designated to receive notices, may be amended by additions, deletions and changes in order to maintain compliance with duly promulgated regulations and recommendations regarding notices of redemption of municipal securities.

Section 5. Form of Bonds. The Bonds shall be in substantially the form set forth in Exhibit A, which is incorporated herein by this reference.

Section 6. Execution of Bonds. The Bonds shall be executed on behalf of the City with the manual or facsimile signatures of the Mayor and City Clerk of the City and the seal of the City shall be impressed, imprinted or otherwise reproduced thereon.

In case either of the officers who shall have executed the Bonds shall cease to be an officer or officers of the City before the Bonds so signed shall have been authenticated or delivered by the Bond Registrar, or issued by the City, such Bonds may nevertheless be authenticated, delivered and issued and upon such authentication, delivery and issuance, shall be as binding upon the City as though those who signed the same had continued to be such officers of the City. Any Bond may be signed and attested on behalf of the City by such persons who at the date of the actual execution of such Bond, are the proper officers of the City, although at the original date of such Bond any such person shall not have been such officer of the City.

Only such Bonds as shall bear thereon a Certificate of Authentication in the form hereinbefore recited, manually executed by the Bond Registrar, shall be valid or obligatory for any purpose or entitled to the benefits of this ordinance. Such Certificate of Authentication shall be conclusive evidence that the Bonds so authenticated have been duly executed, authenticated and delivered hereunder and are entitled to the benefits of this ordinance.

Section 7. Refunding Plan; Application of Bond Proceeds.

(a) *Plan of Refunding.* The City proposes to defease and/or refund the Refunded Bonds as set forth herein. A portion of the proceeds of the Bonds shall be deposited with the Escrow Agent pursuant to the Escrow Agreement to be used immediately upon receipt thereof to defease the Refunded Bonds as authorized by the

2009 Bond Ordinance and to pay costs of issuance and administrative costs of the refunding.

The proceeds of the Bonds deposited with the Escrow Agent shall be used to defease the Refunded Bonds and discharge the obligations thereon by the purchase of Acquired Obligations bearing such interest and maturing as to principal and interest in such amounts and at such times which, together with any necessary beginning cash balance, will provide for the payment of:

(1) interest on the Refunded Bonds as such becomes due on and prior to the Call Date; and

(2) the redemption price (100% of the principal amount) of the Refunded Bonds on the Call Date.

Such Acquired Obligations shall be purchased at a yield not greater than the yield permitted by the Code and regulations relating to acquired obligations in connection with refunding bond issues.

(b) *Escrow Agent; Escrow Agreement.* The Designated Representative is hereby authorized to solicit proposals from and to select an Escrow Agent. A beginning cash balance, if any, and the Acquired Obligations shall be deposited irrevocably with the Escrow Agent in an amount sufficient to defease and/or redeem the Refunded Bonds. The proceeds of the Bonds remaining after acquisition of the Acquired Obligations and provision for the necessary beginning cash balance shall be used to pay expenses of the acquisition and safekeeping of the Acquired Obligations and costs of issuance of the Bonds and the administrative costs of the refunding. In order to carry out the purposes of this section, the Designated Representative is authorized and directed to execute and deliver the Escrow Agreement to the Escrow Agent.

(c) *Call for Redemption of 2009 Bonds.* The City hereby sets aside available funds of the City and sufficient funds out of the purchase of Acquired Obligations from proceeds of the Bonds to make the payments described above. The City further calls the Refunded Bonds for redemption on the Call Date in accordance with the provisions of the 2009 Bond Ordinance authorizing the redemption and retirement of the 2009 Bonds prior to their fixed maturities. Said defeasance and call for redemption of the Refunded Bonds shall be irrevocable after the issuance of the Bonds and delivery of cash and/or Acquired Obligations to the Escrow Agent. The Escrow Agent is hereby authorized and directed to provide for the giving of notices of defeasance and/or redemption of the Refunded Bonds in accordance with the applicable provisions of the 2009 Bond Ordinance. The costs of publication of such notices shall be an expense of the City.

The Escrow Agent is hereby authorized and directed to pay to the Treasurer, or, at the direction of the Treasurer, to the paying agent for the Refunded Bonds, sums sufficient to pay, when due, the payments specified in this section. All such sums shall be paid from the moneys and Acquired Obligations deposited with the Escrow Agent, and the income therefrom and proceeds thereof. All such sums so paid to or to the order of the Treasurer shall be credited to the Refunding Account (which is hereby authorized to be created) or other funds created under the Escrow Agreement. All moneys and Acquired Obligations deposited with the Escrow Agent and any income therefrom shall be held, invested (but only at the direction of the Chief Financial Officer) and applied in accordance with the provisions of this ordinance, the Escrow Agreement, and with the laws of the State for the benefit of the City and owners of the Refunded Bonds.

The City will take such actions as are found necessary to see that all necessary and proper fees, compensation and expenses of the Escrow Agent for the Refunded Bonds shall be paid when due.

Section 8. Tax Covenants. The City will take all actions necessary to assure the exclusion of interest on the Bonds from the gross income of the owners of the Bonds to the same extent as such interest is permitted to be excluded from gross income under the Code as in effect on the date of issuance of the Bonds, including but not limited to the following:

(a) *Private Activity Bond Limitation*. The City will assure that the proceeds of the Bonds are not so used as to cause the Bonds to satisfy the private business tests of Section 141(b) of the Code or the private loan financing test of Section 141(c) of the Code.

(b) *Limitations on Disposition of the Projects*. The City will not sell or otherwise transfer or dispose of (i) any personal property components of the projects refinanced with proceeds of the Bonds other than in the ordinary course of an established government program under Treasury Regulation 1.141-2(d)(4) or (ii) any real property components of such projects, unless it has received an opinion of nationally recognized Bond Counsel to the effect that such disposition will not adversely affect the treatment of interest on the Bonds as excludable from gross income for federal income tax purposes.

(c) *Federal Guarantee Prohibition*. The City will not take any action or permit or suffer any action to be taken if the result of such action would be to cause any of the Bonds to be "federally guaranteed" within the meaning of Section 149(b) of the Code.

(d) *Rebate Requirement*. The City will take any and all actions necessary to assure compliance with Section 148(f) of the Code, relating to the rebate of excess investment earnings, if any, to the federal government, to the extent that such section is applicable to the Bonds.

(e) *No Arbitrage*. The City will not take, or permit or suffer to be taken, any action with respect to the proceeds of the Bonds which, if such action had been reasonably expected to have been taken, or had been deliberately and intentionally taken, on the date of issuance of the Bonds would have caused the Bonds to be "arbitrage bonds" within the meaning of Section 148 of the Code.

(f) *Registration Covenant*. The City will maintain a system for recording the ownership of each Bond that complies with the provisions of Section 149 of the Code until all Bonds have been surrendered and canceled.

(g) *Record Retention.* The City will retain its records of all accounting and monitoring it carries out with respect to the Bonds for at least three years after the Bonds mature or are redeemed (whichever is earlier); however, if the Bonds are redeemed and refunded, the City will retain its records of accounting and monitoring at least three years after the earlier of the maturity or redemption of the obligations that refunded the Bonds.

(h) *Compliance with Federal Tax Certificate*. The City will comply with the provisions of the Federal Tax Certificate with respect to the Bonds, which are incorporated herein as if fully set forth herein. The covenants of this section will survive payment in full or defeasance of the Bonds.

Section 9. Debt Service Fund and Provision for Tax Levy Payments. The City hereby authorizes the creation of a fund or account to be used for the payment of debt service on the Bonds (the "Debt Service Fund"). No later than the date each payment of principal of or interest on the Bonds becomes due, the City shall transmit sufficient funds, from the Debt Service Fund or from other legally available sources, to the Bond Registrar for the payment of such principal or interest. Money in the Debt Service Fund may be invested in legal investments for City funds, but only to the extent that the same are acquired, valued and disposed of at Fair Market Value. Any interest or profit from the investment of such money shall be deposited in the Debt Service Fund.

The City hereby irrevocably covenants and agrees for as long as any of the Bonds are outstanding and unpaid that each year it shall include in its budget and levy an ad valorem tax upon all the property within the City subject to taxation in an amount that will be sufficient, together with all other revenues and money of the City legally available for such purposes, to pay the principal of and interest on the Bonds as the same shall become due.

The City hereby irrevocably pledges that the annual tax provided for herein to be levied for the payment of such principal and interest shall be within and as a part of the property tax levy permitted to cities without a vote of the electorate, and that a sufficient portion of each annual levy to be levied and collected by the City prior to the full payment of the principal of and interest on the Bonds will be and is hereby irrevocably set aside, pledged and appropriated for the payment of the principal of and interest on the Bonds. The full faith, credit and resources of the City are hereby irrevocably pledged for the annual levy and collection of such taxes and for the prompt payment of the principal of and interest on the Bonds when due.

Section 10. Sale of Bonds.

(a) *Bond Sale*. The Council has determined that it would be in the best interest of the City to delegate to the Designated Representative for a limited time the authority to determine the method of sale for the Bonds, to approve the selection of the Refunded Bonds, and to approve the final interest rates, maturity dates, redemption terms and principal maturities for the Bonds. The Designated Representative is hereby authorized to approve the issuance of the Bonds and to approve whether the Bonds shall be sold in a private placement to a Direct Purchaser or to an Underwriter through a competitive public sale or a negotiated sale, as set forth below.

(b) *Direct Purchase*. If the Designated Representative determines that the Bonds are to be sold by private placement, the Designated Representative shall solicit proposals to purchase the Direct Purchase Bonds and to select the Direct Purchaser that submits the proposal that is in the best interest of the City. Direct Purchase Bonds shall be sold to the Direct Purchaser pursuant to the terms of a Loan Agreement.

(c) *Negotiated Bond Sale.* If the Designated Representative determines that the Bonds are to be sold by negotiated public sale, the Designated Representative shall solicit bond underwriting proposals and shall select the Underwriter that submits the proposal that is in the best interest of the City. Such Bonds shall be sold to the Underwriter pursuant to the terms of a Bond Purchase Contract.

(d) *Competitive Sale*. If the Designated Representative determines that the Bonds are to be sold at a competitive public sale, the Designated Representative shall: (1) establish the date of the public sale; (2) establish the criteria by which the successful bidder will be determined; (3) request that a good faith deposit in an amount not less than one percent of the principal amount of the offering accompany each bid; and (4) provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. The Designated Representative shall cause the notice of sale to be given and provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. Such Bonds shall be sold to the Underwriter pursuant to the terms of a Certificate of Award.

(e) *Sale Parameters*. The Designated Representative is hereby authorized to approve the method of sale and the final interest rates, aggregate principal amount, principal maturities, and redemption rights for the Bonds in the manner provided hereafter so long as:

(1) (1) the aggregate principal amount of the Bonds does not exceed \$18,000,000,

2039,

(2) the final maturity date for the Bonds is no later than December 1,

(3) the Bonds are sold for a price that results in a minimum aggregate net present value debt service savings over the Refunded Bonds (calculated by deducting scheduled federal subsidy payments with respect to the Refunded Bonds from annual debt service and assuming no future sequestration of such payments) of at least 3.0%,

(4) the true interest cost for the Bonds (in the aggregate) does not exceed 3.50%, and

(5) the Bonds are sold (in the aggregate) at a price not less than 98%.

Subject to the terms and conditions set forth in this section, the Designated Representative is hereby authorized to execute the applicable Sale Document for the Bonds. Following the execution of the applicable Sale Document, the Designated Representative shall provide a report to the Council describing the final terms of the Bonds approved pursuant to the authority delegated in this section.

The authority granted to the Designated Representative by this Section 11 shall expire one year (365 days) after the effective date of this ordinance. If a Sale Document for the Bonds has not been executed by such date, the authorization for the issuance of such Bonds shall be rescinded, and such Bonds shall not be issued nor their sale approved unless such Bonds shall have been re-authorized by ordinance of the Council.

(f) Delivery of Bonds; Documentation. The proper officials of the City, including the Administrative Services Director and the Designated Representative, are authorized and directed to undertake all action necessary for the prompt execution and delivery of the Bonds to the purchaser thereof and further to execute all closing certificates and documents required to effect the closing and delivery of the Bonds in accordance with the terms of the applicable Sale Document. Such documents may include, but are not limited to, documents related to a municipal bond insurance policy delivered by an insurer to insure the payment when due of the principal of and interest on all or a portion of the Bonds as provided therein, if such insurance is determined by the Designated Representative to be in the best interest of the City.

(g) *Preliminary and Final Official Statements*. The Administrative Services Director and the City Manager are each hereby authorized to deem final the preliminary Official Statement(s) relating to any Underwritten Bonds for the purposes of the Rule. The Administrative Services Director and the City Manager are each further authorized to approve for purposes of the Rule, on behalf of the City, the final Official Statement(s) relating to the issuance and sale of any Underwritten Bonds and the distribution of the final Official Statement pursuant thereto with such changes, if any, as may be deemed to be appropriate.

Section 11. Undertaking to Provide Ongoing Disclosure; Covenants.

(a) The City covenants to execute and deliver at the time of Closing of any Underwritten Bonds a Continuing Disclosure Certificate. The Administrative Services Director and the City Manager are each hereby authorized to execute and deliver a Continuing Disclosure Certificate upon the issuance, delivery and sale of any Underwritten Bonds with such terms and provisions as such individuals shall deem appropriate and in the best interests of the City.

(b) The City may agree to provide the Direct Purchaser certain financial or other information and agree to such additional covenants as determined to be necessary by the Designated Representative and as set forth in the Loan Agreement and approved by the Designated Representative pursuant to Section 11.

Section 12. Defeasance. In the event that money and/or noncallable Government Obligations, maturing at such time or times and bearing interest to be earned thereon in amounts (together with such money, if necessary) sufficient to redeem and retire part or all of the Bonds in accordance with their terms, are set aside in a special account of the City to effect such redemption and retirement, and such money and the

principal of and interest on such Government Obligations are irrevocably set aside and pledged for such purpose, then no further payments need be made into the Debt Service Fund for the payment of the principal of and interest on the Bonds so provided for, and such Bonds shall cease to be entitled to any lien, benefit or security of this ordinance except the right to receive the money so set aside and pledged, and such Bonds shall be deemed not to be outstanding hereunder. The City shall give or cause to be given written notice of defeasance in accordance with the Continuing Disclosure Certificate.

Section 13. Lost, Stolen or Destroyed Bonds. In case any Bond or Bonds shall be lost, stolen or destroyed, the Bond Registrar may authenticate and deliver a new Bond or Bonds of like date, number and tenor to the Registered Owner thereof upon the Registered Owner's paying the expenses and charges of the City and the Bond Registrar in connection therewith and upon his/her filing with the City evidence satisfactory to the City that such Bond was actually lost, stolen or destroyed and of his/her ownership thereof, and upon furnishing the City and/or the Bond Registrar with indemnity satisfactory to the City and the Bond Registrar.

Section 14. Severability; Ratification. If any one or more of the covenants or agreements provided in this ordinance to be performed on the part of the City shall be declared by any court of competent jurisdiction to be contrary to law, then such covenant or covenants, agreement or agreements, shall be null and void and shall be deemed separable from the remaining covenants and agreements of this ordinance and shall in no way affect the validity of the other provisions of this ordinance or of the Bonds. All acts taken pursuant to the authority granted in this ordinance but prior to its effective date are hereby ratified and confirmed.

Section 15. Payments Due on Holidays. If an interest and/or principal payment date for the Bonds is not a business day, then payment shall be made on the next business day and no interest shall accrue for the intervening period.

Section 16. Corrections by Clerk. Upon approval of the City Attorney and Bond Counsel and without further action of the Council, the City Clerk is hereby authorized to make necessary corrections to this ordinance, including but not limited to the correction of clerical errors; references to other local, state or federal laws, codes, rules, or regulations; ordinance numbering and section/subsection numbering; and other similar necessary corrections.

Section 17. Effective Date of Ordinance. This ordinance shall take effect and be in force five (5) days from and after its passage, approval, and publication, as required by law. A summary of this ordinance, consisting of the title, may be published in lieu of publishing the ordinance in its entirety.

PASSED BY THE CITY COUNCIL ON JUNE 17, 2019.

Mayor Will Hall

ATTEST:

APPROVED AS TO FORM:

Jessica Simulcik-Smith City Clerk Pacifica Law Group LLP Bond Counsel

Date of Publication:______, 2019Effective Date:______, 2019

Exhibit A

Form of Bond

[DTC LANGUAGE][TRANSFER RESTRICTIONS]

UNITED STATES OF AMERICA

NO. _____

\$_____

STATE OF WASHINGTON

CITY OF SHORELINE

LIMITED TAX GENERAL OBLIGATION REFUNDING BOND, 20[__]

INTEREST RATE: % MATURITY DATE:

[CUSIP NO.:]

REGISTERED OWNER:

PRINCIPAL AMOUNT:

[The City of Shoreline, Washington (the "City") hereby acknowledges itself to owe and for value received promises to pay, but only from the sources and as hereinafter provided, to the Registered Owner identified above, or registered assigns, on the Maturity Date identified above, the Principal Amount indicated above and to pay interest thereon from the date of delivery, or the most recent date to which interest has been paid or duly provided for, at the Interest Rate set forth above (the "Interest Rate"). Interest on this bond shall accrue from its dated date until paid and shall be computed per annum on the principal amount outstanding on a 30/360 basis. Principal of and accrued interest on this bond shall be payable on the dates set forth in the payment schedule attached hereto.] [The City of Shoreline, Washington (the "City"), hereby acknowledges itself to owe and for value received promises to pay to the Registered Owner identified above, or registered assigns, on the Maturity Date identified above, the Principal Amount indicated above and to pay interest thereon from ______, 201_, or the most recent date to which interest has been paid or duly provided for until payment of this bond at the Interest Rate set forth above, payable on ______ 1, 20___, and semiannually thereafter on the first days of each succeeding ______ and _____. Both principal of and interest on this bond are payable in lawful money of the United States of America. The fiscal agent of the State of Washington has been appointed by the City as the authenticating agent, paying agent and registrar for the bonds of this issue (the "Bond Registrar"). For so long as the bonds of this issue are held in fully immobilized form, payments of principal and interest thereon shall be made as provided in accordance with the operational arrangements of The Depository Trust Company ("DTC") referred to in the Blanket Issuer Letter of Representations (the "Letter of Representations") from the City to DTC.]

The bonds of this issue are issued under and in accordance with the provisions of the Constitution and applicable statutes of the State of Washington and Ordinance No. 862 duly passed by the City Council on June 17, 2019 (the "Bond Ordinance"). Capitalized terms used in this bond have the meanings given such terms in the Bond Ordinance.

A-1 7e-23

This bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Bond Ordinance until the Certificate of Authentication hereon shall have been manually signed by or on behalf of the Bond Registrar or its duly designated agent.

This bond [is one of an authorized issue of bonds of like series, date, tenor, rate of interest and date of maturity, except as to number and amount in the aggregate principal amount of \$_____ and] is issued pursuant to the Bond Ordinance to provide a portion of the funds necessary (a) to refund certain limited tax general obligation bonds of the City (the "Refunded Bonds"), and (b) to pay costs of issuance and costs related to the administration of the refunding.

[insert description of redemption or prepayment terms]

The City hereby irrevocably covenants and agrees with the owner of this bond that it will include in its annual budget and levy taxes annually, within and as a part of the tax levy permitted to the City without a vote of the electorate, upon all the property subject to taxation in amounts sufficient, together with other money legally available therefor, to pay the principal of and interest on this bond as the same shall become due on and after such date. The full faith, credit and resources of the City are hereby irrevocably pledged for the annual levy and collection of such taxes and the prompt payment of such principal and interest.

The pledge of tax levies for payment of principal of and interest on the bonds may be discharged prior to maturity of the bonds by making provision for the payment thereof on the terms and conditions set forth in the Bond Ordinance.

It is hereby certified that all acts, conditions and things required by the Constitution and statutes of the State of Washington to exist and to have happened, been done and performed precedent to and in the issuance of this bond exist and have happened, been done and performed and that the issuance of this bond and the bonds of this issue does not violate any constitutional, statutory or other limitation upon the amount of bonded indebtedness that the City may incur.

IN WITNESS WHEREOF, the City of Shoreline, Washington, has caused this bond to be executed by the manual or facsimile signatures of the Mayor and the City Clerk and the seal of the City to be imprinted, impressed or otherwise reproduced hereon as of this _____ day of _____, 20____.

[SEAL]

CITY OF SHORELINE, WASHINGTON

By <u>/s/ manual or facsimile</u>

Mayor

ATTEST:

/s/ manual or facsimile City Clerk

[FOR UNDERWRITTEN BONDS]

CERTIFICATE OF AUTHENTICATION

A-2 7e-24 Date of Authentication:

This bond is one of the bonds described in the within-mentioned Bond Ordinance and is one of the Limited Tax General Obligation Refunding Bonds, 20____, of the City of Shoreline, Washington, dated ______, 20____.

WASHINGTON STATE FISCAL AGENT, as Bond Registrar

By _____

[FOR DIRECT PURCHASE BONDS]

REGISTRATION CERTIFICATE

This bond is registered in the name of the Registered Owner on the books of the City, in the office of the ______ (the "Bond Registrar"), as to both principal and interest, as noted in the registration blank below. All payments of principal of and interest on this bond shall be made by the City as provided in the Bond Ordinance.

Date of
RegistrationName and Address of
Registered OwnerSignature of
Bond Registrar______, 20___________

PAYMENT SCHEDULE

Principal and interest on this bond shall be payable as set forth in the following schedule:

Date	Principal	Interest	Total Payment

CERTIFICATE

I, the undersigned, City Clerk of the City Council of the City of Shoreline, Washington (the "City"), DO HEREBY CERTIFY:

1. The attached copy of Ordinance No. 862 (the "Ordinance") is a full, true and correct copy of an ordinance duly passed at a regular meeting of the City Council of the City held at the regular meeting place thereof on June 17, 2019, as that ordinance appears in the minute book of the City; and the Ordinance will be in full force and effect five (5) days after its passage and publication as provided by law; and

2. That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a legal quorum was present throughout the meeting and a legally sufficient number of members of the Council voted in the proper manner for the passage of said Ordinance; that all other requirements and proceedings incident to the proper passage of said Ordinance have been fully fulfilled, carried out and otherwise observed; and that I am authorized to execute this certificate.

3. The Ordinance has not been amended, supplemented or rescinded since its passage and is in full force and effect and that I am authorized to execute this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand this 17th day of June, 2019.

City Clerk

F					
	Prior Debt Service	Prior Debt Service	Refunding Debt Service		PV Savings
	(gross interest)	(net of full 35% subsidy)	(Current Rates)	Nominal Savings	@ 2.35%
2019	525,577	341,625	217,084	124,541	123,816
2020	1,641,155	1,273,250	1,150,738	122,513	119,430
2021	1,631,301	1,273,845	1,148,938	124,908	118,959
2022	1,620,435	1,273,782	1,151,338	122,445	113,945
2023	1,607,108	1,272,120	1,147,738	124,382	113,079
2024	1,597,723	1,274,770	1,153,338	121,432	107,870
2025	1,581,548	1,273,006	1,147,738	125,268	108,689
2026	1,568,848	1,275,251	1,151,338	123,913	105,030
2027	1,549,318	1,271,306	1,148,738	122,569	101,490
2028	1,533,263	1,271,371	1,145,138	126,233	102,094
2029	1,520,378	1,275,245	1,150,538	124,708	98,530
2030	1,500,358	1,272,732	1,149,538	123,195	95,085
2031	1,482,233	1,273,201	1,147,338	125,864	94,885
2032	1,461,920	1,272,248	1,148,938	123,311	90,810
2033	1,444,420	1,274,873	1,149,138	125,736	90,442
2034	1,424,420	1,275,873	1,152,938	122,936	86,382
2035	1,401,920	1,275,248	1,150,138	125,111	85,865
2036	1,380,360	1,276,984	1,153,288	123,697	82,893
2037	1,355,920	1,276,848	1,150,300	126,548	82,795
2038	1,328,600	1,274,840	1,151,338	123,503	78,892
2039	1,303,400	1,275,960	1,151,238	124,723	77,781
Total	30,460,199	25,824,380	23,216,847	2,607,533	2,078,760

City of Shoreline, Washington Limited Tax Refunding Bonds, Series 2019 (Refunds Series 2009 BAB LTGO)

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Adoption of Ordinance No. 864 - Amending Ordinance No. 829 to Extend the Delegation Period for Bond Anticipation Notes	
DEPARTMENT: PRESENTED BY:	Administrative Services Department Sara Lane, Administrative Services Director	
ACTION:	<u>X</u> Ordinance <u>Resolution</u> Motion <u>Discussion</u> Public Hearing	

PROBLEM/ISSUE STATEMENT:

On August 6, 2018, the City Council approved Ordinance No. 829 authorizing the issuance of Limited Tax General Obligation Bond Anticipation Notes (BAN) to support property acquisition for the Parks Recreation and Open Space (PROS) plan, including the Community and Aquatic Center (CAC). Ordinance No. 829 delegated authority to issue the debt at any time during the authorization period, which was limited to one year. Because the acquisition of property for the CAC was delayed while alternative sites were evaluated, staff would like to extend the delegation period. Proposed Ordinance No. 864 would amend Ordinance No. 829 to extend the delegation period to February 1, 2020. The City Council discussed proposed Ordinance No. 864 on June 3, 2019 and directed staff to return the Ordinance No. 864.

RESOURCE/FINANCIAL IMPACT:

True interest costs on BANs will not exceed 3.25%. The debt service (interest) payments may be partly or fully offset by income from investment properties with the balance of payments funded by the City's General Fund and other legally available funds. Principal is due at maturity and is expected to be paid from longer-term take-out financing. The BANs will be issued for a term not to exceed three years.

RECOMMENDATION

Staff recommends that Council adopt Ordinance No. 864.

Approved By: City Manager **DT** City Attorney **MK**

BACKGROUND

On August 6, 2018, the City Council approved <u>Ordinance No. 829</u> authorizing the issuance of Limited Tax General Obligation Bond Anticipation Notes (BANs) to support property acquisition for the Parks Recreation and Open Space (PROS) plan, including the Community and Aquatic Center (CAC). Ordinance No. 829 authorized issuance of up to \$25 million in BANs. The ordinance included a delegated authority that allowed up to one year from the effective date of the ordinance to issue the debt. Because the acquisition of property for the CAC was delayed while alternative sites were evaluated, staff would like to extend the delegation period. Council discussed and provided direction about the preferred location for the CAC at its meeting on May 20, 2019.

The City Council discussed proposed Ordinance No. 864, which provides for an extension of this authorization period, on June 3, 2019 and directed staff to return the Ordinance for adoption on the consent calendar. The staff report for the June 3 Council discussion is available at the following link:

http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff report060319-9b.pdf.

DISCUSSION

Staff do not anticipate being able to complete acquisition of the preferred CAC property prior to the expiration of the delegation authority. Further, the earliest that the City would be able to issue debt supported by a successful Bond Measure in the general elections would be February of 2020. Therefore, to pursue acquisition of the preferred property prior to February 2020, the City will still need to issue BANs. Additionally, the City is currently waiting for a decision on Grant Funding for several Parks Property Acquisitions that will not be received until after the current BAN authorization expires. If successful, the City may choose to issue BANs In order to expedite acquisition of those properties. Given this, staff recommends extending the expiration date of Ordinance No. 829 to February 1, 2020 as provided in proposed Ordinance No. 864.

RESOURCE/FINANCIAL IMPACT

True interest cost on BANs will not exceed 3.25%. The debt service (interest) payments may be partly or fully offset by income from investment properties with the balance of payments funded by the City's General Fund and other legally available funds. Principal is due at maturity and is expected to be paid from longer-term take-out financing. The BANs will be issued for a term not to exceed three years.

RECOMMENDATION

Staff recommends that Council adopt Ordinance No. 864.

ATTACHMENTS

Attachment A: Ordinance No. 864

CITY OF SHORELINE, WASHINGTON

LIMITED TAX GENERAL OBLIGATION BOND ANTICIPATION NOTES

ORDINANCE NO. 864

AN ORDINANCE OF THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON, AMENDING CITY ORDINANCE NO. 829 RELATING TO THE ISSUANCE OF ONE OR MORE SERIES OF LIMITED TAX GENERAL OBLIGATION BOND ANTICIPATION NOTES IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$25,000,000 TO PROVIDE INTERIM FINANCING FOR A PORTION OF THE COSTS OF THE CITY'S PARKS, RECREATION AND OPEN SPACE PLAN AND COSTS OF ISSUING THE NOTES; AND ESTABLISHING AN EFFECTIVE DATE.

WHEREAS, on July 31, 2017, the Shoreline City Council (the "Council") unanimously adopted the 2017-2023 Parks, Recreation & Open Space Plan (the "PROS Plan"); and

WHEREAS, after due consideration the Council adopted Ordinance No. 829 on August 8, 2018 authorizing the issuance and sale of one or more series of short-term obligations in the form of limited tax general obligation bond anticipation notes in the aggregate principal amount of not to exceed \$25,000,000 (the "Notes") for the purpose of financing the acquisition of property for park and recreational purposes and the payment of other capital expenditures described in the PROS Plan; and

WHEREAS, the sale and issuance of the Notes is contingent on satisfaction of certain parameters relating to maximum interest rates, final maturity dates, redemption terms and principal maturities as set forth in Ordinance No. 829; and

WHEREAS, the Council now desires to amend Ordinance No. 829 to extend the delegation period for the Notes and other matters related thereto, as provided herein;

THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. Definitions. Except as otherwise provided herein, definitions used in this ordinance shall have the meanings set forth in Ordinance No. 829.

Section 2. Amendment to Ordinance No. 829: Section 10 (Sale of Notes). Section 10 (Sale of Notes) of Ordinance No. 829 is hereby amended to read as follows (deletions are stricken, additions are double underlined):

Section 10. Sale of Notes.

(a) *Note Sale*. The Council has determined that it would be in the best interest of the City to delegate to the Designated Representative for a limited time the authority to determine the method of sale for the Notes in one or more series and to approve the final interest rates, maturity dates, redemption terms and principal maturities for each series of Notes. Notes may be issued pursuant to this ordinance at one time or from time to time as provided herein. The Designated Representative is hereby authorized to approve the issuance, from time to time, of one or more series of Notes and to determine whether the Notes of such series shall be sold in a private placement to a Direct Purchaser or to an Underwriter through a competitive public sale or a negotiated sale, as set forth below.

(b) *Direct Purchase*. If the Designated Representative determines that the Notes of a series are to be sold by private placement, the Designated Representative shall solicit proposals to purchase the Direct Purchase Notes and to select the Direct Purchaser that submits the proposal that is in the best interest of the City. Direct Purchase Notes shall be sold to the Direct Purchaser pursuant to the terms of a Loan Agreement.

(c) *Negotiated Note Sale*. If the Designated Representative determines that the Notes of a series are to be sold by negotiated public sale, the Designated Representative shall solicit underwriting proposals and shall select the Underwriter whose proposal the Designated Representative believes is in the best interest of the City. Such Notes shall be sold to the Underwriter pursuant to the terms of a Note Purchase Contract.

(d) *Competitive Sale.* If the Designated Representative determines that the Notes of a series are to be sold at a competitive public sale, the Designated Representative shall: (1) establish the date of the public sale; (2) establish the criteria by which the successful bidder will be determined; (3) request that a good faith deposit in an amount not less than one percent of the principal amount of the offering accompany each bid; (4) cause notice of the public sale to be given; and (5) provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. The Designated Representative shall cause the notice of sale to be given and provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. Such Notes shall be sold to the Underwriter pursuant to the terms of a Certificate of Award.

(e) *Sale Parameters*. The Designated Representative is hereby authorized approve the method of sale and the final interest rates, aggregate principal amount, principal maturities, and redemption rights for each series of Notes in the manner provided hereafter so long as:

(1) the aggregate principal amount (face amount) of all Notes issued pursuant to this ordinance does not exceed \$25,000,000;

(2) the final maturity date for each series of Notes is no later than 36 months from date of issuance of such series;

(3) the true interest cost for each series of Notes does not exceed 3.25%;

(4) the Notes of each series are sold (in the aggregate) at a price not less than 98%; and

(5) the coupon rate for each maturity of the Notes of each series does not exceed 5.00%.

Subject to the terms and conditions set forth in this section, the Designated Representative is hereby authorized to execute the applicable Sale Document for a series of Notes. Following the execution of the applicable Sale Document, the Designated Representative shall provide a report to the Council describing the final terms of the Notes approved pursuant to the authority delegated in this section.

The authority granted to the Designated Representative by this Section 10 shall expire <u>on February 1, 2020</u>. one year after the effective date of this ordinance. If a Sale Document for the Notes of a series has not been executed by such date, the authorization for the issuance of such series of Notes shall be rescinded, and such Notes shall not be issued nor their sale approved unless such Notes shall have been re-authorized by ordinance of the Council.

(f) Delivery of Notes; Documentation. The proper officials of the City, including the Administrative Services Director and the Designated Representative, are authorized and directed to undertake all action necessary for the prompt execution and delivery of the Notes to the purchaser thereof and further to execute all closing certificates and documents required to effect the closing and delivery of the Notes in accordance with the terms of the applicable Sale Document. Such documents may include, but are not limited to, documents related to a municipal Note insurance policy delivered by an insurer to insure the payment when due of the principal of and interest on all or a portion of the Notes as provided therein, if such insurance is determined by the Designated Representative to be in the best interest of the City. (g) *Preliminary and Final Official Statements.* The Administrative Services Director and the City Manager are each hereby authorized to deem final the preliminary Official Statement(s) relating to any Underwritten Notes for the purposes of the Rule. The Administrative Services Director and the City Manager are each further authorized to approve for purposes of the Rule, on behalf of the City, the final Official Statement(s) relating to the issuance and sale of any Underwritten Notes and the distribution of the final Official Statement pursuant thereto with such changes, if any, as may be deemed to be appropriate.

Section 3. Ratification. Except as hereby amended, the remaining terms and conditions of Ordinance No. 829 are hereby ratified and confirmed in all respects. All acts taken pursuant to the authority granted in this ordinance but prior to its effective date are hereby ratified and confirmed.

Section 4. Corrections by Clerk. Upon approval of the City Attorney and Note Counsel and without further action of the Council, the City Clerk is hereby authorized to make necessary corrections to this ordinance, including but not limited to the correction of clerical errors; references to other local, state or federal laws, codes, rules, or regulations; ordinance numbering and section/subsection numbering; and other similar necessary corrections.

Section 5. Effective Date of Ordinance. This ordinance shall take effect and be in force five (5) days from and after its passage, approval, and publication, as required by law. A summary of this ordinance, consisting of the title, may be published in lieu of publishing the ordinance in its entirety.

PASSED BY THE CITY COUNCIL ON JUNE 17, 2019.

Mayor Will Hall

ATTEST:

APPROVED AS TO FORM:

Jessica Simulcik-Smith City Clerk Pacifica Law Group LLP Note Counsel

Date of Publication:______, 2019Effective Date:______, 2019

CERTIFICATE

I, the undersigned, City Clerk of the City Council of the City of Shoreline, Washington (the "City"), DO HEREBY CERTIFY:

1. The attached copy of Ordinance No. ____ (the "Ordinance") is a full, true and correct copy of an ordinance duly passed at a regular meeting of the City Council of the City held at the regular meeting place thereof on _____, 2019, as that ordinance appears in the minute book of the City; and the Ordinance will be in full force and effect five (5) days after its passage and publication as provided by law; and

2. That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a legal quorum was present throughout the meeting and a legally sufficient number of members of the Council voted in the proper manner for the passage of said Ordinance; that all other requirements and proceedings incident to the proper passage of said Ordinance have been fully fulfilled, carried out and otherwise observed; and that I am authorized to execute this certificate.

3. The Ordinance has not been amended, supplemented or rescinded since its passage and is in full force and effect and that I am authorized to execute this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand this <u>day of</u>, 2019.

City Clerk

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Adopting Resolution No. 438 - Approving the Sale of Limited Tax General Obligation Bonds Supported by the Shoreline Transportation District 0.2% Sales Tax as Authorized by Ordinance No. 853	
DEPARTMENT: PRESENTED BY:	Administrative Services Sara Lane, Administrative Services Director	
ACTION:	Ordinance <u>X</u> Resolution Motion Discussion Public Hearing	

PROBLEM/ISSUE STATEMENT:

At the November 6, 2018 General Election, Shoreline voters approved a 0.2% increase in the Sales Tax Rate for the Shoreline Transportation Benefit District (TBD). This funding will support delivery of the Sidewalk Program and must be dedicated to the repayment of debt. On March 18, 2019, the City Council approved Ordinance No. 853 authorizing the issuance of a series of debt issues over a period of 10 years where repayment would be supported by that sales tax revenue for a period of up to 20 years (the term of the tax). Ordinance No. 853 provided that each individual series of bond issues would be approved by Council through a sale resolution.

Proposed Resolution No. 438 (Attachment A) is the first sale resolution to be presented to Council in this series. Council discussed the proposed resolution at its regular meeting on June 3, 2019 and directed staff to return proposed Resolution No. 438 for adoption on the consent calendar tonight.

FINANCIAL IMPACT:

This initial series will be for an amount not to exceed \$10,000,000. Issuance costs are estimated at \$49,500 and annual debt service is estimated at \$800,000 per year for 15 years. Issuance costs and debt service will be paid by the TBD 0.2% sales tax revenue over a term not to exceed 15 years.

RECOMMENDATION

Staff recommends that Council adopt Resolution No. 438.

Approved By: City Manager **DT** City Attorney **MK**

BACKGROUND

At the November 6, 2018 General Election, Shoreline voters approved a 0.2% increase in the Sales Tax Rate for the Shoreline Transportation Benefit District (TBD). This funding will support delivery of the Sidewalk Program and must be dedicated to the repayment of debt. On March 18, 2019, the City Council Approved Ordinance No. 853 (Attachment B) authorizing issuance of a series of Limited Tax General Obligation bonds (Bonds) over a 10-year period that will be repaid by the revenue generated by the 0.2% TBD Sales Tax. The ordinance irrevocably pledges the TBD 0.2% Sales Tax to the repayment of the debt and the use of general property tax to support repayment of bonds if TBD revenues are not adequate to meet the scheduled debt service. The staff report for the adoption of Ordinance No. 853 can be found at the following link: http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff report031819-7e.pdf.

The principal amount of all issues in the series is limited to \$42 million, which is the amount that staff estimates could be supported by the estimated \$59 million in revenue that would be collected over the 20 Year period. Ordinance No. 853 provided that each individual series of bond issues would be approved by the City Council through a sale resolution. Proposed Resolution No. 438 is the first sale resolution to be presented to Council in this series.

Staff is developing a schedule for the delivery of the sidewalk implementation plan (Attachment C). The issue of the first series of bonds is expected to support the delivery of design for approximately five (5) sidewalk projects and construction of four (4) of those projects. The next series will fund the construction of those designed in phase I but not able to be constructed (which is estimated to be one (1) project), along with the design of the next round of sidewalks. Should the actual design and construction costs exceed the estimated costs, then the next series will be issued sooner. Should the actual costs be less than estimated costs, then this issue would support more construction and design and the next issue might be postponed. The TBD Sales Tax Debt Analysis is provided as Attachment D.

DISCUSSION

Council discussed proposed Resolution No. 438 on June 3, 2019 and directed staff to return the resolution for adoption on consent calendar tonight. The staff report for the June 3 Council discussion is available at the following link: <u>http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff</u> report060319-9c.pdf.

Proposed Resolution No. 438 Delegation Parameters

The delegation parameters of the debt issue in proposed Resolution No. 438 are as follows:

Maximum Principal Amount Not to Exceed - \$10 Million. The actual amount of the issue will be determined in the next few months as the projects are further refined. Should the actual costs exceed the estimated costs, then the next series will be issued

sooner. Should the actual costs be less than estimated costs, then this issue would support more construction and design and the next issue might be postponed.

Method of sale – Resolution No. 438 delegates authority to issue the bonds through either a negotiated sale, private placement, or public sales depending on the market circumstances. Staff will work with the City's Financial Advisor to determine the best approach given market conditions and to conduct an RFP to ensure that the City obtains the best possible terms. Staff anticipates using either a negotiated or private placement, anticipating that the cost of conducting a public sale would not provide enough interest rate advantage to offset the additional cost.

Maturity Date - Bonds will be issued with maturity date no later than December 31, 2034.

True Interest Cost not to exceed - 3.0%.

FINANCIAL IMPACT

This initial series will be for an amount not to exceed \$10,000,000. Issuance costs are estimated at \$49,500 and annual debt service is estimated at \$800,000 per year for 15 years. Issuance costs and debt service will be paid by the TBD 0.2% sales tax revenue over a term not to exceed 15 years.

RECOMMENDATION

Staff recommends that Council adopt Resolution No. 438.

ATTACHMENTS

Attachment A: Resolution No. 438Attachment B: Ordinance No. 853Attachment C: Draft Schedule for Sidewalk ImplementationAttachment D: TBD Sales Tax Debt Analysis

CITY OF SHORELINE, WASHINGTON

LIMITED TAX GENERAL OBLIGATION BONDS

RESOLUTION NO. 438

A RESOLUTION OF THE CITY OF SHORELINE, WASHINGTON, APPROVING THE SALE OF THE CITY'S LIMITED TAX **GENERAL OBLIGATION BONDS, 2019 IN THE AGGREGATE** PRINCIPAL AMOUNT OF NOT TO EXCEED \$10,000,000 TO PROVIDE FUNDS TO FINANCE THE COSTS OF CARRYING OUT CERTAIN TRANSPORTATION IMPROVEMENT PROJECTS AND TO PAY COSTS OF ISSUING THE BONDS: DELEGATING CERTAIN AUTHORITY TO APPROVE THE FINAL TERMS OF THE BONDS; AND PROVIDING FOR OTHER MATTERS RELATED THERETO, ALL ACCORDANCE IN WITH **ORDINANCE NO. 853 OF THE CITY.**

WHEREAS, the City Council (the "Council") of the City of Shoreline, Washington (the "City") by Ordinance No. 853 passed on February 25, 2019 (the "Bond Ordinance"), authorized the issuance and sale of one or more series of limited tax general obligation bonds of the City in the aggregate principal amount of not to exceed \$42,000,000 (the "Bonds") for the purpose of providing funds to finance costs related to transportation improvement projects (as defined in the Bond Ordinance, the "Projects") and to pay costs of issuing each series of Bonds; and

WHEREAS, the terms of each series of Bonds shall be consistent with the Bond Ordinance and the provisions of and additional parameters set forth in a sale resolution to be considered and approved by the Council in connection with each series of Bonds; and

WHEREAS, after due consideration the Council has determined that it is in the best interest of the City to authorize the issuance and sale of a first series of limited tax general obligation bonds (the "2019 Bonds") under the terms of the Bond Ordinance and this resolution to pay a portion of the costs of the Projects; and

WHEREAS, this Council wishes to delegate authority to the City Manager (the "Designated Representative"), for a limited time, to approve the interest rates, maturity dates, denominations, redemption terms and other terms of the 2019 Bonds within the parameters set by this resolution;

BE IT RESOLVED, BY THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON:

Section 1. Definitions. Except as otherwise defined herein, capitalized terms used in this resolution have the meanings set forth in the Bond Ordinance. As used herein, the following terms shall have the following meanings:

Bond Ordinance means Ordinance No 853 of the City passed on February 25, 2019, as it may be amended, replaced and/or supplemented from time to time.

2019 Bonds mean the Limited Tax General Obligation Bonds, 2019 authorized to be issued in the aggregate principal amount of not to exceed \$10,000,000 under the terms of this resolution and the Bond Ordinance.

Section 2. Authorization of Issuance and Sale of the 2019 Bonds. The Issuance of the 2019 Bonds, designated as the "City of Shoreline, Washington Limited Tax General Obligation Bonds, 2019," in the aggregate principal amount of not to exceed \$10,000,000, dated as of their date of delivery, is hereby approved. The 2019 Bonds shall be fully registered as to both principal and interest; shall be in the denomination of \$5,000 each, or any integral multiple thereof, within a maturity; shall be numbered separately in such manner and with any additional designation as the Bond Registrar deems necessary for purposes of identification; shall bear interest from their date payable on the dates and commencing as provided in the Sale Document; and shall mature on the dates and in the principal amounts set forth in the Sale Document, as approved and executed by the Designated Representative pursuant to this resolution. The 2019 Bonds shall be sold as Direct Purchase Bonds or Underwritten Bonds.

Section 3. Redemption.

(a) *Redemption of Bonds*. The 2019 Bonds shall be subject to mandatory redemption to the extent, if any, as set forth in the applicable Sale Document and as approved by the Designated Representative pursuant to Section 4 of this resolution. The 2019 Bonds shall be subject to optional redemption and/or prepayment on the dates, at the prices and under the terms set forth in the applicable Sale Document approved by the Designated Representative pursuant to Section 4.

(b) *Purchase of Bonds*. The City reserves the right to purchase any or all of the 2019 Bonds offered to the City at any time at any price acceptable to the City plus accrued interest to the date of purchase.

(c) Selection of Bonds for Redemption. If the Underwritten Bonds of a series are held in book-entry only form, the selection of particular Underwritten Bonds within a series and maturity to be redeemed shall be made in accordance with the operational arrangements then in effect at DTC. If the Underwritten Bonds are no longer held by a depository, the selection of such Underwritten Bonds to be redeemed and the surrender and reissuance thereof, as applicable, shall be made as provided in the following provisions of this subsection (c). If the City redeems at any one time fewer than all of the Underwritten Bonds or portions of

Underwritten Bonds of such maturity to be redeemed shall be selected by lot (or in such manner determined by the Bond Registrar) in increments of \$5,000. In the case of an Underwritten Bond of a denomination greater than \$5,000, the City and the Bond Registrar shall treat each Underwritten Bond as representing such number of separate Underwritten Bonds each of the denomination of \$5,000 as is obtained by dividing the actual principal amount of such Underwritten Bond by \$5,000. In the event that only a portion of the principal sum of a Underwritten Bond is redeemed, upon surrender of such Underwritten Bond at the designated office of the Bond Registrar there shall be issued to the Registered Owner, without charge therefor, for the then unredeemed balance of the principal sum thereof, at the option of the Registered Owner, a Underwritten Bond or Bonds of like series, maturity and interest rate in any of the denominations herein authorized.

(d) *Notice of Redemption or Prepayment.*

(1) <u>Official Notice</u>. Notice of any prepayment of Direct Purchase Bonds shall be provided by the City to the Direct Purchaser as provided in the applicable Sale Document.

For so long as the Underwritten Bonds of a series are held by a depository, notice of redemption (which notice may be conditional) shall be given in accordance with the operational arrangements of DTC as then in effect, and neither the City nor the Bond Registrar will provide any notice of redemption to any Beneficial Owners. Thereafter (if the Underwritten Bonds are no longer held in uncertificated form), notice of redemption shall be given in the manner hereinafter provided. Unless waived by any owner of Underwritten Bonds to be redeemed, official notice of any such redemption shall be given by the Bond Registrar on behalf of the City by mailing a copy of an official redemption notice by first class mail at least 20 days and not more than 60 days prior to the date fixed for redemption to the Registered Owner of the Underwritten Bond or Bonds to be redeemed at the address shown on the Bond Registrar.

All official notices of redemption shall be dated and shall state: (A) the redemption date, (B) the redemption price, (C) if fewer than all outstanding Underwritten Bonds of such series are to be redeemed, the identification by maturity (and, in the case of partial redemption, the respective principal amounts) of the Bonds to be redeemed, (D) any conditions to redemption; (E) that (unless such notice is conditional) on the redemption date the redemption price will become due and payable upon each such Underwritten Bond or portion thereof called for redemption, and that interest thereon shall cease to accrue from and after said date, and (F) the place where such Underwritten Bonds are to be surrendered for payment of the redemption price, which place of payment shall be the designated office of the Bond Registrar.

On or prior to any redemption date, unless any condition to such redemption has not been satisfied or waived or notice of such redemption has been rescinded, the City shall deposit with the Bond Registrar an amount of money sufficient to pay the redemption price of all the Underwritten Bonds or portions of Underwritten Bonds which are to be redeemed on that date. The City retains the right to rescind any redemption notice and the related optional redemption of Underwritten Bonds by giving notice of rescission to the affected registered owners at any time on or prior to the scheduled redemption date. Any notice of optional redemption that is so rescinded shall be of no effect, and the Underwritten Bonds for which the notice of optional redemption has been rescinded shall remain outstanding.

If notice of redemption has been given and not rescinded or revoked, or if the conditions set forth in a conditional notice of redemption have been satisfied or waived, the Underwritten Bonds or portions of Underwritten Bonds to be redeemed shall, on the redemption date, become due and payable at the redemption price therein specified, and, if the Bond Registrar then holds sufficient funds to pay such Underwritten Bonds or portions of Underwritten Bonds shall cease to bear interest. Upon surrender of such Underwritten Bonds shall be paid by the Bond Registrar at the redemption price. Installments of interest due on or prior to the redemption date shall be payable as herein provided for payment of interest. All Underwritten Bonds which have been redeemed shall be canceled by the Bond Registrar at shall not be reissued.

If addition to the foregoing notice, further notice shall be given by the City as set out below, but no defect in said further notice nor any failure to give all or any portion of such further notice shall in any manner defeat the effectiveness of a call for redemption if notice thereof is given as above prescribed. Each further notice of redemption given hereunder shall contain the information required above for an official notice of redemption plus (A) the CUSIP numbers of all Underwritten Bonds being redeemed; (B) the date of issue of the Underwritten Bonds as originally issued; (C) the rate of interest borne by each Underwritten Bond being redeemed; (D) the maturity date of each Underwritten Bond being redeemed; and (E) any other descriptive information needed to identify accurately the Underwritten Bonds being redeemed. Each further notice of redemption may be sent at least 20 days before the redemption date to each party entitled to receive notice pursuant to the Continuing Disclosure Certificate and with such additional information as the City shall deem appropriate, but such mailings shall not be a condition precedent to the redemption of such Underwritten Bonds.

The foregoing notice provisions of this Section 3, including but not limited to the information to be included in redemption notices and the persons designated to receive notices, may be amended by additions, deletions and changes in order to maintain compliance with duly promulgated regulations and recommendations regarding notices of redemption of municipal securities.

Section 4. Acceptance of Offer/Authorization of Sale Document.

(a) *Bond Sale*. The Council has determined that it would be in the best interest of the City to delegate to the Designated Representative for a limited time the authority to determine the method of sale for the 2019 Bonds, and to approve the final interest rates, maturity dates, redemption terms and principal maturities for the 2019 Bonds. The Designated Representative is hereby authorized to approve the issuance of the 2019 Bonds and to approve whether the 2019 Bonds shall be sold in a private placement to a Direct

Purchaser or to an Underwriter through a competitive public sale or a negotiated sale, as set forth in the Bond Ordinance.

(b) *Sale Parameters.* The Designated Representative is hereby authorized to approve the method of sale and the final interest rates, aggregate principal amount, principal maturities, denomination(s), and redemption rights for the 2019 Bonds in the manner provided hereafter so long as:

(1) the aggregate principal (face) amount of the 2019 Bonds does not exceed $\frac{10,000,000}{0}$,

- (2) the final maturity date for the 2019 Bonds is no later than 12/1/2034,
- (3) the true interest cost for the 2019 Bonds does not exceed 3.00%,
- (4) the 2019 Bonds are sold (in the aggregate) at a price not less than

98%; and

(5) all other terms of the 2019 Bonds are otherwise in compliance with the terms of the Bond Ordinance and this resolution.

Subject to the terms and conditions set forth in this section and the Bond Ordinance, the Designated Representative is hereby authorized to execute the applicable Sale Document for the 2019 Bonds. Following the execution of the applicable Sale Document, the Designated Representative shall provide a report to the Council describing the final terms of the 2019 Bonds approved pursuant to the authority delegated in this section.

The authority granted to the Designated Representative by this section shall expire one year (365 days) after the effective date of this resolution. If a Sale Document for the 2019 Bonds has not been executed by such date, the authorization for the issuance of such series of 2019 Bonds shall be rescinded, and such 2019 Bonds shall not be issued nor their sale approved unless such 2019 Bonds shall have been re-authorized by resolution of the Council.

(c) *Delivery of Bonds; Documentation.* The proper officials of the City, including the Mayor, Administrative Services Director, City Clerk and City Manager, are authorized and directed to undertake all action necessary for the prompt execution and delivery of the 2019 Bonds to the purchaser thereof and further to execute all closing certificates and documents required to effect the closing and delivery of the 2019 Bonds in accordance with the terms of the applicable Sale Document. Such documents may include, but are not limited to, documents related to a bond insurance policy delivered by a bond insurer to insure the payment when due of the principal of and interest on all or a portion the 2019 Bonds as provided therein, if such insurance is determined by the Designated Representative to be in the best interest of the City.

(g) *Preliminary and Final Official Statements*. The Administrative Services Director and the City Manager are each hereby authorized to deem final the preliminary Official Statement(s) relating to any Underwritten Bonds for the purposes of the Rule. The

Administrative Services Director and the City Manager are each further authorized to approve for purposes of the Rule, on behalf of the City, the final Official Statement(s) relating to the issuance and sale of any Underwritten Bonds and the distribution of the final Official Statement pursuant thereto with such changes, if any, as may be deemed to be appropriate.

Section 5. Security; Combined Issues. The Bonds authorized herein may be combined with other limited tax general obligation bonds of the City and sold as a single series and issue if determined to be in the best interest of the City. In the event that the Bonds authorized herein are combined with other limited tax general obligation bonds of the City and sold as a single series, the TBD Revenues shall be pledged to the portion of the combined series of bonds allocable to the Projects and related costs of issuance.

Section 6. Further Authority. The City Officials, their agents and representatives are hereby authorized and directed to do everything necessary for the prompt issuance and delivery of the 2019 Bonds and for the proper use and application of the proceeds of such sale.

Section 7. Severability. The covenants contained in this resolution shall constitute a contract between the City and the owners of each and every 2019 Bond. If any one or more of the covenants or agreements provided in this resolution to be performed on the part of the City shall be declared by any court of competent jurisdiction to be contrary to law, then such covenant or covenants, agreement or agreements, shall be null and void and shall be deemed separable from the remaining covenants and agreements of this resolution and shall in no way affect the validity of the other provisions of this resolution or of the 2019 Bonds.

Section 8. Effective Date. This resolution shall be effective after its passage as provided by law.

PASSED BY THE CITY COUNCIL ON JUNE 17, 2019.

Mayor Will Hall

ATTEST:

APPROVED AS TO FORM:

Jessica Simulcik-Smith City Clerk Pacifica Law Group LLP Bond Counsel

CERTIFICATE

I, the undersigned, City Clerk of the City Council of the City of Shoreline, Washington (the "City"), DO HEREBY CERTIFY:

1. The attached copy of Resolution No. ____ (the "Resolution") is a full, true and correct copy of a resolution duly passed at a regular meeting of the City Council of the City held at the regular meeting place thereof on ______, 2019 as that Resolution appears in the minute book of the City; and the resolution will be in full force and effect after its passage and publication as provided by law; and

2. That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a legal quorum was present throughout the meeting and a legally sufficient number of members of the Council voted in the proper manner for the passage of said Resolution; that all other requirements and proceedings incident to the proper passage of said Resolution have been fully fulfilled, carried out and otherwise observed; and that I am authorized to execute this certificate.

3. That Resolution No. ____ has not been amended, supplemented or rescinded since its passage and is in full force and effect and that I am authorized to execute this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand this _____ day of _____, 2019.

City Clerk



ORDINANCE NO. 853

AN ORDINANCE OF THE CITY OF SHORELINE, WASHINGTON, AUTHORIZING THE ISSUANCE OF ONE OR MORE SERIES OF LIMITED TAX GENERAL OBLIGATION BONDS IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$42,000,000 TO FINANCE COSTS RELATED TO TRANSPORTATION IMPROVEMENT PROJECTS AND TO PAY COSTS OF ISSUING EACH SERIES OF BONDS; PROVIDING THE FORM, TERMS AND COVENANTS OF THE BONDS; AND PROVIDING FOR OTHER MATTERS RELATING THERETO.

WHEREAS, Chapter 36.73 RCW enables cities and counties to create transportation benefit districts to finance and carry out transportation improvements necessitated by economic development and to improve the performance of transportation systems; and

WHEREAS, pursuant to Chapter 36.73 RCW, on June 25, 2009 the Shoreline City Council (the "Council" or the "City Council") approved Ordinance No. 550 creating the Shoreline Transportation Benefit District (the "District") with boundaries coterminous with the City of Shoreline, Washington (the "City"); and

WHEREAS, the District was originally organized as a legally separate municipal entity and taxing authority from the City; and

WHEREAS, on October 22, 2015, the City Council approved Ordinance No. 726, whereby the Council assumed the rights, powers, immunities, functions and obligations of the District, as allowed by Second Engrossed Substitute Senate Bill 5987, Section 302 (July 15, 2015), and as a result, the District was absorbed into the City and is no longer considered a legally separate entity; and

WHEREAS, Chapter 36.73 RCW permits the City (acting through its assumed powers of the District) to impose various fees and charges with and without a public vote, including vehicle licensing fees and sales and use taxes; and

WHEREAS, on November 8, 2018, the qualified electorate in the City approved a sales and use tax in accordance with RCW 82.14.0455 in the amount of two-tenths of one percent (0.2%) for a period of not more than 20 years (the "TBD Sales and Use Tax") for the purpose of paying debt service on bonds issued to finance the construction, maintenance, rehabilitation, repair and/or preservation of (a) sidewalks and pedestrian improvements in the City in order to improve pedestrian access and safety and/or the extension of the condition and life cycle of the City's sidewalk pedestrian system, and (b) other sidewalks in the City, including those identified in the Sidewalk Prioritization Plan and related Prioritization Matrix (as defined in Resolution No. 430 adopted by the Council on July 30, 2018, and as each may be amended, supplemented and restated from time to time), and to provide for related pedestrian improvements as set out in the City's American with Disabilities Act Transition Plan through the City's annual budget (as further defined in Resolution No. 430, the "Projects"); and

WHEREAS, the City Council now determines that it is in the best interest of the City to



make such transportation improvement Projects; and

WHEREAS, after due consideration the Council has further determined that it is in the best interest of the City to authorize the issuance and sale from time to time of one or more series of limited tax general obligation bonds (as further defined herein, the "Bonds") to pay a portion of the costs of the Projects and related costs of issuance; and

WHEREAS, the Bonds authorized herein shall be payable from and secured by, among other sources of funds, transportation benefit district revenue received by the City (acting through its assumed powers of the District) under Chapter 36.73 RCW from the TBD Sales and Use Tax (the "TBD Revenue"); and

WHEREAS, the terms of each series of Bonds shall be consistent with this ordinance and the provisions of and additional parameters set forth in a sale resolution (the "Sale Resolution") to be considered and approved by the Council in connection with each series of Bonds; and

WHEREAS, the Council now desires to authorize the issuance of one or more series of Bonds, subject to the provisions of the applicable Sale Resolution, as set forth herein;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. Definitions. As used in this ordinance, the following words and terms shall have the following meanings, unless the context or use indicates another or different meaning or intent. Unless the context indicates otherwise, words importing the singular number shall include the plural number and vice versa.

Administrative Services Director means the City's Administrative Services Director or the successor to such officer.

Beneficial Owner means any person that has or shares the power, directly or indirectly, to make investment decisions concerning ownership of any Underwritten Bonds (including persons holding Underwritten Bonds through nominees, depositories or other intermediaries).

Bond Counsel means Pacifica Law Group LLP or an attorney at law or a firm of attorneys, selected by the City, of nationally recognized standing in matters pertaining to the tax-exempt nature of interest on bonds issued by states and their political subdivisions.

Bond Purchase Contract means one or more contracts, if any, for the purchase of any Underwritten Bonds sold by negotiated sale to the initial purchaser, executed pursuant to Section 12 and the applicable Sale Resolution.

Bond Register means the registration books showing the name, address and tax identification number of each Registered Owner of a series of Bonds, maintained for the Bonds in the manner required pursuant to Section 149(a) of the Code.


Bond Registrar means (a) for any Underwritten Bonds, initially, the fiscal agent of the State, and (b) for any Direct Purchase Bonds, the Administrative Services Director of the City or the fiscal agent of the State, as set forth in the Sale Resolution.

Bonds mean the limited tax general obligation bonds authorized to be issued from time to time in one or more series pursuant to this ordinance in the aggregate principal amount of not to exceed \$42,000,000.

Certificate of Award means one or more certificates, if any, for the purchase of any Underwritten Bonds sold by competitive sale awarding the Bonds of a series to the bidder as set forth in Section 12 of this ordinance and the applicable Sale Resolution.

City means the City of Shoreline, Washington, a municipal corporation duly organized and existing by virtue of the laws of the State.

City Attorney means the duly appointed and acting City Attorney of the City, including anyone acting in such capacity for the position, or the successor to the duties of that office.

City Clerk means the duly appointed and acting City Clerk of the City or the successor to the duties of that office.

City Manager means the duly appointed and acting City Manager of the City or the successor to the duties of such office.

City Mayor or *Mayor* means the duly elected and acting Mayor of the City or the successor to the duties of such office.

Closing means the date of issuance and delivery of a series of Bonds to the applicable Underwriter or Direct Purchaser.

Code means the Internal Revenue Code of 1986 as in effect on the date of issuance of the Tax-Exempt Bonds or (except as otherwise referenced herein) as it may be amended to apply to obligations issued on the date of issuance of the Tax-Exempt Bonds, together with applicable proposed, temporary and final regulations promulgated, and applicable official public guidance published, under the Code.

Commission means the United States Securities and Exchange Commission.

Continuing Disclosure Certificate means one or more written undertakings for the benefit of the owners and Beneficial Owners of any Underwritten Bonds as required by Section (b)(5) of the Rule.

Council or *City Council* means the Shoreline City Council, as the general legislative body of the City, as the same is duly and regularly constituted from time to time.

Debt Service Fund means one or more funds or accounts created pursuant to this ordinance for the purpose of paying debt service on a series of Bonds.



Designated Representative means the City Manager of the City, or his or her written designee.

Direct Purchase Bonds means any Bond or Bonds sold to a Direct Purchaser pursuant to Section 12 of this ordinance and the applicable Sale Resolution.

Direct Purchaser means any bank or other financial institution selected to purchase one or more Direct Purchase Bonds (or to accept delivery of one or more Direct Purchase Bonds to evidence the City's obligations under a Loan Agreement) pursuant to Section 12 of this ordinance.

District means the Shoreline Transportation Benefit District established by the City pursuant to Chapter 36.73 RCW and Ordinance No. 550 of the City Council, as the same may be amended from time to time.

DTC means The Depository Trust Company, New York, New York, a limited purpose trust company organized under the laws of the State of New York, as depository for any Underwritten Bonds pursuant to this ordinance.

Fair Market Value means the price at which a willing buyer would purchase an investment from a willing seller in a bona fide, arm's-length transaction, except for specified investments as described in Treasury Regulation § 1.148-5(d)(6), including United States Treasury obligations, certificates of deposit, guaranteed investment contracts, and investments for yield restricted defeasance escrows. Fair Market Value is generally determined on the date on which a contract to purchase or sell an investment becomes binding, and, to the extent required by the applicable regulations under the Code, the term "investment" will include a hedge.

Federal Tax Certificate means one or more certificates of the City pertaining to the taxexemption of interest on a series of Tax-Exempt Bonds, and any attachments thereto.

Government Obligations means those obligations now or hereafter defined as such in Chapter 39.53 RCW constituting direct obligations of, or obligations the principal of and interest on which are unconditionally guaranteed by, the United States of America, as such Chapter may be hereafter amended or restated.

Letter of Representations means the Blanket Issuer Letter of Representations given by the City to DTC, as amended from time to time.

Loan Agreement means one or more loan or purchase agreements, if any, between the City and a Direct Purchaser under which the Direct Purchaser will make a loan to the City, evidenced by a Direct Purchase Bond, or under which the Direct Purchaser will purchase the Direct Purchase Bond.

MSRB means the Municipal Securities Rulemaking Board or any successors to its functions.

Official Statement means the disclosure documents prepared and delivered in connection with the issuance of any Underwritten Bonds.



Project Fund means the fund or account created pursuant to Section 8 of this ordinance.

Projects mean the transportation improvement projects identified in the TBD Sales and Use Tax Resolution that are eligible transportation benefit district projects as described in Chapter 36.73 RCW and Shoreline Municipal Code 3.60.020.

Record Date means the Bond Registrar's close of business on the 15th day of the month preceding an interest payment date. With respect to redemption of a Bond prior to its maturity, the Record Date shall mean the Bond Registrar's close of business on the date on which the Bond Registrar sends the notice of redemption in accordance with this ordinance.

Registered Owner means the person named as the registered owner of a Bond in the Bond Register. For so long as the Bonds of a series are held in book-entry only form, DTC or its nominee shall be deemed to be the sole Registered Owner.

Rule means the Commission's Rule 15c2-12 under the Securities Exchange Act of 1934, as the same may be amended from time to time.

Sale Document means the Bond Purchase Contract, Certificate of Award or Loan Agreement, if any, executed by a Designated Representative in connection with the sale of a series of Bonds pursuant to Section 12 of this ordinance and the applicable Sale Resolution.

Sale Resolution means a resolution of the City Council adopted in connection with each series of Bonds pursuant to Section 12 of this ordinance.

State means the State of Washington.

Taxable Bonds means any Bonds determined to be issued on a taxable basis pursuant to Section 12.

Tax-Exempt Bonds mean any Bonds determined to be issued on a tax-exempt basis under the Code pursuant to Section 12.

TBD Revenue means revenue remitted to the City from the TBD Sales and Use Tax.

TBD Sales and Use Tax means the sales and use tax imposed by the City (acting through its assumed powers of the District) in accordance with RCW 82.14.0455 and Chapter 36.73 RCW, as each may be amended from time to time, in the current amount of two-tenths of one percent (0.2%) and approved by the qualified electors in the City on November 8, 2018, as further described in the TBD Sales and Use Tax Resolution.

TBD Sales and Use Tax Resolution means Resolution No. 430 adopted by the Council on July 30, 2018, and any amendments thereto.

Underwriter means any underwriter, in the case of a negotiated sale, or initial purchaser, in the case of a competitive sale, for a series of Bonds selected pursuant to Section 12.



Underwritten Bonds means Bonds of a series, if any, sold pursuant to a negotiated or a competitive sale by the City to an Underwriter pursuant to Section 12 of this ordinance and the applicable Sale Resolution.

Section 2. Authorization of the Projects. The Council hereby approves the construction, maintenance, rehabilitation, repair and/or preservation of the Projects, as such Projects are to be more fully described in the plans and specifications prepared by and filed with the City.

The cost of all necessary appraisals, negotiation, closing, architectural, engineering, financial, legal and other consulting services, inspection and testing, demolition, administrative and relocation expenses and other costs incurred in connection with the foregoing capital improvements shall be deemed a part of the capital costs of such Projects. Such Projects shall be complete with all necessary equipment and appurtenances.

The City will determine the exact specifications for the Projects, and the components thereof, as well as the timing, order and manner of completing the components of the Projects. The City may alter, make substitutions to, and amend the Projects as it determines are in the best interests of the City and consistent with the general descriptions provided herein.

Section 3. Authorization and Description of Bonds. For the purpose of paying and/or reimbursing the City for costs of the Projects and paying costs of issuance, the City is hereby authorized to issue and sell from time to time one or more series of limited tax general obligation bonds in an aggregate principal amount not to exceed \$42,000,000 (the "Bonds").

The Bonds of each series shall be general obligations of the City and shall be designated "City of Shoreline, Washington, Limited Tax General Obligation Bond[s]," with the year and any applicable series or other designation, all as established by the related Sale Resolution. The Bonds of each series shall be fully registered as to both principal and interest and shall be numbered separately in such manner and with any additional designation as the Bond Registrar deems necessary for purposes of identification. The Bonds of each series shall be dated as of the date of Closing for such series of Bonds and shall mature on the date or dates and in the principal amounts, bear interest at the rates and payable on such dates, be subject to redemption and/or purchase prior to maturity, and be subject to other terms and parameters set forth in the applicable Sale Resolution. The Bonds of each series shall be sold as either Direct Purchase Bonds or Underwritten Bonds.

Section 4. Registration, Exchange and Payments.

(a) *Underwritten Bonds*. The terms of this Section 4(a) shall apply to any Underwritten Bonds unless otherwise provided for in the applicable Sale Resolution.

(1) <u>Bond Details</u>. Any Bonds of a series may be sold as Underwritten Bonds. Underwritten Bonds shall be issued in denominations of \$5,000 each, or any integral multiple thereof, within a series and maturity.

(2) <u>Bond Registrar/Bond Register</u>. The City hereby specifies and adopts the system of registration approved by the Washington State Finance Committee from time to time through the appointment of State fiscal agencies. The City shall cause the Bond Register to be



maintained by the Bond Registrar. So long as any Underwritten Bonds of a series remain outstanding, the Bond Registrar shall make all necessary provisions to permit the exchange or registration or transfer of such Underwritten Bonds at its designated office. The Bond Registrar may be removed at any time at the option of the Administrative Services Director upon prior notice to the Bond Registrar and a successor Bond Registrar appointed by the Administrative Services Director. No resignation or removal of the Bond Registrar shall be effective until a successor shall have been appointed and until the successor Bond Registrar shall have accepted the duties of the Bond Registrar hereunder. The Bond Registrar is authorized, on behalf of the City, to authenticate and deliver Underwritten Bonds transferred or exchanged in accordance with the provisions of such Bonds and this ordinance and to carry out all of the Bond Registrar's powers and duties under this ordinance. The Bond Registrar shall be responsible for its representations contained in the certificate of authentication on the Bonds.

(3) <u>Registered Ownership</u>. The City and the Bond Registrar, each in its discretion, may deem and treat the Registered Owner of each Underwritten Bond of a series as the absolute owner thereof for all purposes (except as provided in a Continuing Disclosure Certificate), and neither the City nor the Bond Registrar shall be affected by any notice to the contrary. Payment of any such Underwritten Bond shall be made only as described in Section 4(a)(8), but such Underwritten Bond may be transferred as herein provided. All such payments made as described in Section 4(a)(8) shall be valid and shall satisfy and discharge the liability of the City upon such Underwritten Bond to the extent of the amount or amounts so paid.

DTC Acceptance/Letters of Representations. The Underwritten Bonds of a (4) series initially shall be held in fully immobilized form by DTC acting as depository. The City has executed and delivered to DTC the Letter of Representations. Neither the City nor the Bond Registrar shall have any responsibility or obligation to DTC participants or the persons for whom they act as nominees (or any successor depository) with respect to the Underwritten Bonds in respect of the accuracy of any records maintained by DTC (or any successor depository) or any DTC participant, the payment by DTC (or any successor depository) or any DTC participant of any amount in respect of the principal of or interest on Underwritten Bonds, any notice which is permitted or required to be given to Registered Owners under this ordinance (except such notices as shall be required to be given by the City to the Bond Registrar or to DTC (or any successor depository)), or any consent given or other action taken by DTC (or any successor depository) as the Registered Owner. For so long as any Underwritten Bonds are held by a depository, DTC or its successor depository or its nominee shall be deemed to be the Registered Owner for all purposes hereunder, and all references herein to the Registered Owners shall mean DTC (or any successor depository) or its nominee and shall not mean the owners of any beneficial interest in such Underwritten Bonds.

(5) <u>Use of Depository</u>.

(A) The Underwritten Bonds of a series shall be registered initially in the name of "Cede & Co.", as nominee of DTC, with one Underwritten Bond of each series maturing on each of the maturity dates for such Underwritten Bonds in a denomination corresponding to the total principal therein designated to mature on such date. Registered ownership of such Underwritten Bonds, or any portions thereof, may not thereafter be transferred except (i) to any successor of DTC or its nominee, provided that any such successor shall be



qualified under any applicable laws to provide the service proposed to be provided by it; (ii) to any substitute depository appointed by the Administrative Services Director pursuant to subparagraph (B) below or such substitute depository's successor; or (iii) to any person as provided in subparagraph (D) below.

(B) Upon the resignation of DTC or its successor (or any substitute depository or its successor) from its functions as depository or a determination by the Administrative Services Director to discontinue the system of book entry transfers through DTC or its successor (or any substitute depository or its successor), the Administrative Services Director may hereafter appoint a substitute depository. Any such substitute depository shall be qualified under any applicable laws to provide the services proposed to be provided by it.

(C) In the case of any transfer pursuant to clause (i) or (ii) of paragraph (A) above, the Bond Registrar shall, upon receipt of all outstanding Underwritten Bonds together with a written request on behalf of the Administrative Services Director, issue a single new Underwritten Bond for each maturity of that series then outstanding, registered in the name of such successor or such substitute depository, or their nominees, as the case may be, all as specified in such written request of the Administrative Services Director.

(D) In the event that (i) DTC or its successor (or substitute depository or its successor) resigns from its functions as depository, and no substitute depository can be obtained, or (ii) the Administrative Services Director determines that it is in the best interest of the Beneficial Owners of the Underwritten Bonds that such owners be able to obtain physical bond certificates, the ownership of such Underwritten Bonds may then be transferred to any person or entity as herein provided, and shall no longer be held by a depository. The Administrative Services Director shall deliver a written request to the Bond Registrar, together with a supply of physical bonds, to issue Underwritten Bonds as herein provided in any authorized denomination. Upon receipt by the Bond Registrar of all then outstanding Underwritten Bonds of a series together with a written request on behalf of the Administrative Services Director to the Bond Registrar, new Underwritten Bonds of such series shall be issued in the appropriate denominations and registered in the names of such persons as are requested in such written request.

Registration of Transfer of Ownership or Exchange; Change in (6) Denominations. The transfer of any Underwritten Bond may be registered and Underwritten Bonds may be exchanged, but no transfer of any such Underwritten Bond shall be valid unless it is surrendered to the Bond Registrar with the assignment form appearing on such Underwritten Bond duly executed by the Registered Owner or such Registered Owner's duly authorized agent in a manner satisfactory to the Bond Registrar. Upon such surrender, the Bond Registrar shall cancel the surrendered Underwritten Bond and shall authenticate and deliver, without charge to the Registered Owner or transferee therefor, a new Underwritten Bond (or Underwritten Bonds at the option of the new Registered Owner) of the same date, series, maturity, and interest rate and for the same aggregate principal amount in any authorized denomination, naming as Registered Owner the person or persons listed as the assignee on the assignment form appearing on the surrendered Underwritten Bond, in exchange for such surrendered and cancelled Underwritten Bond. Any Underwritten Bond may be surrendered to the Bond Registrar and exchanged, without charge, for an equal aggregate principal amount of Underwritten Bonds of the same date, series, maturity, and interest rate, in any authorized denomination. The Bond Registrar shall not be



obligated to register the transfer of or to exchange any Underwritten Bond during the 15 days preceding any principal payment or redemption date.

(7) <u>Bond Registrar's Ownership of Bonds</u>. The Bond Registrar may become the Registered Owner of any Underwritten Bond with the same rights it would have if it were not the Bond Registrar, and to the extent permitted by law, may act as depository for and permit any of its officers or directors to act as a member of, or in any other capacity with respect to, any committee formed to protect the right of the Registered Owners or Beneficial Owners of Bonds.

(8) <u>Place and Medium of Payment</u>. Both principal of and interest on the Underwritten Bonds shall be payable in lawful money of the United States of America. Interest on the Underwritten Bonds shall be calculated on the basis of a year of 360 days and twelve 30-day months. For so long as all Underwritten Bonds are held by a depository, payments of principal thereof and interest thereon shall be made as provided in accordance with the operational arrangements of DTC referred to in the Letter of Representations. In the event that the Underwritten Bonds are no longer held by a depository, interest on the Underwritten Bonds shall be paid by check or draft mailed to the Registered Owners at the addresses for such Registered Owners appearing on the Bond Register on the Record Date, or upon the written request of a Registered Owner of more than \$1,000,000 of Underwritten Bonds (received by the Bond Registrar at least by the Record Date), such payment shall be made by the Bond Registrar by wire transfer to the account within the United States designated by the Registered Owner. Principal of the Underwritten Bonds shall be payable upon presentation and surrender of such Underwritten Bonds by the Registered Owners at the designated office of the Bond Registrar.

If any Underwritten Bond is duly presented for payment and funds have not been provided by the City on the applicable payment date, then interest will continue to accrue thereafter on the unpaid principal thereof at the rate stated on the Underwritten Bond until the Underwritten Bond is paid.

(b) *Direct Purchase Bonds*. The terms of this Section 4(b) shall apply to any Direct Purchase Bonds unless otherwise provided for in the applicable Sale Resolution.

(1) Bond Details. Any Bonds of a series may be sold as Direct Purchase Bonds.

(2) <u>Registrar/Bond Registrar</u>. The Administrative Services Director or the fiscal agent of the State shall act as Bond Registrar for any Direct Purchase Bonds. The Bond Registrar is authorized, on behalf of the City, to authenticate and deliver the Direct Purchase Bonds if transferred or exchanged in accordance with the provisions of the Direct Purchase Bonds and this ordinance and to carry out all of the Bond Registrar's powers and duties under this ordinance with respect to Direct Purchase Bonds.

(3) <u>Registered Ownership</u>. The City and the Bond Registrar may deem and treat the Registered Owner of any Direct Purchase Bond as the absolute owner for all purposes, and neither the City nor the Bond Registrar shall be affected by any notice to the contrary.

(4) <u>Transfer or Exchange of Registered Ownership</u>. Direct Purchase Bonds shall not be transferrable without the consent of the City unless (i) the Direct Purchaser's corporate name is changed and the transfer is necessary to reflect such change, (ii) the transferee is a



successor in interest of the Direct Purchaser by means of a corporate merger, an exchange of stock, or a sale of assets, or (iii) such transfer satisfies requirements set forth in the Sale Resolution relating to such Direct Purchase Bonds.

(5) <u>Place and Medium of Payment</u>. Both principal of and interest on Direct Purchase Bonds shall be payable in lawful money of the United States of America. Interest on Direct Purchase Bonds shall be calculated as provided in the applicable Sale Resolution or Loan Agreement relating to such Direct Purchase Bonds. Principal and interest on Direct Purchase Bonds shall be payable by check, warrant, ACH transfer or by other means mutually acceptable to the Direct Purchaser and the City.

Section 5. Redemption Prior to Maturity and Purchase of Bonds.

(a) *Redemption of Bonds*. The Bonds of each series shall be subject to optional and/or mandatory redemption prior to their stated maturity to the extent set forth in the related Sale Resolution.

(b) *Purchase of Bonds.* The City reserves the right to purchase any or all of the Bonds offered to it at any time at a price deemed reasonable by the Administrative Services Director plus accrued interest to the date of purchase.

Section 6. Form of Bonds. The Bonds of each series shall be in substantially the form set forth in Exhibit A, which is incorporated herein by this reference, with such changes thereto as may be approved by the City Council in the applicable Sale Resolution.

Section 7. Execution of Bonds. The Bonds of each series shall be executed on behalf of the City by the facsimile or manual signature of the Mayor and shall be attested to by the facsimile or manual signature of the City Clerk, and shall have the seal of the City impressed or a facsimile thereof imprinted, or otherwise reproduced thereon.

In the event any officer who shall have signed or whose facsimile signatures appear on any of the Bonds shall cease to be such officer of the City before said Bonds shall have been authenticated or delivered by the Bond Registrar or issued by the City, such Bonds may nevertheless be authenticated, delivered and issued and, upon such authentication, delivery and issuance, shall be as binding upon the City as though said person had not ceased to be such officer. Any Bond may be signed and attested on behalf of the City by such persons who, at the actual date of execution of such Bond shall be the proper officer of the City, although at the original date of such Bond such persons were not such officers of the City.

Only such Bonds as shall bear thereon a certificate of authentication manually executed by an authorized representative of the Bond Registrar shall be valid or obligatory for any purpose or entitled to the benefits of this ordinance. Such certificate of authentication shall be conclusive evidence that the Bonds so authenticated have been duly executed, authenticated and delivered hereunder and are entitled to the benefits of this ordinance and the applicable Sale Resolution.

Section 8. Application of Bond Proceeds; Project Fund. The Administrative Services Director is hereby authorized to create a fund or account (the "Project Fund"), and subaccounts therein as necessary, for the purposes set forth in this section. A portion of the



proceeds of each series of Bonds, net of any Direct Purchaser or Underwriter's discount and fees, shall be deposited in the Project Fund in the amounts specified in the closing memorandum prepared in connection with the issuance of such Bonds. Such proceeds shall be used to pay and/or reimburse the City for the costs of the Projects and, unless otherwise provided by the City, to pay costs of issuance of such Bonds.

The Administrative Services Director shall invest money in the Project Fund and the subaccounts contained therein in such obligations as may now or hereafter be permitted by law to cities of the State and which will mature prior to the date on which such money shall be needed, but only to the extent that the same are acquired, valued and disposed of at Fair Market Value. Upon completion of the Projects, any remaining Bond proceeds (including interest earnings thereon) may be used for other capital projects of the City or shall be transferred to the Debt Service Fund for the allocable series of Bonds.

Section 9. Tax Covenants. The City will take all actions necessary to assure the exclusion of interest on any Tax-Exempt Bonds from the gross income of the owners of such Tax-Exempt Bonds to the same extent as such interest is permitted to be excluded from gross income under the Code as in effect on the date of issuance of such Tax-Exempt Bonds, including but not limited to the following:

(a) *Private Activity Bond Limitation*. The City will assure that the proceeds of the Tax-Exempt Bonds are not so used as to cause the Tax-Exempt Bonds to satisfy the private business tests of Section 141(b) of the Code or the private loan financing test of Section 141(c) of the Code.

(b) Limitations on Disposition of Projects. The City will not sell or otherwise transfer or dispose of (i) any personal property components of the Projects other than in the ordinary course of an established government program under Treasury Regulation § 1.141-2(d)(4) or (ii) any real property components of the Projects, unless it has received an opinion of Bond Counsel to the effect that such disposition will not adversely affect the treatment of interest on the Tax-Exempt Bonds as excludable from gross income for federal income tax purposes.

(c) *Federal Guarantee Prohibition*. The City will not take any action or permit or suffer any action to be taken if the result of such action would be to cause any of the Tax-Exempt Bonds to be "federally guaranteed" within the meaning of Section 149(b) of the Code.

(d) *Rebate Requirement.* The City will take any and all actions necessary to assure compliance with Section 148(f) of the Code, relating to the rebate of excess investment earnings, if any, to the federal government, to the extent that such section is applicable to the Tax-Exempt Bonds.

(e) *No Arbitrage*. The City will not take, or permit or suffer to be taken, any action with respect to the proceeds of the Tax-Exempt Bonds which, if such action had been reasonably expected to have been taken, or had been deliberately and intentionally taken, on the date of issuance of the Tax-Exempt Bonds would have caused the Tax-Exempt Bonds to be "arbitrage bonds" within the meaning of Section 148 of the Code.



(f) *Registration Covenant*. The City will maintain a system for recording the ownership of each Tax-Exempt Bond that complies with the provisions of Section 149 of the Code until all Tax-Exempt Bonds have been surrendered and canceled.

(g) Record Retention. The City will retain its records of all accounting and monitoring it carries out with respect to the Tax-Exempt Bonds for at least three years after the Tax-Exempt Bonds mature or are redeemed (whichever is earlier); however, if the Tax-Exempt Bonds are redeemed and refunded, the City will retain its records of accounting and monitoring at least three years after the earlier of the maturity or redemption of the obligations that refunded the Tax-Exempt Bonds.

(h) *Compliance with Federal Tax Certificate*. The City will comply with the provisions of the Federal Tax Certificate with respect to a series of Tax-Exempt Bonds, which are incorporated herein as if fully set forth herein. The covenants of this Section will survive payment in full or defeasance of the Tax-Exempt Bonds.

(i) Bank Qualification. In the Federal Tax Certificate executed in connection with the issuance of each series of Tax-Exempt Bonds, the City may designate such Bonds as "qualified tax-exempt obligations" under Section 265(b)(3) of the Code for investment by financial institutions.

Section 10. Debt Service Fund and Provision for Tax Levy Payments. The City hereby authorizes the creation of one or more funds, and accounts held therein which may be one or more segregated accounts held within another fund, to be used for the payment of debt service on each series of Bonds, designated as the "Limited Tax General Obligation Bond Debt Service Fund" or other such designation selected by the City (the "Debt Service Fund"). No later than the date each payment of principal of or interest on the Bonds becomes due, the City shall transmit sufficient funds, from the Debt Service Fund or from other legally available sources, to the Bond Registrar for the payment of such principal or interest. Money in the Debt Service Fund may be invested in legal investments for City funds, but only to the extent that the same are acquired, valued and disposed of at Fair Market Value. Any interest or profit from the investment of such money shall be deposited in the Debt Service Fund.

The City hereby irrevocably covenants and agrees for as long as any of the Bonds are outstanding and unpaid that each year it shall include in its budget and levy an *ad valorem* tax upon all the property within the City subject to taxation in an amount that will be sufficient, together with all other revenues and money of the City legally available for such purposes, to pay the principal of and interest on the Bonds as the same shall become due.

The City hereby irrevocably pledges that the annual tax provided for herein to be levied for the payment of such principal and interest shall be within and as a part of the property tax levy permitted to cities without a vote of the electorate, and that a sufficient portion of each annual levy to be levied and collected by the City prior to the full payment of the principal of and interest on the Bonds will be and is hereby irrevocably set aside, pledged and appropriated for the payment of the principal of and interest on the Bonds. The full faith, credit and resources of the City are hereby irrevocably pledged for the annual levy and collection of such taxes and for the prompt payment of the principal of and interest on the Bonds when due.



The City hereby further irrevocably pledges all TBD Revenues to the portion of each series of Bonds issued to finance the Projects and related costs of issuance.

Section 11. Defeasance. In the event that the City, in order to effect the payment, retirement or redemption of any Bond, sets aside in the Debt Service Fund or in another special account, cash or noncallable Government Obligations, or any combination of cash and/or noncallable Government Obligations, in amounts and maturities which, together with the known earned income therefrom, are sufficient to redeem or pay and retire such Bond in accordance with its terms and to pay when due the interest and redemption premium, if any, thereon, and such cash and/or noncallable Government Obligations are irrevocably set aside and pledged for such purpose, then no further payments need be made into the Debt Service Fund for the payment of the principal of and interest on such Bond. The owner of a Bond so provided for shall cease to be entitled to any lien, benefit or security of this ordinance except the right to receive payment of principal, premium, if any, and interest from the Debt Service Fund or such special account, and such Bond shall be deemed to be not outstanding under this ordinance. The City shall give written notice of defeasance of any Bonds of a series in accordance with the applicable Continuing Disclosure Certificate.

Section 12. Sale of Bonds; Sale Resolution.

(a) *Bond Sale*. The Bonds authorized hereunder shall be sold from time to time in one or more series, any of which may be sold in a combined offering with other limited tax general obligation bonds and/or notes of the City, at the option of the Designated Representative. The Bonds of each series shall be sold pursuant to the applicable Sale Resolution adopted by the City Council.

(b) Sale Resolution. Consistent with Chapter 39.46 RCW, the Sale Resolution shall authorize a designated representative, which may be the Designated Representative identified in this ordinance, to accept, on behalf of the City, an offer to purchase the applicable series of Bonds, which acceptance must be consistent with the terms of this ordinance and the terms and any additional parameters set forth in the Sale Resolution. The Sale Resolution shall authorize the execution of the applicable Sale Document and shall set forth the method of sale, whether such series of Bonds shall be issued and sold as Tax-Exempt Bonds or Taxable Bonds, and the terms for such Bonds or parameters with respect to interest rate(s), maturity date(s), redemption provisions, principal maturities, and any other terms applicable to such series of Bonds. A form of Sale Resolution is attached hereto as Exhibit B and incorporated herein by this reference.

The Bonds authorized herein may be issued and sold from time to time and at any time as determined by the Council subject to the terms of the applicable Sale Resolution. To the extent of any conflict between the terms of this ordinance and a Sale Resolution, the terms of such Sale Resolution shall control with respect to that authorized series of Bonds.

Notwithstanding anything herein to the contrary, the aggregate principal (face) amount of all Bonds issued hereunder shall not exceed \$42,000,000 without further action of the Council, and the authorization to issue Bonds from time to time under the terms of this ordinance shall expire on December 31, 2029. After such date, no additional Bonds shall be issued under this



ordinance nor their sale approved unless such Bonds shall have been re-authorized by ordinance of the City Council.

(c) *Direct Purchase*. If the Designated Representative determines that the Bonds of a series are to be sold by private placement, the Designated Representative shall select the Direct Purchaser that submits the proposal that is in the best interest of the City. Direct Purchase Bonds shall be sold to the Direct Purchaser pursuant to the terms of the applicable Sale Resolution and any related Loan Agreement.

(d) Negotiated Bond Sale. If the Designated Representative determines that the Bonds of a series are to be sold by negotiated public sale, the Designated Representative shall select the Underwriter that submits the proposal that is in the best interest of the City. Such Bonds shall be sold to the Underwriter pursuant to the terms of the applicable Sale Resolution and the related Bond Purchase Contract.

(e) *Competitive Sale*. If the Designated Representative determines that the Bonds of a series are to be sold at a competitive public sale, the Designated Representative shall: (1) establish the date of the public sale; (2) establish the criteria by which the successful bidder will be determined; (3) establish the criteria for a good faith deposit; (4) cause notice of the public sale to be given; and (5) provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. The Designated Representative shall cause the notice of sale to be given and provide for such other matters pertaining to the public sale as he or she deems necessary or desirable. Such Bonds shall be sold to the Underwriter pursuant to the terms of the applicable Sale Resolution and the related Certificate of Award.

(f) Delivery of Bonds; Documentation. Upon the passage and approval of this ordinance and the applicable Sale Resolution and execution of the applicable Sale Document, the proper officials of the City, including the Designated Representative, the Mayor, the Administrative Services Director, and the City Clerk, are authorized and directed to undertake all action necessary for the prompt execution and delivery of the Bonds of a series to the Direct Purchaser or the Underwriter and further to execute all closing certificates and documents required to effect the closing and delivery of the Bonds of a series in accordance with the terms of the applicable Sale Resolution and related Sale Document. Such documents may include, but are not limited to, documents related to a municipal bond insurance policy delivered by an insurer to insure the payment when due of the principal of and interest on all or a portion of such series of Bonds as provided therein.

<u>Section 13.</u> <u>Preliminary and Final Official Statements</u>. The Administrative Services Director and the City Manager are each hereby authorized to deem final the preliminary Official Statement(s) relating to any Underwritten Bonds for the purposes of the Rule. The Administrative Services Director and the City Manager are each further authorized to approve for purposes of the Rule, on behalf of the City, the final Official Statement(s) relating to the issuance and sale of any Underwritten Bonds and the distribution of the final Official Statement pursuant thereto with such changes, if any, as may be deemed to be appropriate.



Section 14. Undertaking to Provide Ongoing Disclosure; Covenants.

(a) The City covenants to execute and deliver at the time of Closing of any Underwritten Bonds a Continuing Disclosure Certificate. The Administrative Services Director and the City Manager are each hereby authorized to execute and deliver a Continuing Disclosure Certificate upon the issuance, delivery and sale of any Underwritten Bonds with such terms and provisions as such individuals shall deem appropriate and in the best interests of the City.

(b) The City may agree to provide the Direct Purchaser certain financial or other information and agree to such additional covenants as determined to be necessary by the Designated Representative and as set forth in the applicable Sale Resolution and/or Loan Agreement and approved by the Designated Representative.

Section 15. Lost, Stolen or Destroyed Bonds. In case any Bonds are lost, stolen or destroyed, the Bond Registrar may authenticate and deliver a new Bond or Bonds of like series, amount, date and tenor to the Registered Owner thereof if the Registered Owner pays the expenses and charges of the Bond Registrar and the City in connection therewith and files with the Bond Registrar and the City evidence satisfactory to both that such Bond or Bonds were actually lost, stolen or destroyed and of his or her ownership thereof, and furnishes the City and the Bond Registrar with indemnity satisfactory to both.

Section 16. Severability; Ratification. If any one or more of the covenants or agreements provided in this ordinance to be performed on the part of the City shall be declared by any court of competent jurisdiction to be contrary to law, then such covenant or covenants, agreement or agreements, shall be null and void and shall be deemed separable from the remaining covenants and agreements of this ordinance and shall in no way affect the validity of the other provisions of this ordinance or of the Bonds. All acts taken pursuant to the authority granted in this ordinance but prior to its effective date are hereby ratified and confirmed.

Section 17. Payments Due on Business Days. If an interest and/or principal payment date for the Bonds is not a business day, then payment shall be made on the next business day and no interest shall accrue for the intervening period.

Section 18. Corrections by Clerk. Upon approval of the City Attorney and Bond Counsel, the City Clerk is hereby authorized to make necessary corrections to this ordinance, including but not limited to the correction of clerical errors; references to other local, state or federal laws, codes, rules, or regulations; ordinance numbering and section/subsection numbering; and other similar necessary corrections.



Section 19. Effective Date. This ordinance shall take effect and be in force five (5) days from and after its passage, approval, and publication, as required by law. A summary of this ordinance, consisting of the title, may be published in lieu of publishing the ordinance in its entirety.

PASSED BY THE CITY COUNCIL ON MARCH 18, 2019.

Mayor Will Hall

ATTEST:

Jessica Simulcik Smith City Clerk

Date of Publication:March 21, 2019Effective Date:March 26, 2019

APPROVED AS TO FORM:

Pacifica Law Group LI Bond Counsel



EXHIBIT A

FORM OF BOND

[DTC LANGUAGE]

[TRANSFER RESTRICTIONS]

UNITED STATES OF AMERICA

NO.____

\$_____

CUSIP NO .:

STATE OF WASHINGTON

CITY OF SHORELINE

LIMITED TAX GENERAL OBLIGATION BOND, 20 [(Taxable)]

INTEREST RATE: % MATURITY DATE:

REGISTERED OWNER: CEDE & CO.

PRINCIPAL AMOUNT:

The City of Shoreline, Washington (the "City"), hereby acknowledges itself to owe and for value received promises to pay to the Registered Owner identified above, or registered assigns, on the Maturity Date identified above, the Principal Amount indicated above and to pay interest thereon from _______, 20____, or the most recent date to which interest has been paid or duly provided for until payment of this bond at the Interest Rate set forth above, payable on ________1, 20_____, and semiannually thereafter on the first days of each succeeding ________and ______. Both principal of and interest on this bond are payable in lawful money of the United States of America. The fiscal agent of the State of Washington has been appointed by the City as the authenticating agent, paying agent and registrar for the bonds of this issue (the "Bond Registrar"). For so long as the bonds of this issue are held in fully immobilized form, payments of principal and interest thereon shall be made as provided in accordance with the operational arrangements of The Depository Trust Company ("DTC") referred to in the Blanket Issuer Letter of Representations (the "Letter of Representations") from the City to DTC.

The bonds of this issue are issued under and in accordance with the provisions of the Constitution and applicable statutes of the State of Washington and Ordinance No. 853 duly passed by the City Council on March 18, 2019 and Resolution No.____ duly passed by the City Council on _____, 20__ (collectively, the "Bond Ordinance"). Capitalized terms used in this bond have the meanings given such terms in the Bond Ordinance.

This bond shall not be valid or become obligatory for any purpose or be entitled to any security or benefit under the Bond Ordinance until the Certificate of Authentication hereon shall have been manually signed by or on behalf of the Bond Registrar or its duly designated agent.



This bond is one of an authorized issue of bonds of like series, date, tenor, rate of interest and date of maturity, except as to number and amount in the aggregate principal amount of \$42,000,000 and is issued pursuant to the Bond Ordinance to provide a portion of the funds necessary to pay the costs of certain transportation improvements and to pay costs of issuance.

The bonds of this issue are subject to [prepayment/redemption prior to their stated maturities] as provided in the [Bond Purchase Contract/Certificate of Award/Loan Agreement].

The City has irrevocably covenanted with the owner of this bond that it shall include in its annual budget and levy taxes annually, within and a part of the tax levy permitted to the City without a vote of the electorate, upon all the taxable property in the City in amounts sufficient, together with other money legally available therefor, to pay the principal of and interest on this bond when due. The full faith, credit and resources of the City are irrevocably pledged for the annual levy and collection of such taxes and the prompt payment of such principal and interest.

The City has further irrevocably pledged all TBD Revenues to the portion of the Bonds allocable to the Projects.

The pledge of tax levies for payment of principal of and interest on the bonds may be discharged prior to maturity of the bonds by making provision for the payment thereof on the terms and conditions set forth in the Bond Ordinance.

It is hereby certified that all acts, conditions and things required by the Constitution and statutes of the State of Washington to exist and to have happened, been done and performed precedent to and in the issuance of this bond exist and have happened, been done and performed and that the issuance of this bond and the bonds of this issue does not violate any constitutional, statutory or other limitation upon the amount of bonded indebtedness that the City may incur.

IN WITNESS WHEREOF, the City of Shoreline, Washington, has caused this bond to be executed by the manual or facsimile signatures of the Mayor and the City Clerk and the seal of the City to be imprinted, impressed or otherwise reproduced hereon as of this ____ day of _____, 20____.

[SEAL]

CITY OF SHORELINE, WASHINGTON

By <u>/s/ manual or facsimile</u> Mayor

ATTEST:

/s/ manual or facsimile City Clerk



The Bond Registrar's Certificate of Authentication on the Bonds shall be in substantially the

following form:

CERTIFICATE OF AUTHENTICATION

Date of Authentication:

This bond is one of the bonds described in the within-mentioned Bond Ordinance and is one of the Limited Tax General Obligation Bonds, 20___, of the City of Shoreline, Washington, dated _____, 20___.

WASHINGTON STATE FISCAL AGENT, as Bond Registrar

By _____

[FOR DIRECT PURCHASE BONDS]

CERTIFICATE OF AUTHENTICATION

Date of Authentication:

This Bond is the Limited Tax General Obligation Bonds, 20__, of the City of Shoreline, Washington, dated _____, 20___, described in the within-mentioned Bond Ordinance.

[Administrative Services Director], as Bond Registrar

REGISTRATION CERTIFICATE

This Bond is registered in the name of the Registered Owner on the books of the City, in the office of the Administrative Services Director of the City, as to both principal and interest. All payments of principal of and interest on this Bond shall be made by the City as provided in the Bond Ordinance.



Date of Registration Name and Address of Registered Owner

_____, 20_____

PAYMENT SCHEDULE

Principal and interest on this Bond shall be payable as set forth in the following schedule:

Date	Principal	Interest	Total Payment
		1.1.	



EXHIBIT B

FORM OF SALE RESOLUTION

CITY OF SHORELINE, WASHINGTON

LIMITED TAX GENERAL OBLIGATION BONDS

RESOLUTION NO.

A RESOLUTION OF THE CITY OF SHORELINE, WASHINGTON, APPROVING THE SALE OF THE CITY'S LIMITED TAX GENERAL OBLIGATION BONDS, [20__] IN THE AGGREGATE PRINCIPAL AMOUNT OF NOT TO EXCEED \$[____] TO PROVIDE FUNDS FOR THE PURPOSE OF FINANCING THE COSTS OF CARRYING OUT CERTAIN TRANSPORTATION IMPROVEMENT PROJECTS AND TO PAY COSTS OF ISSUING THE BONDS; DELEGATING CERTAIN AUTHORITY TO APPROVE THE FINAL TERMS OF THE BONDS; AND PROVIDING FOR OTHER MATTERS RELATED THERETO, ALL IN ACCORDANCE WITH ORDINANCE NO. 853 OF THE CITY.

WHEREAS, the City Council (the "Council") of the City of Shoreline, Washington (the "City") by Ordinance No. 853 passed on March 18, 2019 (the "Bond Ordinance"), authorized the issuance and sale of one or more series of limited tax general obligation bonds of the City in the aggregate principal amount of not to exceed \$42,000,000 (the "Bonds") for the purpose of providing funds to finance costs related to transportation improvement projects (as defined in the Bond Ordinance, the "Projects") and to pay costs of issuing each series of Bonds; and

WHEREAS, the terms of each series of Bonds shall be consistent with the Bond Ordinance and the provisions of and additional parameters set forth in a sale resolution to be considered and approved by the Council in connection with each series of Bonds; and

WHEREAS, after due consideration the Council has determined that it is in the best interest of the City to authorize the issuance and sale of limited tax general obligation bond[s] (the ["20______ Bonds"]) under the terms of the Bond Ordinance and this resolution to pay a portion of the costs of the Projects; and

WHEREAS, this Council wishes to delegate authority to the City Manager (the "Designated Representative"), for a limited time, to approve the interest rates, maturity dates, denominations, redemption terms and other terms of the [20_ Bonds] within the parameters set by this resolution;



BE IT RESOLVED, BY THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON:

<u>Section 1.</u> <u>Definitions</u>. Except as otherwise defined herein, capitalized terms used in this resolution have the meanings set forth in the Bond Ordinance. As used herein, the following terms shall have the following meanings:

Bond Ordinance means Ordinance No. 853 of the City passed on March 18, 2019, as it may be amended, replaced and/or supplemented from time to time.

[20_ Bonds] mean the Limited Tax General Obligation Bond[s], 20_ authorized to be issued in the aggregate principal amount of not to exceed \$_____ under the terms of this resolution and the Bond Ordinance.

<u>Section 2.</u> <u>Authorization of Issuance and Sale of the [20___Bonds]</u>. The Issuance of the [20___Bonds], designated as the "City of Shoreline, Washington Limited Tax General Obligation Bonds, 20___," in the aggregate principal amount of not to exceed \$[______], dated as of their date of delivery, is hereby approved. The [20___Bonds] shall be fully registered as to both principal and interest; shall be in the denomination of [\$5,000 each, or any integral multiple thereof, within a maturity]; shall be numbered separately in such manner and with any additional designation as the Bond Registrar deems necessary for purposes of identification; shall bear interest from their date payable on the dates and commencing as provided in the Sale Document; and shall mature on the dates and in the principal amounts set forth in the Sale Document, as approved and executed by the Designated Representative pursuant to this resolution. The [20_______Bonds] shall be sold as Direct Purchase Bonds or Underwritten Bonds.

[Section 3. Redemption.]

(a) *Redemption of Bonds*. The [20__Bonds] shall be subject to mandatory redemption to the extent, if any, as set forth in the applicable Sale Document and as approved by the Designated Representative pursuant to Section 4 of this resolution. The [20__Bonds] shall be subject to optional redemption and/or prepayment on the dates, at the prices and under the terms set forth in the applicable Sale Document approved by the Designated Representative pursuant to Section 4.

(b) *Purchase of Bonds.* The City reserves the right to purchase any or all of the [20______Bonds] offered to the City at any time at any price acceptable to the City plus accrued interest to the date of purchase.

(c) Selection of Bonds for Redemption. If the Underwritten Bonds of a series are held in book-entry only form, the selection of particular Underwritten Bonds within a series and maturity to be redeemed shall be made in accordance with the operational arrangements then in effect at DTC. If the Underwritten Bonds are no longer held by a depository, the selection of such Underwritten Bonds to be redeemed and the surrender and reissuance thereof, as applicable, shall be made as provided in the following provisions of this subsection (c). If the City redeems at any one time fewer than all of the Underwritten Bonds having the same maturity date, the particular Underwritten Bonds or portions of Underwritten Bonds of such maturity to be redeemed shall be selected by lot (or in such manner determined by the Bond Registrar) in increments of \$5,000. In the case of an Underwritten Bond of a denomination greater than \$5,000, the City and the Bond



Registrar shall treat each Underwritten Bond as representing such number of separate Underwritten Bonds each of the denomination of \$5,000 as is obtained by dividing the actual principal amount of such Underwritten Bond by \$5,000. In the event that only a portion of the principal sum of a Underwritten Bond is redeemed, upon surrender of such Underwritten Bond at the designated office of the Bond Registrar there shall be issued to the Registered Owner, without charge therefor, for the then unredeemed balance of the principal sum thereof, at the option of the Registered Owner, a Underwritten Bond or Bonds of like series, maturity and interest rate in any of the denominations herein authorized.

(d) Notice of Redemption or Prepayment.

(1) <u>Official Notice</u>. Notice of any prepayment of Direct Purchase Bonds shall be provided by the City to the Direct Purchaser as provided in the applicable Sale Document.

For so long as the Underwritten Bonds of a series are held by a depository, notice of redemption (which notice may be conditional) shall be given in accordance with the operational arrangements of DTC as then in effect, and neither the City nor the Bond Registrar will provide any notice of redemption to any Beneficial Owners. Thereafter (if the Underwritten Bonds are no longer held in uncertificated form), notice of redemption shall be given in the manner hereinafter provided. Unless waived by any owner of Underwritten Bonds to be redeemed, official notice of any such redemption shall be given by the Bond Registrar on behalf of the City by mailing a copy of an official redemption notice by first class mail at least 20 days and not more than 60 days prior to the date fixed for redemption to the Registered Owner of the Underwritten Bond or Bonds to be redeemed at the address shown on the Bond Registrar.

All official notices of redemption shall be dated and shall state: (A) the redemption date, (B) the redemption price, (C) if fewer than all outstanding Underwritten Bonds of such series are to be redeemed, the identification by maturity (and, in the case of partial redemption, the respective principal amounts) of the Bonds to be redeemed, (D) any conditions to redemption; (E) that (unless such notice is conditional) on the redemption date the redemption price will become due and payable upon each such Underwritten Bond or portion thereof called for redemption, and that interest thereon shall cease to accrue from and after said date, and (F) the place where such Underwritten Bonds are to be surrendered for payment of the redemption price, which place of payment shall be the designated office of the Bond Registrar.

On or prior to any redemption date, unless any condition to such redemption has not been satisfied or waived or notice of such redemption has been rescinded, the City shall deposit with the Bond Registrar an amount of money sufficient to pay the redemption price of all the Underwritten Bonds or portions of Underwritten Bonds which are to be redeemed on that date. The City retains the right to rescind any redemption notice and the related optional redemption of Underwritten Bonds by giving notice of rescission to the affected registered owners at any time on or prior to the scheduled redemption date. Any notice of optional redemption that is so rescinded shall be of no effect, and the Underwritten Bonds for which the notice of optional redemption has been rescinded shall remain outstanding.



If notice of redemption has been given and not rescinded or revoked, or if the conditions set forth in a conditional notice of redemption have been satisfied or waived, the Underwritten Bonds or portions of Underwritten Bonds to be redeemed shall, on the redemption date, become due and payable at the redemption price therein specified, and, if the Bond Registrar then holds sufficient funds to pay such Underwritten Bonds at the redemption price, then from and after such date such Underwritten Bonds or portions of Underwritten Bonds shall cease to bear interest. Upon surrender of such Underwritten Bonds for redemption in accordance with said notice, such Underwritten Bonds shall be paid by the Bond Registrar at the redemption price. Installments of interest due on or prior to the redemption date shall be payable as herein provided for payment of interest. All Underwritten Bonds which have been redeemed shall be canceled by the Bond Registrar and shall not be reissued.

If addition to the foregoing notice, further notice shall be given by the City as set out below, but no defect in said further notice nor any failure to give all or any portion of such further notice shall in any manner defeat the effectiveness of a call for redemption if notice thereof is given as above prescribed. Each further notice of redemption given hereunder shall contain the information required above for an official notice of redemption plus (A) the CUSIP numbers of all Underwritten Bonds being redeemed; (B) the date of issue of the Underwritten Bonds as originally issued; (C) the rate of interest borne by each Underwritten Bond being redeemed; (D) the maturity date of each Underwritten Bond being redeemed; and (E) any other descriptive information needed to identify accurately the Underwritten Bonds being redeemed. Each further notice of redemption may be sent at least 20 days before the redemption date to each party entitled to receive notice pursuant to the Continuing Disclosure Certificate and with such additional information as the City shall deem appropriate, but such mailings shall not be a condition precedent to the redemption of such Underwritten Bonds.

The foregoing notice provisions of this Section 3, including but not limited to the information to be included in redemption notices and the persons designated to receive notices, may be amended by additions, deletions and changes in order to maintain compliance with duly promulgated regulations and recommendations regarding notices of redemption of municipal securities.

[Section 4. Acceptance of Offer/Authorization of Sale Document.]

(a) Bond Sale. The Council has determined that it would be in the best interest of the City to delegate to the Designated Representative for a limited time the authority to determine the method of sale for the [20______Bonds], and to approve the final interest rates, maturity dates, redemption terms and principal maturities for the [20______Bonds]. The Designated Representative is hereby authorized to approve the issuance of the [20______Bonds] and to approve whether the [20______Bonds] shall be sold in a private placement to a Direct Purchaser or to an Underwriter through a competitive public sale or a negotiated sale, as set forth in the Bond Ordinance.

(b) *Sale Parameters*. The Designated Representative is hereby authorized to approve the method of sale and the final interest rates, aggregate principal amount, principal maturities, denomination(s), and redemption rights for the [20_ Bonds] in the manner provided hereafter so long as:



(1) the aggregate principal (face) amount of the [20_ Bonds] does not exceed

(2) the final maturity date for the [20_ Bonds] is no later than ______,

(3) the true interest cost for the [20_ Bonds] does not exceed ____%,

and

\$

(4) the [20_ Bonds] are sold (in the aggregate) at a price not less than 98%;

(5) all other terms of the [20_ Bonds] are otherwise in compliance with the terms of the Bond Ordinance and this resolution.

Subject to the terms and conditions set forth in this section and the Bond Ordinance, the Designated Representative is hereby authorized to execute the applicable Sale Document for the [20______Bonds]. Following the execution of the applicable Sale Document, the Designated Representative shall provide a report to the Council describing the final terms of the [20_____Bonds] approved pursuant to the authority delegated in this section.

The authority granted to the Designated Representative by this Section 4 shall expire after the effective date of this resolution. If a Sale Document for the [20___Bonds] has not been executed by such date, the authorization for the issuance of such series of [20___ Bonds] shall be rescinded, and such [20___Bonds] shall not be issued nor their sale approved unless such [20___Bonds] shall have been re-authorized by ordinance of the Council.

(g) *Preliminary and Final Official Statements*. The Administrative Services Director and the City Manager are each hereby authorized to deem final the preliminary Official Statement(s) relating to any Underwritten Bonds for the purposes of the Rule. The Administrative Services Director and the City Manager are each further authorized to approve for purposes of the Rule, on behalf of the City, the final Official Statement(s) relating to the issuance and sale of any Underwritten Bonds and the distribution of the final Official Statement pursuant thereto with such changes, if any, as may be deemed to be appropriate.

<u>Section 5.</u> <u>Further Authority</u>. The City Officials, their agents and representatives are hereby authorized and directed to do everything necessary for the prompt issuance and delivery of the [20___Bonds] and for the proper use and application of the proceeds of such sale.



<u>Section 7.</u> <u>Effective Date</u>. This resolution shall be effective after its passage as provided by law.

PASSED BY THE CITY COUNCIL ON _____, 20__.

Mayor

ATTEST:

City Clerk



CERTIFICATE

I, the undersigned, City Clerk of the City Council of the City of Shoreline, Washington (the "City"), DO HEREBY CERTIFY:

1. The attached copy of Ordinance No. 853 (the "Ordinance") is a full, true and correct copy of an ordinance duly passed at a regular meeting of the City Council of the City held at the regular meeting place thereof on March 18, 2019 as that ordinance appears in the minute book of the City; and the Ordinance will be in full force and effect after its passage and publication as provided by law; and

2. That said meeting was duly convened and held in all respects in accordance with law, and to the extent required by law, due and proper notice of such meeting was given; that a legal quorum was present throughout the meeting and a legally sufficient number of members of the Council voted in the proper manner for the passage of said Ordinance; that all other requirements and proceedings incident to the proper passage of said Ordinance have been fully fulfilled, carried out and otherwise observed; and that I am authorized to execute this certificate.

3. That Ordinance No. 853 has not been amended, supplemented or rescinded since its passage and is in full force and effect and that I am authorized to execute this certificate.

IN WITNESS WHEREOF, I have hereunto set my hand this 18th day of March, 2019.

City Clerk

Sidewalk Program Implementation

Draft Schedule - With Planned Timing for Issuing Bond Series

	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030-35
Task/Element												
Round 1												
Bond Sale Resolution to Council												
Bond Issuance												
Design (Projects 1-4)		#1-4										
Construction (Projects 1-3)		#1	#2 & 3									
Round 2												
Revenue/Project Cost Forecast Update												
Bond Series Resolution to Council										1		1
Bond Issuance												
Design (Projects 5-8)				#5,6&7	#8							
Construct (Projects 4-7)				#4	#5 & 6	#7						
Round 3												
Revenue/Project Cost Forecast Update												
Bond Sale Resolution to Council												
Bond Issuance												
Design (Projects 9-12)						#9,10	#11	#12				
Construct (Projects 8-12)						#8	#9,10	#11	L-12			
Round 4												
Revenue/Project Cost Forecast Update												
Bond Issuance /Sale Resolution as needed												
Design (based on additional revenue)												
Construct (based on additional revenue)												
Round 5												

City of Shoreline, Washington Sidewalk Improvement Project Transportation Benefit District 0.2% Tax Analysis

Attachment D

Series Model

Year Ending	Тах	Debt Series				Annual	Cumulative
12/31	Revenue	2019	2023	2026	2029	Residual Tax	Residual Tax
2019	2,083,198	88,800				1,994,398	1,994,398
2020	2,159,113	800,200				1,358,913	3,353,311
2021	2,235,089	797,400				1,437,689	4,791,000
2022	2,310,977	799,000				1,511,977	6,302,977
2023	2,391,469	799,800	1,005,729			585 <i>,</i> 940	6,888,917
2024	2,475,051	799,800	1,006,000			669,251	7,558,168
2025	2,561,103	799,000	1,001,750			760,353	8,318,521
2026	2,650,071	797,400	1,006,500	777,171		69,000	8,387,522
2027	2,741,881	800,000	1,004,750	776,600		160,531	8,548,053
2028	2,837,260	796,600	1,001,750	773,100		265,810	8,813,863
2029	2,935,926	797,400	1,002,500	774,700	1,953,879	(1,592,553)	7,221,310
2030	3,037,903	797,200	1,001,750	775,500	1,955,250	(1,491,797)	5,729,513
2031	3,143,427	796,000	1,004,500	775,500	1,957,250	(1,389,823)	4,339,690
2032	3,252,614	798,800	1,005,500	774,250	1,956,000	(1,281,936)	3,057,753
2033	3,365,667	800,400	1,004,750	776,750	1,956,500	(1,172,733)	1,885,020
2034	3,482,635	800,800	1,002,250	772,750	1,953,500	(1,046,665)	838,355
2035	3,603,648		1,003,000	772,500	1,957,000	(128,852)	709,503
2036	3,728,850		1,006,750	775,750	1,956,500	(10,150)	699,353
2037	3,858,412		1,003,250	777,250	1,957,000	120,912	820,265
2038	3,974,164		1,002,750	777,000	1,958,250	236,1 <mark>6</mark> 4	1,056,430
	58,828,459	12,068,600	16,063,479	10,078,821	19,561,129		



Attachment D

City of Shoreline, Washington Sidewalk Improvement Project Transportation Benefit District 0.2% Tax Analysis

Sources and Uses

	Series 2019	Series 2023	Series 2026	Series 2029	Total
Sources:					
Par Amount	8,880,000	10,925,000	7,365,000	15,175,000	42,345,000
Premium	1,236,402	1,203,564	737,286	1,505,967	4,683,219
Total	\$10,116,402	\$12,128,564	\$8,102,286	\$16,680,967	\$47,028,219
Uses:					
UW Discount	62,160	76,475	51,555	106,225	296,415
Costs of Issuance	49,500	49,500	49,500	49,500	198,000
Deposit to Project Fund	10,004,742	12,002,589	8,001,231	16,525,242	46,533,804
Total	\$10,116,402	\$12,128,564	\$8,102,286	\$16,680,967	\$47,028,219

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Adoption of Ordinance No. 856 – Amending the Shoreline Master Program Pursuant to the Periodic Review Required by the Shoreline Management Act
DEPARTMENT:	Planning & Community Development
PRESENTED BY:	Miranda Redinger, AICP, Senior Planner
ACTION:	<u>X</u> Ordinance Resolution Motion

PROBLEM/ISSUE STATEMENT:

The City's current Shoreline Master Program (SMP) was adopted on August 5, 2013 via Ordinance No. 668 and became effective on September 2, 2013. In 2003, the Shoreline Management Act (SMA), chapter 90.58 RCW, was amended to require cities to regularly update their SMPs. For the City of Shoreline, RCW 90.58.080(2) requires the City to update its SMP on or before June 30, 2019, and then once every eight years after the date of approval by the Department of Ecology. Thus, it is now time to perform a Periodic Review of the current SMP to comply with state law.

The purpose of the statutorily-mandated review is to assure that the City's SMP complies with the SMA and its implementing guidelines, WAC 173-26 to 173-27, and to assure consistency of the SMP with the City's Comprehensive Plan and development regulations adopted under the Growth Management Act, chapter 36.70A RCW, and other local requirements.

Council discussed the Planning Commission recommendation to amend the SMP, via proposed Ordinance No. 856 (Attachment A), on May 6, 2019. Staff is now bringing this ordinance back to Council for adoption, with a recommendation to amend the Development Code language included in the exhibits to Ordinance No. 856 to incorporate recommendations from the Department of Ecology. These changes include requirements and recommendations outlined in the Initial Determination of Consistency (Attachment B), which were discussed by Council on May 6, and one other revision for clarity that has been suggested by the Department of Ecology based on clarifying question from Councilmember Roberts.

RESOURCE/FINANCIAL IMPACT:

The Periodic Review and update to the SMP have no direct financial impact on the City. The Department of Ecology and the City entered into a grant agreement wherein the City is eligible for \$25,000 to perform the review and update. Of this \$25,000, the City used \$15,663.75 to contract with Environmental Services Associates to draft an addendum to the 2012 Cumulative Impacts Analysis (Attachment A, Exhibit D2) and the remaining \$9,336.25 to reimburse for staff work.

RECOMMENDATION

Staff recommends that Council amend the Planning Commission recommendation to incorporate recommendations from the Department of Ecology and adopt Ordinance No. 856.

Approved By: City Manager **DT** City Attorney **MK**

BACKGROUND

As part of its pre-incorporation procedures in 1995, the City adopted by reference Title 25 of the King County Code to serve as its Interim Shoreline Master Program (SMP) (Ordinance No. 23). The City's current SMP was adopted on August 5, 2013 via Ordinance No. 668 and became effective on September 2, 2013. It is contained in Appendix A of the Comprehensive Plan and SMC Title 20, Division II, SMC 20.200 to 20.230. The City's current SMP is available at the following link: http://www.shorelinewa.gov/home/showdocument?id=18579.

SMP Periodic Review Process

In 2003, the SMA, chapter 90.58 RCW, was amended to require cities to regularly update their SMPs. For the City of Shoreline, RCW 90.58.080(2) requires the City to update its SMP on or before June 30, 2019, and then once every eight years after the date of approval by the Department of Ecology.

To perform this Periodic Review, the Planning Commission held an introductory study session for the SMP on December 6, 2018. The staff report for this meeting is available here: <u>http://www.shorelinewa.gov/home/showdocument?id=41429</u>.

The Planning Commission then held a study session on January 17, 2019 to review the State required updates and three (3) of the SMC Chapters (20.200 Shoreline Master Plan, 20.210 Definitions, and 20.220 Administrative Procedures) that address City-recommended updates. The staff report for this meeting is available here: http://www.shorelinewa.gov/home/showdocument?id=41810.

The Planning Commission held another study session on February 21, 2019 to review the remaining SMC Chapters (20.230 General Policies and Regulations, 20.240 SMP Critical Areas Regulations, 13.12 Floodplain Management, and 20.80 Citywide Critical Areas) and proposed changes to the City of Shoreline Comprehensive Plan. The staff report for this meeting is available here:

http://www.shorelinewa.gov/home/showdocument?id=42564.

On April 4, 2019, the Planning Commission held a joint public hearing with the Department of Ecology to review the entire SMP, and elements that had not been previously discussed, including the Determination of Nonsignificance, SEPA Checklist, and Addendum to the Cumulative Impacts Assessment. The staff report for this meeting is available here: <u>http://www.shorelinewa.gov/home/showdocument?id=42730.</u>

No public comment was submitted during the public hearing. The Planning Commission requested no revisions and unanimously voted to forward the proposal to Council for adoption.

The City Council discussed the proposed SMP updates during a Study Session on May 6, 2019. The staff report for this meeting is available here: <u>http://cosweb.ci.shoreline.wa.us/uploads/attachments/cck/council/staffreports/2019/staff</u>. Proposed Ordinance No. 856 and all Exhibits are included with this staff report as Attachment A. Exhibit language currently represents the Planning Commission recommendation. Staff recommends that Council amend the Commission recommendation to incorporate revisions from the Department of Ecology Initial Determination of Consistency (Attachment B) and one other proposed edit to SMC 20.220.130 Expiration of Permits, explained in the Discussion section of this staff report.

Items that were included in the May 6 packet but are not attached to this staff report include the Determination of Nonsignificance, SEPA Checklist, Department of Ecology Periodic Review Checklist, Affidavit of Publication of Public Hearing Notice from *Seattle Times*, and Commerce Notice of Intent to Adopt.

Proposed Changes

Proposed regulatory changes to the SMP fall primarily into two categories: those required by the Department of Ecology to incorporate changes in State guidance since the 2013 SMP, and those recommended by the City, primarily to integrate changes that were adopted through the Critical Areas Ordinance (CAO) in 2015 into the SMP. The City is also proposing changes to the Comprehensive Plan as a result of this Periodic Review.

The updated SMP will:

- Incorporate the 2015 CAO by embedding it within the SMP;
- Codify rather than adopt the CAO by reference;
- Make the pertinent CAO regulations easier to locate in the code, rather than as an attachment to the SMP; and
- Provide the ability to amend CAO language as necessary to fit the shoreline jurisdiction, which will increase clarity and fill gaps.

Other proposed code changes are summarized below, by section, and shown in legislative format in Attachment A; Exhibits A, B, and C.

SMC Chapter 20.200 Shoreline Master Plan

Proposed revisions include removal of references to the 2006 CAO, as well as minor amendments for housekeeping and clarification.

SMC Chapter 20.210 Definitions

Proposed revisions include minor amendments for housekeeping and clarification.

SMC Chapter 20.220 Administrative Procedures

Proposed revisions include minor amendments for housekeeping and clarification.

SMC Chapter 20.230 General Policies and Regulations

Proposed revisions include removal of the section addressing environmentally sensitive areas within the shoreline, as the 2015 CAO standards are to be located in a separate chapter, 20.240. Additionally, revisions are proposed to clarify that existing, previously permitted stabilization measures, such as bulkheads and retaining walls, are considered engineered and abated hazards and shall not be classified as geologic hazard areas. Proposed revisions also include minor amendments for housekeeping and clarification.

SMC Chapter 20.240 SMP Critical Areas Regulations

This is a new proposed chapter that integrates the 2015 CAO, along with subsequent amendments, into the SMP consistent with the SMA's requirements. For the most part, SMC Chapter 20.80, Critical Areas, has been copied into the new proposed Chapter 20.240. However, note that some of the provisions from 20.80 were excluded from the SMP Critical Areas Regulations due to conflicts with the SMA. These provisions include reasonable use exceptions, administrative exemptions, and waivers.

SMC Chapter 13.12 Floodplain Management

Proposed revisions include designating the Planning and Community Development Director as the floodplain administrator so that all authority is in one department, rather than dividing the authority with Public Works.

SMC Chapter 20.80 Critical Areas

Proposed revisions include a minor update to the reference to the SMP Critical Areas Regulations to refer to the new proposed Chapter 20.240.

Attachment A, Exhibits D1 and D2, show proposed changes to the Comprehensive Plan. Exhibit D1 represents the updated Goals and Policies section of the new SMP Element. No changes are proposed to the language of the goals and policies; the only change is the proposed relocation from an Appendix to the Comprehensive Plan to an Element. Exhibit D1 also includes the revised Table of Contents for the Comprehensive Plan.

The documents included in Exhibit D2 are the 2010 SMP Inventory and Characterization Report, the 2012 SMP Cumulative Impacts Analysis (CIA), and the 2019 addendum to the CIA. The first two (2) documents were developed for the 2013 Comprehensive Update to the SMP, the last document was developed for this Periodic Review.

DISCUSSION

At the May 6th Council Study Session, Council only had a few clarifying questions and proposed no revisions beyond the Department of Ecology's recommendations. Staff recommends that Council amend the Planning Commission as discussed on May 6th to incorporate these changes. The following motion may be used to amend the Planning Commission recommendation:

"I move to amend the Planning Commission recommendation by incorporating edits proposed by the Washington State Department of Ecology through the Initial Determination of Consistency, as shown in Attachment B."

Staff also recommends two additional revisions to the Planning Commission recommendation. The first is a clean up of one of the edits proposed by the Department of Ecology through the Initial Determination of Consistency. Recommendation No. 3 in Attachment B notes a typo in SMC 20.230.020A, wherein the Policies and Regulations appear to have the same code citation. However, this is not the only location where this mis-numbering has occurred; policies and regulations are not properly distinguished

throughout 20.230.020 General Environmental Policies and Regulations. Staff proposes fixing the numbering throughout this section to comply with standard formatting. The following motion may be used to amend the Planning Commission recommendation:

"I move to amend the Planning Commission recommendation by reformatting the numbering throughout SMC 20.230.020 General Environmental Policies and Regulations, to conform to standard practice."

The second new revision is based on a suggestion from the Department of Ecology in response to a question from Councilmember Roberts during the May 6th Study Session. Councilmember Roberts asked about language in SMC 20.220.130, which deals with expiration of permits. Specifically, Councilmember Roberts thought that SMC 20.220.120.C and SMC 20.220.130.D (below) were redundant:

"C. **Five-Year Permit Authorization.** If construction has not been completed within five years of approval the effective date of the permitby the City of Shoreline and a request for extension has been filed before the expiration date, the City may authorize a single extension of no more than one (1) year based on reasonable factors. the City will review the permit and, upon showing of good cause, either extend the permit for one year, or terminate the permit.

D. Only one extension of up to one (1) year may be authorized."

The answer from the Department of Ecology is that the SMP includes multiple references to a one-year extensions because there is an option to authorize a one-time one-year extension to both:

- the two (2) year timeline to begin construction or use described in 20.200.130.A; and
- the five (5) year limitation for completing the construction.

However, to make this point clearer, the Department of Ecology proposed that this code section be modified as shown below:

20.220.130 Expiration of permits.

The City may specify the length of time a shoreline permit will be effective based on the specific requirements of the development proposal. If a permit does not specify an expiration date, the following requirements apply, consistent with WAC 173-27-090, as amended from time to time:

A. **Time Limit for Substantial Progress.** Construction activities, or substantial progress toward completion, shall be commenced or, where no construction activities are involved, the use or activity must begin within two (2) years after the effective date of the permits.

B. Extension for Substantial Progress. If a request for extension has been filed before the expiration date and notice of the proposed extension is given to parties of record and the Department of Ecology, the City may authorize a single extension of no more than one (1) year based on reasonable factors, including the inability to expeditiously obtain other governmental permits that are required prior to the commencement of construction. C. Five-Year Permit Authorization. <u>Authorization to conduct development activities</u> <u>shall terminate five (5) years after the effective date.</u> If construction has not been completed within five years of the effective date of the permit and a request for extension has been filed before the expiration date, the City may authorize a single extension of no more than one (1) year based on reasonable factors.

D. <u>Extension of Permit Authorization</u>. If a request for extension has been filed before the expiration date and notice of the proposed extension is given to parties of record and the Department of Ecology, the City may authorize a single extension of no more than one (1) year based on reasonable factors. Only one extension of up to one (1) year may be authorized.

E. Prior to the City authorizing any permit extensions, it shall notify any parties of record and the Department of Ecology.

This change would require a motion from Council. The following motion may be used to amend the Planning Commission recommendation:

"I move to amend the Planning Commission recommendation by revising SMC 20.220.130 Expiration of Permits to incorporate new amended language recommended by the Department of Ecology, as shown in the staff report and presented tonight."

Councilmember McGlashan also asked a clarifying question about SMC 20.200.060 where clean version of the final bullet would read: *"The Director's duties and responsibilities include:...*

• Forwarding shoreline permits to Washington State Department of Ecology for its approval or disapproval."

Councilmember McGlashan found the wording to be awkward, but assuming that one reads the word "permits" as a noun and not a verb, staff does not recommend changes to the language.

RESOURCE/FINANCIAL IMPACT

The Periodic Review and update to the SMP have no direct financial impact on the City. The Department of Ecology and the City entered into a grant agreement wherein the City is eligible for \$25,000 to perform the review and update. Of this \$25,000, the City used \$15,663.75 to contract with Environmental Services Associates to draft an addendum to the 2012 Cumulative Impacts Analysis (Attachment A, Exhibit D2) and the remaining \$9,336.25 to reimburse for staff work.

RECOMMENDATION

Staff recommends that Council amend the Planning Commission recommendation to incorporate recommendations from the Department of Ecology and adopt Ordinance No. 856.

ATTACHMENTS

Attachment A: Ordinance No. 856

- Exhibit A: Proposed revisions to existing SMC language in legislative format (20.200, 20.210, 20.220, and 20.230)
- Exhibit B: Proposed new SMC subchapter (20.240)
- Exhibit C: Proposed revisions to existing SMC language in legislative format (20.80 and 13.12)
- Exhibit D: Comprehensive Plan
 - o D1: Comprehensive Plan SMP Element 10 Goal and Policy Section
 - D2: Comprehensive Plan SMP Element 10 Supporting Analysis Section
 - 2010 Inventory & Characterization Report
 - 2012 Cumulative Impacts Assessment
 - 2019 CIA Addendum

Attachment B: Ecology Initial Determination of Consistency
ORDINANCE NO. 856

AN ORDINANCE OF THE CITY OF SHORELINE, WASHINGTON, AMENDING THE CITY'S SHORELINE MASTER PROGRAM, SHORELINE MUNICIPAL CODE TITLE 20 DIVISION II, PURSUANT TO THE PERIODIC REVIEW REQUIRED BY THE SHORELINE MANAGEMENT ACT, CHAPTER 90.58 RCW, AND AMENDING CHAPTER 13.12 FLOODPLAIN MANAGEMENT AND CHAPTER 20.80 CRITICAL AREAS.

WHEREAS, with the adoption of Ordinance No. 668 in 2013, the City adopted its first Shoreline Master Program as required by the Shoreline Management Act, chapter 90.58 RCW, codifying it at SMC Title 20 Division II, effective on September 2, 2013; and

WHEREAS, RCW 90.58.080(4) requires the City to periodically review and, if necessary, revise its Shoreline Master Program to ensure compliance with the statutory and regulatory requirements that have been added or modified since the effective date of the City's Shoreline Master Program; and

WHEREAS, RCW 90.58.080(4) directs that the City of Shoreline complete the periodic review and adopt any necessary amendments no later than June 30, 2019; and

WHEREAS, for this periodic review, the City elected to participate in the optional joint review process set forth in WAC 173-26-104 which combines the local and state public comment periods, and during this process the City worked collaboratively with the Department to address local interests while ensuring proposed amendments were consistent with the Shoreline Management Act and implementing regulations; and

WHEREAS, with the adoption of Ordinance No. 723 in 2015, the City updated its Critical Areas Regulations, chapter 20.80 SMC, but the City's current Shoreline Master Program incorporates by reference Critical Areas Regulations adopted in 2006; and

WHEREAS, the scientific and technical information pertaining to critical areas has changed since 2006 so as to require revisions, therefore, the City reviewed chapter 20.80 SMC to ensure these regulations meet the Shoreline Management Act requirements for critical area protections and modified those regulations accordingly to ensure compliance; and

WHEREAS, the City utilized the checklist of legislative and rule amendments and guidelines developed by the Washington State Department of Ecology to determine if the City's Shoreline Master Program needed to be revised pursuant to the Periodic Review; and

WHEREAS, based on this review, the City determined that goals, policies, and use regulations contained in the Shoreline Master Program needed to be amended; and

WHEREAS, based on this review, the City determined minor, housekeeping amendments were needed for chapter 13.12 SMC Floodplain Management and chapter 20.80 SMC Critical Areas; and

WHEREAS, the City prepared an addendum to the 2012 Cumulative Impacts Analysis to provide updated information regarding cumulative impacts of reasonably foreseeable future development in areas subject to the jurisdiction of the Shoreline Management Act; and

WHEREAS, as required by RCW 90.58.130 and WAC 173-26-090, the City prepared a public participation plan and complied with the provisions of that plan including holding meetings to provide opportunities for public comment, engaging in stakeholder outreach, and providing a page on the City's website; and

WHEREAS, on December 6, 2018, January 17, 2019, and February 21, 2019, the City of Shoreline Planning Commission reviewed the proposed Shoreline Master Program amendments; and

WHEREAS, pursuant to WAC 173-26-104(2), the City and the Washington State Department of Ecology provide a joint local/state public comment period of at least thirty days and published such notice in the *Seattle Times* and the City's website; the public comment period ran from March 1, 2019 to April 4, 2019; and

WHEREAS, on April 4, 2019, the City of Shoreline Planning Commission in conjunction with the Washington State Department of Ecology held a joint local/state public hearing on the proposed Shoreline Master Program amendments in accordance with WAC 173-26-104(2)(c)(ii); and

WHEREAS, at the conclusion of the public hearing, the City of Shoreline Planning Commission recommended that the amendments proposed by Staff be approved by the City Council; and

WHEREAS, on April 19, 2019, as required by WAC 173-26-104(3), the City submitted its proposed amendments to the Washington State Department of Ecology for initial review; and

WHEREAS, on April 26, 2019, the Washington State Department of Ecology issued its Initial Determination which stated that the proposed amendments, subject to twelve (12) required changes, are consistent with applicable laws and rules; and

WHEREAS, on May 6, 2019, the City Council held a study session on the proposed Shoreline Master Program amendments as recommended by the Planning Commission and the changes required by the Washington State Department of Ecology's in its Initial Determination; and

WHEREAS, the City Council has considered the entire public record, public comments, written and oral, the Planning Commission's recommendation, and the changes delineated in the Initial Determination; and

WHEREAS, the Growth Management Act at RCW 36.70A.130(2)(a)(iii) permits the City to amend is Shoreline Master Program outside of the once-a-hear annual review process; and

WHEREAS, pursuant to WAC 173-26-104(2), on April 12, 2019, the City provided the Washington State Department of Commerce with a notice of intent to adopt the amendment(s) to its Shoreline Master Program pursuant to RCW 36.70A.106; and

WHEREAS, the environmental impacts of the updates and amendments resulted in the issuance of a Determination of Non-Significance (DNS) on March 1, 2019; and

WHEREAS, the City Council has determined the proposed amendments are consistent with and implement the Shoreline Management Act, chapter 90.58 RCW, and implementing regulations and accepts the Initial Determination of the Washington State Department of Ecology and the required changes;

NOW THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON, DO ORDAIN AS FOLLOWS:

Section 1. Periodic Review. The Periodic Review required by RCW 90.58.080(4) for the City of Shoreline has been completed as set forth in the recitals above and the amendments in Section 2.

Section 2. Amendment – SMC Title 20 Division II. SMC Title 20 Division II is amended as follows:

- A. The following chapters of the SMC Title 20 Division II are amended as set forth in Exhibit A:
 - 1. Chapter 20.200 SMC;
 - 2. Chapter 20.210 SMC;
 - 3. Chapter 20.220 SMC; and
 - 4. Chapter 20.230 SMC.
- B. A new chapter, Chapter 20.240 Shoreline Master Program Critical Area Regulations is added to SMC Title 20, Division II as set forth in Exhibit B.

Section 3. Amendment – Section SMC 20.80.010. SMC 20.80.010(A) is amended as set forth in Exhibit C.

Section 4. Amendment – Sections SMC 13.12.105 and 13.12.200.

- A. The definition of "Director" as set forth in SMC 13.12.105 is amended as set forth in Exhibit C.
- B. SMC 13.12.200(A) is amended as set forth in Exhibit C.

Section 5. Amendment – City of Shoreline Comprehensive Plan. The City of Shoreline Comprehensive Plan is amended as follows:

- A. A new section, Section 10 Shoreline Master Program, is added to the Comprehensive Plan as set forth in Exhibit D-1.
- B. A new section, Shoreline Master Program Support Analysis, is added to the Comprehensive Plan as set forth in Exhibit D-2.

Section 6. Corrections by City Clerk or Code Reviser. Upon approval of the City Attorney, the City Clerk and/or the Code Reviser are authorized to make necessary corrections to this ordinance, including the corrections of scrivener or clerical errors; references to other local, state, or federal laws, codes, rules, or regulations; or ordinance numbering and section/subsection numbering and references.

Section 7. Submission to the Washington State Department of Ecology – Final Approval. The Director of the Department of Planning and Community Development, or designee, is directed to promptly submit a copy of this Ordinance and all supporting exhibits to the Washington State Department of Ecology for final agency approval as required by WAC 173-26-104(4). The Director, or designee, shall promptly provide the City Clerk with a copy of the Department of Ecology's written notice of final action once issued.

Section 8. Severability. Should any section, subsection, paragraph, sentence, clause, or phrase of this ordinance or its application to any person or situation be declared unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of this ordinance or its application to any person or situation.

Section 9. Publication and Effective Date. A summary of this Ordinance consisting of the title shall be published in the official newspaper. This Ordinance shall take effect fourteen (14) days from the date of the Washington State Department of Ecology's written notice of final action to the City stating that the Department of Ecology has approved the proposed amendments. The Clerk shall append that notice to this Ordinance.

PASSED BY THE CITY COUNCIL ON JUNE 17, 2019

Mayor Will Hall

ATTEST:

APPROVED AS TO FORM:

Jessica Simulcik Smith City Clerk Margaret King City Attorney Date of Publication: _____, 2019 Effective Date: _____, 2019

Attachment A, Exhibit A

Proposed revisions to Shoreline Municipal Code (SMC) language in legislative format -Chapters 20.200, 20.210, 20.220, and 20.230

Division II.

Shoreline Master Planrogram

Chapter 20.200

Shoreline Master Planrogram

Sections:

- 20.200.010 Title.
- 20.200.020 Authority.
- 20.200.025 Liberal Construction.

Subchapter 1. Goals and Objectives

- 20.200.030 Purpose.
- 20.200.040 Shoreline elements.

Subchapter 2. General Provisions

- 20.200.050 Purpose.
- 20.200.060 Administrator.
- 20.200.070 Applicability.
- 20.200.080 Master Program review and update.
- 20.200.090 Amendments to Master Program.

20.200.010 Title.

This chapter<u>title</u> shall be known as the City's Shoreline Master Program, hereafter referred to as the Master Program.

20.200.020 Authority.

The Master Program is adopted in accordance with the Washington State's Shoreline Management Act, c(Chapter 90.58 RCW, hereinafter referred to as the SMA,) and the Statemaster program shoreline guidelines adopted by the State in (Cchapter 173-26 WAC).

Where these regulations require that public access be provided, the requirement shall be construed to be limited to the extent of the lawful and constitutional authority of the City <u>of</u> <u>Shoreline (hereinafter referred to as the City)</u> to require public access or to require the easement, fee ownership or interest requested.

20.200.025 Liberal Construction.

As provided in the SMA, this Master Program shall be liberally construed to give full effect to the purposes, goals, objectives, and policies for which the SMA and this Master Program were enacted.

Subchapter 1. Goals and Objectives

20.200.030 Purpose.

The purpose of this Master Program is to:

- Promote the public health, safety, and general welfare of the community;
- Manage shorelines in a positive, effective, and equitable manner;
- Achieve no net loss to the ecological functions of the City's shorelines;
- Assume and carry out the responsibilities established by the Shoreline Management Act (SMA);
- Adopt and foster the policies contained in Chapter 90.58 RCW, the State Shoreline Management Act<u>the SMA</u>, for shorelines of the State; and
- Assure that proposed regulatory or administrative actions do not unconstitutionally infringe upon private property rights.

20.200.040 Shoreline elements.

The following elements have been considered in the preparation of this Master Program for the City-of Shoreline. The goals and objectives established for these elements provide the basis for policies and regulations included under the general use requirements of this Master Program.

ECONOMIC DEVELOPMENT ELEMENT

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- Goal Provide for economically productive uses that are particularly dependent on their shoreline location or use.
- Objective Plan for economic activity that is water-dependent, water-related, or that provides an opportunity for a substantial number of people to enjoy the shoreline and water.

PUBLIC ACCESS ELEMENT

- Goal Increase public access to publicly owned areas of the shoreline.
- Objective Provide for public access to publicly owned shoreline areas, except where deemed inappropriate due to safety hazards, inherent security problems, environmental impacts, or conflicts with adjacent uses.

RECREATIONAL ELEMENT

- Goal Develop public and private recreation opportunities that are compatible with adjacent uses and that protect the shoreline environments.
- Objective Provide for the preservation and enlargement of public and private recreational opportunities and recreational facilities along the shoreline, including but not limited to parks and recreational areas, wherever appropriate.

CIRCULATION ELEMENT

- Goal Provide interconnected, efficient, and safe transportation networks to and around the shoreline to accommodate vehicles, transit, pedestrians, and cyclists.
- Objective Provide for a safe and adequate circulation system, including existing and proposed major thoroughfares, transportation routes, terminals, and other public utilities and facilities within the shoreline jurisdiction that benefit permitted uses without degrading the environment or aesthetic values of the area.

SHORELINE USE ELEMENT

Goal Regulate land use patterns to locate activity and development in areas of the shoreline that will be compatible with adjacent uses and will be sensitive to existing shoreline environments, habitat, and ecological systems.

Objective Include protections for the natural environment and adjacent uses in <u>SMC Title 20</u>the Shoreline Development Code, Point Wells Subarea Plan, Saltwater Park master planning efforts, and other regulatory framework for development along the shoreline.

CONSERVATION ELEMENT

- Goal Conserve and protect the natural resources of the shoreline including, but not limited to, scenic vistas, aesthetics, and vital estuarine areas for fisheries and wildlife protection.
- Objective Through the use of best available science, develop and implement siting criteria, design standards, and best management practices that promote the long-term enhancement of unique shoreline features, natural resources, and fish and wildlife habitat.

HISTORICAL, /CULTURAL, SCIENTIFIC, AND EDUCATIONAL ELEMENT

- Goal Identify, preserve, protect, and restore shoreline areas, buildings, and sites having historical, cultural, educational, or scientific values.
- Objective Educate citizens on historical, cultural, and scientific significance of shoreline structures, amenities, and functions.

FLOOD HAZARD MANAGEMENT

- Goal Protect the City-of Shoreline and other property owners from losses and damage created by flooding along the coast and sea-level rise.
- Objective Seek regional solutions to flooding problems through coordinated planning with State and Federal agencies, other appropriate interests, and the public.
- Objective Develop a plan to mitigate and adapt to potentially altered environmental conditions along the coastline resulting from climate change.

RESTORATION ELEMENT

Goal Improve water quality, reduce the impacts of flooding events; and restore natural areas, vegetation, and habitat functions.

- Objective Seek funding for restoration projects within the shoreline jurisdiction and require development proposals to address habitat restoration and water quality.
- Objective Engage in discussions with other municipalities that border the Puget Sound and BNSF railroad regarding efforts to benefit fish passage and nutrient transfer.

Subchapter 2. General Provisions

20.200.050 Purpose.

This chapter defines requirements for implementation of the Master Program and sets an orderly process for project review and permitting. The development regulations in the Master Program are intended to make shoreline development responsive to specific design needs and opportunities along the City's shorelines, and to protect the public's interest in the shorelines' recreational and aesthetic values.

20.200.060 Administrator.

The Planning and Community Development Director or designee is the Shoreline Administrator, hereinafter known as the Director, and is vested with authority to:

- Administer the Master Program;
- Approve, approve with conditions, or deny shoreline substantial development permits;
- Grant exemptions from shoreline substantial development permits;

Determine compliance with Chapter 43.21C RCW, the State Environmental Policy Act

- (SEPA); and
- Adopt rules that are necessary and appropriate to carry out the provisions of this chapter.

The Director's duties and responsibilities include:

Making administrative decisions and interpretations of the policies and regulations of this

- program and the SMAShoreline Management Act;
- Developing and proposing amendments to this Master Program to more effectively and

equitably achieve its goals and policies;

Seeking remedies for violations of this Master Program, the provisions of the SMAShoreline

• Management Act, or the conditions of substantial development permits issued by the City; and

Forwarding shoreline permits to Washington State Department of Ecology for Ecology

• actionits approval or disapproval.

20.200.070 Applicability.

A. The regulations of this title apply to all <u>areas within the shoreline jurisdiction, including</u> <u>shorelines of the state, shorelines of statewide significance, and their associated wetlands</u> within the City, and to the waters and underlying land of the Puget Sound extending to the middle of Puget Sound adjacent to Kitsap County, between the northern and southern limits of the City, and to shorelands, that area 200 feet landward of the ordinary high water mark (OHWM).

B. These standardsregulations provide a preference for permit issuance for measures to protect single-family residences occupied prior to January 1, 1992. Nothing in this Master Program shall constitute authority for requiring or ordering the removal of any structures, improvements, docks, fills, or developments placed in navigable waters prior to December 4, 1969, and the consent and authorization of the State of Washington to the impairment of public rights of navigation, and corollary rights incidental thereto, caused by the retention and maintenance of said structures, improvements, docks, fills or developments are hereby granted; provided, that the consent herein given shall not relate to any structures, improvements, docks, fills, or developments placed on tidelands, shorelands, or beds underlying said waters which are in trespass or in violation of State statutes.

C. Regulation of private property to implement program<u>Master Program</u> goals, such as public access and protection of ecological functions and processes, must be consistent with all relevant constitutional and other legal limitations. These include, but are not limited to, civil rights guaranteed by the U.S. and State constitutions, recentapplicable Federal and State case law, and State statutes, such as RCW 34.05.328 and 43.21C.060 and Chapter 82.02 RCW, as amended from time to time.

D. All proposed uses and development, as defined in this chapter<u>title</u>, occurring within the shoreline jurisdiction shall comply with this Master Program and Chapter 90.58 RCW<u>the SMA</u> whether or not a shoreline permit is required for such use or development.

E. Uses and development regulated by this <u>Master P</u>program are subject to applicable provisions of the <u>Shoreline Municipal Code (SMC)</u>, the Comprehensive Plan, the Washington State Shoreline Management Act (Chapter 90.58 RCW)SMA and its implementing regulations, chapters 173-26 and 173-27 WAC, Growth Management Act, <u>-(Chapter 36.70 RCW)</u>, <u>SEPAEnvironmental Policy Act</u>, <u>-(Chapter 43.21C RCW) and its implementing regulations</u>, and Chapter 197-11 WAC), and other <u>applicable</u> local, State and Federal laws, <u>as amended from time to time</u>. Project proponents are responsible for complying with all applicable laws prior to commencing any use, development, or activity.

F. The Master Program policies and regulations shall apply in addition to other City regulations. Where the regulations of the Master Program conflict with other regulations, the regulations that provide more shoreland and shoreline protection shall apply.

G. Nonconforming uses and improvements within the shoreline jurisdiction shall be subject to this program and SMC 20.220.150.

H. The City's critical areas ordinance, Chapter 20.80 SMC, which was passed on February 27, 2006, by Ordinance No. 398, is adopted as a part of the Master Program. The provisions of Chapter 20.80 SMC shall apply to any use, alteration or development within the shoreline jurisdiction whether or not a shoreline permit or written statement of exemption is required.

I. Uses and developments within the shoreline jurisdiction that meet the reasonable use exception provisions of SMC 20.30.336 require a shoreline variance in accordance with this chapter.

JH. All critical areas that are within the shoreline jurisdiction shall be managed and regulated per this Master Program. When a critical area overlaps into the shoreline jurisdiction or is partly within and partly outside of shoreline jurisdiction, only the buffer or setback from the portion of the critical area that is outside of the shoreline jurisdiction is subject to the City's critical area regulations, chapter 20.80 SMC. The exemptions and partial exemptions listed in SMC 20.80.030 and 20.80.040 shall not apply within the shoreline jurisdiction. Such activities may require a shoreline substantial development permit, shoreline variance, or shoreline conditional

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use permit unless the Master Program and RCW 90.58.030(3)(e) specifically indicate the activity is exempt from the shoreline substantial development permit requirements.

20.200.080 Master Program review and update.

This Master Program shall be periodically reviewed <u>and updated as provided in the SMA and</u> <u>the implementing regulations in WAC 173-26</u>, as amended from time to time, as necessary to reflect changing local circumstances, new information or improved data, and changes in State statutes and regulations.

20.200.090 Amendments to Master Program.

Amendments shall comply with the applicable procedures set forth in the SMA and the implementing regulations in WAC 173-26, including WAC 173-26-104 Optional Joint Review Process, as amended from time to time.

No amendment shall be effective until approved by the Department of Ecology as provided in RCW 90.58.090(7), as amended from time to time.

Any of the provisions of this Master Program may be amended as provided for in RCW 90.58.120 and 90.58.200 and Chapter 173-26 WAC. Amendments to the Master Program do not become effective until approved by the Department of Ecology.

Proposals for shoreline environment redesignation, for example amendments to the shoreline maps and descriptions, must demonstrate consistency with the criteria set forth in WAC 173-16-040(4).

Chapter 20.210 SMP Definitions

Sections:

20.210.010 Definitions.

20.210.010 Definitions.

For the purpose of t^The Master Program, the following terms shall have the meaning ascribed to them below. Terms not defined in this section shall be defined as set forth in <u>shall be</u> implemented according to the definitions contained in Chapter 20.20 SMC, Chapter 90.58 RCW, and WAC 173-26-020, and WAC 173-27-030, as amended from time to time, with the definitions contained in the RCW and WAC prevailing over the SMC. Where definitions contained in Chapter 20.20 SMC conflict or differ from definitions contained in the Shoreline Management Act, the definitions in the RCW and WAC shall prevail.

Accretion. May be either natural or artificial. Natural accretion is the buildup of land, solely by the action of the forces of nature, on a beach by deposition of water- or airborne material. Artificial accretion is a similar buildup of land by reason of an act of man, such as the accretion formed by a groin, breakwater, or beach fill deposited by mechanical means.

Activity. An occurrence associated with a use; the use of energy toward a specific action or pursuit. Examples of shoreline activities include, but are not limited to, fishing, swimming, boating, dredging, fish spawning, or wildlife nesting.

Adjacent Lands. Lands adjacent to the lands within the shoreline jurisdiction. The SMA directs local governments to develop land use controls (i.e., zoning, comprehensive planning) for such lands consistent with the policies of the SMA, related rules and the local shoreline master program (refer to RCW 90.58.340).

Agricultural Uses.

A. "Agricultural activities" means agricultural uses and practices including, but not limited to: producing, breeding, or increasing agricultural products; rotating and changing agricultural crops; allowing land used for agricultural activities to lie fallow in which it is plowed and tilled but left unseeded; allowing land used for agricultural activities to lie dormant as a result of adverse agricultural market conditions; allowing land used for agricultural activities to lie dormant, or the land is because the land is enrolled in a local, State, or Federal conservation program, or the land is

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subject to a conservation easement; conducting agricultural operations; maintaining, repairing, and replacing agricultural equipment; maintaining, repairing, and replacing agricultural facilities; provided, that the replacement facility is no closer to the shoreline than the original facility; and maintaining agricultural lands under production or cultivation;

B. "Agricultural products" includes but is not limited to horticultural, viticultural, floricultural, vegetable, fruit, berry, grain, hops, hay, straw, turf, sod, seed, and apiary products; feed or forage for livestock; Christmas trees; hybrid cottonwood and similar hardwood trees grown as crops and harvested within 20 years of planting; and livestock including both the animals themselves and animal products including but not limited to meat, upland finfish, poultry and poultry products, and dairy products;

C. "Agricultural equipment" and "agricultural facilities" include, but are not limited to:

1. The following used in agricultural operations: equipment; machinery; constructed shelters, buildings, and ponds; fences; upland finfish rearing facilities; water diversion, withdrawal, conveyance, and use equipment and facilities including but not limited to pumps, pipes, tapes, canals, ditches, and drains;

2. Corridors and facilities for transporting personnel, livestock, and equipment to, from, and within agricultural lands;

3. Farm residences and associated equipment, lands, and facilities; and

4. Roadside stands and on-farm markets for marketing fruit or vegetables; and

D. "Agricultural land" means those specific land areas on which agriculture activities are conducted as of the date of adoption of a local master program pursuant to these guidelines<u>this</u> <u>Master Program</u> as evidenced by aerial photography or other documentation. After the effective date of the master program land converted to agricultural use is subject to compliance with the requirements of the master program.

Anadromous Fish. Fish born in fresh water, which spend most of their lives in the sea and return to fresh water to spawn. Salmon, smelt, shad, striped bass, and sturgeon are common examples.

Aquaculture. The culture or farming of fish, shellfish, or other aquatic plants and animals. Aquaculture does not include the harvest of wild geoduck associated with the State managed wildstock geoduck fishery and upland finfish.

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Aquaculture Activity. Actions directly pertaining to growing, handling, or harvesting of aquaculture produce including, but not limited to, propagation, stocking, feeding, disease treatment, waste disposal, water use, development of habitat and structures. Excluded from this definition are related upland commercial or industrial uses such as wholesale and retail sales, sorting, staging, hatcheries, tank farms, and final processing and freezing.

Associated Wetlands. Those wetlands that are in proximity to and either influence, or are influenced by, tidal waters or a lake or stream subject to the <u>SMAShoreline Management Act</u>. Refer to WAC 173-22-030(1).

Backfill. The placement of earth material or other approved material behind a retaining wall or structure.

Boat Launch or Ramp. Graded slopes, slabs, pads, planks, or rails used for launching boats by means of a trailer, hand, or mechanical device.

Breakwaters. Structures constructed on coasts as part of coastal defense to protect an anchorage from the effects of weather and longshore drift.

Building Setback. <u>The required linear distance between the structure/building and the</u> <u>shoreline or critical area.</u> The building setback shall be equal to the depth of the required native vegetation conservation area.

Bulkheads. A vertical or nearly vertical structure placed parallel to the shoreline at or near the ordinary high water mark (OHWM) for the purpose of armoring the shoreline and protecting structures from the effects of erosion caused by wind or waves. Bulkheads generally consist of concrete, timber, steel, rock, or other material resistant to erosion. Bulkheads are used to protect banks by retaining soil at the toe of the slope, or by protecting the toe of the bank from erosion and undercutting.

Community Boat Launching Ramp. An inclined slab, set of pads, rails, planks, or graded slope used for launching boats with trailers or by hand for use in common by shoreline residents of a certain subdivision or community within shoreline jurisdiction.

Community Pier or Dock. Moorage for pleasure craft and/or landing for water sports for use in common by four or more residential units of a certain subdivision or community within the shoreline jurisdiction.

Conditional Use, Shoreline. A use, development, or substantial development that is classified as a conditional use or is not classified within the Master Program. Refer to WAC 173-27-030(4).

Department of Ecology or Ecology. The state agency created under chapter 43.21A RCW responsible for the administration of the SMA.

Development, Shoreline. "Development" means a use consisting of the construction or exterior alteration of structures; dredging; drilling; dumping; filling; removal of any sand, gravel, or minerals; bulkheading; driving of piling; placing of obstructions; or any project of a permanent or temporary nature which interferes with the normal public use of the surface of the waters overlying lands subject to this chapter at any state of water level. RCW 90.58.030(3)(d).<u>Development does not include dismantling or removing structures if there is no other associated development or re-development.</u>

Dredge Spoil. The material removed by dredging.

Dredge Spoil Disposal. The depositing of dredged materials on land or into water bodies for the purpose of either creating new or additional lands or for disposing of the material in an acceptable manner.

Dredging. The removal or displacement of earth such as gravel, sand, mud, or silt from lands covered by water. Lands covered by water include stream beds and wetlands. Dredging is normally done for specific purposes or uses such as maintaining navigation channels, constructing bridge footings, or laying submarine pipelines or cable.

Ecological Functions, Shoreline or Shoreline Functions. The work performed or the role played by the physical, chemical, and biological processes that contribute to the maintenance of the aquatic and terrestrial environments that constitute the shoreline's natural ecosystem. See WAC 173-26-201(c).

Enhancement. Alteration of an existing resource to improve or increase its characteristics and processes without degrading other existing functions. Enhancements are to be distinguished from resource creation or restoration projects.

Exemption. Certain specific developments as listed in WAC 173-27-040 are exempt from the definition of substantial developments, and are therefore exempt from the substantial development permit process of the SMA.

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Fair Market Value. The open market bid price for conducting the work, using the equipment and facilities, and purchase of the goods, services and materials necessary to accomplish a development. This would normally equate to the cost of hiring a contractor to undertake the development from start to finish, including the cost of labor, materials, equipment and facility usage, transportation and contractor overhead and profit. The fair market value of the development shall include the fair market value of any donated, contributed or found labor, equipment, or materials.

Feasible. An action, such as a development project, mitigation, or preservation requirement, shall meet all of the that meets all of the following conditions:

A. The action can be accomplished with technologies and methods that have been used in the past in similar circumstances, or studies or tests have demonstrated in similar circumstances that such approaches are currently available and likely to achieve the intended results;

B. The action provides a reasonable likelihood of achieving its intended purpose; and

C. The action does not physically preclude achieving the project's primary intended legal use.

In cases where these guidelines require certain actions unless they are infeasible, the burden of proving infeasibility is on the applicant. In determining an action's infeasibility, the reviewing agency may weigh the action's relative public costs and public benefits, considered in the short-and long-term time frames.

Flood Control. Any undertaking for the conveyance, control, and dispersal of floodwaters caused by abnormally high direct precipitation or stream overflow.

Gabions. Cages, cylinders, or boxes filled with soil or sand that are used in civil engineering, road building, and military applications, primarily for erosion control and building dams and retaining walls.

Geotechnical Report or Analysis. A scientific study or evaluation conducted by a qualified expert that includes a description of the ground and surface hydrology and geology, the affected landform and its susceptibility to mass wasting, erosion, and other geologic hazards or processes, conclusions and recommendations regarding the effect of the proposed development on geologic conditions, the adequacy of the site to be developed, the impacts of the proposed development, alternative approaches to the proposed development, and measures to mitigate potential site-specific and cumulative geological and hydrological impacts of the proposed development, including the potential adverse impacts to adjacent and down-

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current properties. Geotechnical reports shall conform to accepted technical standards and must be prepared by qualified professional engineers or geologists who have professional expertise about the regional and local shoreline geology and processes.

Grading. The movement or redistribution of the soil, sand, rock, gravel, sediment, or other material on a site in a manner that alters the natural contour of the land.

Groin. A rigid structure built out from a shore to protect the shore from erosion, to trap sand, or to direct a current for scouring a channel.

Ground Water Recharge. A hydrologic process where water moves downward from surface water to ground water. Recharge occurs both naturally (through the water cycle) and anthropologically (i.e., "artificial ground water recharge"), where rainwater and/or reclaimed water is routed to the subsurface.

Hydric Soil. Soil that formed under conditions of saturation, flooding, or ponding long enough during the growing season to develop anaerobic conditions in the upper soil horizon(s).

Jetty. Any of a variety of structures used in river, dock, and maritime works that are generally carried out in pairs from river banks, or in continuation of river channels at their outlets into deep water; or out into docks, and outside their entrances; or for forming basins along the sea-coast for ports in tideless seas.

Joint Use. Moorage for pleasure craft and/or landing for water sports for use in common by two or more residential units of a certain subdivision or community within shoreline jurisdiction.

Land Disturbing Activities. Any activity resulting in a movement of earth, or a change in the existing soil cover, both vegetative and nonvegetative, or the existing topography excluding the addition of soil, sand, rock, gravel, sediment, earth retaining structure, or other material to an area waterward of the OHWM, in wetlands, or on shorelands in a manner that raises the elevation or creates dry land. Land disturbing activities include, but are not limited to, clearing, grading, filling, excavation, or addition of new or the replacement of impervious surface. Compaction, excluding hot asphalt mix, which is associated with stabilization of structures and road construction, shall also be considered a land disturbing activity.

Landfilling. The addition of soil, sand, rock, gravel, sediment, earth retaining structure, or other material to an area waterward of the OHWM, in wetlands, or on shorelands in a manner that creates dry land.

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Native Vegetation. Vegetation comprised of plant species, other than noxious weeds, that are indigenous to the coastal region of the Pacific Northwest and which reasonably could have been expected to naturally occur on the site. Examples include trees such as madrona, Douglas fir, western hemlock, western red cedar, alder, big-leaf maple, and vine maple; shrubs such as willow, elderberry, salmonberry, and salal; and herbaceous plants such as sword fern, foam flower, and fireweed.

Native Vegetation Conservation Area. Vegetated area between the native vegetation setback line and the <u>OHWMordinary high water mark</u>.

Native Vegetation Setback Line. Unless otherwise indicated within this Master Program, the line that establishes the limits of all buildings, fencing and impervious surfaces along the shoreline.

Nonconforming Development or Nonconforming Structure. An existing structure that was lawfully constructed at the time it was built but is no longer full consistent with present regulations such as setbacks, buffers, area, bulk, height, or density standards due to subsequent changes to this Master Program.

Nonconforming Lot. An existing lot that met dimensional requirements of this Master Program at the time of its establishment but now contains less than the required width, depth, or area due to subsequent changes to this Master Program.

Nonconforming Use and Development. An existing shoreline use or development that was lawfully constructed or established prior to the effective date of the Act or the applicable<u>this</u> Master Program, or amendments thereto, but which does not conform to present regulations or standards of the program.

Non-Water-Oriented Uses. Those uses that are not water-dependent, water-related, or waterenjoyment.

Normal Maintenance. Usual acts to prevent a decline, lapse, or cessation from a lawfully established condition.

Normal Repair. To restore a development to a state comparable to its original condition, including but not limited to its size, shape, configuration, location and external appearance, within a reasonable period after decay or partial destruction, except where repair causes substantial adverse effects to shoreline resource or environment. Replacement of a structure or development may be authorized as repair where such replacement is the common method of

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repair for the type of structure or development and the replacement structure or development is comparable to the original structure or development including but not limited to its size, shape, configuration, location and external appearance and the replacement does not cause substantial adverse effects to shoreline resources or environment.

Ordinary High Water Mark (OHWM). OHWM on all lakes, streams, and tidal water is that mark that will be found by examining the bed and banks and ascertaining where the presence and action of waters are so common and usual, and so long continued in all ordinary years, as to mark upon the soil a character distinct from that of the abutting upland, in respect to vegetation as that condition exists on June 1, 1971, as it may naturally change thereafter, or as it may change thereafter in accordance with permits issued by a local government or the Department<u>the City, King County, or the Department of Ecology</u>; provided, that in any area where the <u>OHWMordinary high water mark</u> cannot be found, the <u>OHWMordinary high water mark</u> adjoining salt water shall be the line of mean higher high tide and the <u>OHWMordinary high water mark</u> adjoining fresh water shall be the line of mean high water.

Public Access. Public access is the ability of the general public to reach, touch, and enjoy the water's edge, to travel on the waters of the State, and to view the water and the shoreline from adjacent locations. Refer to WAC 173-26-221(4).

Public Boat Launching Ramp. An inclined slab, set of pads, rails, planks, or graded slope used for launching boats with trailers or by hand for use by the general public.

Public Pier or Dock. Moorage for pleasure craft and/or landing for water sports for use by the general public.

Restoration. The reestablishment or upgrading of impaired ecological processes or functions. This may be accomplished through measures including but not limited to revegetation, removal of intrusive structures, toxic materials, or invasive or nonnative plants. Restoration does not imply a requirement for returning the area to pre-European settlement conditions.

Revetment. A sloped wall constructed of riprap or other suitable material placed on stream banks or other shorelines to retard bank erosion and minimize lateral stream movement. A revetment typically slopes away from the water and has a rough or jagged face. These features differentiate it from a bulkhead, which is a vertical structure. Revetments are a facing of stone, concrete, etc., built to protect a scarp, embankment, or shore structure against erosion by

waves or currents. The principal features of a revetment are: (A) heavy armor layer, (B) filter layer, and (C) toe protection.

Riparian. The characteristic of relating to or living or located on the bank of a natural watercourse (as a river) or sometimes of a lake or a tidewater.

Sediment. The fine-grained material deposited by water or wind.

Shorelands or Shoreland Areas. Those lands extending landward for 200 feet in all directions as measured on a horizontal plane from the <u>OHWMordinary high water mark</u>; contiguous floodplain areas landward 200 feet; and all wetlands and deltas associated with the streams, lakes, and tidal waters that are subject to the provisions of this chapter<u>this Master Program</u>; the same to be designated as to location by the Washington State Department of Ecology.

Shoreline Jurisdiction. All "shorelines of the State" and "shorelands" as defined in RCW <u>90.58.030</u>, as amended from time to time.

Shoreline Management Act (SMA). The Shoreline Management Act of 1971, as adopted in chapter 90.58 RCW, and as amended from time to time.

Shoreline Master Program or Master Program. The comprehensive plan for the use of a described area, and the regulations for use of the area including maps, diagrams, charts, or other descriptive material and text, a statement of desired goals, and standards developed in accordance with the policies enunciated in RCW 90.58.020, as amended from time to time. As provided in RCW 36.70A.480, the goals and policies of a shoreline master program for a county or city approved under Chapter 90.58 RCW shall be considered an element of the county or city's comprehensive plan. All other portions of the shoreline master program for a county or city adopted under Chapter 90.58 RCW, including use regulations, shall be considered a part of the county or city's development regulations.

Shoreline Modifications. Those actions that modify the physical configuration or qualities of the shoreline area, usually through the construction of a physical element such as a dike, breakwater, pier, weir, dredged basin, fill, bulkhead, or other shoreline structure. They can include other actions, such as clearing, grading, or application of chemicals.

Shoreline Municipal Code (SMC). The municipal code of the City of Shoreline.

Shorelines. All of the water areas of the State, including reservoirs, and their associated shorelands, together with the lands underlying them; except (A) shorelines of statewide

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significance; and (B) shorelines on lakes less than 20 acres in size and wetlands associated with such small lakes.

Shorelines of Statewide Significance. "Shorelines of the State" that meet the criteria for "shorelines of statewide significance" contained in RCW 90.58.030(2)(f), as amended from time to time. As it applies to the City-of-Shoreline, shorelines of statewide significance include those areas of Puget Sound and adjacent salt waters between the <u>OHWMordinary high water mark</u> and the line of extreme low tide.

Shorelines of the State. This term includes both "shorelines" and "shorelines of statewide significance."

Substantial Development. Any development with a total cost or fair market value of \$5,718 or more that requires a shoreline substantial development permit. The threshold total cost or fair market value of \$5,718 is set by the State Office of Financial Management and may be adjusted in the future pursuant to the SMA requirements, as defined in RCW 90.58.030(3)(e) as now or hereafter amended. Any development of which the total cost or fair market value exceeds the amount set forth by the Washington State Office of Financial Management pursuant to RCW 90.58.030(3)(e) at the time of application submittal or any development which materially interferes with the normal public use of the water or shorelines of the state.

Washington Administrative Code (WAC). Specifically Chapter 173-26 Master Program Guidelines and Chapter 173-27 Permit and Enforcement, as amended from time to time.

Water-Dependent Use. A use or portion of a use which cannot exist in a location that is not adjacent to the water, but is dependent on the water by reason of the intrinsic nature of its operations.

Water Enjoyment Use. A recreational or other use that facilitates public access to the shoreline as a primary characteristic of the use; or a use that provides for recreational use or aesthetic enjoyment of the shoreline for a substantial number of people as a general characteristic of the use and which through location, design, and operation ensures the public's ability to enjoy the physical and aesthetic qualities of the shoreline. In order to qualify as a water enjoyment use, the use must be open to the general public and the shoreline-oriented space within the project must be devoted to the specific aspects of the use that fosters shoreline enjoyment.

Water-Oriented Use. A use that is water-dependent, water-related, or water enjoyment, or a combination of such uses.

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Water Quality. The physical characteristics of water within shoreline jurisdiction, including water quantity, hydrological, physical, chemical, aesthetic, recreation-related, and biological characteristics.

<u>Water Quantity.</u> Where used in this chapter, the term "water quantity" rRefers only to development and uses regulated under this chapterthis Master Program and affecting water quantity, such as impermeable surfaces and stormwater handling practices. Water quantity, for purposes of this chapterthis Master Program, does not mean the withdrawal of ground water or diversion of surface water pursuant to RCW 90.03.250 through 90.03.340, as amended from time to time.

Water-Related Use. A use or portion of a use that is not intrinsically dependent on a waterfront location, but whose economic viability is dependent upon a waterfront location because: (A) the use has a functional requirement for a waterfront location such as the arrival or shipment of materials by water or the need for large quantities of water; or (B) the use provides a necessary service supportive of the water-dependent uses and the proximity of the use to its customers makes its services less expensive and/or more convenient.

Wave Return. A structure added on top of, or part of, an existing bulkhead or hard armoring which redirects wave action back waterward and helps prevent water from splashing landward, thereby protecting the armoring itself, and landward items such as natural ecology and other structures.

Weir. A dam in a watercourse, usually a stream or river, to raise the water level or divert its flow.

Wetland Delineation. A technical procedure performed by a wetland specialist <u>pursuant to the</u> <u>manual adopted by the Department of Ecology pursuant to RCW 90.58.380, as amended from</u> <u>time to time,</u> to determine the area of a wetland, ascertaining the wetland's classification, function, and value, and to define the boundary between a wetland and adjacent uplands. Identification of wetlands and delineation of their boundaries pursuant to this chapter shall be done in accordance with the approved Federal wetland delineation manual and applicable regional supplements. All areas within the City meeting the wetland designation criteria in that procedure are hereby designated critical areas and are subject to the provisions of this program.

Wetlands. Areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, and that under normal circumstances do support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands

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generally include swamps, marshes, bogs, and similar areas. Wetlands do not include those artificial wetlands intentionally created from nonwetland sites, including, but not limited to, irrigation and drainage ditches, grass-lined swales, canals, detention facilities, wastewater treatment facilities, farm ponds, and landscape amenities, or those wetlands created after July 1, 1990, that were unintentionally created as a result of the construction of a road, street, or highway. Wetlands may include those artificial wetlands intentionally created from nonwetland areas to mitigate the conversion of wetlands.

Chapter 20.220 SMP Administrative Procedures

Sections:

Subchapter 1. Permits

- 20.220.010 Permit requirements General.
- 20.220.015 Developments not required to obtain shoreline permits or local reviews.
- 20.220.020 Substantial development permit.
- 20.220.030 Development exempt from substantial development permit

requirementShoreline exemption.

- 20.220.040 Shoreline variance.
- 20.220.050 Shoreline conditional use permit.

Subchapter 2. SMP Permit Procedures

- 20.220.060 General.
- 20.220.070 Application review.
- 20.220.080 Permit process.
- 20.220.090 Local appeals.
- 20.220.110 Appeals to State Shoreline Hearings Board.
- 20.220.120 Initiation of development.
- 20.220.130 Expiration of permits.
- 20.220.140 Revision to permits.
- 20.220.150 Nonconforming use and development.
- 20.220.160 Enforcement.

Subchapter 1.

Permits

20.220.010 Permit requirements – General.

A. Based on the provisions of this Master Program, the Director shall determine if a substantial development permit, a shoreline conditional use permit and/or a shoreline variance is required.

B. A permit is required for substantial development as defined in <u>SMC 20.210.010 and</u> RCW
 90.58.030(3)(e), as amended from time to time, within the shoreline jurisdiction.

C. A substantial development permit is not required for exempt development. An exempt development requires a statement of exemption pursuant to SMC 20.220.030 and may require a shoreline variance from Master Program provisions and/or a shoreline conditional use permit.

D. All uses and development shall be carried out in a manner consistent with the SMC and the Master Program regardless of whether a substantial development permit, statement of exemption, shoreline variance, or shoreline conditional use permit is required.

E. When a development or use is proposed that does not comply with the bulk, dimensional and/or performance standards of this program, such development or use may only be authorized by approval of a shoreline variance, even if the development or use does not require a substantial development permit.

F. A development or use listed as a shoreline conditional use pursuant to this chapter, or any unlisted use, must obtain a shoreline conditional use permit even if the development or use does not require a substantial development permit.

G. Issuance of a statement of exemption, shoreline substantial development permit, shoreline variance, or shoreline conditional use permit does not constitute approval of any other $G_{\underline{c}}$ ity, $S_{\underline{s}}$ tate, or $F_{\underline{f}}$ ederal laws or regulations.

H. All shoreline permits or statements of exemption issued for development or use within the shoreline jurisdiction shall include written findings prepared by the Director, documenting compliance with bulk and dimensional policies and regulations of the Master Program. The Director may attach conditions to the approval as necessary to assure consistency with the <u>SMA and this</u> Master Program and Chapter 90.58 RCW. The conditions may include a requirement to post a performance financial guarantee assuring compliance with permit requirements, terms and conditions.

20.220.015 Developments not required to obtain shoreline permits or local reviews.

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Requirements to obtain a substantial development permit, conditional use permit, variance, letter of exemption, or other review to implement the SMA do not apply to the following:

A. Remedial actions. Pursuant to RCW 90.58.355, any person conducting a remedial action at a facility pursuant to a consent decree, order, or agreed order issued pursuant to Chapter 70.105D RCW, or to the Department of Ecology when it conducts a remedial action under Chapter 70.105D RCW, as amended from time to time.

B. Boatyard improvements to meet NPDES permit requirements. Pursuant to RCW 90.58.355, as amended from time to time, any person installing site improvements for storm water treatment in an existing boatyard facility to meet requirements of a national pollutant discharge elimination system storm water general permit.

C. Washington State Department of Transportation (WSDOT) facility maintenance and safety improvements. Pursuant to RCW 90.58.356, as amended from time to time, WSDOT projects and activities meeting the conditions of RCW 90.58.356 are not required to obtain a substantial development permit, conditional use permit, variance, letter of exemption, or other local review.

D. Projects consistent with an environmental excellence program agreement pursuant to RCW 90.58.045, as amended from time to time.

E. Projects authorized through the Energy Facility Site Evaluation Council process, pursuant to Chapter 80.50 RCW, as amended from time to time.

20.220.020 Substantial development permit.

A. Substantial development as defined by RCW 90.58.030-shall not be undertaken by any person on the shorelines of the State without first obtaining a substantial development permit from the Director, unless the use or development is specifically identified as exempt.

B. A substantial development permit shall only be granted by the Director when the development proposed is consistent with the policies and procedures of <u>the SMA</u>, Chapter 90.58 RCW; the provisions of Chapter 173-27 WAC, as amended from time to time,; and this e Master Program, and this chapter.

C. An exemption from the substantial development permit requirements does not constitute an exemption from the policies and use regulations of the Shoreline Management Act, the provisions of this Master Program or other applicable City, State, or Federal requirements. A formal statement of shoreline exemption is required pursuant to SMC 20.220.030.

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20.220.030 <u>Development exempt from substantial development permit requirement</u> Shoreline exemption.

A. <u>Exemptions – In general.</u>

1. The development activities listed in RCW 90.58.030 and WAC 173-27-040, as amended from time to time, shall not require substantial development permits.

2. Exemptions are construed narrowly. Only those developments that meet the precise terms of one or more of the listed exemptions may be granted exemption from the substantial development permit process.

3. An exemption from the substantial development permit process does not constitute an exemption from compliance with the SMA, this Master Program, or any other applicable city, state, or federal regulations.

4. If any part of a proposed development of use is not eligible for exemption, then a substantial development permit is required for the entire proposed development project.

5. The burden of proof that a development or use is exempt from the permit process is on the applicant.

B. Letter of Exemption.

<u>1.</u> The Director is hereby authorized to approve or deny requests for statements<u>letters</u> of exemption from the shoreline substantial development permit requirement for uses and developments within shorelines that are specifically listed in RCW 90.58.030 and WAC 173-27-040, as amended from time to time.

2. Before issuing a shoreline exemption, the Director shall review the Master Program to determine if the proposed development requires a shoreline variance and/or a shoreline conditional use permit.

<u>3.</u> The statement<u>letter of exemption</u> shall be in writing and shall indicate the specific exemption of the Master Program that is being applied to the development, and shall provide a summary of the Director's analysis of the consistency of the project with this Master Program and the Act<u>SMA</u>. WAC 173-27-040 delineates exemptions and is included below.

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4. The Director may attach conditions to the exempted development and/or use as necessary to assure consistency of the project with the SMA and this Master Program.

Exempt developments include:

 Any development of which the total cost or fair market value, whichever is higher, does not exceed \$5,000, if such development does not materially interfere with the normal public use of the water or shorelines of the State. The dollar threshold established in this subsection must be adjusted for inflation by the Office of Financial Management every five years, beginning July 1, 2007, based upon changes in the consumer price index during that time period. "Consumer price index" means, for any calendar year, that year's annual average consumer price index, Seattle, Washington area, for urban wage earners and clerical workers, all items, compiled by the Bureau of Labor and Statistics, United States Department of Labor. The Office of Financial Management must calculate the new dollar threshold and transmit it to the office of the code reviser for publication in the Washington State Register at least one month before the new dollar threshold is to take effect. For purposes of determining whether or not a permit is required, the total cost or fair market value shall be based on the value of development that is occurring on shorelines of the State as defined in RCW 90.58.030(2)(c). The total cost or fair market value of the development shall include the fair market value of any donated, contributed or found labor, equipment or materials.

2. Normal maintenance or repair of existing structures or developments, including damage by accident, fire or elements. "Normal maintenance" includes those usual acts to prevent a decline, lapse, or cessation from a lawfully established condition. "Normal repair" means to restore a development to a state comparable to its original condition, including but not limited to its size, shape, configuration, location and external appearance, within a reasonable period after decay or partial destruction, except where repair causes substantial adverse effects to shoreline resources or environment. Replacement of a structure or development may be authorized as repair where such replacement is the common method of repair for the type of structure or development and the replacement structure or development is comparable to the original structure or development including but not limited to its size, shape, configuration, location and external appearance and the replacement does not cause substantial adverse effects to shoreline resources or environment.

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Construction of the normal protective bulkhead common to single-family residences. A "normal protective" bulkhead includes those structural and nonstructural developments installed at or near, and parallel to, the ordinary high water mark for the sole purpose of protecting an existing single-family residence and appurtenant structures from loss or damage by erosion. A normal protective bulkhead is not exempt if constructed for the purpose of creating dry land. When a vertical or near vertical wall is being constructed or reconstructed, not more than one cubic yard of fill per one foot of wall may be used as backfill. When an existing bulkhead is being repaired by construction of a vertical wall fronting the existing wall, it shall be constructed no further waterward of the existing bulkhead than is necessary for construction of new footings. When a bulkhead has deteriorated such that an ordinary high water mark has been established by the presence and action of water landward of the bulkhead, then the replacement bulkhead must be located at or near the actual ordinary high water mark. Beach nourishment and bioengineered erosion control projects may be considered a normal protective bulkhead when any structural elements are consistent with the above requirements and when the project has been approved by the Department of Fish and Wildlife.

4. Emergency construction necessary to protect property from damage by the elements. An "emergency" is an unanticipated and imminent threat to public health, safety, or the environment which requires immediate action within a time too short to allow full compliance with this chapter. Emergency construction does not include development of new permanent protective structures where none previously existed. Where new protective structures are deemed by the Administrator to be the appropriate means to address the emergency situation, upon abatement of the emergency situation the new structure shall be removed or any permit which would have been required, absent an emergency, pursuant to Chapter 90.58 RCW, these regulations, or the local Master Program, obtained. All emergency construction shall be consistent with the policies of Chapter 90.58 RCW and the local Master Program. As a general matter, flooding or other seasonal events that can be anticipated and may occur but that are not imminent are not an emergency.

5. Construction and practices normal or necessary for farming, irrigation, and ranching activities, including agricultural service roads and utilities on shorelands, construction of a barn or similar agricultural structure, and the construction and maintenance of irrigation structures including but not limited to head gates, pumping facilities, and irrigation

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channels; provided, that a feedlot of any size, all processing plants, other activities of a commercial nature, or alteration of the contour of the shorelands by leveling or filling other than that which results from normal cultivation shall not be considered normal or necessary farming or ranching activities. A feedlot shall be an enclosure or facility used or capable of being used for feeding livestock hay, grain, silage, or other livestock feed, but shall not include land for growing crops or vegetation for livestock feeding and/or grazing, nor shall it include normal livestock wintering operations.

6. Construction or modification of navigational aids such as channel markers and anchor buoys.

7. Construction on shorelands by an owner, lessee or contract purchaser of a singlefamily residence for their own use or for the use of their family, which residence does not exceed a height of 35 feet above average grade level and which meets all requirements of the State agency or local government having jurisdiction thereof, other than requirements imposed pursuant to Chapter 90.58 RCW. "Single-family residence" means a detached dwelling designed for and occupied by one family including those structures and developments within a contiguous ownership which are a normal appurtenance. An "appurtenance" is necessarily connected to the use and enjoyment of a single-family residence and is located landward of the ordinary high water mark and the perimeter of a wetland. On a statewide basis, normal appurtenances include a garage; deck; driveway; utilities; fences; installation of a septic tank and drainfield and grading which does not exceed 250 cubic yards and which does not involve placement of fill in any wetland or waterward of the ordinary high water mark. Local circumstances may dictate additional interpretations of normal appurtenances which shall be set forth and regulated within the applicable Master Program. Construction authorized under this exemption shall be located landward of the ordinary high water mark.

8. Construction of a dock, including a community dock, designed for pleasure craft only, for the private noncommercial use of the owner, lessee, or contract purchaser of single-family and multiple-family residences. A dock is a landing and moorage facility for watercraft and does not include recreational decks, storage facilities or other appurtenances. This exception applies if either:

a. In salt waters, the fair market value of the dock does not exceed \$2,500; or

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b. In fresh waters, the fair market value of the dock does not exceed \$10,000, but if subsequent construction having a fair market value exceeding \$2,500 occurs within five years of completion of the prior construction, the subsequent construction shall be considered a substantial development for the purpose of this chapter.

c. For purposes of this section, salt water shall include the tidally influenced marine and estuarine water areas of the State including the Pacific Ocean, Strait of Juan de Fuca, Strait of Georgia and Puget Sound and all bays and inlets associated with any of the above.

9. Operation, maintenance, or construction of canals, waterways, drains, reservoirs, or other facilities that now exist or are hereafter created or developed as a part of an irrigation system for the primary purpose of making use of system waters, including return flow and artificially stored ground water from the irrigation of lands.

10. The marking of property lines or corners on State-owned lands, when such marking does not significantly interfere with normal public use of the surface of the water.

11. Operation and maintenance of any system of dikes, ditches, drains, or other facilities existing on September 8, 1975, which were created, developed or utilized primarily as a part of an agricultural drainage or diking system.

12. Any project with a certification from the governor pursuant to Chapter 80.50 RCW.

13. Site exploration and investigation activities that are prerequisite to preparation of an application for development authorization under this chapter, if:

 a. The activity does not interfere with the normal public use of the surface waters;

 The activity will have no significant adverse impact on the environment including but not limited to fish, wildlife, fish or wildlife habitat, water quality, and aesthetic values;

c. The activity does not involve the installation of any structure, and upon completion of the activity the vegetation and land configuration of the site are restored to conditions existing before the activity;

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d. A private entity seeking development authorization under this section first posts a performance bond or provides other evidence of financial responsibility to the local jurisdiction to ensure that the site is restored to preexisting conditions; and

e. The activity is not subject to the permit requirements of RCW 90.58.550.

14. The process of removing or controlling aquatic noxious weeds, as defined in RCW 17.26.020, through the use of an herbicide or other treatment methods applicable to weed control that are recommended by a final environmental impact statement published by the Department of Agriculture or the Department of Ecology jointly with other State agencies under Chapter 43.21C RCW.

15. Watershed restoration projects as defined herein. Local government shall review the projects for consistency with the Shoreline Master Program in an expeditious manner and shall issue its decision along with any conditions within 45 days of receiving all materials necessary to review the request for exemption from the applicant. No fee may be charged for accepting and processing requests for exemption for watershed restoration projects as used in this section.

"Watershed restoration project" means a public or private project authorized by the sponsor of a watershed restoration plan that implements the plan or a part of the plan and consists of one or more of the following activities:

a. A project that involves less than 10 miles of stream reach, in which less than 25 cubic yards of sand, gravel, or soil are removed, imported, disturbed or discharged, and in which no existing vegetation is removed except as minimally necessary to facilitate additional plantings;

b. A project for the restoration of an eroded or unstable stream bank that employs the principles of bioengineering, including limited use of rock as a stabilization only at the toe of the bank, and with primary emphasis on using native vegetation to control the erosive forces of flowing water; or

c. A project primarily designed to improve fish and wildlife habitat, remove or reduce impediments to migration of fish, or enhance the fishery resource available for use by all of the citizens of the State; provided, that any structure, other than a bridge or culvert or in-stream habitat enhancement structure

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associated with the project, is less than 200 square feet in floor area and is located above the ordinary high water mark of the stream.

d. "Watershed restoration plan" means a plan, developed or sponsored by the Department of Fish and Wildlife, the Department of Ecology, the Department of Natural Resources, the Department of Transportation, a Federally recognized Indian tribe acting within and pursuant to its authority, a city, a county, or a conservation district that provides a general program and implementation measures or actions for the preservation, restoration, re-creation, or enhancement of the natural resources, character, and ecology of a stream, stream segment, drainage area, or watershed for which agency and public review has been conducted pursuant to Chapter 43.21C RCW, the State Environmental Policy Act.

16. A public or private project that is designed to improve fish or wildlife habitat or fish passage, when all of the following apply:

a. The project has been approved in writing by the Department of Fish and Wildlife;

b. The project has received hydraulic project approval by the Department of Fish and Wildlife pursuant to Chapter 77.55 RCW; and

c. The local government has determined that the project is substantially consistent with the local Shoreline Master Program. The local government shall make such determination in a timely manner and provide it by letter to the project proponent.

Fish habitat enhancement projects that conform to the provisions of RCW 77.55.181 are determined to be consistent with local shoreline master programs, as follows:

i. In order to receive the permit review and approval process created in this section, a fish habitat enhancement project must meet the criteria under subsections (A)(16)(c)(i)(A) and (B) of this section:

(A) A fish habitat enhancement project must be a project to accomplish one or more of the following tasks:

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- Elimination of human-made fish passage barriers, including culvert repair and replacement;
- Restoration of an eroded or unstable streambank
 employing the principle of bioengineering, including limited use of rock as a stabilization only at the toe of the bank, and with primary emphasis on using native vegetation to control the erosive forces of flowing water; or
- Placement of woody debris or other in-stream structures that benefit naturally reproducing fish stocks.

The Department of Fish and Wildlife shall develop size or scale threshold tests to determine if projects accomplishing any of these tasks should be evaluated under the process created in this section or under other project review and approval processes. A project proposal shall not be reviewed under the process created in this section if the Department determines that the scale of the project raises concerns regarding public health and safety; and

(B) A fish habitat enhancement project must be approved in one of the following ways:

- By the Department of Fish and Wildlife pursuant to Chapter 77.95 or 77.100 RCW;
- By the sponsor of a watershed restoration plan as provided in Chapter 89.08 RCW;
- By the Department as a Department of Fish and Wildlife
 sponsored fish habitat enhancement or restoration project;
- Through the review and approval process for the jobs for the environment program;
- Through the review and approval process for conservation district sponsored projects, where the project complies with design standards established by the Conservation Commission through interagency agreement with the United States Fish and Wildlife Service and the Natural Resources Conservation Service;

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- Through a formal grant program established by the Legislature or the Department of Fish and Wildlife for fish habitat enhancement or restoration; and
- Through other formal review and approval processes established by the Legislature.

ii. Fish habitat enhancement projects meeting the criteria of subsection (A)(16)(c)(i) of this section are expected to result in beneficial impacts to the environment. Decisions pertaining to fish habitat enhancement projects meeting the criteria of subsection (A)(16)(c)(i) of this section and being reviewed and approved according to the provisions of this section are not subject to the requirements of RCW 43.21C.030(2)(c).

(A) A hydraulic project approval permit is required for projects that meet the criteria of subsection (A)(16)(c)(i) of this section and are being reviewed and approved under this section. An applicant shall use a joint aquatic resource permit application form developed by the Office of Regulatory Assistance to apply for approval under this chapter. On the same day, the applicant shall provide copies of the completed application form to the Department of Fish and Wildlife and to each appropriate local government. Local governments shall accept the application as notice of the proposed project. The Department of Fish and Wildlife shall provide a 15-day comment period during which it will receive comments regarding environmental impacts. Within 45 days, the Department shall either issue a permit, with or without conditions, deny approval, or make a determination that the review and approval process created by this section is not appropriate for the proposed project. The Department shall base this determination on identification during the comment period of adverse impacts that cannot be mitigated by the conditioning of a permit. If the Department determines that the review and approval process created by this section is not appropriate for the proposed project, the Department shall notify the applicant and the appropriate local governments of its determination. The applicant

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may reapply for approval of the project under other review and approval processes.

(B) Any person aggrieved by the approval, denial, conditioning, or modification of a permit under this section may formally appeal the decision to the hydraulic appeals board pursuant to the provisions of this chapter.

iii. No local government may require permits or charge fees for fish
 habitat enhancement projects that meet the criteria of subsection
 (A)(16)(c)(i) of this section and that are reviewed and approved according to the provisions of this section.

17. Before issuing a shoreline exemption, the Director shall review the Master Program to determine if the proposed development requires a shoreline variance and/or a shoreline conditional use permit.

20.220.040 Shoreline variance.

The purpose of a variance is to grant relief to specific bulk<u>-or</u> dimensional<u>, or performance</u> requirements set forth in the Master Program where there are extraordinary or unique circumstances relating to the <u>physical character or configuration of</u> property such that the strict implementation of <u>this program the Master Program</u> would impose unnecessary hardships on the applicant or <u>diminishthwart</u> the policies set forth in RCW 90.58.020, as amended from time to time.

A. The Director is authorized to approve a shoreline variance from the performance standards of this Master Program only when all of the criteria enumerated in WAC 173-27-170 are met.

B. A shoreline variance should be granted in circumstances where denial of the permit would thwart the policies enumerated in RCW 90.58.020.

C. In all instances, the applicant must demonstrate that extraordinary circumstances exist and the public interest will not suffer substantial detrimental effect.

<u>A</u>D. The applicant for a shoreline variance must demonstrate that the variance meets the criteria in WAC 173-27-170, as amended from time to time. In all instances, the applicant must demonstrate that extraordinary circumstances exist and the public interest shall suffer no substantial detrimental effect.

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E. Proposals that require a critical area reasonable use permit pursuant to SMC 20.30.336 shall also require a shoreline variance.

B. A shoreline variance should be granted in circumstances where denial of the permit would thwart the policies enumerated in RCW 90.58.020, as amended from time to time.

C. The Director is authorized to approve a shoreline variance from the bulk, dimensional, or performance standards of this Master Program only when all of the criteria enumerated in WAC 173-27-170 are met, as amended from time to time.

<u>D</u>F. Prior to approval of any shoreline variance, the Director shall consider the cumulative environmental impacts of previous, existing, and possible future requests for like actions in the area. The total effects of approved shoreline variances should remain consistent with the policies of RCW 90.58.020, as amended from time to time, and this Master Program and shall not produce significant adverse effects to the shoreline ecological functions, processes, or other users.

 \underline{EG} . Before making a determination to approve a shoreline variance, the Director shall consider issues related to the conservation of valuable natural resources and the protection of views from public lands.

<u>FH</u>. Shoreline variance requests based on the applicant's/proponent's desire to enhance the view from the subject development may be granted where there are no likely detrimental effects to existing or future users, views from public lands, critical areas, other features or shoreline ecological functions and/or processes, and where reasonable alternatives of equal or greater consistency with this program are not available.

<u>GI</u>. A shoreline variance shall not be granted:

<u>1. W</u>when it would allow a greater height or lesser shoreline setback than what is typical for the area immediately surrounding the development site.

2. When it seeks relief from the use regulations of the Master Program.

<u>H</u>J. A variance issued per SMC 20.30.310 shall not be construed to mean approval of a shoreline variance from Shoreline-Master Program use regulations.

<u>IK</u>. An issued shoreline variance does not provide relief from the variance requirements under SMC 20.30.310.

20.220.050 Shoreline conditional use permit.

The purpose of a shoreline conditional use permit is to allow greater flexibility in the application of the use regulations of the Master Program in a manner consistent with the policies of RCW 90.58.020, as amended from time to time.

A. The applicant for a shoreline conditional use permit must demonstrate that all of the criteria in WAC 173-27-160 are met, as amended from time to time. The Director is authorized to issue shoreline conditional use permits only when all the criteria enumerated in WAC 173-27-160 are met.

B. Shoreline conditional use permits should be granted in a circumstance where denial of the permit would result in a conflict with the policies enumerated in RCW 90.58.020, as amended from time to time.

C. <u>The Director is authorized to issue shoreline conditional use permits only when all the</u> <u>criteria enumerated in WAC 173-27-160 are met, as amended from time to time.</u>

1. In granting conditional use permits, consideration shall be given to the cumulative impact of additional requires for like actions in the area.

2. In authorizing a shoreline conditional use, special conditions may be attached to the permit by the Director or by the Department of Ecology to minimize the effects of the proposed use. Uses that are specifically prohibited by the Master Program may not be authorized with the approval of a shoreline conditional use permit.

D. <u>A conditional use permit shall not be issued when uses are specifically prohibited by this</u> <u>Master Program. Non-classified uses or uses not set forth in the Master Program may be</u> <u>authorized as a conditional use provided the applicant can demonstrate consistency with the</u> <u>requirements of this chapter.</u>Proposals that require a critical area reasonable use permit pursuant to SMC 20.30.336 shall also require a shoreline variance.

Subchapter 2. SMP Permit Procedures

20.220.060 General.

A. Permits required under this chapter shall be processed consistent with the provisions of Chapter 20.30 SMC and the criteria in this subchapter.

B. No permit shall be approved unless the proposed development is consistent with the provisions of this Master Program, the <u>SMAShoreline Management Act of 1971</u>, and the rules and regulations adopted by the Department of Ecology.

C. Applications for shoreline permits shall also demonstrate compliance with the provisions of this subchapter.

20.220.070 Application review.

A. Applications for shoreline permits shall comply with the submittal requirements developed pursuant to SMC 20.30.100 and WAC 173-27-180, as amended from time to time, and shall provide all information the Director determines necessary for an application to be complete.

B. **Burden of Proof.** It is the applicant's responsibility to provide proof that the proposed development is consistent with the permit criteria requirements.

C. **Approval.** The Director may approve, or approve with conditions, any application that complies with criteria imposed by th<u>ise</u> Master Program and the <u>SMA</u>Shoreline Management Act.

D. **Conditions.** The Director may attach to a permit any suitable and reasonable terms or conditions necessary to ensure the purpose and objectives of this Master Program and the <u>SMAShoreline Management Act</u>.

E. **Denial.** The Director may deny any application that does not comply with criteria imposed by thise Master Program or the <u>SMAShoreline Management Act</u>.

F. **Financial Guarantees.** The Director may require a financial guarantee to assure full compliance with the terms and conditions of any substantial development permit, shoreline variance or shoreline conditional use. The guarantee shall be in an amount to reasonably assure the City that permitted improvements will be completed within the time stipulated.

20.220.080 Permit process.

A. **Application Submittal.** Complete applications for a substantial development permit, shoreline variance, and a shoreline conditional use permit are Type B actions. The applications will be processed pursuant to the procedures identified in this subchapter and SMC 20.30.010 through 20.30.270 and Table 20.30.050. <u>Unless the SMA or other applicable law provides otherwise, the target time for local review is as set forth in Chapter 20.30 SMC.</u>

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B. **Decision.** The Director shall provide notice of final decision per SMC 20.30.150. Pursuant to RCW 90.58.140(6), <u>as amended from time to time</u>, the Director shall send the final decision, including findings and conclusions, to the following State agencies:

- 1. Department of Ecology.
- 2. Attorney General.

C. Department of Ecology Review of Permits.

1. After the Director has approved a shoreline variance or shoreline conditional use permit, the Director shall file the permit with the Department of Ecology for its approval, approval with conditions, or denial.

2. When a substantial development permit, a shoreline variance, or a shoreline conditional use permit are required for a development, the local government's ruling on the permit shall be filed simultaneously with Ecology.

<u>2</u>3. The Department of Ecology will issue its decision on a shoreline variance or shoreline conditional use permit within 30 days of filing.

<u>3</u>4. Upon receipt of the Department of Ecology's decision, the Director shall notify those interested parties having requested notification of such decision.

D. Local Permit Filing Procedures. After all local permit administrative appeals are complete and the permit documents are amended to incorporate any resulting changes, the City shall mail the permit using return receipt requested mail to the Department of Ecology regional office and the Office of the Attorney General. Projects that require both Conditional Use Permits and or Variances shall be mailed simultaneously with any Substantial Development Permits for the project.

1. The permit and documentation of the final local decision will be mailed together with the complete permit application; a findings and conclusions letter; the final decision of the City, a permit data sheet required by WAC 173-27-190, as amended from time to time; and applicable SEPA documents.

 Consistent with RCW 90.58.140(6), as amended from time to time, the State Shorelines Hearings Board twenty-one-day appeal period starts with the date of filing, which is defined below: a. For projects that only require a Substantial Development Permit (SDP): the date that the Department of Ecology receives the City decision.

b. For a Conditional Use Permit (CUP) or Variance (VAR): the date that the Department of Ecology's decision on the CUP or Variance is transmitted to the applicant and the City.

c. For SDPs simultaneously mailed with a CUP or VAR to the Department of Ecology: the date that the Department of Ecology's decision on the CUP or Variance is transmitted to the applicant and the City.

20.220.090 Local appeals.

There are no administrative appeals for shoreline permit decisions made by the Director.

20.220.110 Appeals to State Shoreline Hearings Board.

A. Appeals of the final decision of the City with regard to shoreline management shall be governed by the provisions of RCW 90.58.180, as amended from time to time.

B. Appeals to the Shoreline Hearings Board of a decision on a shoreline substantial development permit, shoreline variance or shoreline conditional use permit may be filed by the applicant/proponent or any aggrieved party pursuant to RCW 90.58.180.

C. The effective date of the City's decision shall be the date of filing with the Department of Ecology as defined in RCW 90.58.140.

20.220.120 Initiation of development.

A. Development pursuant to a shoreline substantial development permit shall not be authorized until 21 days after the "date of filing" of the Director's decision with the Department of Ecology;

B. Development for which a shoreline variance or shoreline conditional use is required shall not begin and shall not be authorized until 21 days after the "date of filing" of the Department of Ecology's decision with the Director; or

C. All appeal proceedings before the Washington-State Shoreline Hearings Board have terminated.

20.220.130 Expiration of permits.

The City of Shoreline-may specify the length of time a shoreline permit will be effective based on the specific requirements of the development proposal. If a permit does not specify an expiration date, the following requirements apply, consistent with WAC 173-14-060WAC 173-27-090, as amended from time to time:

A. **Time Limit for Substantial Progress.** Construction<u>activities</u>, or substantial progress toward completion, <u>or where no construction activities are involved</u>, the use or activity must begin within two (2) years after approval the effective date of the permits.

B. **Extension for Substantial Progress.** If a request for extension has been filed before the expiration date and notice of the proposed extension is The City of Shoreline may at its discretion, with prior noticegiven to parties of record and the Department of Ecology, the City may authorize extend the two-year time period for the substantial progress for a reasonable time up to one yeara single extension of no more than one (1) year based on reasonable factors, including the inability to expeditiously obtain other governmental permits that are required prior to the commencement of construction.

C. **Five-Year Permit Authorization.** If construction has not been completed within five years of approval the effective date of the permit by the City of Shoreline and a request for extension has been filed before the expiration date, the City may authorize a single extension of no more than one (1) year based on reasonable factors. the City will review the permit and, upon showing of good cause, either extend the permit for one year, or terminate the permit.

D. Only one extension of up to one (1) year may be authorized.

<u>E.</u> Prior to the City authorizing any permit extensions, it shall notify any parties of record and the Department of Ecology. Note: Only one extension is permitted.

20.220.140 Revision to permits.

A. A permit revision is required whenever the applicant proposes substantive changes to the design, terms or conditions of a project from those which are approved in the permit. Changes are substantive if they materially alter the project in a manner that relates to its conformance to the terms and conditions of the permit, this <u>Master P</u>program or the <u>ActSMA</u>. Changes that are not substantive in effect do not require a permit revision.

B. An application for a revision to a shoreline permit shall be submitted to the Director. The application shall include detailed plans and text describing the proposed changes. The City shall

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review and process the request in accordance with the requirements of WAC 173-27-100, as amended from time to time.

20.220.150 Nonconforming use and development.

A. Nonconforming Structures.

1. Structures that were legally established and are used for a conforming use, but which are nonconforming with regard to setbacks, buffers or yards, area, bulk, height, or density, may be maintained and repaired, and may be enlarged or expanded; provided, that said enlargement does not increase the extent of nonconformity by further encroaching upon or extending into areas where construction or use would not be allowed for new development or uses. Such normal appurtenances are by definition located landward of the <u>OHWMordinary high water mark</u>.

2. A structure for which a shoreline variance has been issued shall be considered a legal nonconforming structure, and the requirements of this section shall apply as they apply to preexisting nonconformities.

3. A structure that is being or has been utilized for a nonconforming use may be used for a different nonconforming use only upon the approval of a shoreline conditional use permit. A shoreline conditional use permit may be approved only upon a finding that:

- a. No reasonable alternative conforming use is practical;
- b. The proposed use will be at least as consistent with the policies and provisions of the <u>Act-SMA</u> and <u>this</u> Master Program, and as compatible with the uses in the area, as the preexisting use; and

c. Conditions may be attached to the permit as are deemed necessary to assure compliance with the above findings, the requirements of the Master
 Program and the <u>SMAShoreline Management Act</u>, and to ensure that the use will not become a nuisance or a hazard.

4. Any structure nonconforming as to height or setback standards that becomes damaged may be repaired or reconstructed; provided, that:

a. The extent of the previously existing nonconformance is not increased; and

b. The building permit application for repair or reconstruction is submitted within12 months of the occurrence of damage or destruction.

B. Nonconforming Uses.

1. Uses that were legally established and are nonconforming with regard to the use regulations of the Master Program may continue as legal nonconforming uses. Such uses shall not be enlarged or expanded, without an approved conditional use permit, except that nonconforming single-family residences that are located landward of the <u>OHWM</u>erdinary high water mark may be enlarged or expanded in conformance with applicable bulk and dimensional standards by the addition of space to the main structure or by the addition of normal appurtenances as defined in WAC 173-27-040(2)(g). as amended from time to time.

2. A use which is listed as a conditional use but existed prior to adoption of the Master Program or any relevant amendment, and for which a conditional use permit has not been obtained, shall be considered a nonconforming use.

3. A use which is listed as a conditional use in <u>SMC</u> Table 20.230.081 but existed prior to the applicability of the Master Program to the site, and for which a shoreline conditional use permit has not been obtained, shall be considered a nonconforming use.

4. If a nonconforming use is abandoned for 12 consecutive months, or for 12 months during any two-year period, the nonconforming rights shall expire and any subsequent use shall be made conforming. A use authorized pursuant to subsection (B)(1) of this section shall be considered a conforming use for purposes of this section.

C. **Nonconforming Lots.** An undeveloped lot, tract, parcel, site, or division of land located landward of the <u>OHWM</u>ordinary high water mark which was established in accordance with Chapter 20.30 SMC, Subchapter 7, and State subdivision requirements prior to the effective date of the Act<u>SMA</u> or the applicable Master Program that does not conform to the present lot size standards may be developed if permitted by other land use regulations of the local government<u>the City</u>, as long as such development conforms to all other requirements of th<u>ise applicable</u> Master Program and the Act<u>SMA</u>.

20.220.160 Enforcement.

A. The Director is authorized to enforce the provisions of this chapter and any rules and regulations promulgated hereunder pursuant to the enforcement and penalty provisions of WAC 173-27, as amended from time to time.

B. This program will be enforced by the means and procedures set forth in Chapter 20.30
 SMC, Subchapter 9.

Chapter 20.230

SMP Shoreline Policies and Regulations

Sections: Subchapter 1. General Policies and Regulations 20.230.010 General. 20.230.020 Environmental. 20.230.030 Environmentally sensitive areas within the shoreline. 20.230.040 Public access. Subchapter 2. Specific Shoreline Use Policies and Regulations 20.230.070 General. 20.230.080 Shoreline environmental designations. – Map included in Appendix D, page 205. 20.230.081 Permitted Uses and Modifications. 20.230.082 Native Conservation Area and Building Setbacks. 20.230.090 Boating facilities. 20.230.095 Breakwaters, jetties, groins, and weirs. 20.230.100 Nonresidential development. 20.230.110 In-stream structures. 20.230.115 Aquaculture. 20.230.120 Parking areas. 20.230.130 Recreational facilities. 20.230.140 Residential development. Subchapter 3. Shoreline Modification Policies and Regulations 20.230.150 General. 20.230.160 Dredging and disposal of dredging spoils. 20.230.170 Piers and docks. 20.230.175 Pier and dock repair, replacement, or expansion. 20.230.180 Bulkheads. 20.230.190 Revetment. 20.230.200 Land disturbing activities. 20.230.210 Landfilling. 20.230.230 Signs. 20.230.240 Stormwater management facilities.

20.230.250 Transportation.

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20.230.260 Unclassified uses and activities.20.230.270 Utilities.

Subchapter 1. General Policies and Regulations

20.230.010 General.

The general policies and regulations apply to all uses and activities that may occur within the City's shoreline jurisdiction regardless of th<u>ise Shoreline</u> Master Program's environment designation. These policies and regulations provide the overall framework for the management of the shoreline. Use these general regulations in conjunction with Subchapter 2 of this chapter, Specific Shoreline Use Policies and Regulations.

20.230.020 Environmental.

The Shoreline Management Act (SMA) is concerned with the environmental impacts that development, use, or activity may have on the fragile shorelines of the State. Development and certain uses or activities within the regulated shoreline may degrade the shoreline and its waters, and may damage or inhibit important species and their habitat.

A. General Environmental Policies and Regulations.

Policies

1. The adverse impacts of shoreline developments and activities on the natural environment, critical areas and habitats for proposed, threatened, and endangered species should be minimized during all phases of development (e.g., design, construction, operation, and management).

2. Shoreline developments that protect and/or contribute to the long-term restoration of habitat for proposed, threatened, and endangered species are consistent with the fundamental goals of this Master Program. Shoreline developments that propose to enhance critical areas, other natural characteristics, resources of the shoreline, and/or provide public access and recreational opportunities to the shoreline are also consistent with the fundamental goals of this Master Program, and should be encouraged.

Regulations

1. All shoreline development and activity shall be located, designed, constructed, and managed in a manner that mitigates adverse impacts to the environment. When applying mitigation to avoid or minimize significant adverse effects and significant ecological impacts, the

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City will apply the following sequence of steps in order of priority, with subsection (A)(1)(a) of this section being top priority:

a. Avoiding the impact altogether by not taking a certain action or parts of an action;

b. Minimizing impacts by limiting the degree or magnitude of the action and its implementation by using appropriate technology or by taking affirmative steps to avoid or reduce impacts;

c. Rectifying the impact by repairing, rehabilitating, or restoring the affected environment;

d. Reducing or eliminating the impact over time by preservation and maintenance operations;

e. Compensating for the impact by replacing, enhancing or providing substitute resources or environments; or

f. Monitoring the impact and the compensation projects (from subsection (A)(1)(e) of this section) and taking appropriate corrective measures.

Efforts to avoid and minimize impacts must be documented in a manner acceptable to the Director prior to the approval of mitigation and/or compensation actions.

2. All shoreline development and activity shall be located, designed, constructed, and managed in a manner that assures no net loss of shoreline ecological function.

3. All shoreline development shall be located, designed, constructed, and managed to protect the functions and values of critical areas consistent with the Shoreline Critical Area Regulations (Appendix A). the SMP Critical Areas Regulations contained in Chapter 20.240 SMC.

4. All shoreline development shall be located and designed to avoid or minimize the need for shoreline stabilization measures and flood protection works, such as bulkheads, revetments, dikes, levees, or substantial site regrading and dredging. Where measures and works are demonstrated to be necessary, biostabilization techniques shall be the preferred design option unless demonstrated to be infeasible, or when other alternatives will have less impact on the shoreline environment.

5. All shoreline development and activity shall be located, designed, constructed, operated, and managed to minimize interference with beneficial natural shoreline processes, such as water circulation, sand and gravel movement, erosion, and accretion to ensure no net loss of shoreline ecological function.

6. In approving shoreline developments, the Director shall ensure that the development will maintain, enhance, or restore desirable shoreline features, as well as ensure no net loss of ecological functions. To this end, the Director may adjust and/or prescribe project dimensions, location of project components on the site, intensity of use, screening, and mitigation as deemed appropriate. Mitigation shall be required of developments that would otherwise result in net loss of ecological functions.

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7. In approving shoreline developments, the Director shall consider short- and long-term adverse environmental impacts. In addition, the Director shall consider the cumulative adverse impacts of the development, particularly the precedence effect of allowing one development, which could generate or attract additional development. Identified significant short-term, long-term, and cumulative adverse environmental impacts lacking appropriate mitigation shall be sufficient reason for permit denial.

8. As a condition of approval, the Director may require periodic monitoring for up to 10 years from the date of completed development to ensure the success of required mitigation. Mitigation plans shall include at a minimum:

a. Inventory of the existing shoreline environment including the physical, chemical, and biological elements, and provide an assessment of each element's condition;

b. A discussion of the project's impacts and their effect on the ecological functions necessary to support existing shoreline resources;

c. A discussion of any Federal, State, or local special management recommendations that have been developed for wetlands, species, or habitats located on the site;

d. An assessment of habitat recommendations proposed by resource agencies and their applicability to the proposal;

e. A discussion of measures to preserve existing habitats and opportunities to restore habitats that were degraded prior to the proposed land use activity. Mitigation plans shall include at a minimum: planting and soil specifications (in the case of mitigation planting projects), success standards, and contingency plans;

f. A discussion of proposed measures that mitigate the impacts of the project and establish success criteria;

g. An evaluation of the anticipated effectiveness of the proposed mitigation measures;

h. A discussion of proposed management practices that will protect fish and wildlife habitat after the project site has been fully developed, including proposed monitoring and maintenance programs;

i. A monitoring plan, including scientific procedures to be used to establish success or failure of the project, sampling points, success criteria, and a monitoring schedule; and

j. Any additional information necessary to determine the impacts of a proposal and appropriate mitigation.

9. Shoreline development shall not be permitted if it <u>substantially degrades</u>significantly impacts the natural character of the shoreline, natural resources, or public recreational use of

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the shoreline. "Significant" is defined in the State Environmental Policy Act (SEPA) Rules in WAC 197-11-794, as amended from time to time.

10. Where provisions of this Master Program conflict with each other, or with other laws, ordinances or programs, the most restrictive provisions shall apply.

B. Earth.

Policies

1. Beaches are valued for recreation and may provide fish spawning substrate. Development that could disrupt these shoreforms may be allowed:

a. When such disruption would not reduce shoreline ecological function;

b. Where there is a demonstrated public benefit; and/or

c. Where the <u>Washington State</u> Department of Fish and Wildlife (<u>WDFW</u>) determines there would be no significant impact to the fisheries resource.

Regulations

1. Developments that alter the shoreline topography may be approved if:

a. Flood events will not increase in frequency or severity resulting from the alteration; and/or

b. The alteration would not impact natural habitat forming processes and would not reduce ecological functions. Mitigation is required for projects that would reduce ecological functions to ensure no net loss of function.

2. The applicant shall incorporate all known, available, and reasonable methods of prevention, control, and treatment measures into stormwater pollution prevention during and post construction.

3. All debris and other waste materials from construction shall be disposed of in such a manner as to prevent their entry into the water body.

4. All disposal sites for soils and materials resulting from the shoreline development shall be identified and approved before permit issuance.

C. Water.

Policies

1. Shoreline development and activities shall result in no net loss of ecological functions.

2. Development and regulated activities shall minimize impacts to hydrogeologic processes, surface water drainage, and ground water recharge.

3. Measures shall be incorporated into the development, use, or activity to protect water bodies and wetlands from all sources of pollution including, but not limited to, sediment and silt, petrochemicals, and wastes and dredge spoils.

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4. Adequate provisions to prevent water runoff from contaminating surface and ground water shall be included in development design. The Director may specify the method of surface water control and maintenance programs. Surface water control must comply with the adopted stormwater manual.

5. All measures for the treatment of surface water runoff for the purpose of maintaining and/or enhancing water quality shall be conducted on site. Off-site treatment facilities may be considered if on-site treatment is not feasible.

6. Point and nonpoint source pollution should be managed on a basin-wide basis to protect water quality and support the efforts of shoreline property owners to maintain shoreline ecological functions.

Regulations

1. Pesticides, herbicides and fertilizers that have been identified by State or Federal agencies as harmful to humans, wildlife, or fish shall not be used on City-owned property within the shoreline jurisdiction or for development or uses approved under a substantial development permit, shoreline conditional use permit or shoreline variance, except as allowed by the Director for the following circumstances:

a. When use of pesticides, herbicides and fertilizers is consistent with the best management practices (BMPs) for the project or use proposed;

b. When the Director determines that an emergency situation exists where there is a serious threat to public safety, health or the environment and that an otherwise prohibited application must be used as a last resort.

Where chemical fertilizer, herbicide, or pesticide use is necessary to protect existing natural vegetation or establish new vegetation as part of an erosion control or mitigation plan, the use of time release fertilizer and herbicides shall be preferred over liquid or concentrate application, except as used in targeted hand applications.

2. The release of oil, chemical, or hazardous materials onto or into the water is prohibited. Equipment for the transportation, storage, handling, or application of such materials shall be maintained in a safe and leakproof condition. If there is evidence of leakage, the further use of such equipment shall be suspended until the deficiency has been satisfactorily corrected. During construction, vehicle refueling and vehicle maintenance shall occur outside of regulated shoreline areas.

3. The bulk storage of oil, fuel, chemical, or hazardous materials, on either a temporary or a permanent basis, is prohibited, except for uses allowed by the zoning classification. For the purpose of this section, heating oil, small boat fuel, yard maintenance, equipment fuel, propane,

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sewage sumps, and similar items common to single-family residential uses are not included in this definition.

D. Plants and Animals.

Policies

1. In general, this Master Program shall strive to protect and restore anadromous fish resources in the Puget Sound and its tributaries within the City-of Shoreline.

2. Shoreline development, uses, and activities shall be:

a. Located and conducted in a manner that minimizes impacts to existing ecological values and natural resources of the area, conserves properly functioning conditions, and ensures no net loss of shoreline ecological functions;

b. Scheduled to protect biological productivity and to minimize interference with fish resources including anadromous fish migration, spawning, and rearing activity;

c. Designed to avoid the removal of trees in shorelines wherever practicable, and to minimize the removal of other woody vegetation. Where riparian vegetation is removed, measures to mitigate the loss of vegetation shall be implemented to ensure no net loss; and

d. Designed to minimize impacts to the natural character of the shoreline as much as possible. Regulations

1. Mitigation shall be required of the applicant for the loss of fish and wildlife resources, and natural systems, including riparian vegetation, wetlands, and sensitiveother environmentally critical areas. The mitigation required shall be commensurate to the value and type of resource or system impacted by development and activity in the shoreline. On-site compensatory mitigation shall be the preferred mitigation option, except where off-site mitigation can be demonstrated to be more beneficial to fish and wildlife resources, and natural systems, including riparian vegetation, wetlands, and <u>criticalsensitive</u> areas. If on-site compensatory mitigation is not feasible or if off-site mitigation is demonstrated to be more beneficial to the shoreline environment, the applicant shall provide funding for a publicly sponsored restoration or enhancement program in the City-of Shoreline.

2. Enhancement, restoration, and/or creation of coniferous riparian forest or forested riparian wetland shall be the preferred mitigation for impacts to riparian vegetation and wetlands when avoidance is not possible. Preference will be based on site-specific recommendation of qualified professional. Alterations to fish and wildlife habitat conservation areas should be avoided. If they cannot be avoided, mitigation is required, and a habitat management plan shall be prepared as required in SMC <u>20.240.274</u>20.80.290 and 20.80.300.

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3. Habitat management plans shall be forwarded by the applicant to the appropriate State and/or Federal resource agencies for review and comment. The City will provide the applicant with a list of addressees for this purpose.

4. Based on the habitat management plan, and comments from other agencies, the Director may require mitigating measures to reduce the impacts of the proposal on the <u>fish and</u> wildlife habitat conservation areas. Mitigating measures may include, but are not limited to:

a. Increased or enhanced buffers;

b. Setbacks for permanent and temporary structures;

c. Reduced project scope;

d. Limitations on construction hours;

e. Limitations on hours of operation; and/or

f. Relocation of access.

5. Mitigation activities shall be monitored to determine effectiveness of the habitat mitigation plan. Monitoring shall be accomplished by a third party, subject to the approval by the Director, and shall have the concurrence of the U.S. Fish and Wildlife Service, NOAA Fisheries, <u>WDFWWashington Department of Fish and Wildlife</u>, and, where applicable, the Washington Department of Ecology. Monitoring shall occur for up to 10 years following implementation of the plan. Results of the monitoring shall be publicly available and reported to the U.S. Fish and Wildlife Service and National Marine Fisheries Service. Reports shall contain the following information:

a. A list and map of parcels subject to this requirement;

b. The implementation status of the habitat management plans;

c. Status of the improvements (e.g., updates if success standards are being met, what types of remedial actions have been implemented); and

d. Recommendations for corrective measures if necessary.

6. If proposed mitigation is found to be inadequate, or if adequate mitigation is determined to be impossible, the application shall be denied.

7. Timing of in-water construction, development, or activity shall be determined by <u>WDFWWashington Department of Fish and Wildlife</u>.

8. Properties that are located in the urban conservancy shoreline environment designation shall retain trees that are 12 inches or more in diameter. Trees determined by a certified arborist to be hazardous or diseased may be removed upon approval by the City. If healthy or nonhazardous trees are removed, each removed tree must be replaced with at least three six-

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foot-tall trees, one 18-foot-tall tree, or one 12-foot plus one six-foot-tall tree. Trees must be of the same species removed, or equivalent native tree species.

E. Noise.

Policy

1. Noise levels shall not interfere with the quiet enjoyment of the shoreline.

Regulations

1. Any noise emanating from a shoreline use or activity shall be muffled so as to not interfere with the designated use of adjoining properties. This determination shall take into consideration ambient noise levels, intermittent beat, frequency, and shrillness.

2. Ambient noise levels shall be a factor in evaluating a shoreline permit application.

Shoreline developments that would increase noise levels to the extent that the designated use of the shoreline would be disrupted shall be prohibited. <u>Noise shall be evaluated pursuant to</u> <u>Chapter 9.05 SMC Noise Control.</u> Specific maximum environment noise levels can be found in WAC 173-60-040.

F. Public Health.

Policy

1. All development within the regulated shoreline shall be located, constructed, and operated so as not to be a hazard to public health and safety.

Regulations

1. Development shall be designed to conform to the codes and ordinances adopted by the City.

G. Land Use.

Policy

1. The size of the shoreline development and the intensity of the use shall be compatible with the surrounding environment and uses. The City-of Shoreline may prescribe operation intensity, landscaping, and screening standards to ensure compatibility with the character and features of the surrounding area.

2. Shoreline developments shall minimize land use conflicts to properties adjacent to, upstream, and downstream of the proposed site.

Regulations

1. In reviewing permit applications, the City shall consider current and potential public use of the shoreline, total water surface reduction, and restriction to navigation.

2. Development within the designated shoreline shall comply with the development and uses standards for the underlying zoning <u>district</u>.

H. Aesthetics.

Policy

1. Development should be designed to minimize the negative aesthetic impact structures have on the shoreline by avoiding placement of service areas, parking lots, and/or view- blocking structures adjacent to the shoreline.

Regulations

1. Development shall be designed to comply with the code standards required in the underlying zon<u>ing districte</u>.

2. If the zoning and use require landscaping, or if planting is required for mitigation by the Director, the property owner shall provide a landscape plan that provides suitable screening that does not block public views.

3. Development on or over the water shall be constructed as far landward as possible to avoid interference with views from surrounding properties and adjoining waters.

4. Development on the water shall be constructed of nonreflective materials that are compatible in terms of color and texture with the surrounding area.

5. Lighting shall be properly directed and shielded to avoid impacts to fish and off-site glare.

I. Historical/Cultural.

Policy

1. Development should strive to preserve historic or culturally significant resources.

Regulations

1. Developments that propose to alter historic or culturally significant resources identified by the National Trust for Historic Preservation, the <u>Washington</u> State Department of Archaeology and Historic Preservation, the King County Historic Preservation Program, or the City of Shoreline Historic Resource Inventory, or resources that could potentially be designated as historically or culturally significant, shall follow the applicable Federal, State, County, or local review process(es).

2. All shoreline permits issued by the City require immediate work stoppage and City notification when any item of archaeological interest is uncovered during excavation. The applicant or project owner shall notify the <u>Washington</u> State Department of Archaeology and Historic Preservation-Office, affected Indian tribes, and the City.

3. Where archaeological or historic sites have been identified, and it is determined that public access to the site will not damage or reduce the cultural value of the site, access may be required consistent with SMC 20.230.040.

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20.230.030 Environmentally sensitive areas within the shoreline.

A. Critical Areas.

General Policy

1. Preserve and protect unique, rare, and fragile natural and manmade features and wildlife habitats.

2. Enhance the diversity of aquatic life, wildlife, and habitat within the shoreline.

3. Conserve and maintain designated open spaces for ecological, educational, and recreational purposes.

4. Recognize that the interest and concern of the public are essential to the improvement of the environment, and sponsor and support public information programs.

5. The level of public access should be appropriate to the degree of uniqueness or fragility of the geological and biological characteristics of the shoreline (e.g., wetlands, spawning areas).

6. Discourage intensive development of shoreline areas that are identified as hazardous or environmentally sensitive.

General Regulations

1. Critical areas in shoreline jurisdiction are regulated by the critical areas regulations (which were adopted on February 27, 2006, by Ordinance No. 398) codified under Chapter 20.80 SMC, which is herein incorporated into this SMP with the exceptions of the following:

a. SMC 20.80.030.

b. SMC 20.80.040.

c. Chapter 20.80 SMC, Subchapter 4, Wetlands.

d. SMC 20.80.310.

- e. SMC 20.80.320.
- f. SMC 20.80.330.
- g. SMC 20.80.340.
- h. SMC 20.80.350.

2. The provisions of Chapter 20.80 SMC, Critical Areas, must be factored into decisions regarding development within the regulated shoreline and associated critical areas.

3. All shoreline uses and activities shall be located, designed, constructed, and managed to protect or at least not adversely affect those natural features which are valuable, fragile, or unique in the region. They should also facilitate the appropriate intensity of human use of such features, including but not limited to:

a. Wetlands, including but not limited to marshes, bogs, and swamps;

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b. Fish and wildlife habitats, including streams and wetlands, nesting areas and migratory routes, spawning areas, and the presence of proposed or listed species;

c. Natural or manmade vistas or features;

d. Flood hazard areas; and/or

e. Geologically hazardous areas, including erosion, landslide, and seismic hazard areas.

4. The standards of the City of Shoreline's critical area regulations shall apply within the shoreline jurisdiction, where critical areas are present. If there are any conflicts or unclear distinctions between the Master Program and the City's critical areas regulations, the most restrictive requirements apply as determined by the City.

B. **Floodplain Management.** The following policies and regulations must be factored into decisions regarding all flood management planning and development within that portion of the 100-year floodplain that falls within Shoreline's shoreline jurisdiction (within 200 feet of OHWM). Floodplain management involves actions taken with the primary purpose of preventing or mitigating damage due to flooding. Floodplain management can involve planning and zoning to control development, either to reduce risks to human life and property, or to prevent development from contributing to the severity of flooding. Floodplain management can also address the design of developments to reduce flood damage and the construction of flood controls, such as dikes, dams, engineered floodways, and bioengineering.

 Flood management planning should be undertaken in a coordinated manner among affected property owners and public agencies and should consider the entire coastal system. This planning should consider off-site impacts such as erosion, accretion, and/or flood damage that might occur if shore protection structures are constructed.

2. Nonstructural control solutions are preferred over structural flood control devices, and should be used wherever possible when control devices are needed. Nonstructural controls include such actions as prohibiting or limiting development in areas that are historically flooded or limiting increases in peak flow runoff from new upland development. Structural solutions to reduce shoreline damage should be allowed only after it is demonstrated that nonstructural solutions would not be able to reduce the damage.

3. Substantial stream channel modification, realignment, and straightening should be discouraged as a means of flood protection.

4. Where possible, public access should be integrated into the design of publicly financed flood management facilities.

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5. The City supports the protection and preservation of the aquatic environment and the habitats it provides, and advocates balancing these interests with the City's intention to ensure protection of life and property from damage caused by flooding.

6. Development should avoid potential channel migration impacts.

Regulations

1. The City shall require and utilize the following information as appropriate during its review of shoreline flood management projects and programs:

a. Stream channel hydraulics and floodway characteristics, up and downstream from the project area;

b. Existing shoreline stabilization and flood protection works within the area;

c. Physical, geological, and soil characteristics of the area;

d. Biological resources and predicted impact to coastal ecology, including fish, vegetation, and animal habitat;

e. Predicted impact upon area, shore, and hydraulic processes, adjacent properties, and shoreline and water uses; and/or

f. Analysis of alternative flood protection measures, both nonstructural and structural.

2. The City shall require engineered design of flood protection works where such projects may cause interference with normal geohydraulic processes, off-site impacts, or adverse effects to shoreline resources and uses. Nonstructural methods of flood protection shall be preferred over structural solutions when the relocation of existing shoreline development is not feasible.

C. **Wetlands.** Presently, the wetlands within the City's shoreline jurisdiction have not been delineated and rated using current State standards. As the wetland category combined with the habitat functions rating defines the required buffers using current State standards, the requirements of this section apply to any new development application in the vicinity of an associated wetland. At that time, the wetland and its buffers would need to be categorized and delineated and the activities would be regulated using the following standards.

1. Policy.

a. Wetland ecosystems serve many important ecological and environmental functions, which are beneficial to the public welfare. Such functions include, but are not limited to, providing food, breeding, nesting and/or rearing habitat for fish and wildlife; recharging and discharging ground water; contributing to stream flow during low flow periods; stabilizing stream banks and shorelines; storing storm and floodwaters to reduce flooding and erosion; and improving water quality through biofiltration, adsorption, and retention and transformation of sediments, nutrients, and toxicants; as well as education and scientific research.

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b. Wetland areas should be identified according to established identification and delineation procedures and provided appropriate protection consistent with the policies and regulations of this Master Program.

c. The greatest protection should be provided to wetlands of exceptional resource value,
 which are defined as those wetlands that include rare, sensitive, or irreplaceable systems such
 as:

 Documented or potential habitat for an endangered, threatened, or sensitive species;
 ii. High quality native wetland systems as determined by the Washington State Natural Heritage Program;

iii. Significant habitat for fish or aquatic species as determined by the appropriate State resource agency;

iv. Diverse wetlands exhibiting a high mixture of wetland classes and subclasses as defined in the U.S. Fish and Wildlife Service classification system;

v. Mature forested swamp communities; and/or

vi. Sphagnum bogs or fens.

d. A wetland buffer of adequate width should be maintained between a wetland and the adjacent development to protect the functions and integrity of the wetland.

e. The width of the established buffer zone should be based upon the functions and sensitivity of the wetland, the characteristics of the existing buffer, and the potential impacts associated with the adjacent land use.

f. All activities that could potentially affect wetland ecosystems should be controlled both within the wetland and the buffer zone to prevent adverse impacts to the wetland functions.

g. No wetland alteration should be authorized unless it can be shown that the impact is both unavoidable and necessary, and that resultant impacts are offset through the deliberate restoration, creation, or enhancement of wetlands.

h. Wetland restoration, creation, and enhancement projects should result in no net loss of wetland acreage and functions. Where feasible, wetland quality should be improved.

i. Wetlands that are impacted by activities of a temporary nature should be restored immediately upon project completion.

j. In-kind replacement of functional wetland values is preferred. Where in-kind replacement is not feasible or practical due to the characteristics of the existing wetland, substitute ecological resources of equal or greater value should be provided.

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K. On-site replacement of wetlands is preferred. Where on-site replacement of a wetland is not feasible or practical due to characteristics of the existing location, replacement should occur within the same watershed and in as close proximity to the original wetland as possible.
 I. Where possible, wetland restoration, creation, and enhancement projects should be completed prior to wetland alteration. In all other cases, replacement should be completed prior to use or occupancy of the activity or development.

m. Applicants should develop comprehensive mitigation plans to ensure long-term success of the wetland restoration, creation, or enhancement project. Such plans should provide for sufficient monitoring and contingencies to ensure wetland persistence.

n. Applicants should demonstrate sufficient scientific expertise, supervisory capability, and financial resources to complete and monitor the mitigation project.

 Proposals for restoration, creation, or enhancement should be coordinated with appropriate resource agencies to ensure adequate design and consistency with other regulatory requirements.

p. Activities should be prevented in wetland buffer zones except where such activities have no adverse impacts on wetland ecosystem functions.

q. Wetland buffer zones should be retained in their natural condition unless revegetation is necessary to improve or restore the buffer.

r. Land use should be regulated to avoid adverse effects on wetlands and maintain the functions and values of wetlands throughout Shoreline, and review procedures should be established for development proposals in and adjacent to wetlands.

2. Regulations.

a. Identification and Delineation. Identification of wetlands and delineation of their boundaries pursuant to this chapter shall be done in accordance with the approved Federal wetland delineation manual and applicable regional supplements. All areas within the City meeting the wetland designation criteria in that procedure are hereby designated critical areas and are subject to the provisions of this chapter. Wetland delineations are valid for five years; after such date the City shall determine whether a revision or additional assessment is necessary.

b. Rating. Wetlands shall be rated according to the Washington Department of Ecology wetland rating system, as set forth in the Washington State Wetland Rating System for Western Washington (Ecology Publication #04-06-025, or as revised and Wetlands Guidance for Small Cities Western approved by Ecology), which contains the definitions and methods for determining whether the criteria below are met.

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i. **Category I.** Category I wetlands are: (1) relatively undisturbed estuarine wetlands larger than one acre; (2) wetlands that are identified by scientists of the Washington Natural Heritage Program/DNR as high quality wetlands; (3) bogs; (4) mature and old-growth forested wetlands larger than one acre; (5) wetlands in undisturbed coastal lagoons; and (6) wetlands that perform many functions well (scoring 70 points or more). These wetlands: (1) represent unique or rare wetland types; (2) are more sensitive to disturbance than most wetlands; (3) are relatively undisturbed and contain ecological attributes that are impossible to replace within a human lifetime; or (4) provide a high level of functions.

ii. Category II. Category II wetlands are: (1) estuarine wetlands smaller than one acre, or disturbed estuarine wetlands larger than one acre; (2) interdunal wetlands larger than one acre; (3) disturbed coastal lagoons or (4) wetlands with a moderately high level of functions (scoring between 51 and 69 points).

iii. Category III. Category III wetlands are: (1) wetlands with a moderate level of functions (scoring between 30 and 50 points); and (2) interdunal wetlands between 0.1 and one acre. Wetlands scoring between 30 and 50 points generally have been disturbed in some ways and are often less diverse or more isolated from other natural resources in the landscape than Category II wetlands.

iv. **Category IV.** Category IV wetlands have the lowest levels of functions (scoring fewer than 30 points) and are often heavily disturbed. These are wetlands that we should be able to replace, or in some cases to improve. However, experience has shown that replacement cannot be guaranteed in any specific case. These wetlands may provide some important functions, and should be protected to some degree.

c. **Illegal Modifications.** Wetland rating categories shall not change due to illegal modifications made by the applicant or with the applicant's knowledge.

3. Regulated Activities.

a. For any regulated activity, a critical areas report (see SMC 20.80.110) may be required to support the requested activity.

b. The following activities are regulated if they occur in a regulated wetland or its buffer:

i. The removal, excavation, grading, or dredging of soil, sand, gravel, minerals, organic matter, or material of any kind;

ii. The dumping of, discharging of, or filling with any material;

iii. The draining, flooding, or disturbing of the water level or water table;

iv. Pile driving;

v. The placing of obstructions;

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vi. The construction, reconstruction, demolition, or expansion of any structure;

vii. The destruction or alteration of wetland vegetation through clearing, harvesting, shading, intentional burning, or planting of vegetation that would alter the character of a regulated wetland;

viii. "Class IV – General Forest Practices" under the authority of the "1992 Washington State Forest Practices Act Rules and Regulations," WAC 222-12-030, or as thereafter amended; and/or

ix. Activities that result in:

(A) A significant change of water temperature;

(B) A significant change of physical or chemical characteristics of the sources of water to the wetland;

(C) A significant change in the quantity, timing, or duration of the water entering the wetland; and/or

(D) The introduction of pollutants.

c. **Subdivisions.** The subdivision and/or short subdivision of land in wetlands and associated buffers are subject to the following:

i. Land that is located wholly within a wetland or its buffer may not be subdivided; and

ii. Land that is located partially within a wetland or its buffer may be subdivided; provided, that an accessible and contiguous portion of each new lot is:

(A) Located outside of the wetland and its buffer; and

(B) Meets the minimum lot size requirements of SMC Table 20.50.020(1).

Activities Allowed in Wetlands. The activities listed below are allowed in wetlands. These activities do not require submission of a critical area report, except where such activities result in a loss of the functions and values of a wetland or wetland buffer. These activities include:
 Those activities and uses conducted pursuant to the Washington State Forest Practices Act and its rules and regulations, WAC 222-12-030, where State law specifically exempts local authority, except those developments requiring local approval for Class 4 – General Forest

Practice Permits (conversions) as defined in Chapter 76.09 RCW and Chapter 222-12 WAC.

ii. Conservation or preservation of soil, water, vegetation, fish, shellfish, and/or other wildlife that does not entail changing the structure or functions of the existing wetland.

iii. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

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iv. Drilling for utilities/utility corridors under a wetland, with entrance/exit portals located completely outside of the wetland buffer; provided, that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column will be disturbed.

v. Enhancement of a wetland through the removal of nonnative invasive plant species. Removal of invasive plant species shall be restricted to hand removal unless permits from the appropriate regulatory agencies have been obtained for approved biological or chemical treatments. All removed plant material shall be taken away from the site and disposed of appropriately. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds must be handled and disposed of according to a noxious weed control plan appropriate to that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

vi. Educational and scientific research activities.

vii. Normal and routine maintenance and repair of any existing public or private facilities within an existing right-of-way; provided, that the maintenance or repair does not expand the footprint of the facility or right-of-way.

4. Wetland Buffers.

a. **Buffer Requirements.** The standard buffer widths in Table 20.230.031 have been established in accordance with the best available science. They are based on the category of wetland and the habitat score as determined by a qualified wetland professional using the Washington State Wetland Rating System for Western Washington.

i. The use of the standard buffer widths requires the implementation of the measures in Table 20.230.032, where applicable, to minimize the impacts of the adjacent land uses.

ii. If an applicant chooses not to apply the mitigation measures in Table 20.230.032, then a 33 percent increase in the width of all buffers is required. For example, a 75-foot buffer with the mitigation measures would be a 100-foot buffer without them.

iii. The standard buffer widths assume that the buffer is vegetated with a native plant community appropriate for the ecoregion. If the existing buffer is unvegetated, sparsely vegetated, or vegetated with invasive species that do not perform needed functions, the buffer should either be planted to create the appropriate plant community or the buffer should be widened to ensure that adequate functions of the buffer are provided.

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iv. Additional buffer widths are added to the standard buffer widths. For example, a Category I wetland scoring 32 points for habitat function would require a buffer of 225 feet (75 + 150).

Wetland Category	Standard Buffer Width	Additional buffer	Additional buffer	Additional buffer
		width if wetland	width if wetland	width if wetland
		scores 21 – 25	scores 26 – 29	scores 30 – 36
		habitat points	habitat points	habitat points
Category I: Based on total	75 ft	Add 30 ft	Add 90 ft	Add 150 ft
SCORE				
Category I: Forested	75 ft	Add 30 ft	Add 90 ft	Add 150 ft
Category I: Estuarine	150 ft	NA	NA	NA
Category II: Based on score	75 ft	Add 30 ft	Add 90 ft	Add 150 ft
Category III (all)	60 ft	Add 45 ft	Add 105 ft	NA
Category IV (all)	40 ft	NA	NA	NA

Table 20.230.031 Wetland Buffer Requirements for Western Washington

 Table 20.230.032 Required measures to minimize impacts to wetlands

 (Measures are required, where applicable to a specific proposal)

Disturbance	Required Measures to Minimize Impacts
Lights	Direct lights away from wetland.
Noise	Locate activity that generates noise away from wetland.
	If warranted, enhance existing buffer with native vegetation plantings
	adjacent to noise source.
	For activities that generate relatively continuous, potentially disruptive noise,
	such as certain heavy industry or mining, establish an additional 10 ft heavily
	vegetated buffer strip immediately adjacent to the outer wetland buffer.
Toxic runoff	Route all new, untreated runoff away from wetland while ensuring wetland is
	not dewatered.
	Establish covenants limiting use of pesticides within 150 ft of wetland. Apply
	integrated pest management.
Stormwater runoff	Retrofit stormwater detention and treatment for roads and existing adjacent
	development.

(Measures are required, where applicable to a specific proposal)			
Disturbance	Required Measures to Minimize Impacts		
	Prevent channelized flow from lawns that directly enters the buffer.		
	Use Low Intensity Development techniques (per PSAT publication on LID		
	techniques).		
Change in water	Infiltrate or treat, detain, and disperse into buffer new runoff from impervious		
regime	surfaces and new lawns.		
Pets and human	Use privacy fencing OR plant dense vegetation to delineate buffer edge and		
disturbance	to discourage disturbance using vegetation appropriate for the ecoregion.		
	Place wetland and its buffer in a separate tract or protect with a conservation		
	easement.		
Dust	Use best management practices to control dust.		
Disruption of	Maintain connections to off-site areas that are undisturbed.		
corridors or	Restore corridors.		
connections			

Table 20.230.032 Required measures to minimize impacts to wetlands

v. Increased Wetland Buffer Area Width. Buffer widths shall be increased on a case-bycase basis as determined by the Administrator when a larger buffer is necessary to protect wetland functions and values. This determination shall be supported by appropriate documentation showing that it is reasonably related to protection of the functions and values of the wetland. The documentation must include, but not be limited to, the following criteria: (A) The wetland is used by a plant or animal species listed by the Federal government or the State as endangered, threatened, candidate, sensitive, monitored or documented priority species or habitats, or essential or outstanding habitat for those species or has unusual nesting or resting sites such as heron rookeries or raptor nesting trees; or

(B) The adjacent land is susceptible to severe erosion, and erosion-control measures will not effectively prevent adverse wetland impacts; or

(C) The adjacent land has minimal vegetative cover or slopes greater than 30 percent.
vi. Buffer averaging to improve wetland protection may be permitted when all of the following conditions are met:

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(A) The wetland has significant differences in characteristics that affect its habitat functions, such as a wetland with a forested component adjacent to a degraded emergent component or a "dual-rated" wetland with a Category I area adjacent to a lower rated area;

(B) The buffer is increased adjacent to the higher functioning area of habitat or more sensitive portion of the wetland and decreased adjacent to the lower functioning or less sensitive portion as demonstrated by a critical areas report from a qualified wetland professional;

(C) The total area of the buffer after averaging is equal to the area required without averaging; and

(D) The buffer at its narrowest point is never less than either three-fourths of the required width or 75 feet for Category I and II, 50 feet for Category III, and 25 feet for Category IV, whichever is greater.

vii. Averaging through a shoreline variance may be permitted when all of the following are met:

(A) There are no feasible alternatives to the site design that could be accomplished without buffer averaging;

(B) The averaged buffer will not result in degradation of the wetland's functions and values as demonstrated by a critical areas report from a qualified wetland professional;

(C) The total buffer area after averaging is equal to the area required without averaging; and

(D) The buffer at its narrowest point is never less than either three-fourths of the required width or 75 feet for Category I and II, 50 feet for Category III and 25 feet for Category IV, whichever is greater.

b. To facilitate long-range planning using a landscape approach, the Administrator may identify and preassess wetlands using the rating system and establish appropriate wetland buffer widths for such wetlands. The Administrator will prepare maps of wetlands that have been preassessed in this manner.

c. **Measurement of Wetland Buffers.** All buffers shall be measured perpendicular from the wetland boundary as surveyed in the field. The buffer for a wetland created, restored, or enhanced as compensation for approved wetland alterations shall be the same as the buffer required for the category of the created, restored, or enhanced wetland. Only fully vegetated buffers will be considered. Lawns, walkways, driveways, and other mowed or paved areas will not be considered buffers or included in buffer area calculations.

d. **Buffers on Mitigation Sites.** All mitigation sites shall have buffers consistent with the buffer requirements of this chapter. Buffers shall be based on the expected or target category of the proposed wetland mitigation site.

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e. **Buffer Maintenance.** Except as otherwise specified or allowed in accordance with this chapter, wetland buffers shall be retained in an undisturbed or enhanced condition. In the case of compensatory mitigation sites, removal of invasive nonnative weeds is required for the duration of the mitigation bond (subsection (C)(6)(h)(ii)(A)(8) of this section).

f. **Impacts to Buffers.** Requirements for the compensation for impacts to buffers are outlined in subsection (C)(6) of this section.

g. **Overlapping Critical Area Buffers.** If buffers for two contiguous critical areas overlap (such as buffers for a stream and a wetland), the wider buffer applies.

h. **Allowed Buffer Uses.** The following uses may be allowed within a wetland buffer in accordance with the review procedures of this chapter, provided they are not prohibited by any other applicable law and they are conducted in a manner so as to minimize impacts to the buffer and adjacent wetland:

i. **Conservation and Restoration Activities.** Conservation or restoration activities aimed at protecting the soil, water, vegetation, or wildlife.

ii. **Passive Recreation.** Passive recreation facilities designed and in accordance with an approved critical area report, including:

(A) Walkways and trails; provided, that those pathways are limited to minor crossings having no adverse impact on water quality. They should be generally parallel to the perimeter of the wetland, located only in the outer 25 percent of the wetland buffer area, and located to avoid removal of significant trees. They should be limited to pervious surfaces no more than five feet in width for pedestrian use only. Raised boardwalks utilizing nontreated pilings may be acceptable; and/or

(B) Wildlife viewing structures.

iii. Educational and scientific research activities.

iv. Normal and routine maintenance and repair of any existing public or private facilities within an existing right-of-way; provided, that the maintenance or repair does not increase the footprint or use of the facility or right-of-way.

v. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops, and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

vi. Drilling for utilities/utility corridors under a buffer, with entrance/exit portals located completely outside of the wetland buffer boundary; provided, that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the

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soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column is disturbed.

vii. Enhancement of a wetland buffer through the removal of nonnative invasive plant species. Removal of invasive plant species shall be restricted to hand removal. All removed plant material shall be taken away from the site and disposed of appropriately. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds must be handled and disposed of according to a noxious weed control plan appropriate to that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

viii. **Stormwater Management Facilities.** Stormwater management facilities are limited to stormwater dispersion outfalls and bioswales. They may be allowed within the outer 25 percent of the buffer of Category III or IV wetlands only; provided, that:

(A) No other location is feasible;

(B) The location of such facilities will not degrade the functions or values of the wetland; and

(C) Stormwater management facilities are not allowed in buffers of Category I or II wetlands.

ix. **Nonconforming Uses.** Repair and maintenance of nonconforming uses or structures, where legally established within the buffer, provided they do not increase the degree of nonconformity.

i. Signs and Fencing of Wetlands and Buffers.

i. **Temporary Markers.** The outer perimeter of the wetland buffer and the clearing limits identified by an approved permit or authorization shall be marked in the field with temporary "clearing limits" fencing in such a way as to ensure that no unauthorized intrusion will occur. The marking is subject to inspection by the Administrator prior to the commencement of permitted activities. This temporary marking shall be maintained throughout construction and shall not be removed until permanent signs, if required, are in place.

ii. **Permanent Signs.** As a condition of any permit or authorization issued pursuant to this chapter, the Administrator may require the applicant to install permanent signs along the boundary of a wetland or buffer.

(A) Permanent signs shall be made of an enamel-coated metal face and attached to a metal post or another nontreated material of equal durability. Signs must be posted at an interval of one per lot or every 50 feet, whichever is less, and must be maintained by the property owner in perpetuity. The signs shall be worded as follows or with alternative language approved by the Administrator:

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Protected Wetland Area Do Not Disturb

Contact the City of Shoreline Regarding Uses, Restrictions, and Opportunities for Stewardship (B) The provisions of subsection (C)(4)(i)(ii)(A) of this section may be modified as necessary to assure protection of sensitive features.

iii. **Fencing.** Fencing installed as part of a proposed activity or as required in this subsection shall be designed so as to not interfere with species migration, including fish runs, and shall be constructed in a manner that minimizes impacts to the wetland and associated habitat.

5. Critical Area Report for Wetlands.

a. If the Administrator determines that the site of a proposed development includes, is likely to include, or is adjacent to a wetland, a wetland report, prepared by a qualified professional, shall be required. The expense of preparing the wetland report shall be borne by the applicant.

b. **Minimum Standards for Wetland Reports.** The written report and the accompanying plan sheets shall contain the following information, at a minimum:

i. The name and contact information of the applicant; the name, qualifications, and contact information for the primary author(s) of the wetland critical area report; a description of the proposal; identification of all the local, State, and/or Federal wetland-related permit(s) required for the project; and a vicinity map for the project.

ii. A statement specifying the accuracy of the report and all assumptions made and relied upon.

iii. Documentation of any fieldwork performed on the site, including field data sheets for delineations, rating system forms, baseline hydrologic data, etc.

iv. A description of the methodologies used to conduct the wetland delineations, rating system forms, or impact analyses including references.

v. Identification and characterization of all critical areas, wetlands, water bodies, shorelines, floodplains, and buffers on or adjacent to the proposed project area. For areas off site of the project site, estimate conditions within 300 feet of the project boundaries using the best available information.

vi. For each wetland identified on site and within 300 feet of the project site provide: the wetland rating, including a description of and score for each function, per wetland ratings (subsection (C)(2)(b) of this section); required buffers; hydrogeomorphic classification; wetland acreage based on a professional survey from the field delineation (acreages for on-site portion and entire wetland area including off-site portions); Cowardin classification of vegetation communities; habitat elements; soil conditions based on site assessment and/or soil survey information; and to the extent possible, hydrologic information such as location and condition of

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inlet/outlets (if they can be legally accessed), estimated water depths within the wetland, and estimated hydroperiod patterns based on visual cues (e.g., algal mats, drift lines, flood debris, etc.). Provide acreage estimates, classifications, and ratings based on entire wetland complexes, not only the portion present on the proposed project site.

vii. A description of the proposed actions, including an estimation of acreages of impacts to wetlands and buffers based on the field delineation and survey and an analysis of site development alternatives, including a no-development alternative.

viii. An assessment of the probable cumulative impacts to the wetlands and buffers resulting from the proposed development.

ix. A description of reasonable efforts made to apply mitigation sequencing pursuant to Mitigation Sequencing (subsection (C)(6)(a) of this section) to avoid, minimize, and mitigate impacts to critical areas.

 A discussion of measures, including avoidance, minimization, and compensation, proposed to preserve existing wetlands and restore any wetlands that were degraded prior to the current proposed land-use activity.

xi. A conservation strategy for habitat and native vegetation that addresses methods to protect and enhance on-site habitat and wetland functions.

c. An evaluation of the functions of the wetland and adjacent buffer. Include reference for the method used and data sheets.

d. A copy of the site plan sheet(s) for the project must be included with the written report and must include, at a minimum:

i. Maps (to scale) depicting delineated and surveyed wetland and required buffers on site, including buffers for off-site critical areas that extend onto the project site; the development proposal; other critical areas; grading and clearing limits; areas of proposed impacts to wetlands and/or buffers (include square footage estimates);

ii. A depiction of the proposed stormwater management facilities and outlets (to scale) for the development, including estimated areas of intrusion into the buffers of any critical areas. The written report shall contain a discussion of the potential impacts to the wetland(s) associated with anticipated hydroperiod alterations from the project; and

iii. A depiction of the proposed stormwater management facilities and outlets (to scale) for the development, including estimated areas of intrusion into the buffers of any critical areas. The written report shall contain a discussion of the potential impacts to the wetland(s) associated with anticipated hydroperiod alterations from the project.

6. Compensatory Mitigation.

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a. **Mitigation Sequencing.** Before impacting any wetland or its buffer, an applicant shall demonstrate that the following actions have been taken. Actions are listed in the order of preference:

i. Avoid the impact altogether by not taking a certain action or parts of an action.

ii. Minimize impacts by limiting the degree or magnitude of the action and its implementation,

by using appropriate technology, or by taking affirmative steps to avoid or reduce impacts.

iii. Rectify the impact by repairing, rehabilitating, or restoring the affected environment.

iv. Reduce or eliminate the impact over time by preservation and maintenance operations.

v. Compensate for the impact by replacing, enhancing, or providing substitute resources or environments.

vi. Monitor the required compensation and take remedial or corrective measures when necessary.

b. Requirements for Compensatory Mitigation.

 Compensatory mitigation for alterations to wetlands shall be used only for impacts that cannot be avoided or minimized and shall achieve equivalent or greater biologic functions.
 Compensatory mitigation plans shall be consistent with Wetland Mitigation in Washington State

 Part 2: Developing Mitigation Plans (Version 1), Ecology Publication No. 06-06-011b,
 Olympia, WA, March 2006 or as revised.

ii. Mitigation ratios shall be consistent with subsection (C)(6)(g) of this section.

iii. Mitigation requirements may also be determined using the credit/debit tool described in "Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Western Washington: Operational Draft" (Ecology Publication No. 10-06-011, February 2011, or as revised) consistent with subsection (C)(6)(h) of this section.

c. **Compensating for Lost or Affected Functions.** Compensatory mitigation shall address the functions affected by the proposed project, with an intention to achieve functional equivalency or improvement of functions. The goal shall be for the compensatory mitigation to provide similar wetland functions as those lost, except when either:

i. The lost wetland provides minimal functions, and the proposed compensatory mitigation action(s) will provide equal or greater functions or will provide functions shown to be limiting within a watershed through a formal Washington State watershed assessment plan or protocol; or

ii. Out-of-kind replacement of wetland type or functions will best meet watershed goals formally identified by the City, such as replacement of historically diminished wetland types.

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d. **Preference of Mitigation Actions.** Methods to achieve compensation for wetland functions shall be approached in the following order of preference:

i. Restoration (reestablishment and rehabilitation) of wetlands.

ii. Creation (establishment) of wetlands on disturbed upland sites such as those with vegetative cover consisting primarily of nonnative species. This should be attempted only when there is an adequate source of water and it can be shown that the surface and subsurface hydrologic regime is conducive to the wetland community that is anticipated in the design.
iii. Enhancement of significantly degraded wetlands in combination with restoration or creation. Enhancement alone will result in a loss of wetland acreage and is less effective at replacing the functions lost. Enhancement should be part of a mitigation package that includes replacing the impacted area and meeting appropriate ratio requirements.

iv. **Preservation.** Preservation of high quality, at-risk wetlands as compensation is generally acceptable when done in combination with restoration, creation, or enhancement; provided, that a minimum of 1:1 acreage replacement is provided by reestablishment or creation. Preservation of high quality, at-risk wetlands and habitat may be considered as the sole means of compensation for wetland impacts when the following criteria are met:

(A) Wetland impacts will not have a significant adverse impact on habitat for listed fish, or other ESA listed species;

(B) There is no net loss of habitat functions within the watershed or basin;

(C) Mitigation ratios for preservation as the sole means of mitigation shall generally start at 20:1. Specific ratios should depend upon the significance of the preservation project and the quality of the wetland resources lost; and

(D) The impact area is small (generally less than one-half acre) and/or impacts are occurring to a low functioning system (Category III or IV wetland).

All preservation sites shall include buffer areas adequate to protect the habitat and its functions from encroachment and degradation.

e. **Type and Location of Compensatory Mitigation.** Unless it is demonstrated that a higher level of ecological functioning would result from an alternative approach, compensatory mitigation for ecological functions shall be either in kind and on site, or in kind and within the same stream reach, sub-basin, or drift cell (if estuarine wetlands are impacted). Compensatory mitigation actions shall be conducted within the same sub-drainage basin and on the site of the alteration except when all of the following apply:

i. There are no reasonable opportunities on site or within the sub-drainage basin (e.g., on-site options would require elimination of high functioning upland habitat), or opportunities on site or

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within the sub-drainage basin do not have a high likelihood of success based on a determination of the capacity of the site to compensate for the impacts. Considerations should include: anticipated replacement ratios for wetland mitigation, buffer conditions and proposed widths, available water to maintain anticipated hydrogeomorphic classes of wetlands when restored, proposed flood storage capacity, and potential to mitigate riparian fish and wildlife impacts (such as connectivity);

ii. Off-site mitigation has a greater likelihood of providing equal or improved wetland functions than the impacted wetland; and

iii. Off-site locations shall be in the same sub-drainage basin unless:

(A) Established watershed goals for water quality, flood storage or conveyance, habitat, or other wetland functions have been established by the City and strongly justify location of mitigation at another site; or

(B) Credits from a State-certified wetland mitigation bank are used as compensation, and the use of credits is consistent with the terms of the bank's certification.

iv. The design for the compensatory mitigation project needs to be appropriate for its location (i.e., position in the landscape). Therefore, compensatory mitigation should not result in the creation, restoration, or enhancement of an atypical wetland. An atypical wetland refers to a compensation wetland (e.g., created or enhanced) that does not match the type of existing wetland that would be found in the geomorphic setting of the site (i.e., the water source(s) and hydroperiod proposed for the mitigation site are not typical for the geomorphic setting). Likewise, it should not provide exaggerated morphology or require a berm or other engineered structures to hold back water. For example, excavating a permanently inundated pond in an existing seasonally saturated or inundated wetland is one example of an enhancement project that could result in an atypical wetland. Another example would be excavating depressions in an existing wetland on a slope, which would require the construction of berms to hold the water.

f. **Timing of Compensatory Mitigation.** It is preferred that compensatory mitigation projects be completed prior to activities that will disturb wetlands. At the least, compensatory mitigation shall be completed immediately following disturbance and prior to use or occupancy of the action or development. Construction of mitigation projects shall be timed to reduce impacts to existing fisheries, wildlife, and flora.

i. The Administrator may authorize a one-time temporary delay in completing construction or installation of the compensatory mitigation when the applicant provides a written explanation from a qualified wetland professional as to the rationale for the delay. An appropriate rationale would include identification of the environmental conditions that could produce a high probability

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of failure or significant construction difficulties (e.g., project delay lapses past a fisheries window, or installing plants should be delayed until the dormant season to ensure greater survival of installed materials). The delay shall not create or perpetuate hazardous conditions or environmental damage or degradation, and the delay shall not be injurious to the health, safety, or general welfare of the public. The request for the temporary delay must include a written justification that documents the environmental constraints that preclude implementation of the compensatory mitigation plan. The justification must be verified and approved by the City.

Category and Type of Wetland	Creation or Reestablishment	Rehabilitation	Enhancement	Preservation
Category I: Bog, Natural Heritage site	Not considered possible	6:1	Case by case	10:1
Category I: Mature forested	6:1	12:1	24:1	24:1
Category I: Based on functions	4:1	8:1	16:1	20:1
Category II	3:1	6:1	12:1	20:1
Category III	2:1	4:1	8:1	15:1
Category IV	1.5:1	3:1	6:1	10:1

h. **Compensatory Mitigation Plan.** When a project involves wetland and/or buffer impacts, a compensatory mitigation plan prepared by a qualified professional shall be required, meeting the following minimum standards:

Ratios for rehabilitation and enhancement may be reduced when combined with 1:1 replacement through creation or reestablishment. See Table 1a or 1b, Wetland Mitigation in Washington State – Part 1: Agency Policies and Guidance – Version 1 (Ecology Publication

No. 06-06-011a, Olympia, WA, March 2006 or as revised).

i. **Wetland Critical Area Report.** A critical area report for wetlands must accompany or be included in the compensatory mitigation plan and include the minimum parameters described in the "Minimum Standards for Wetland Reports" section of this chapter.

ii. **Compensatory Mitigation Report.** The report must include a written report and plan sheets that must contain, at a minimum, the elements listed below. Full guidance can be found

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in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Ecology Publication No. 06-06-011b, Olympia, WA, March 2006 or as revised).

(A) The written report must contain, at a minimum:

(1) The name and contact information of the applicant; the name, qualifications, and contact information for the primary author(s) of the compensatory mitigation report; a description of the proposal; a summary of the impacts and proposed compensation concept; identification of all the local, State, and/or Federal wetland-related permit(s) required for the project; and a vicinity map for the project;

(2) Description of how the project design has been modified to avoid, minimize, or reduce adverse impacts to wetlands;

(3) Description of the existing wetland and buffer areas proposed to be impacted. Include acreage (or square footage), water regime, vegetation, soils, landscape position, surrounding land uses, and functions. Also describe impacts in terms of acreage by Cowardin classification, hydrogeomorphic classification, and wetland rating, based on wetland ratings (subsection (C)(2)(b) of this section);

(4) Description of the compensatory mitigation site, including location and rationale for selection. Include an assessment of existing conditions: acreage (or square footage) of wetlands and uplands, water regime, sources of water, vegetation, soils, landscape position, surrounding land uses, and functions. Estimate future conditions in this location if the compensation actions are not undertaken (i.e., how would this site progress through natural succession?);

(5) A description of the proposed actions for compensation of wetland and upland areas affected by the project. Include overall goals of the proposed mitigation, including a description of the targeted functions, hydrogeomorphic classification, and categories of wetlands;

(6) A description of the proposed mitigation construction activities and timing of activities;
(7) A discussion of ongoing management practices that will protect wetlands after the project site has been developed, including proposed monitoring and maintenance programs (for remaining wetlands and compensatory mitigation wetlands);

(8) A bond estimate for the entire compensatory mitigation project, including the following elements: site preparation, plant materials, construction materials, installation oversight, maintenance twice per year for up to five years, annual monitoring field work and reporting, and contingency actions for a maximum of the total required number of years for monitoring; and (9) Proof of establishment of notice on title for the wetlands and buffers on the project site, including the compensatory mitigation areas.

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(B) The scaled plan sheets for the compensatory mitigation must contain, at a minimum:

(1) Surveyed edges of the existing wetland and buffers, proposed areas of wetland and/or buffer impacts, location of proposed wetland and/or buffer compensation actions;

(2) Existing topography, ground-proofed, at two-foot contour intervals in the zone of the proposed compensation actions if any grading activity is proposed to create the compensation area(s). Also existing cross-sections of on-site wetland areas that are proposed to be impacted, and cross-section(s) (estimated one-foot intervals) for the proposed areas of wetland or buffer compensation;

(3) Surface and subsurface hydrologic conditions, including an analysis of existing and proposed hydrologic regimes for enhanced, created, or restored compensatory mitigation areas. Also, illustrations of how data for existing hydrologic conditions were used to determine the estimates of future hydrologic conditions;

(4) Conditions expected from the proposed actions on site, including future hydrogeomorphic types, vegetation community types by dominant species (wetland and upland), and future water regimes;

(5) Required wetland buffers for existing wetlands and proposed compensation areas. Also, identify any zones where buffers are proposed to be reduced or enlarged outside of the standards identified in this chapter;

(6) A plant schedule for the compensation area, including all species by proposed community type and water regime, size and type of plant material to be installed, spacing of plants, typical clustering patterns, total number of each species by community type, timing of installation; and (7) Performance standards (measurable standards reflective of years post-installation) for upland and wetland communities, monitoring schedule, and maintenance schedule and actions by each biennium.

i. **Buffer Mitigation Ratios.** Impacts to buffers shall be mitigated at a 1:1 ratio. Compensatory buffer mitigation shall replace those buffer functions lost from development.

20.230.040 Public access.

Public access to the shoreline is the physical ability of the general public to reach and touch the water's edge and/or the ability to have a view of the water and the shoreline from upland locations. There are a variety of types of public access, such as picnic areas, pathways and trails, promenades, bridges, street ends, ingress and egress, and parking.

A. Public Access Policies.

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1. Public access provisions should be incorporated into all private and public developments. Exceptions may be considered for the following types of uses:

a. A single-family residence;

b. An individual multifamily structure containing four or less dwelling units; and/or

c. Where deemed inappropriate by the Director.

2. Development uses and activities on or near the shoreline should not impair or detract from the public's visual or physical access to the water.

3. Public access to the shoreline should be sensitive to the unique characteristics of the shoreline and should preserve the natural character and quality of the environment and adjacent wetlands; public access should assure no net loss of ecological functions.

4. Where appropriate, water-oriented public access should be provided as close as possible to the water's edge without adversely affecting a sensitive environment.

5. Except for access to the water, the preferred location for placement of public access trails is as close to the furthest landward edge of the native vegetation zone as practical. Public access facilities should provide auxiliary facilities, such as parking and sanitation, when appropriate, and shall be designed for accessibility by people with disabilities. Publicly owned shorelines should be limited to water-dependent or public recreation uses, otherwise such shorelines should remain protected open space.

6. Public access afforded by public right-of-way street ends adjacent to the shoreline should be preserved, maintained, and enhanced.

7. Public access should be designed to provide for public safety and to minimize potential impacts to private property and individual privacy. This may include providing a physical separation to reinforce the distinction between public and private space, providing adequate space, through screening with landscape planting or fences, or other means.

8. Public views from the shoreline upland areas should be enhanced and preserved. Enhancement of views should not be construed to mean excess removal of vegetation that partially impairs views.

9. Public access facilities should be constructed of environmentally friendly materials and support healthy natural processes, whenever financially feasible and possible.

10. Public access facilities should be maintained to provide a clean, safe experience, and to protect the environment.

B. Public Access Regulations.

1. Public access shall be required for all shoreline development and uses, except for a singlefamily residence or residential projects containing four or less dwelling units.

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2. Requirement of public access to shorelines does not confer the right to enter upon or cross private property, except for dedicated and marked public easements.

3. A shoreline development or use that does not provide public access may be authorized provided the applicant demonstrates and the Director determines that one or more of the following provisions apply:

a. Unavoidable health or safety hazards to the public exist that cannot be prevented by any feasible means;

b. Security requirements cannot be satisfied through the application of alternative design features or other solutions;

c. The cost of providing the access, easement, or an alternative amenity is unreasonably disproportionate to the total long-term cost of the proposed development;

d. Unacceptable environmental harm, such as damage to fish spawning areas, will result from the public access that cannot be mitigated; and/or

e. Significant conflict between the proposed access and adjacent uses would occur and cannot be mitigated.

4. The applicant must also demonstrate that all reasonable means to public access have been exhausted, including but not limited to:

a. Regulating access by such means as limiting use to daylight hours;

b. Designing separation of uses and activities with such means as fences, terracing, hedges, or landscaping; and/or

c. Providing access that is physically separated from the proposal, such as a nearby street end, an off-site viewpoint, or a trail system.

5. Public access sites shall be made barrier free for people with disabilities.

6. Public access sites shall be connected directly to the nearest public street.

7. Required public access sites shall be fully developed and available for public use at the time of occupancy or use of the development or activity.

8. Public access easements and permit conditions shall be recorded on the deed where applicable or on the face of a plat or short plat as a condition running with the land. Said recording with the King County Recorder's office shall occur at the time of permit approval. (RCW 58.17.110).

9. The standard <u>Washington</u> State approved logo and other approved signs that indicate the public's right of access and hour of access shall be constructed, installed, and maintained by the applicant in conspicuous locations at public access sites. Signs controlling or restricting public access may be approved as a condition of permit approval.

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 Development on or over the water shall be constructed as far landward as possible to avoid interference with views from surrounding properties to the shoreline and adjoining waters.
 Physical public access shall be designed to prevent significant impacts to natural systems by employing low impact development techniques.

Subchapter 2. Specific Shoreline Use Policies and Regulations

20.230.070 General.

Specific shoreline use provisions are more detailed than those listed in general policies and regulations. These use policies and regulations apply to the identified use categories and provide a greater level of detail for uses and their impacts. The policies establish the shoreline management principles that apply to each use category and serve as a bridge between the various elements listed in SMC 20.200.040 and the use regulations that follow. This subchapter also includes those activities that modify the configuration or qualities of the shoreline area. Shoreline modification activities are, by definition, undertaken in support of or in preparation for a permitted shoreline use. Typically, shoreline modification activities relate to construction of a physical element such as a breakwater, dredged basins, landfilling, etc., but they can include other actions such as clearing, grading, application of chemicals, etc. Shoreline modification policies and regulations are intended to prevent, reduce, and mitigate the negative environmental impacts of proposed shoreline modifications consistent with the goals of the <u>SMAShoreline Management Act</u>. A proposed development must meet all of the regulations for both applicable uses and activities as well as the general and environment designation regulations.

The following policies and regulations apply to specific types of development that may be proposed in the shoreline jurisdiction of the City. A proposal can consist of more than one type of development. In addition, all specific shoreline development must be consistent with the following shoreline environmental designations; the goals and objectives of Chapter 20.200 SMC; and the general policies and regulations contained in Chapter 20.230 SMC, Subchapter 1-; and the critical areas regulations contained in Chapter 20.240 SMC.

20.230.080 Shoreline environmental designations. – Map included in Appendix D, page 205.¹

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Aquatic Environment (A). Encompasses all submerged lands from OHWM to the middle of Puget Sound. The purpose of this designation is to protect, restore, and manage the unique characteristics and resources of the areas waterward of the OHWMordinary high water mark. New over-water structures are allowed only for water-dependent uses, public access, or ecological restoration and must be limited to the minimum necessary to support the structure's intended use.

Urban Conservancy Environment (UC). The purpose of this designation is to protect and restore relatively undeveloped or unaltered shorelines to maintain open space, floodplains, or habitat, while allowing a variety of compatible uses. This designation shall apply to shorelines that retain important ecological functions, even if partially altered. These shorelines are suitable for low intensity development, uses that are a combination of water-related or water enjoyment uses, or uses that allow substantial numbers of people access to the shoreline. Any undesignated shorelines are automatically assigned an urban conservancy designation.

Shoreline Residential Environment (SR). The purpose of this designation is to accommodate residential development and accessory structures that are consistent with this Shoreline.Master Program. This designation shall apply to shorelines that do not meet the criteria for urban conservancy and that are characterized by single-family or multifamily residential development or are planned and platted for residential development.

Waterfront Residential Environment (WR). The purpose of this designation is to distinguish between residential portions of the coastline where natural and manmade features preclude building within the shoreline jurisdiction and the section along 27th Avenue NW where residential properties directly abut the Puget Sound.

Characteristics of 27th Avenue NW include:

Only fully established residential property in the City-of Shoreline directly abutting the Puget
Sound;

- Substantial number of legally existing nonconforming lots and nonconforming structures;
- · Exposure to high energy wind and wave action;

Fully armored shoreline prior to December 4, 1969, and residences occupied prior to January

• 1, 1992; and

Failure of an individual bulkhead would cause adverse effect on subject property as well as

• neighboring properties.

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These unique circumstances and considerations warrant different regulations for 27th Avenue NW as compared to existing residential property that is cut off from the shoreline by bluffs and railroad tracks (UC and SR), and potential new residential properties in the Point Wells designations (PW and PWC).

Point Wells Urban Environment (PW). The purpose of this designation is to accommodate higher density uses while protecting existing ecological functions and restoring ecological functions that have been degraded.

Point Wells Urban Conservancy Environment (PWC). The purpose of this designation is to distinguish between differing levels of potential and existing ecological function within the Point Wells environment, and regulate uses and public access requirements appropriately.

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SHORELINE City of Shoreline

City of Shoreline

Date Printed: 2/21/2019 | Request: 19818

Shoreline Master Program 2019 Periodic Review Data Source: City of Shoreline GIS Projection: NAD_1983_HARN_StatePlane_ Washington_North_FIPS_4601

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Figure 20.230.080: Shoreline Environmental Designations and mapped critical areas.

SMC 20.230.081 Permitted Uses and Modifications.

Uses that are allowed in Tables 20.40.120 through 20.40.1650 are permitted uses in accordance with the underlying zone, this chapter, and the provisions of the<u>this</u> Shoreline Master Program.

P = Permitted. Permitted uses may require shoreline substantial development permits and any other permits required by the Shoreline Municipal Code and/or other regulatory agencies.
C = Conditional Use. Conditional uses require shoreline conditional use permit and may require other permits required by the Shoreline Municipal Code and/or other regulatory agencies.
X = Prohibited.

Shoreline Environments						
Shoreline Use	Aquatic	Urban Conservancy	Shoreline Residential	Waterfront Residential	PW Urban Conservancy	PW Urban
Agriculture	Х	Х	Х	Х	Х	Х
Aquaculture	С	Х	Х	Х	Х	Х
Boating Facilities (Boat Hoists and Launching Ramps)	P ¹	P: Boat launching ramps open to the public	P: Joint use boat launching ramps	P: Joint use boat launching ramps	X	P: Boat launching ramps open to the public
Nonresidential Development	X	X	X	X	P	P
Forest Practices	Х	X	Х	X	Х	Х
Industrial Development	X	X	Х	X	P: Existing	P: Existing C: Expansion
In-Stream	P ¹	P: Part of a	P: Part of a	P: Part of a	P: Part of a	P: Part of a

Table 20.230.081 Permitted Uses and Modifications within the Shorelines

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	Shoreline Environments					
Shoreline		Urban	Shoreline	Waterfront	PW Urban	
Use	Aquatic	Conservancy	Residential	Residential	Conservancy	PW Urban
Structures		fish habitat	fish habitat	fish habitat	fish habitat	fish habitat
		enhancement	enhancement	enhancement	enhancement	enhancement
		or a	or a	or a	or a	or a
		watershed	watershed	watershed	watershed	watershed
		restoration	restoration	restoration	restoration	restoration
		project	project	project	project	project
Mining	х	Х	Х	Х	Х	Х
Mooring	Р	Х	Х	Х	Х	Х
Recreation	C: Water-	Р	Р	Р	P: Limit to low	Р
Use (Water-	dependent				intensity	
related)	only				uses, passive	
					uses	
Recreation	C ⁹	Р	Р	P	P: Limit to low	Р
Facilities					intensity	
					uses, passive	
					uses	
Residential	Х	Р	Р	Р	Р	Р
Developments						
Signs	X ⁶	Р	Р	Р	Р	Р
Permanent	х	Х	Х	Х	Х	Х
Solid Waste						
Storage or						
Transfer						
Facilities						
Transportation	х	С	Ρ	Р	С	Р
Facilities						
(Roads and						

Table 20.230.081 Permitted Uses and Modifications within the Shorelines

	Shoreline Environments						
Shoreline		Urban	Shoreline	Waterfront	PW Urban	DW/ Urbon	
Use	Aquatic	Conservancy	Residential	Residential	Conservancy		
Bridges)							
Transportation	Р	Р	Р	Р	Ρ	Р	
Facilities ³							
(Railroads)							
Utilities	С	P:	P:	P:	P:	P:	
		Underground	Underground	Underground	Underground	Underground	
		facilities	facilities	facilities	facilities	facilities	
		C:	C:	C:	C:	C:	
		Aboveground	Aboveground	Aboveground	Aboveground	Aboveground	
		facilities	facilities	facilities	facilities	facilities	
Unclassified	С	С	С	С	С	С	
Uses							

Table 20.230.081 Permitted Uses and Modifications within the Shorelines

Shoreline Modifications	Aquatic	Urban	Shoreline	Waterfront	PW Urban	PW Urban
		Conservancy	Residential	Residential	Conservancy	/
Breakwaters,	C ¹	Х	Х	Х	Х	Х
Jetties,						
Groins, and						
Weirs						
Dredging	P ⁴	P ⁴	P ⁴	P ⁴	P ⁴	P ⁴
	C:					
	Related to					
	navigation					
	for PWU					
Dredging	С	P⁵	P ⁵	P ⁵	P⁵	P ⁵
Material						
Disposal						

Shoreline	Aquatic	Urban	Jrban Shoreline Waterfront PW Urban	PW Urban	DW/ Urban	
Modifications		Conservancy	Residential	Residential	Conservancy	
Dune	Х	Х	Х	Х	Х	Х
Modification						
Piers and	P ¹	P: Public	P: Joint use	P: Joint use	Х	P: Existing
Docks						associated
						with public
						use
						P: Public
						piers or
						docks
						C: Expansion
						of existing
						with water
						oriented
						industrial use
Structural	Х	Х	Х	Х	Х	Х
Flood Hazard						
Reduction						
(Dikes and						
Levees)						
Soft-Shore	P ¹	Р	Р	Ρ	P: With	Ρ
Stabilization					utilities	
Repair,	Р	Р	Р	P ⁸	Р	Р
Replacement,						
and						
Maintenance						
of Existing						
Hard-Shore						
Armoring						
Hard	х	С	С	С	х	С

Table 20.230.081 Permitted Uses and Modifications within the Shorelines

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Shoreline	Urban	Shoreline	Waterfront	PW Urban	DW/ Urban	
Modifications	S	Conservancy	Residential	Residential	Conservancy	
Shoreline						
Armoring						
where None						
Previously						
Existed						
Land	х	P ³				
Disturbing						
Activities						
Landfilling	C ⁴	C ³	C ¹	C ¹	C ³	C ³
Shoreline	Р	Р	Р	Р	Р	Р
Habitat and						
Natural						
Systems						
Enhancement						
Projects						
Marinas	х	Х	Х	Х	Х	Х

Table 20.230.081 Permitted Uses and Modifications within the Shorelines

¹ Subject to the use limitations and permit requirements of the abutting upland shoreline environment designation.

² The City recognizes the Federal preemption for local permitting per the ICC Termination Act of 1995, 49 U.S.C. § 10501(b); however, for the purposes of coastal zone management consistency the railroad company would be required to comply with the policies of th<u>ise City of Shoreline's SMPMaster Program</u>.

³ For activities associated with shoreline restoration or remediation; or limited if associated with public access improvement and allowed shoreline development.

⁴ For activities associated with shoreline or aquatic restoration or remediation.

⁵ For shoreline habitat and natural systems enhancement, fish habitat enhancement, or watershed restoration project.

⁶ Signs required by regulatory agencies for navigational operation, safety and direction purposes allowed in aquatic environment per SMC 20.230.230(B)(1).

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- ⁷ Limited to water-dependent, public access, or shoreline stabilization activities.
- ⁸ This includes replacement.
- ⁹ Refer to SMC 20.230.130 for conditions.

20.230.082 Native Conservation Area and Building Setbacks.

The term "native conservation area" (NVCA) applies to areas where the shoreline is not armored, such as the PWC environment designation, and Richmond Beach Saltwater Park. NVCAs should be maintained in a predominantly natural, undisturbed, undeveloped, and vegetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "building setback" applies in areas where the railroad or bulkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hardarmored conditions, but further encroachment or vegetative clearing are not permitted. The area is measured horizontally from the OWHM and the structure or use.

Shoreline Environmental	Minimum Native Vegetation Conservation or <u>Building</u>				
Designation	Setback Area ^⁴				
Urban Conservancy	150 feet or 50 feet from the top of a landslide hazard area, whichever is greater				
Shoreline Residential	115 feet				
Waterfront Residential	20 feet				
Point Wells Urban	200 feet (restoration required as part of development)				
Point Wells Urban Conservancy	200 feet				

Table 20.230.082 Native Conservation Area/Building Setbacks⁴

Bulk standards will be regulated by underlying zoning according to SMC Table 20.50.020(1). Zoning designation is R6 for UC, SR, and WR, and yet to be determined for PW and PWC. The term "native conservation area" (NVCA) applies to areas where the shoreline is not armored, such as the PWC environment designation, and Richmond Beach Saltwater Park. NVCAs should be maintained in a predominantly natural, undisturbed, undeveloped, and vegetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "building setback" applies in areas where the railroad or bulkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hardarmored conditions, but further encroachment or vegetative clearing are not permitted.

20.230.090 Boating facilities.

Boating facilities serving two or more single-family dwelling units generally include boat launch ramps (public and private), wet and dry boat storage, and related sales and service for pleasure and commercial watercraft. For the purpose of this section, boat hoists, davits, lifts, and/or dry boat storage of private watercraft consistent with single-family residential properties are not included.

A. Boating Facilities Policies.

1. Boating facilities can have a significant impact on habitat. The impacts of boating facilities should be reviewed thoroughly before boating facilities are permitted in the shoreline jurisdiction.

2. Public and community boating facilities may be allowed. Individual private facilities are prohibited.

3. New nonresidential boating facilities may be allowed as a conditional use within the regulated shoreline. When allowed, such facilities should be designed to accommodate public access and enjoyment of the shoreline location. Depending on the scale of the facility, public access should include walkways, viewpoints, restroom facilities, and other recreational uses.

4. Dry boat storage should not be considered a water-oriented use. Only boat hoists, boat launch ramps, and access routes associated with a dry boat storage facility should be considered a water-oriented use.

5. Health, safety and welfare considerations must be addressed in application for development of boating facilities.

6. Navigation rights must be protected in development of boating facilities.

7. Extended moorage on waters of the State without a lease or permission is restricted and mitigation of impacts to navigation and access is required.

B. Boating Facilities Regulations.

1. Boating facilities may be permitted only if:

a. It can be demonstrated that the facility will not adversely impact fish or wildlife habitat areas or associated wetlands; and

b. Adequate mitigation measures ensure that there is no net loss of the functions or values of the shoreline and habitat as a result of the facility.

2. Boating facilities shall not be permitted within the following marine shoreline habitats because of their scarcity, biological productivity and sensitivity unless no alternative location is

feasible, the project would result in a net enhancement of shoreline ecological functions, and the proposal is otherwise consistent with this program:

a. Critical saltwater habitats; and

b. Marshes, estuaries and other wetlands.

3. Preferred ramp designs, in order of priority, are:

a. Open grid designs with minimum coverage of beach substrate;

b. Seasonal ramps that can be removed and stored upland; and

c. Structures with segmented pads and flexible connections that leave space for natural beach substrate and can adapt to changes in beach profile.

4. Ramps shall be placed and maintained near flush with the foreshore slope.

5. Boat launches shall be designed and constructed using methods/technology that have been recognized and approved by State and Federal resource agencies as the best currently available. Rail and track systems shall be preferred over concrete ramps or similar facilities.

6. Launch access for nonmotorized watercraft shall use gravel or other permeable material. Removal of vegetation for launch access should be limited to eight feet in width.

7. Before granting approval of a permit to allow a boat launch ramp, the proponent must satisfactorily demonstrate that:

a. Adequate facilities for the efficient handling of sewage and litter will be provided;

b. The boating facilities will be designed so that structures are aesthetically compatible with or enhance shoreline features and uses; and

c. The boating facilities will be designed so that existing or potential public access along beaches is not blocked or made unsafe, and so that public use of the surface waters is not unduly impaired.

C. Boat Launch Ramps.

1. Boat launch ramps shall be located on stable shorelines where water depths are adequate to eliminate or minimize the need for channel maintenance activities.

2. Boat launch ramps may be permitted on accretion shoreforms provided any necessary grading is not harmful to affected resources.

3. Where boat ramps are permitted, parking and shuttle areas shall not be located on accretion shoreforms.

4. Boat launch ramps may be permitted on stable, noneroding banks where the need for shore stabilization structures is minimized.

5. Ramp structures shall be placed near flush with the foreshore slope to minimize the interruption of geohydraulic processes.

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6. Boat launch sites that are open to the public shall have adequate restroom facilities operated and maintained in compliance with King County Health District regulations.

D. Dry Boat Storage.

1. Dry boat storage shall not be considered a water-oriented use and must comply with the required shoreline environment setback.

2. Only water-dependent aspects of dry boat storage, such as boat hoists and boat launch ramps, may be permitted within shoreline environment setbacks.

3. Boat launch ramps associated with dry boat storage shall be consistent with applicable requirements in this section.

20.230.095 Breakwaters, jetties, groins, and weirs.

A. Breakwaters, Jetties, Groins and Weirs Policies.

1. Breakwaters, jetties, groins, and weirs should be permitted only for water-dependent uses and only where mitigated to provide no net loss of shoreline ecological functions and processes.

B. Breakwaters, Jetties, Groins and Weirs Regulations.

1. Groins are prohibited except as a component of a professionally designed public beach management program that encompasses an entire drift sector or reach for which alternatives are infeasible, or where installed to protect or restore shoreline ecological functions or processes.

2. Jetties and breakwaters are prohibited except as an integral component of a professionally designed harbor or port. Where permitted, floating, portable or submerged breakwater structures, or smaller discontinuous structures, are preferred where physical conditions make such alternatives with less impact feasible. Defense works that substantially reduce or block littoral drift and cause erosion of downdrift shores shall not be allowed unless an adequate long-term professionally engineered beach nourishment program is established and maintained.

20.230.100 Nonresidential development.

A. Nonresidential Development Policies.

1. Priority of any nonresidential development should be given to water-dependent and waterenjoyment uses. Allowed uses include restaurants that provide a view of the sound to customers, motels and hotels that provide walking areas for the public along the shoreline, office buildings, and retail sales buildings that have a waterfront theme with public access to the beach or water views.

2. Over-the-water nonresidential development shall be prohibited.

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3. Nonresidential development should be required to provide on-site physical or visual access to the shoreline, or offer other opportunities for the public to enjoy shorelines of statewide significance. If on-site access cannot be provided, off-site access should be required. Off-site access could be procured through the purchase of land or an easement at a location appropriate to provide the access deemed necessary. Nonresidential developments should include multiple-use concepts such as open space and recreation.

4. Nonresidential development in the shoreline jurisdiction should include landscaping to enhance the shoreline area.

B. Nonresidential Development Regulations.

1. Over-water construction of nonresidential uses is prohibited, with the exception of boat facilities necessary for the operation of an associated nonresidential use.

2. All nonresidential development within the shoreline area shall provide for visual and/or physical access to the shoreline by the public. Where on-site public access is feasible, nonresidential development shall dedicate, improve, and provide maintenance for a pedestrian easement that provides area sufficient to ensure usable access to and along the shoreline for the general public. Public access easements shall be a minimum of 25 feet in width and shall comply with the public access standards contained in the "Public Access" section of this Shoreline Master Program and the Shoreline Development Code SMC Title 20.

3. All nonresidential loading and service areas shall be located on the upland side of the nonresidential activity or provisions shall screen the loading and service areas from the shoreline.

4. All nonresidential development within shoreline jurisdiction shall assure no net loss of shoreline ecological functions.

5. A shoreline setback is not required to be maintained for water-dependent nonresidential development.

6. Water-dependent, nonresidential development shall maintain a shoreline setback of either 25 feet from the OHWM or 10 feet from the edge of the base flood elevation, whichever is greater. If public access is provided to the shoreline, the setback may be reduced to 10 feet from the OHWM or the edge of the base flood elevation, whichever is greater.

7. Non-water-dependent nonresidential development shall maintain a minimum setback from the OHWM consistent with Table 20.230.082.

20.230.110 In-stream structures.

A. In-Stream Structures Policies.

1. In-stream structures should provide for the protection and preservation of ecosystem-wide processes, ecological functions, and cultural resources including, but not limited to, fish and fish passage, wildlife and water resources, shoreline critical areas, hydrogeological processes, and natural scenic vistas. The location and planning of in-stream structures should give due consideration to the full range of public interests, watershed functions and processes, and environmental concerns, with special emphasis on protecting and restoring priority habitats and species.

2. Nonstructural and nonregulatory methods to protect, enhance, and restore shoreline ecological functions and processes and other shoreline resources should be encouraged as an alternative to structural in-stream structures.

B. In-Stream Structures Regulations.

1. Natural in-stream features such as snags, uprooted trees, or stumps should be left in place unless it can be demonstrated that they are actually causing bank erosion or higher flood stages.

2. In-stream structures shall allow for normal ground water movement and surface runoff.

3. In-stream structures shall not impede upstream or downstream migration of anadromous fish.

4. All debris, overburden and other waste materials from construction shall be disposed of in such a manner that prevents their entry into a water body.

20.230.115 Aquaculture.

A. Aquaculture Policies.

1. Potential locations for aquaculture are relatively restricted due to specific requirements for water quality, temperature, flows, oxygen content, adjacent land uses, wind protection, commercial navigation, and, in marine waters, salinity. The technology associated with some forms of present-day aquaculture is still in its formative stages and experimental. Therefore, the City recognizes the necessity for some latitude in the development of this use as well as its potential impact on existing uses and natural systems.

2. Aquaculture should not be permitted in areas where it would result in a net loss of ecological functions, adversely impact eelgrass and macroalgae, or significantly conflict with navigation and other water-dependent uses. Aquacultural facilities should be designed and located so as not to spread disease to native aquatic life, establish new nonnative species which cause significant ecological impacts, or significantly impact the aesthetic qualities of the

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shoreline. Impacts to ecological functions shall be mitigated according to the mitigation sequence described in SMC 20.230.020.

B. Aquaculture Regulations.

1. Aquaculture is allowed as a conditional use in the Aquatic environment where it can be located, designed, constructed, and managed to avoid a net loss of ecological functions, not spread diseases to native aquatic life, not adversely impact native eelgrasses and macroalgae species or not significantly conflict with navigation.

2. The supporting infrastructure for aquaculture may be located landward of the aquaculture operation subject to the City's land use code<u>SMC Title 20</u>.

3. Aquaculture facilities are required to develop best management practices to minimize impacts from the construction and management of the facilities.

4. New aquatic species that are not previously cultivated in Washington State shall not be introduced into Shoreline's saltwaters or freshwaters without prior written approval of the Director of <u>WDFW</u>the Washington Department of Fish and Wildlife and the Director of the Washington Department of Health. This prohibition does not apply to: Pacific, Olympia, Kumomoto, Belon or Virginica oysters; Manila, Butter, or Littleneck clams; or Geoduck clams.

5. No aquacultural processing, except for the sorting or culling of the cultured organism and the washing or removal of surface materials or organisms, shall be permitted waterward of the <u>OHWM</u>ordinary high water mark unless fully contained within a tending boat or barge.

6. Aquaculture wastes shall be disposed of in a manner that will ensure compliance with all applicable governmental waste disposal standards, including but not limited to the Federal Clean Water Act, Section 401, and Chapter 90.48 RCW, Water Pollution Control, as amended from time to time. No garbage, wastes, or debris shall be allowed to accumulate at the site of any aquaculture operation.

20.230.120 Parking areas.

A. Parking Area Policies.

- 1. Parking in shoreline areas should be minimized.
- 2. Parking within shoreline areas should directly serve a permitted use on the property.

3. Parking in shoreline areas should be located and designed to minimize adverse impacts including those related to stormwater runoff, water quality, visual qualities, public access, and vegetation and habitat maintenance.

4. Landscaping should consist of native vegetation in order to enhance the habitat opportunities within the shorelines area.

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B. **Parking Regulations.** Parking for specific land use activities within the City-of Shoreline is subject to the requirements and standards set forth in Chapter 20.50 SMC, Subchapter 6, Parking, Access, and Circulation. In addition, the following parking requirements shall apply to all developments within shorelands:

1. The location of parking areas in or near shoreland areas shall be located outside of the minimum setbacks listed in Table 20.230.082 for the shoreline designation.

2. Parking in the shorelands must directly serve an approved shoreline use.

3. Parking shall be located on the landward side of the development unless parking is contained within a permitted structure. Where there is no available land area on the landward side of the development, parking shall extend no closer to the shoreline than a permitted structure.

4. Landscape screening is required between the parking area and all adjacent shorelines and properties as set forth in Chapter 20.50 SMC, Subchapter 7 Landscaping.

5. The landscape screening for parking areas located within the shoreline areas shall consist of native vegetation, planted prior to final approval of project, which provides effective screening two years after planting. Adequate screening or landscaping for parking lots shall consist of one or more of the following:

a. A strip five feet wide landscaped with trees, shrubs, and/or groundcover;

b. A building or enclosed structure; and/or

c. A strip of land not less than two and one-half feet in width that is occupied by a continuous wall, fence, plant material, or combination of both; which shall be at least three and one-half feet high at time of installation. The plant material shall be evergreen and spaced not more than one and one-half feet on center if pyramidal in shape, or not more than three feet if wider in branching habit. If the plant material is used in conjunction with a wall or fence meeting the minimum height requirements, then said material may be of any kind and spacing. More restrictive screening may be required by Chapter 20.50 SMC, Subchapters 6 and 7. Required parking area screening may be incorporated into general landscaping requirements under Chapter 20.50 SMC, Subchapters 6 and 7.

6. The requirement for screening may be waived by the Director, where screening would obstruct a significant view from public property or public roadway.

7. Parking areas shall not be permitted over the water.

8. Parking as a primary use shall be prohibited within all shoreline environments.

9. Parking or storage of recreational vehicles or travel trailers as a primary use shall be prohibited in all shoreline environments.

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20.230.130 Recreational facilities.

Recreational development provides for low impact activities, such as hiking, photography, kayaking, viewing, and fishing, or more intensive uses such as parks. This section applies to both publicly and privately owned shoreline facilities.

A. Recreational Facilities Policies.

1. The coordination of local, State, and Federal recreation planning should be encouraged so as to mutually satisfy recreational needs. Shoreline recreational developments should be consistent with all adopted parks, recreation, and open space plans.

2. Parks, recreation areas, and public access points, such as hiking paths, bicycle paths, and scenic drives, should be linked.

3. Recreational developments should be located and designed to preserve, enhance, or create scenic views and vistas.

4. The use of jet-skis and similar recreational equipment should be restricted to special areas. This type of activity should be allowed only where no conflict exists with other uses and wildlife habitat.

5. All recreational developments should make adequate provisions for:

a. Vehicular and pedestrian access, both on site and off site;

b. Proper water, solid waste, and sewage disposal methods;

c. Security and fire protection for the use itself and for any use-related impacts to adjacent private property;

d. The prevention of overflow and trespass onto adjacent properties; and

e. Buffering of such development from adjacent private property or natural areas.

B. Recreational Facilities Regulations.

1. Valuable shoreline resources and fragile or unique areas, such as wetlands and accretion shoreforms, shall be used only for low impact and nonstructural recreation activities.

2. For recreation developments that require the use of fertilizers, pesticides, or other chemicals, the property owner shall submit plans demonstrating the methods to be used to prevent these chemical applications and resultant leachate from entering adjacent water bodies. The property owner shall be required to maintain a chemical-free swath at least 100 feet in depth adjacent to water bodies.

3. Recreational facilities shall make adequate provisions, such as screening, buffer strips, fences, and signs, to mitigate nuisance to nearby private properties.

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4. No recreational buildings or structures shall be built waterward of the OHWM, except waterdependent and/or water enjoyment structures such as bridges and viewing platforms. Such uses may be permitted as a shoreline conditional use.

5. Proposals for recreational development shall include adequate facilities for water supply, sewage, and garbage disposal.

20.230.140 Residential development.

A. 1. Residential development does not include hotels, motels, or any other type of overnight or transient housing or camping facilities.

2. A shoreline substantial development permit is not required for construction of a singlefamily residence by an owner, lessee, or contract purchaser for their own use or the use of their family. Single-family residential construction and accessory structures must otherwise conform to this Shoreline-Master Program.

3. A shoreline variance or shoreline conditional use permit may be required for residential development for situations specified in the this Shoreline-Master Program.

4. Uses and facilities associated with residential development, which are identified as separate use activities in this Shoreline-Master Program, such as land disturbing activities, are subject to the regulations established for those uses in this section.

B. Residential Policies.

1. Public access should be provided in accordance with SMC 20.230.040.

2. Residential development and accessory uses should be prohibited over the water.

3. New subdivisions should be encouraged to cluster dwelling units in order to preserve natural features, minimize physical impacts, and provide for public access to the shoreline.

4. In all new subdivisions and detached single-family developments with four dwelling units, joint use shoreline facilities should be encouraged.

5. Accessory uses and structures should be designed and located to blend into the site as much as possible. Accessory uses and structures should be located landward of the principal residence when feasible.

C. Residential Regulations.

1. Residential development is prohibited waterward of the OHWM and within setbacks defined for each shoreline environment designation.

2. Residential development shall assure no net loss of shoreline ecological functions.

3. Residential development shall not be approved if geotechnical analysis demonstrates that flood control or shoreline protection measures are necessary to create a residential lot or site

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area. Residential development shall be located and designed to avoid the need for structural shore defense and flood protection works.

4. If wetlands or other critical areas are located on the development site, clustering of residential units shall be required in order to avoid impacts to these areas.

5. Storm drainage facilities shall include provisions to prevent the direct entry of uncontrolled and untreated surface water runoff into receiving waters as specified in the Stormwater Manual.

6. Subdivisions and planned unit developments of four waterfront lots/units shall dedicate, improve, and provide maintenance provisions for a pedestrian easement that provides area sufficient to ensure usable access to and along the shoreline for all residents of the development and the general public. When required, public access easements shall be a minimum of 25 feet in width and shall comply with the public access standards in SMC 20.230.040. The design shall conform to the standards in the Engineering Development Manual.

7. Single-family residential development shall maintain a minimum setback from the OHWM consistent with Table 20.230.082.

8. Multifamily residential development shall maintain a minimum setback from the OHWM consistent with Table 20.230.082.

9. One accessory structure to the residence may be placed within the required shoreline setback provided:

a. No accessory structure shall cover more than 200 square feet.

Subchapter 3.

Shoreline Modification Policies and Regulations

20.230.150 General.

Shoreline modification involves developments that provide bank stabilization or flood control. The purpose of the modification is to reduce adverse impacts caused by natural processes, such as current, flood, tides, wind, or wave action. Shoreline modification includes all structural and nonstructural means to reduce flooding and/or erosion of banks.

Nonstructural methods include setbacks of permanent and temporary structures, relocation of the structure to be protected, ground water management, planning, bioengineering or "soft" engineered solutions, and regulatory measures to avoid the need for structural stabilization. "Hard" structural stabilization measures refer to those with solid, hard surfaces, such as concrete bulkheads, while "soft" structural measures rely on natural materials such as biotechnical vegetation or beach enhancement. Generally, the harder the construction measure,

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the greater the impact on shoreline processes, including sediment transport, geomorphology, and biological functions. New structural shoreline stabilization also often results in vegetation removal, as well as damage to nearshore habitat and shoreline corridors. There are a range of measures varying from soft to hard that include:

- Vegetation enhancement.
- Upland drainage control.
- Biotechnical measures.
- Beach enhancement.
- Anchor trees.
- Gravel placement.
- Rock revetments.
- Gabions.
- Concrete groins.
- Retaining walls and bluff walls.
- Bulkheads.

A. Shoreline Modification Policies – General.

1. Biostabilization and other bank stabilization measures should be located, designed, and constructed primarily to prevent damage to the existing primary structure.

2. All new development should be located and designed to prevent or minimize the need for shoreline stabilization measures and flood protection works. New development requiring shoreline stabilization shall be discouraged in areas where no preexisting shoreline stabilization is present.

3. Shoreline modifications are only allowed for mitigation or enhancement purposes, or when and where there is a demonstrated necessity to support or protect an existing primary structure or legally existing shoreline use that is otherwise in danger of loss or substantial damage.

4. Proposals for shoreline modifications should be designed to protect life and property without impacting shoreline resources.

5. Shoreline modifications that are natural in appearance, compatible with ongoing shoreline processes, and provide flexibility for long-term management, such as protective berms or vegetative stabilization, should be encouraged over structural means such as concrete bulkheads or extensive revetments, where feasible.

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6. Structural solutions to reduce shoreline damage should be allowed only after it is demonstrated that nonstructural solutions would not be able to withstand the erosive forces of the current and waves.

7. The design of bank stabilization or protection works should provide for the long-term, multiple use of shoreline resources and public access to public shorelines.

8. In the design of publicly financed or subsidized works, consideration should be given to providing pedestrian access to shorelines for low impact outdoor recreation.

9. All flood protection measures should be placed landward of the natural flood boundary, including wetlands that are directly interrelated and interdependent with water bodies.

10. If through construction and/or maintenance of shoreline modification developments, the loss of vegetation and wildlife habitat will occur, mitigation should be required.

11. Existing, previously permitted stabilization measures, such as bulkheads and retaining walls, are considered engineered and abated hazards and shall not be classified as geologic hazard areas.

B. Shoreline Modification Regulations – General.

1. All new development, uses or activities within the shoreline area shall be located and designed to prevent or minimize the need for bank stabilization and flood protection works.

2. Permitted and shoreline conditional use requirements for bulkheads and revetments are specified in this chapter. All other forms of shoreline modification, except soft shore, must be approved as a shoreline conditional use within all shoreline environments.

3. All shoreline stabilization proposals require a geotechnical analysis.

4. All shoreline development and activity shall be located, designed, constructed, and managed in a manner that mitigates impacts to the environment. The preferred mitigation sequence (avoid, minimize, mitigate, compensate) shall follow that listed in <u>SMC</u> <u>20.230.020(A)WAC 173-26-201(2)(e)</u>.

5. New non-water-dependent development, including single-family residences, that includes structural shoreline stabilization shall not be allowed unless all of the conditions below apply, otherwise new stabilization measures are limited to protecting only existing developments:

a. The need to protect the development from destruction due to erosion caused by natural processes, such as currents and waves, is demonstrated through a geotechnical/hydrogeological report prepared by a City-approved qualified professional.

b. The erosion is not caused by upland conditions, such as the loss of vegetation and/or drainage issues.

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c. There will be no net loss of shoreline ecological functions or impacts to adjacent or downcurrent properties.

d. Nonstructural measures, such as placing the development further from the shoreline, planting vegetation, or installing on-site drainage improvements and soft structural solutions such as bioengineering, are not feasible or not sufficient.

e. The structure will not cause adverse impacts to the functions and values of critical areas or properly functioning conditions for proposed, threatened, and endangered species.

f. Other mitigation/restoration measures are included in the proposal.

6. Upon project completion, all disturbed shoreline areas shall be restored to as near preproject configuration as possible and replanted with appropriate vegetation. All losses in riparian vegetation or wildlife habitat shall be mitigated at a ratio of 1:1.25 (habitat lost to habitat replaced).

7. Shoreline stabilization and flood protection works are prohibited in wetlands and on point and channel bars. They are also prohibited in fish spawning areas.

8. Developments shall not reduce the volume and storage capacity of streams and adjacent wetlands or flood plains.

9. Use of refuse for the stabilization of shorelines is prohibited.

20.230.160 Dredging and disposal of dredging spoils.

A. Dredging and Dredge Spoil Policies.

1. Dredging waterward of the <u>OHWMordinary high water mark</u> for the primary purpose of obtaining fill material is prohibited.

2. Dredging operations should be planned and conducted to minimize interference with navigation; avoid creating adverse impacts on other shoreline uses, properties, and ecological shoreline functions and values; and avoid adverse impacts to habitat areas and fish species.

3. Dredge spoil disposal in water bodies shall be prohibited except for habitat improvement.

4. Dredge spoil disposal on land should occur in areas where environmental impacts will not be significant.

B. Dredging and Dredge Spoil Regulations.

1. Dredging and dredge spoil disposal shall be permitted only where it is demonstrated that the proposed actions will not:

a. Result in significant damage to water quality, fish, and other essential biological elements;

b. Adversely alter natural drainage and circulation patterns, currents, or reduce floodwater capacities;

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c. Adversely impact properly functioning conditions for proposed, threatened, or endangered species; or

d. Adversely alter functions and values of the shoreline and associated critical areas.

2. Proposals for dredging and dredge spoil disposal shall include all feasible mitigating measures to protect habitats and to minimize adverse impacts such as turbidity; release of nutrients, heavy metals, sulfides, organic materials, or toxic substances; depletion of oxygen; disruption of food chains; loss of benthic productivity; and disturbance of fish runs and/or important localized biological communities.

3. Dredging and dredge spoil disposal shall not occur in wetlands unless for approved maintenance or enhancement associated with a restoration project.

4. Dredging within the shorelines shall be permitted only:

a. For navigational purposes; or

b. For activities associated with shoreline or aquatic restoration or remediation.

5. When dredging is permitted, the dredging shall be the minimum necessary to accommodate the proposed use.

6. Dredging shall utilize techniques that cause minimum dispersal and broadcast of bottom material; hydraulic dredging shall be used wherever feasible in preference to agitation dredging.

7. Dredge material disposal shall be permitted in shoreline jurisdiction only as part of an approved shoreline habitat and natural systems enhancement, fish habitat enhancement or watershed restoration project.

8. Dredged spoil material may be disposed at approved upland sites. If these upland sites are dry lands and fall within shoreline jurisdiction, the disposal of dredge spoils shall be considered landfilling and must be consistent with all applicable provisions of the Master Program. Depositing dredge spoils within the Puget Sound shall be allowed only by shoreline conditional use for one of the following reasons:

a. For wildlife habitat improvements; or

b. To correct problems of material distribution that are adversely affecting fish resources.

9. If suitable alternatives for land disposal are not available or are infeasible, water disposal sites may be permitted by appropriate agencies, provided the sites are determined by the Director to be consistent with the following criteria:

a. Disposal will not interfere with geohydraulic processes;

b. The dredge spoil has been analyzed by a qualified professional and found to be minimally or nonpolluting;

c. Aquatic life will not be adversely affected; and

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d. The site and method of disposal meet all requirements of applicable regulatory agencies.

10. Disposal of dredge material shall be done in accordance with the Washington State <u>Department of Natural Resources (DNR)</u> Dredge Material Management Program. DNR manages disposal sites through a site use authorization (SUA); all other required permits must be provided to DNR prior to the DNR issuing a SUA for dredge disposal.

11. The City may impose reasonable limitations on dredge spoil disposal operating periods and hours, and may require buffer strips at land disposal sites.

20.230.170 Piers and docks.

Piers and docks may be allowed in accordance with Table 20.230.081 only when the following conditions are met:

A. The public's need for piers and docks is clearly demonstrated, and the proposal is consistent with protection of the public trust, as embodied in RCW 90.58.020, as amended from time to time.

B. Avoidance of impacts to critical saltwater habitats by an alternative alignment or location is not feasible, or would result in unreasonable and disproportionate cost to accomplish the same general purpose.

C. The project, including any required mitigation, will result in no net loss of ecological functions associated with critical saltwater habitat.

D. The project is consistent with the State's interest in resource protection and species recovery.

E. Private, noncommercial docks for joint or community use may be authorized; provided, that:

1. Avoidance of impacts to critical saltwater habitats by an alternative alignment or location is not feasible; and

2. The project, including any required mitigation, will result in no net loss of ecological functions associated with critical saltwater habitat.

F. An inventory of the site and adjacent beach sections to assess the presence of critical saltwater habitats and functions is required. The methods and extent of the inventory shall be consistent with accepted research methodology. Proposals will be evaluated using <u>the</u> Department of Ecology technical assistance materials for guidance.

G. Community moorage to serve new development shall be limited to the amount of moorage needed to serve lots with water frontage; provided, that a limited number of upland lots may also be accommodated. Applications for shared moorage shall demonstrate that mooring buoys are not feasible prior to approval of dock moorage.

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H. Piers and docks shall be constructed of materials that will not adversely affect water quality or aquatic plants and animals over the long term. Materials used for submerged portions of a pier or dock, decking, and other components that may come in contact with water shall be approved by applicable State agencies for use in water to avoid discharge of pollutants from wave splash, rain, or runoff. At a minimum, piles, floats, or other structural members in direct contact with the water shall be constructed of concrete or steel in accordance with <u>best</u> <u>management practices (BMPs)</u> published by the Washington Department of Fish and Wildlife (WDFW) and the United States Army Corps of Engineers (USACE), and they shall not be treated or coated with herbicides, fungicides, paint, or pentachlorophenol. Use of arsenate compounds or creosote is prohibited.

I. Pilings used in piers or docks shall have a minimum clearance of two feet above extreme high tide and a maximum clearance of five feet above the OHWM. Floats shall not rest on the substrate.

J. To minimize adverse effects on nearshore habitats and species caused by over-water structures that reduce ambient light levels, the following shall apply:

1. The width of docks, piers, floats, and lifts shall be the minimum necessary, and shall not be wider than six feet;

2. The length of docks and piers shall be the minimum necessary to prevent the grounding of floats and boats on the substrate during low tide;

3. Docks floats or floating docks shall include stops that serve to keep the float bottom off tidelands at low tide;

4. The length and location of docks, piers, floats, and lifts pilings shall be designed using the BMPs as conditioned in the permitting documents approved by WDFW and USACE; and

5. The size of shared docks or piers is limited to 700 square feet for two lots and 1,000 square feet for three or more lots.

K. All new piers or docks must be fully grated. Grating to allow light passage or reflective panels to increase light refraction into the water shall be used on piers, docks, floats and gangways in nearshore areas. Decking shall have a minimum open space of 40 percent and after installation at least 60 percent ambient light beneath the structure shall be maintained.

20.230.175 Pier and dock repair, replacement, or expansion.

A. Existing over-water structures may be repaired and/or replaced in the same location as the existing structure.

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B. Repair or replacement of 50 percent or more of an existing over-water deck structure shall include the replacement of the entire decking with grated material to achieve a minimum open space of 40 percent and shall result in at least 60 percent ambient light beneath the structure.

C. Repair or replacement of less than 50 percent of the over-water deck structure shall use grated decking in the area to be replaced. If the cumulative repair in any three-year period exceeds 50 percent, the entire decking shall be replaced to achieve a minimum open space of 40 percent and shall result in at least 60 percent ambient light beneath the structure.

D. Repair or replacement of structural members in contact with the water shall be constructed of concrete or steel in accordance with BMPs published by WDFW and USACE and they shall not be treated or coated with herbicides, fungicides, paint, or pentachlorophenol. Use of arsenate compounds or creosote is prohibited.

E. Expansion of existing over-water structures is prohibited.

F. Other repairs not described in this section to existing legally established structures are considered minor and may be permitted consistent with all applicable regulations.

20.230.180 Bulkheads.

Bulkheads are walls usually constructed parallel to the shore, whose primary purpose is to contain and prevent the loss of soil by erosion, wave, or current action. Bulkheads are typically constructed of poured-in-place concrete; steel or aluminum sheet piling; wood; or wood and structural steel combinations.

The Washington State <u>SMA</u>Shoreline Management Act only exempts the construction of a normal protective bulkhead associated with an existing single-family residence from the shoreline substantial development permit requirement. However, these structures are required to comply with all the policies and development standards of this Shoreline-Master Program.

A. Bulkhead Policies.

1. Bulkheads constructed from natural materials, such as protective berms, beach enhancement, or vegetative stabilization, are strongly preferred over structural bulkheads constructed from materials such as steel, wood, or concrete. Proposals for bulkheads should demonstrate that natural methods are unworkable.

2. Bulkheads should be located, designed, and constructed primarily to prevent damage to the existing primary structure. New development that requires bulkheads is not permitted except as specifically provided under this Master Program.

3. Shoreline uses should be located in a manner so that a bulkhead is not likely to become necessary in the future.

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4. Bulkheads should not be approved as a solution to geophysical problems such as mass slope failure, sloughing, or landslides. Bulkheads should only be approved for the purposes of preventing bank erosion by the Puget Sound.

B. Bulkhead Regulations.

1. New bulkheads may be allowed only when evidence is presented which demonstrates that one of the following conditions exists:

a. Serious erosion threatens an established use or existing primary structure on upland property.

b. Bulkheads are necessary to the operation and location of water-dependent, water-related, or water enjoyment activities consistent with this Shoreline-Master Program; provided, that all other alternative methods of shore protection have proven infeasible; and/or

c. A bulkhead is necessary to retain landfilling that has been approved consistent with the provisions of thise Master Program.

2. Proposals for bulkheads must first demonstrate through a geotechnical analysis that use of natural materials and processes and nonstructural or soft structural solutions to bank stabilization are not feasible.

3. The construction of a bulkhead for the primary purpose of retaining landfilling shall be allowed only in conjunction with:

a. A water-dependent use;

b. A bridge or navigational structure for which there is a demonstrated public need and where no feasible upland sites, design solutions, or routes exist; and/or

c. A wildlife or fish enhancement project.

4. Bulkheads shall not be located on shorelines where valuable geohydraulic or biological processes are sensitive to interference. Examples of such areas include wetlands and accretion landforms.

5. Bulkheads are to be permitted only where local physical conditions, such as foundation bearing materials, and surface and subsurface drainage, are suitable for such alterations.

6. If possible, bulkheads shall be located landward of the OHWM and generally parallel to the natural shoreline. In addition:

a. Where no other bulkheads are adjacent, the construction of a bulkhead shall be as close to the eroding bank as possible and in no case shall it be more than three feet from the toe of the bank;

b. A bulkhead for permitted landfilling shall be located at the toe of the fill; and

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c. Where permitted, a bulkhead must tie in flush with existing bulkheads on adjoining properties, except where the adjoining bulkheads extend waterward of the base flood elevation, the requirements set forth in this section shall apply.

7. Replacement bulkheads may be located immediately waterward of the bulkhead to be replaced such that the two bulkheads will share a common surface, except where the existing bulkhead has not been backfilled or has been abandoned and is in serious disrepair. In such cases, the replacement bulkhead shall not encroach waterward of the OHWM or existing structure unless the residence was occupied prior to January 1, 1992, and there are overriding safety or environmental concerns.

8. All bulkhead proposals require a geotechnical report prepared by a qualified professional. Bulkheads shall be sited and designed as recommended in approved geotechnical reports. For the waterfront residential environment designation, one geotechnical report could be prepared for multiple properties.

9. When a bulkhead is required at a public access site, provision for safe access to the water shall be incorporated into bulkhead design.

10. Bulkheads shall be designed for the minimum dimensions necessary to adequately protect the development.

11. Stairs or other permitted structures may be built into a bulkhead but shall not extend waterward of the bulkhead, unless they are retractable or removable.

12. Bulkheads shall be designed to permit the passage of surface or ground water without causing ponding or saturation of retained soil/materials.

13. Adequate toe protection consisting of proper footings, a fine retention mesh, etc., shall be provided to ensure bulkhead stability without relying on additional riprap.

14. Materials used in bulkhead construction shall meet the following standards:

a. Bulkheads shall utilize stable, nonerodible, homogeneous materials such as concrete, wood, and rock that are consistent with the preservation and protection of the ecological habitat;

b. Dredge spoils shall not be used for fill behind bulkheads, except clean dredge spoil from a permitted off-site dredge and fill operation; and

c. Backfill and wave returns to stabilize bulkheads are permitted.

20.230.190 Revetment.

A revetment is a sloped shoreline structure built to protect an existing eroding shoreline or newly placed fill against currents. Revetments are most commonly built of randomly placed boulders (riprap) but may also be built of sand cement bags, paving or building blocks, gabions (rock

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filled wire baskets), or other systems and materials. The principal features of a revetment, regardless of type, is a heavy armor layer, a filter layer, and toe protection.

A. Revetment Policies.

1. The use of armored structural revetments should be limited to situations where it is determined that nonstructural solutions such as bioengineering, setbacks, buffers or any combination thereof, will not provide sufficient shoreline stabilization.

2. Revetments should be designed, improved, and maintained to provide public access whenever possible.

B. Revetment Regulation.

1. The proposed revetment shall be designed by a qualified professional engineer.

2. Design of revetments shall include and provide improved access to public shorelines whenever possible.

3. When permitted, the location and design of revetments shall be determined using engineering principles, including guidelines of the U.S. Soil Conservation Service and USACE.

4. Armored revetment design shall meet the following design criteria:

a. The size and quantity of the material shall be limited to only that necessary to withstand the estimated energy intensity of the hydraulic system;

b. Filter fabric must be used to aid drainage and help prevent settling;

c. The toe reinforcement or protection must be adequate to prevent a collapse of the system from scouring or wave action; and

d. Fish habitat components, such as large boulders, logs, and stumps, shall be considered in the design subject to a Hydraulic Project Approval by <u>WDFW</u>the Washington Department of Fish and Wildlife.

20.230.200 Land disturbing activities.

A. Land Disturbing Activity Policies.

1. Land disturbing activities should only be allowed in association with a permitted shoreline development.

2. Land disturbing activities should be limited to the minimum necessary to accommodate the shoreline development or a landscape plan developed in conjunction with the shoreline development.

3. Erosion shall be prevented and sediment shall not enter waters of the State.

B. Land Disturbing Activity Regulations.

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1. All land disturbing activities shall only be allowed in association with a permitted shoreline development.

2. All land disturbing activities shall be limited to the minimum necessary for the intended development, including any clearing and grading approved as part of a landscape plan. Clearing invasive, nonnative shoreline vegetation listed on the King County Noxious Weed List is permitted in the shoreline area with an approved clearing and grading permit provided best management practices are used as recommended by a qualified professional, and native vegetation is promptly reestablished in the disturbed area.

3. Tree and vegetation removal shall be prohibited in required native vegetation conservation areas, except as necessary to restore, mitigate or enhance the native vegetation by approved permit as required in these areas.

4. All significant trees in the native vegetation conservation areas shall be designated as protected trees consistent with SMC 20.50.330 and removal of hazard trees must be consistent with SMC 20.50.310(A)(1).

5. All shoreline development and activities shall use measures identified in the <u>2014</u> <u>Department of Ecology</u> Stormwater <u>Management</u> Manual <u>for Western Washington, or as</u> <u>revised</u>. Stabilization of exposed surfaces subject to erosion along shorelines shall, whenever feasible, utilize soil bioengineering techniques.

6. For extensive land disturbing activities that require a permit, a plan addressing species removal, revegetation, irrigation, erosion and sedimentation control, and other methods of shoreline protection should be required.

20.230.210 Landfilling.

A. Landfilling Policies.

1. The perimeter of landfilling should be designed to avoid or eliminate erosion and sedimentation impacts, during both initial landfilling activities and over time.

2. Where permitted, landfilling should be the minimum necessary to provide for the proposed use and should be permitted only when conducted in conjunction with a specific development proposal that is permitted by the this Shoreline-Master Program. Speculative landfilling activity should be prohibited.

B. Landfilling Regulations.

1. Landfilling activities shall only be permitted in conjunction with a specific development. Landfilling may be permitted as a shoreline conditional use for any of the following:

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a. In conjunction with a water-dependent use permitted under this Shoreline-Master Program; and/or

b. In conjunction with a bridge, utility, or navigational structure for which there is a demonstrated public need and where no feasible upland sites, design solutions, or routes exist.

2. Pier or pile supports shall be utilized in preference to landfilling. Landfilling for approved road development in floodways or wetlands shall be permitted only if pile or pier supports are proven structurally infeasible.

3. Landfilling shall be permitted only where it is demonstrated that the proposed action will not:

a. Result in significant damage to water quality, fish, and/or wildlife habitat; or

b. Adversely alter natural drainage and current patterns or significantly reduce floodwater capacities.

4. Where landfilling activities are permitted, the landfilling shall be the minimum necessary to accommodate the proposed use.

5. Landfilling from dredging and dredge material disposal shall be done in a manner that avoids or minimizes significant ecological impacts. Impacts that cannot be avoided shall be mitigated in a manner that assures no net loss of shoreline ecological functions.

6. Dredging waterward of the OHWM for the primary purpose of obtaining fill material shall not be allowed, except when the material is necessary for the restoration of shoreline ecological functions. When allowed, the site where the fill is to be placed must be located waterward of the OHWM.

7. Landfilling shall be designed, constructed, and maintained to prevent, minimize, and control all material movement, erosion, and sedimentation from the affected area. Landfilling perimeters shall be designed and constructed with silt curtains, vegetation, retaining walls, or other mechanisms to prevent material movement. In addition, the sides of the landfilling shall be appropriately sloped to prevent erosion and sedimentation, during both the landfilling activities and afterwards.

8. Fill materials shall be clean sand, gravel, soil, rock, or similar material. Use of polluted dredge spoils and sanitary landfilling materials are prohibited. The property owner shall provide evidence that the material has been obtained from a clean source prior to fill placement.

9. Landfilling shall be designed to allow surface water penetration into aquifers, if such conditions existed prior to the fill.

20.230.230 Signs.

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A. **Sign Policies.** Signs should be designed and placed so that they are compatible with the natural quality of the shoreline environment and adjacent land and water uses.

B. **Sign Regulations.** Signs within the City, including the shoreline area, are subject to the requirements and standards specified in Chapter 20.50 SMC, Subchapter 8. Signs are based on the underlying zoning. In addition, the following sign requirements shall apply to signs within shoreline areas:

1. Signs shall only be allowed in or over water for navigation purposes; at road or railroad crossings as necessary for operation, safety and direction; or as related and necessary to a water-dependent use.

2. Signs are permitted in all shoreline environments upland of the OHWM. These sign standards supplement the provisions of SMC 20.50.530 to 20.50.610. Where there is a conflict, the provisions herein shall apply.

C. Prohibited Signs.

1. All prohibited signs per SMC 20.50.550.

2. Balloons, any inflatable signs, or inflatable objects used to aid in promoting the sale of products, goods, services, events, or to identify a building.

3. Searchlights and beacons.

4. Electronic reader boards or changing message signs.

- 5. Neon signs.
- 6. Pole signs.
- 7. Backlit awnings used as signs.
- 8. Internally illuminated signs, except as allowed in subsection (D)(1) of this section.

9. Signs that impair visual access from public viewpoints in view corridors are prohibited in all shoreline environments.

D. Illumination of Signs.

1. Illumination of signs is only allowed as permitted by the underlying zoning.

2. Internal illumination of signs is only allowed with light provided by LED or other Energy Star rated luminaires, and is limited to:

a. Opaque cabinet signs where light only shines through the letters, not including symbols, images, or background; or

b. Shadow lighting, where letters are backlit, but light only shines through the edges of the letters.

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3. All externally illuminated signs shall shield nearby properties from direct lighting. Light source must be within a maximum of six feet from the sign display, and limited to LED or other Energy Star rated luminaires.

4. No commercial sign shall be illuminated after 11:00 p.m. unless the commercial enterprise is open for business, and then may remain on only as long as the business is open.

5. The light from any illuminated sign shall be shaded, shielded or directed so that the light intensity or brightness shall not adversely affect:

a. Surrounding or facing premises;

b. Safe vision of operators of vehicles on public or private roads, highways, or parking areas; or

c. Safe vision of pedestrians on a public right-of-way.

6. Light from any sign shall not shine on, nor directly reflect into, residential structures, lots, or the water.

7. These provisions shall not apply to:

a. Lighting systems owned or controlled by any public agency for the purpose of directing or controlling navigation, traffic, and highway or street illumination;

b. Aircraft warning lights;

c. Temporary lighting used for repair or construction as required by governmental agencies; or

d. Temporary use of lights or decorations relating to religious or patriotic festivities.

20.230.240 Stormwater management facilities.

A. Stormwater Management Facilities Policies.

1. Stormwater facilities located in the shoreland area should be maintained only to the degree necessary to ensure the capacity and function of the facility, including the removal of nonnative, invasive plant species.

2. The stormwater facility should be planted with native vegetation.

B. Stormwater Management Facility Regulations.

1. New stormwater facilities shall be located so as not to require any shoreline protection works.

2. Stormwater facility development shall include public access to the shoreline, trail systems, and other forms of recreation, providing such uses will not unduly interfere with stormwater facility operations, endanger the public health, safety, and welfare, or create a significant and disproportionate liability for the owner.

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3. Construction of stormwater facilities in shoreland areas shall be timed to avoid fish and/or wildlife migratory and spawning periods.

20.230.250 Transportation.

Transportation facilities are those structures and developments that aid in land and water surface movement of people, goods, and services. They include roads and highways, bridges and causeways, bikeways, trails, railroad facilities, and boat and floatplane terminals.

A. Transportation Policies.

1. New roads within the shoreline area should be minimized.

2. Roads and railroad locations should be planned to fit the topographical characteristics of the shoreline such that alteration of natural conditions is minimized.

3. Pedestrian and bicycle trails should be encouraged.

4. When existing transportation corridors are abandoned they should be reused for waterdependent use or public access.

5. Alternatives to new roads or road expansion in the shoreline area should be considered as a first option.

6. Joint use of transportation corridors within shoreline jurisdiction for roads, utilities, and motorized forms of transportation should be encouraged.

7. New roads should be designed to accommodate bicyclists, pedestrians and transit, where feasible.

B. Transportation Regulations.

1. Transportation facilities and services shall utilize existing transportation corridors wherever possible, provided the shoreline is not adversely impacted and the development is otherwise consistent with this Shoreline-Master Program.

2. Transportation and primary utilities shall jointly use rights-of-way.

3. Landfilling activities for transportation facility development are prohibited in wetlands and on accretion beaches, except when all structural and upland alternatives have proven infeasible, and the transportation facilities are necessary to support uses consistent with this Shoreline Master Program.

4. Major new roads and railways shall avoid being located in the shoreline jurisdiction to the extent practical. These roads shall cross shoreline areas by the shortest, most direct route, unless this route would cause more damage to the environment.

5. New transportation facilities shall be located and designed to minimize or prevent the need for shoreline modification.

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6. All bridges must be built high enough to allow the passage of debris, and provide three feet of clearance above the base flood elevation.

7. Shoreline transportation facilities shall be located and designed to avoid steep or unstable areas and fit the existing topography in order to minimize cuts and fills.

8. Bridge abutments and necessary approach fills shall be located landward of the OHWM, except bridge piers may be permitted in a water body as a shoreline conditional use.

20.230.260 Unclassified uses and activities.

In the event that a proposed shoreline use or activity is not identified or classified in this Shoreline-Master Program, the following regulation shall apply.

A. Regulations. All uses and activities proposed in the shoreline area that are not classified by provisions in this Shoreline-Master Program shall require a shoreline conditional use permit.

20.230.270 Utilities.

Primary utilities include substations, pump stations, treatment plants, sanitary sewer outfalls, electrical transmission lines greater than 55,000 volts, water, sewer or storm drainage mains greater than eight inches in diameter, gas and petroleum transmission lines, and submarine telecommunications cables. Accessory utilities include local public water, electric, natural gas distribution, public sewer collection, cable and telephone service, and appurtenances.

A. Utility Policies.

1. Utilities should utilize existing transportation and utility sites, rights-of-way, and corridors whenever possible. Joint use of rights-of-way and corridors should be encouraged.

2. Unless no other feasible alternative exists, utilities should be prohibited in the shoreline jurisdiction, wetlands, and other critical areas. There shall be no net loss of ecological functions or significant impacts to other shoreline resources or values.

3. New utility facilities should be located so as not to require extensive shoreline modifications.

4. Whenever possible, utilities should be placed underground or alongside or under bridges.

5. Solid waste disposal activities and facilities should be prohibited in shoreline areas.

B. Utility Regulations.

1. Utility development shall provide for compatible, multiple use of sites and rights-of-way when practical.

2. Utility development shall include public access to the shoreline, trail systems, and other forms of recreation, providing such uses will not unduly interfere with utility operations,

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endanger the public health, safety, and welfare, or create a significant and disproportionate liability for the owner.

3. The following primary utilities, which are not essentially water-dependent, may be permitted as a shoreline conditional use if it can be shown that no reasonable alternative exists:

a. Water system treatment plants;

b. Sewage system lines, interceptors, pump stations, and treatment plants;

c. Electrical energy generating plants, substations, lines, and cables; or

d. Petroleum and gas pipelines.

4. New solid waste disposal sites and facilities are prohibited.

5. New utility lines including electricity, communications, and fuel lines shall be located underground, except where the presence of bedrock or other obstructions make such placement infeasible.

6. Transmission and distribution facilities shall cross shoreline areas by the shortest, most direct route feasible, unless such route would cause increased environmental damage.

7. Utilities requiring withdrawal of water shall be located only where minimum flows as established by <u>WDFW</u>the Washington State Department of Fish and Wildlife can be maintained.

8. Utilities shall be located and designated so as to avoid the use of any structural or artificial shoreline modification.

9. All underwater pipelines are prohibited. If no other alternative exists, a shoreline conditional use permit is required.

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Attachment A, Exhibit B

Proposed revisions to Shoreline Municipal Code (SMC) language in legislative format -Chapter 20.240

Chapter 20.240 SMP Critical Areas Regulations

Sections:

Subchapter 1. Critical Areas – General Provisions

- 20.240.010 Purpose.
- 20.240.015 Applicability.
- 20.240.020 Relationship to other regulations.
- 20.240.025 Critical areas maps.
- 20.240.040 Allowed activities.
- 20.240.045 Critical areas preapplication meeting.
- 20.240.050 Alteration of critical areas.
- 20.240.053 Mitigation requirements.
- 20.240.056 Voluntary critical area restoration projects.
- 20.240.060 Best available science.
- 20.240.070 Classification and rating of critical areas.
- 20.240.080 Critical area report Requirements.
- 20.240.082 Mitigation plan requirements.
- 20.240.085 Pesticides, herbicides and fertilizers on City-owned property.

20.240.090 Buffer areas.

- 20.240.100 Notice to title.
- 20.240.110 Permanent field marking.
- 20.240.120 Financial guarantee requirements.
- 20.240.130 Unauthorized critical area alterations.

Subchapter 2. Geologic Hazard Areas

- 20.240.210 Geologic hazards Designation and purpose.
- 20.240.220 Geologic hazards Classification.
- 20.240.222 Geologic hazards Mapping.
- 20.240.224 Geologic hazards Development standards.
- 20.240.230 Geologic hazard areas Required buffer areas.
- 20.240.240 Geologic hazards Critical area report requirements.
- 20.240.250 Geologic hazards Mitigation performance standards and requirements.

Subchapter 3. Fish and Wildlife Habitat Conservation Areas

- 20.240.260 Fish and wildlife habitat Description and purpose.
- 20.240.270 Fish and wildlife habitat Classification and designation.
- 20.240.272 Fish and wildlife habitat Mapping.
- 20.240.274 Fish and wildlife habitat General development standards.
- 20.240.276 Fish and wildlife habitat Specific habitat development standards.
- 20.240.280 Fish and wildlife habitat Required buffer areas.
- 20.240.290 Fish and wildlife habitat Critical area report requirements.

20.240.300 Fish and wildlife habitat – Mitigation performance standards and requirements.

Subchapter 4. Wetlands

- 20.240.310 Wetlands Purpose.
- 20.240.320 Wetlands Designation and rating.
- 20.240.322 Wetlands Mapping and delineation.
- 20.240.324 Wetlands Development standards.
- 20.240.330 Wetlands Required buffer areas.
- 20.240.340 Wetlands Critical area report requirements.

20.240.350 Wetlands – Compensatory mitigation performance standards and requirements.

Subchapter 5. Flood Hazard Areas

- 20.240.360 Flood hazard Description and purpose.
- 20.240.370 Flood hazard Designation and classification.
- 20.240.380 Flood hazard Development limitations.

Subchapter 6. Aquifer Recharge Areas

- 20.240.420 Aquifer recharge Description and purpose.
- 20.240.430 Aquifer recharge Designation and classification.
- 20.240.440 Aquifer recharge Alteration.

20.240.450 Aquifer recharge – Performance standards and requirements.

Subchapter 1.

Critical Areas – General Provisions

20.240.010 Purpose.

A. The purpose of this chapter is to establish supplemental standards for the protection of critical areas and their associated buffers within the shoreline jurisdiction consistent with the goals and policies of the SMA.

B. The provisions of this chapter do not extend beyond the shoreline jurisdiction limits specified in this Master Program and the SMA.

C. By identifying and regulating development and alterations to critical areas and buffers within the shoreline jurisdiction it is the intent of this chapter to:

1. Protect the public from injury, loss of life, property damage or financial losses due to flooding, erosion, landslide, seismic events, or soils subsidence;

2. Protect unique, fragile and valuable elements of the environment;

3. Reduce cumulative adverse environmental impacts to water quality, wetlands, streams, and other aquatic resources, fish and wildlife habitat, landslide hazards, and other geologically unstable features and protect the functions and values of critical areas from overall net loss;

4. Ensure the long-term protection of ground and surface water quality;

5. Alert members of the public, including appraisers, assessors, owners, potential buyers, or lessees, to the development limitations of critical areas and their required buffers;

6. Serve as a basis for exercise of the City's substantive authority under SEPA, and the City's Environmental Procedures (chapter 20.30 SMC, Subchapter 8);

7. To comply with the requirements of the SMA and its implementing regulations:

8. Establish standards and procedures that are intended to protect critical areas and their associated buffers within the shoreline jurisdiction while accommodating the rights of property owners to use their property in a reasonable manner; and

9. Provide for the management of critical areas and buffers within the shoreline jurisdiction so as not to result in a net loss of ecological functions and to restore degraded ecosystems.

D. This chapter is to be administered with flexibility and attention to site-specific characteristics.

E. For the purpose of this chapter, critical areas and buffers shall have the same meanings as set forth in SMC 20.20 and RCW 36.70A.030(5), as amended from time to time.

F. For the purpose of this chapter, when referring to "functions and values" or "functions," it is the critical area's functions and values in relationship to the shoreline ecological functions.

20.240.015 Applicability.

A. Unless explicitly exempted, the provisions of this chapter shall apply to all land uses, development activity, and all structures and facilities within critical areas and buffers located within the City's shoreline jurisdiction, whether or not a permit or authorization is required, and shall apply to every person or entity that owns, lease, or administers land within the City's shoreline jurisdiction.

B. No person or entity shall alter a critical area of buffer in the shoreline jurisdiction except in compliance with the requirements of this chapter.

B. The City shall not approve any permit or otherwise issue any authorization to alter the condition of any land, water, or vegetation or to construct or alter any structure or improvement in the shoreline jurisdiction without first assuring compliance with the requirements of this chapter.

C. Approval of a permit or development proposal pursuant to the provisions of this chapter does not discharge the obligation of the applicant to comply with the provisions of this chapter.

D. The provisions of this chapter shall apply to any forest practices over which the City has jurisdiction pursuant to Chapter 76.09 RCW and WAC Title 222, as amended from time to time.

20.240.020 Relationship to other regulations.

A. These critical area regulations shall apply as an overlay in addition to use and development regulations established by the City consistent with the SMA and this Master Program. In the event of any conflict between these regulations and any other regulations of the City, the regulations which provide greater protection to the critical areas shall apply.

B. Areas characterized by particular critical areas may also be subject to other regulations established by this chapter due to the overlap or multiple functions of some critical areas. In the event of any conflict between regulations for particular critical areas in this chapter, the regulations which provide greater protection to critical areas shall apply.

C. These critical areas regulations shall apply concurrently with review conducted under SEPA, as necessary and locally adopted. Any conditions required pursuant to this chapter shall be included in the SEPA review and threshold determination.

D. Compliance with the provisions of this chapter does not constitute compliance with other Federal, State, and local regulations and permit requirements that may be required (for example, shoreline substantial development permits, Hydraulic Permit Act (HPA) permits, Section 106 of the National Historic Preservation Act, USACE Section 404 permits, National Pollution Discharge Elimination System permits). The applicant is responsible for complying with these requirements, apart from the process established in this chapter.

20.240.025 Critical areas maps.

A. The approximate location and extent of identified critical areas within the City's planning area are shown on the critical areas maps adopted as part of this chapter, including but not limited to the maps identified in SMC 20.240.222, 20.240.272, and 20.240.322. These maps shall be used for informational purposes as a general guide only for the assistance of property owners and other interested parties. Boundaries and locations indicated on the maps are generalized. Critical areas and their buffers may occur within the shoreline jurisdiction which have not previously been mapped. A site inspection by staff or an applicant's critical area worksheet may also indicate the presence of a critical area.

B. Based on an indicated critical area in subsection A of this section, the actual presence or absence, delineation and classification of critical areas shall be identified in the field by a gualified professional, and confirmed by the City, according to the procedures, definitions and criteria established by SMC 20.240.080(D)(1) and (2). In the event of any conflict between the critical area location or designation shown on the City's maps and the criteria or standards of this chapter, the criteria and standards of this chapter shall prevail.

C. The critical areas maps shall be periodically updated by the City and shall reflect any permit activity, results of special studies and reports reviewed and approved by the City,

amendments to the Comprehensive Plan Natural Environment Element, and Departmentidentified errors and corrections.

20.240.040 Allowed activities.

A. Critical Area Report. Activities allowed under this section shall have been reviewed and permitted or approved by the City and any other agency with jurisdiction, but do not require submittal of a separate critical area report, unless such submittal was required previously for the underlying permit. The Director may apply conditions to the underlying permit or approval to ensure that the allowed activity is consistent with the provisions of this chapter to protect critical areas.

B. Best Management Practices. All allowed activities shall be conducted using the best management practices that result in the least amount of impact to the critical areas. Best management practices shall be used for tree and vegetation protection, construction management, erosion and sedimentation control, water quality protection, and regulation of chemical applications. The City shall require the use of best management practices to ensure that the activity does not result in degradation to the critical area. Any incidental damage to, or alteration of, a critical area shall be restored, rehabilitated, or replaced at the responsible party's expense.

C. Allowed Activities. The following activities are allowed:

1. Modifications to Existing Structures within Critical Areas. Structural modification of, addition to, maintenance, repair, or replacement of legally nonconforming structures consistent with SMC 20.220.150, which do not meet the building setback or buffer requirements for wetlands, fish and wildlife habitat conservation areas, or geologic hazard areas if the modification, addition, replacement or related activity does not increase the existing building footprint of the structure or area of hardscape lying within the critical area or buffer. Within landslide hazard areas, additions that add height to a nonconforming structure may only be allowed with review of a critical area report demonstrating that no increased risk of the hazard will occur. If such modification, alteration, repair, or replacement requires encroachment into a critical area or a critical area buffer to perform the work, then encroachment may be allowed subject to restoration of the area of encroachment to a same or better condition. 2. **Demolition.** Demolition of structures located within critical areas or their buffers, excluding demolition of structures necessary to support or stabilize landslide hazard areas, and subject to approval of a stormwater pollution prevention plan consistent with the adopted stormwater manual and clearing limits that will adequately protect the critical area.

3. Permit Requests Subsequent to Previous Critical Area Review. A permit or approval sought as part of a development proposal for which multiple permits are required is exempt from the provisions of this chapter, except for the notice to title provisions, as applicable if:

a. The City has previously reviewed all critical areas on the site; and

b. There is no material change in the development proposal since the prior review; and

c. There is no new information available which may alter previous critical area review of the site or a particular critical area; and

d. The permit or approval under which the prior review was conducted has not expired or, if no expiration date, no more than five years have lapsed since the issuance of that permit or approval; and

e. The prior permit or approval, including any conditions, has been complied with.

20.240.045 Critical areas preapplication meeting.

A. A preapplication meeting, pursuant to SMC 20.30.080, is required prior to submitting an application for development or use of land that may impact critical areas or buffers within the shoreline jurisdiction.

B. A determination may be provided through the preapplication meeting regarding whether critical area reports are required, and if so what level of detail and what elements may be necessary for the proposed project. An applicant may submit a critical area delineation and classification study prior to the City determining that a full critical area report is required.

This determination does not preclude the Director from requiring additional critical area report information during the review of the project. After a site visit and review of available information for the preapplication meeting, the Director may determine:

1. No Critical Areas Present. If the Director's analysis indicates that the project area is not within or adjacent to a critical area or buffer and that the proposed activity is unlikely to result in a net loss of shoreline ecological functions provided by the critical area or buffer, then the Director shall determine that the critical area review is complete and note in the preapplication meeting summary letter the reasons that no further review is required.

2. Critical Areas Present, But No Impact. If the Director determines that there are critical areas within or adjacent to the project area, but that the best available science shows that the proposed activity is unlikely to result in a net loss of shoreline ecological functions provided by the critical area or buffer, the Director may waive the requirement for a critical area report. A waiver may be granted if there is substantial evidence that all of the following requirements will be met:

a. There will be no alteration of the critical area or buffer;

b. The development proposal will not impact the critical area in a manner contrary to the purpose, intent, and requirements of this chapter, this Master Program, and the SMA; and

c. The proposal is consistent with other applicable regulations and standards.

A summary of this analysis and the findings shall be included in the preapplication meeting summary letter and any staff report or decision on the underlying permit.

3. Critical Areas May Be Affected by Proposal. If the Director determines that a critical area(s) or buffer(s) may be affected by the proposal, then the Director shall notify the applicant that a critical area report(s) shall be submitted prior to further review of the project, and indicate each of the critical area types that should be addressed in the report. Additionally, the Director may indicate the sections or report types that shall be included in the critical report(s) consistent with SMC 20.240.080.

20.240.050 Alteration of critical areas.

In general, critical areas and buffers shall be maintained in their existing state including undisturbed, native vegetation to maintain the functions, values, resources, and public health and safety for which the critical areas and buffers are protected or allowed as the current, developed legally established condition such as graded areas, structures, pavement, gardens and lawns. Alteration of critical areas, including their established buffers, may only be permitted subject to the criteria and standards in this chapter, and compliance with any Federal and/or State permits required. Unless otherwise provided in this chapter, if alteration of the critical area is unavoidable, all adverse impacts to or from critical areas and buffers resulting from a development proposal or alteration shall be mitigated using the best available science in accordance with an approved critical areas report, so as to result in no overall net loss of shoreline ecological function provided by the critical area and no increased risk of hazards.

20.240.053 Mitigation requirements.

Mitigation shall ensure that each permitted development or use will not cause a net loss of ecological functions of the shoreline as provided by the critical area or buffer and to prevent risk from a hazard posed by a critical area. Mitigation shall not be implemented until after the Director has provided approval of a critical areas report that includes a mitigation plan.

A. **Mitigation Sequencing.** This section applies to mitigation required with all critical areas reviews, approvals, and enforcement pursuant to this chapter. This section is supplemented with specific measures under subchapters for particular critical areas. Mitigation for specific development proposals may include a combination of the measures below and shall be designed and constructed in accordance with the provisions of this section. Before impacting any critical areas or buffers, an applicant shall demonstrate that the following actions have been taken in the following sequential order of preference:

1. Avoiding the impact altogether by not taking a certain action or parts of actions;

2. Minimizing impacts by limiting the degree or magnitude of the action and its implementation by using appropriate technology or by taking affirmative steps, such as project redesign, relocation, or timing, to avoid or reduce impacts;

3. Rectifying the impact by repairing, rehabilitating, or restoring the affected environment or by restoring or stabilizing the hazard area through natural, engineering, or other methods;

4. Reducing or eliminating the impact over time through preservation and maintenance operations during the life of the action;

5. Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and/or 6. Monitoring, measuring and reporting the impact to the Director and taking appropriate corrective measures.

B. Applicants shall first demonstrate an inability to avoid or reduce impacts before the use of actions to mitigate potential impacts will be allowed. No activity or use shall be allowed that results in a net loss of the shoreline ecological functions provided by the critical areas or buffers or has a significant adverse impact on other shoreline functions fostered by the policies of this Master Program and the SMA.

C. Type, Location, and Timing of Mitigation. Unless it is demonstrated that a higher level of ecological functioning or greater reduction of hazard risk would result from an alternative approach or as otherwise allowed in this chapter, mitigation for adverse impacts shall be based on best available science, with preferential consideration given to measures that replace the impacted functions directly and in immediate vicinity of the impact and prior to the activities that will disturb the critical area. Mitigation measures that cannot be implemented prior to the critical area impacts shall be completed immediately following disturbance and prior to use or occupancy of the action or development. Construction of mitigation projects shall be timed to reduce impacts to existing fisheries, wildlife, and flora.

1. The Director may authorize a one-time temporary delay in completing construction or installation of the mitigation when the applicant provides a written explanation from a qualified professional as to the rationale for the delay. An appropriate rationale would include identification of the environmental conditions that could produce a high probability of failure or significant construction difficulties (e.g., project delay lapses past a fisheries window, or installing plants should be delayed until the dormant season to ensure greater survival of installed materials). The delay shall not create or perpetuate hazardous conditions or environmental damage or degradation, and the delay shall not be injurious to the health, safety, or general welfare of the public. The request for the temporary delay shall include a written justification that documents the environmental constraints that preclude implementation of the compensatory mitigation plan. The justification shall be verified and approved by the City.

20.240.056 Shoreline restoration projects.

Shoreline restoration projects, defined as projects designed to restore impaired ecological functions of a shoreline, shall be reviewed and permitted or approved by the City and any other

agency with jurisdiction consistent with criteria established in WAC 173-27-215 and RCW 90.58.580, as amended from time to time.

20.240.060 Best available science.

A. Protect Shoreline Ecological Functions provided by Critical Areas with Special Consideration to Anadromous Fish. Critical area reports and decisions to alter critical areas or buffers shall rely on the best available science to protect the shoreline ecological functions provided by the critical areas and shall give special consideration to conservation or protection measures necessary to preserve or enhance anadromous fish, such as salmon and bull trout, and their habitat, where applicable.

B. Best Available Science to Be Consistent with Criteria. The best available science is that scientific information, obtained through a valid scientific process, that is applicable to the critical area prepared by local, State, or Federal natural resource agencies, a qualified scientific professional, or team of qualified scientific professionals that is consistent with criteria established in WAC 365-195 and RCW 36.70A.172, as amended from time to time.

C. Characteristics of a Valid Scientific Process. In the context of critical areas protection, a valid scientific process is one that produces reliable information useful in understanding the consequences of a local government's regulatory decisions, and in developing critical areas policies and development regulations that will be effective in protecting the shoreline ecological functions provided by the critical areas. To determine whether information received during the permit review process is reliable scientific information, the Director shall determine whether the source of the information displays the characteristics of a valid scientific process. Such characteristics are as follows:

1. **Peer Review.** The information has been critically reviewed by other persons who are gualified scientific experts in that scientific discipline. The proponents of the information have addressed the criticism of the peer reviewers. Publication in a referenced scientific journal usually indicates that the information has been appropriately peer-reviewed;

2. **Methods.** The methods used to obtain the information are clearly stated and reproducible. The methods are standardized in the pertinent scientific discipline or, if not, the methods have been appropriately peer-reviewed to ensure their reliability and validity;

3. Logical Conclusions and Reasonable Inferences. The conclusions presented are based on reasonable assumptions supported by other studies and consistent with the general theory underlying the assumptions. The conclusions are logically and reasonably derived from the assumptions and supported by the data presented. Any gaps in information and inconsistencies with other pertinent scientific information are adequately explained;

4. **Quantitative Analysis.** The data have been analyzed using appropriate statistical or guantitative methods;

5. **Context.** The information is placed in proper context. The assumptions, analytical techniques, data, and conclusions are appropriately framed with respect to the prevailing body of pertinent scientific knowledge; and

6. **References.** The assumptions, analytical techniques, and conclusions are wellreferenced with citations to relevant, credible literature, and other pertinent existing information.

D. **Nonscientific Information.** Nonscientific information, such as anecdotal observations, nonexpert opinion, and hearsay, may supplement scientific information, but it is not an adequate substitute for valid and available scientific information.

E. **Absence of Valid Scientific Information.** Where there is an absence of valid scientific information or incomplete scientific information relating to a critical area, leading to uncertainty about the risk to shoreline ecological function provided by the critical area, for permitting an alteration of or impact to the critical area, the Director shall:

1. Take a "precautionary or a no-risk approach," that strictly limits development and land use activities until the uncertainty is sufficiently resolved; and

2. Require application of an effective adaptive management program that relies on scientific methods to evaluate how well regulatory and nonregulatory actions protect the critical area. An adaptive management program is a formal and deliberate scientific approach to taking action and obtaining information in the face of uncertainty. An adaptive management program shall:

a. Address funding for the research component of the adaptive management program;

b. Change course based on the results and interpretation of new information that resolves uncertainties; and

c. Commit to the appropriate time frame and scale necessary to reliably evaluate regulatory and nonregulatory actions affecting protection of critical areas and anadromous fisheries.

20.240.070 Classification and rating of critical areas.

To promote consistent application of the standards and requirements of this chapter, critical areas within the City's shoreline jurisdiction shall be rated or classified according to their characteristics, function and value, and/or their sensitivity to disturbance. Classification of critical areas shall be determined by the City using the following tools:

A. Application of the criteria contained in these regulations:

B. Consideration of the critical area reports submitted by qualified professionals in connection with applications subject to these regulations; and

C. Review of maps adopted pursuant to this chapter.

20.240.080 Critical area report – Requirements.

A. **Report Required.** If uses, activities, or developments are proposed within, adjacent to, or are likely to impact critical areas or their buffers, an applicant shall provide site-specific information and analysis in the form of critical area report(s) as required in this chapter. Critical area reports are required in order to identify the presence, extent, and classification/rating of potential critical areas, as well as to analyze, assess, and mitigate the potential adverse impact to or risk from critical areas for a development project. Critical area reports shall use standards for best available science in SMC 20.240.060. Critical area reports for two or more types of critical areas shall meet the report requirements for each type of critical area. The expense of preparing the critical area report(s) shall be borne by the applicant. This provision is not intended to expand or limit an applicant's other obligations under WAC 197-11-100, as amended from time to time.

B. Preparation by Qualified Professional. Critical area report(s) shall be prepared by gualified professional(s) as defined in SMC 20.20.042, with the required training and experience specific to the type(s) of critical area(s) present consistent with the requirements of SMC 20.240.240, 20.240.290, and 20.240.340. Proof of licensing, credentials, and resume of the

<u>qualified professional(s) preparing the report shall be submitted for review by the City to</u> <u>determine if the minimum qualifications are met.</u>

C. Third Party Review of Critical Area Reports. Review of required critical area reports by a gualified professional under contract with or employed by the City will be required by the Director at the applicant's expense in any of the following circumstances:

1. The project requires a shoreline variance application or a shoreline conditional use permit; or

2. Third party review is specifically required by the provisions of this chapter for the critical area(s) or critical area buffer(s) potentially being impacted; or

3. When the Director determines such services are necessary to demonstrate compliance with the standards and guidelines of this chapter.

D. Critical Area Report Types or Sections. Critical area reports may be met in stages through multiple reports or combined in one report. A critical area report shall include one or more of the following sections or report types unless exempted by the Director based on the extent of the potential critical area impacts. The scope and location of the proposed project will determine which report(s) alone or combined are sufficient to meet the critical area report requirements for the impacted critical area type(s). The typical sequence of required sections or reports that will fulfill the requirements of this section include:

1. **Reconnaissance.** The existence, general location, and type of critical areas in the vicinity of a project site (off site within 300 feet for wetlands and fish and wildlife habitat conservation areas and off site within 200 feet for geologic hazards, shorelines, floodplains, and aquifer recharge areas) of a project site (if allowed by the adjoining property owners). Determination of whether the project will adversely impact or be at risk from the potential critical areas based on maximum potential buffers and possible application of SMC 20.240.220(A)(3), 20.240.280(D)(7) or 20.240.330(G)(10) should be addressed;

2. **Delineation.** The extent, boundaries, rating or classification, and applicable standard buffers of critical areas where the project area could potentially impact the critical area or its buffer including an assessment of the characteristics of or functions and values of the critical area and buffers identified; 3. **Analysis.** The proposal and impact assessment report documenting the potential project impacts to the critical area and buffers including a discussion of the efforts taken to avoid, minimize, and reduce potential impacts to those areas:

4. **Mitigation.** The measures that prevent or compensate for the potential impacts of the project designed to meet the requirements of this chapter, in SMC 20.240.082, Mitigation plan requirements, and the standards for the specific critical areas impacted. Mitigation includes, but is not limited to, adjustments to required buffer sizes, best practices to minimize impacts, and critical area or buffer enhancement, restoration, or preservation plans. Mitigation plans include habitat management plans, revegetation, or replanting plans, and restoration plans;

5. Maintenance and Monitoring. The goals of the mitigation proposed, performance standards for success, monitoring methods and reporting schedule, maintenance methods and schedule, and contingency actions. Maintenance and monitoring plans shall be consistent with the mitigation performance standards and requirements of this chapter, including SMC 20.240.250, 20.240.300, and 20.240.350.

E. Minimum Report Contents. At a minimum, critical area reports shall contain the following:

1. The name and contact information of the applicant;

2. Adequate information to determine compliance with the requirements of the critical area regulations, this chapter, including critical area report, impact and hazard assessment, and mitigation requirements specific to each critical area type, as indicated in the corresponding sections of this chapter;

3. The dates, names, and qualifications of the qualified professional(s) preparing the report and documentation of any fieldwork performed on the site;

4. A description of the proposal, proposal location including address and parcel number(s), and a vicinity map for the project;

5. Identification of the development permit(s) requested and all other local, State, and/or Federal critical area-related permits required for the project;

6. A copy of the site plan for the development proposal including:

a. A map to standard engineering scale depicting critical areas, buffers, the development proposal, and any areas to be altered. In addition to plan size site plans, a legible, reduced (eight and one-half inches by 11 inches) copy will be required if noticing is required for the project; and

b. A scaled depiction and description of the proposed stormwater pollution prevention plan, consistent with the adopted stormwater manual, for the development and consideration of impacts to critical areas due to drainage alterations;

7. Identification and characterization of all critical areas, wetlands, water bodies, shorelines, and buffers within the vicinity of the proposed project area (off site within 300 feet for wetlands and fish and wildlife habitat conservation areas and off site within 200 feet for geologic hazards, shorelines, floodplains, and aquifer recharge areas);

8. A statement specifying the accuracy of the report and all assumptions made and relied upon;

9. A description of the methodologies used to conduct the critical areas investigation, including references;

10. An assessment of the probable impacts to the critical areas resulting from the proposed development of the site based upon identified findings;

<u>11.</u> A description of reasonable efforts made to apply mitigation sequencing pursuant to SMC 20.240.053, Mitigation requirements, to avoid, minimize, and mitigate impacts to critical areas; and

12. Plans for mitigation required to offset any critical areas impacts, in accordance with SMC 20.240.082, Mitigation plan requirements, and the corresponding mitigation performance standards sections of this chapter, including a discussion of the applicable development standards and cost estimates for determination of financial guarantee requirements.

F. Existing Reports. Unless otherwise provided, a critical areas report may incorporate, be supplemented by, or composed of any reports or studies required by other laws and regulations or previously prepared for and applicable to the development proposal site, as approved by the Director. At the discretion of the Director, reports previously compiled or submitted as part of a

proposal for development may be used as a critical areas report to the extent that the requirements of this section and the report requirements for each specific critical area type are met. Critical areas reports shall be considered valid for five years; after such date the City shall determine whether a revision or additional assessment is necessary. Supplemental critical area report(s) may be required to provide information and analysis to address changes to the project scope and potential impacts or to changes to applicable regulations that have been made subsequent to existing, valid critical area reports.

G. Modifications to Report Requirements.

1. **Limitations to Study Area.** The Director may limit the required geographic area of the critical areas report as appropriate if:

a. The applicant, with assistance from the City, cannot obtain permission to access properties adjacent to the project area; or

b. The proposed activity will affect only a limited part of the subject site.

2. **Modifications to Required Contents.** The applicant may consult with the Director prior to or during preparation of the critical areas report to obtain approval of modifications to the required contents of the report where, in the judgment of a qualified professional, more or less information is required to adequately address the potential critical area impacts and required mitigation. In some cases, such as when it is determined that no geologic hazard area is present, a full report may not be necessary to determine compliance with the critical area regulations, this chapter, and in those cases a letter or reconnaissance only report may be required.

3. Additional Information Requirements. The Director may require additional information to be included in the critical areas report when determined to be necessary to the review of the proposed activity in accordance with this chapter. Additional information that may be required includes, but is not limited to:

a. Historical data, including original and subsequent mapping, aerial photographs, data compilations and summaries, and available reports and records relating to the site or past operations at the site;

b. Grading and drainage plans; and

c. Information specific to the type, location, and nature of the critical area.

20.240.082 Mitigation plan requirements.

When mitigation is required, the applicant shall submit for approval by the City a mitigation plan as part of the critical area report. Mitigation plans shall meet the minimum requirements of SMC 20.240.080 and the applicable mitigation performance standards and requirements for the impacted type(s) of critical area(s) and buffer(s), including but not limited to SMC 20.240.250, 20.240.300, and 20.240.350. When the mitigation plan is submitted separately from other types or sections of the required critical area report(s), the mitigation plan shall meet the minimum content requirements of SMC 20.240.080(E) by inclusion or reference to other existing report(s). The mitigation plan shall include, at a minimum:

A. Environmental Goals and Objectives. The mitigation plan shall include a written report identifying environmental goals and objectives of the mitigation proposed and including:

1. A description of the anticipated impacts to the critical areas, the mitigating actions proposed, and the purposes of the compensation measures, including the site selection criteria; identification of compensation goals; identification of shoreline ecological functions; and dates for beginning and completion of site compensation construction activities. The goals and objectives shall be related to the shoreline ecological functions provided by the impacted critical area; and

2. A review of the best available science supporting the proposed mitigation and a description of the report author's experience to date in restoring or creating the type of critical area proposed.

B. **Performance Standards.** The mitigation plan shall include measurable specific criteria for evaluating whether or not the goals and objectives of the mitigation project have been successfully attained at the end of the required monitoring period and whether or not the requirements of this chapter, this Master Program, and the SMA have been met.

C. Detailed Construction Plans. The mitigation plan shall include written specifications and descriptions of the mitigation proposed, such as:

1. The proposed construction sequence, timing, and duration;

2. Site plans showing grading and excavation details with minimum two-foot contour intervals;

3. Erosion and sediment control features;

4. A planting plan specifying plant species, quantities, locations, size, spacing, and density; and

5. Measures to protect and maintain plants until established.

<u>These written specifications shall be accompanied by detailed site diagrams, scaled cross-</u> <u>sectional drawings, topographic maps showing slope percentage and final grade elevations, and</u> <u>any other drawings appropriate to show construction techniques or anticipated final outcome.</u>

D. Monitoring Program and Contingency Plan.

1. A monitoring program shall be included in the mitigation plan and implemented by the applicant to determine the success of the mitigation project and any necessary corrective actions. This program shall determine if the original goals and objectives of the mitigation plan are being met.

2. A contingency plan shall be established for indemnity in the event that the mitigation project is inadequate or fails. Contingency plans include identification of potential courses of action, and any corrective measures to be taken if monitoring or evaluation indicates project performance standards are not being met. Corrective measures will be required by the City when the qualified professional indicates, in a monitoring report, that the contingency actions are needed to ensure project success by the end of the monitoring period. A performance and maintenance bond, or other acceptable financial guarantee, is required to ensure the applicant's compliance with the terms of the mitigation agreement consistent with SMC 20.240.120, Financial guarantee requirements.

3. Monitoring programs prepared to comply with this section shall include, at a minimum, the following requirements:

a. Best available scientific procedures shall be used to establish the success or failure of the mitigation project. A protocol outlining the schedule for site monitoring (for example, monitoring shall occur in years zero (as-built), one, three, and five after site construction), and how the monitoring data will be evaluated to determine if the performance standards are being met.

b. For vegetation determinations, permanent sampling points shall be established.

c. Vegetative success shall, at a minimum, equal 80 percent survival of planted trees and shrubs and 80 percent cover of desirable understory or emergent plant species at the end of the required monitoring period. Alternative standards for vegetative success, including (but not limited to) minimum survival standards following the first growing season, may be required after consideration of recommendations provided in a critical area report or as otherwise required by the provisions of this chapter.

d. A monitoring report shall be submitted as needed to document milestones, successes, problems, and contingency actions of the mitigation project. Monitoring reports on the current status of the mitigation project shall be submitted, consistent with subsection E of this section, to the City on the schedule identified in the monitoring plan, but not less than every other year. The reports are to be prepared by a qualified professional and reviewed by the City, or a qualified professional retained by the City, and should include monitoring information on wildlife, vegetation, water quality, water flow, stormwater storage and conveyance, and existing or potential degradation, as applicable.

e. Monitoring programs shall be established for a period necessary to establish that performance standards have been met, but not for less than a minimum of five years without approval from the Director.

f. If necessary, failures in the mitigation project shall be corrected.

g. Dead or undesirable vegetation shall be replaced with appropriate plantings.

h. Damage caused by erosion, settling, or other geomorphological processes shall be repaired.

i. The mitigation project shall be redesigned (if necessary) and the new design shall be implemented and monitored, as in subsection (D)(3)(d) of this section.

j. Correction procedures shall be approved by a qualified professional and the City.

k. If the mitigation goals are not obtained within the initial monitoring period, the applicant remains responsible for restoration of the impacted shoreline ecological functions provided by the critical areas or hazard risk reduction until the mitigation goals agreed to in the mitigation plan are achieved.

E. **Monitoring Reports.** Monitoring reports shall be submitted to the City consistent with the approved monitoring plan.

1. The as-built report, required prior to final inspection, shall, at a minimum, include documentation of the following to establish the baseline for monitoring:

a. Departures from the original approved plans;

b. Construction supervision provided by the qualified professional;

c. Approved project goals and performance standards;

d. Baseline data for monitoring per the approved monitoring methods;

e. Photos from established photo points; and

f. A site plan showing final mitigation as constructed or installed, monitoring points, and photo points.

2. Subsequent monitoring reports shall, at a minimum, include:

a. Monitoring visit observations, documentation, and analysis of monitoring data collected;

b. Photos from photo points;

c. Determination whether performance standards are being met; and

d. Maintenance and/or contingency action recommendations to ensure success of the project at the end of the monitoring period.

3. The applicant shall be responsible for the cost (at the current hourly rate) of review of monitoring reports and site inspections during the monitoring period, which are completed by the City or a qualified professional under contract with or employed by the City.

F. **Cost Estimates.** The mitigation plan shall include cost estimates that will be used by the <u>City to calculate the amounts of financial guarantees, if necessary, to ensure that the mitigation</u> plan is fully implemented. Financial guarantees ensuring fulfillment of the mitigation project, monitoring program, and any contingency measures shall be posted in accordance with SMC 20.240.120, Financial guarantee requirements.

<u>G.</u> Approved Mitigation Projects – Signature. On completion of construction, an as-built report for any approved mitigation project shall be prepared and signed off by the applicant's gualified professional and approved by the City. Signature of the qualified professional on the required as-built report and approval by the City will indicate that the construction has been completed as planned.

20.240.085 Pesticides, herbicides and fertilizers on City-owned property.

Pesticides, herbicides and fertilizers which have been identified by State or Federal agencies as harmful to humans, wildlife, or fish shall not be used in City-owned properties containing critical areas or their buffers within the shoreline jurisdiction except as allowed by the Director for the following circumstances:

A. When the Director determines that an emergency situation exists where there is a serious threat to public safety, health, or the environment, and that an otherwise prohibited application shall be used as a last resort.

B. Compost or fertilizer may be used for native plant revegetation projects in any location.

C. Limited pesticide and herbicide use may be applied pursuant to the King County Noxious Weed Control Board best management practices, specific to the species needing control, when that is determined to be the best method of control for the location. Federal, State, and local regulations of pesticides and water quality shall be followed, including requirements for pesticide applicator licensing from the Washington State Department of Agriculture.

20.240.090 Buffer areas.

The establishment of buffer areas shall be required for all development proposals and activities in or adjacent to critical areas within the shoreline jurisdiction. In all cases the standard buffer shall apply unless the Director determines that additional buffer width is necessary or reduced buffer is sufficient to protect the shoreline ecological functions consistent with the provisions of this chapter, this Master Program, the SMA, and the recommendations of a qualified professional. The purpose of the buffer shall be to protect the integrity, function, value and resource of the subject critical area for shoreline ecological function, and/or to protect life, property and resources from risks associated with development on unstable or critical lands. The buffer shall consist of an undisturbed area of native vegetation. Buffers shall be protected during construction by placement of a temporary barricade if determined necessary by the City, on-site notice for construction crews of the presence of the critical area, and implementation of appropriate erosion and sedimentation controls. Restrictive covenants or conservation easements may be required to preserve and protect buffer areas.

20.240.100 Notice to title.

A critical area notice to title is required, as a condition of permit issuance or project approval, when a permit or development application is submitted for development on any property containing a critical area or buffer within the shoreline jurisdiction. The purpose is to inform subsequent purchasers of real property of the existence of critical areas. The notice to title applicable to the property shall be approved by the Director and City Attorney for compliance with this provision and be filed by the property owner, at their expense, with the King County Recorder's Office. This requirement can be met through recording of a notice to title prepared by the City, establishment of a critical area tract, or recording of native growth protection area easement consistent with the following provisions:

A. Notice to Title. A notice to title is required when a permit is required for development on any property containing a critical area or buffer within the shoreline jurisdiction. The notice shall state that critical areas or buffers have been identified on the property within the shoreline jurisdiction and that limitations on actions in or affecting the critical area or buffer may exist. The notice shall run with the land. The title holder will have the right to challenge this notice and to have it extinguished if the critical area designation no longer applies. However, the titleholder shall be responsible for completing a critical area report, subject to approval by the Director, before the notice on title can be extinguished.

B. **Critical Area Tract.** Subdivisions, short subdivisions, and binding site plans shall establish a separate critical areas tract as a permanent protective measure for wetlands, fish and wildlife habitat conservation areas, and landslide hazard areas and their buffers located within the shoreline jurisdiction. The plat or binding site plan for the project shall clearly depict the critical areas tract, and shall include all of the subject critical area, any required buffer, and any additional lands included voluntarily by the developer. Restrictions to development within the critical area tract shall be clearly noted on the plat or plan. Restrictions shall be consistent with the SMA, this Master Program, and this chapter for the entire critical area tract. Should the critical area tract include several types of critical areas, the developer may establish separate critical areas tracts.

C. Native Growth Protection Area. Native growth protection area (NGPA) easements shall be required on a property where no subdivision, short subdivision, or binding site plan is proposed or required. Unless otherwise required in this chapter, NGPA easements shall be recorded on title for all affected parcels prior to approval of a development agreement, issuance of a master development plan permit, or issuance of a site development or building permit, when two or more dwelling units and/or nonresidential development are proposed on one parcel, to delineate and protect those contiguous wetlands, fish and wildlife habitat conservation, and landslide hazard critical areas and their buffers located within the shoreline jurisdiction. The easement to be recorded shall clearly depict the critical area and the limits of the NGPA easement and shall include all of the subject critical area(s) and any required buffer(s). Restrictions to development within the NGPA easement shall be clearly noted in the easement and shall include the following:

1. That native vegetation will be preserved for the purpose of preventing harm to property and the environment, including, but not limited to, controlling surface water runoff and erosion, limiting chemical applications of hazardous substances (pesticides, herbicides, fertilizers), maintaining slope stability, buffering, and protecting plants, fish, and animal habitat; and

2. The right of the City to enforce the terms of the restriction.

D. **Proof of Notice.** The applicant shall submit proof that the notice has been recorded on title before the City approves any development permit, including master development plan permits, for the property or, in the case of subdivisions, short subdivisions, binding site plans, or development agreements, at or before recording.

20.240.110 Permanent field marking.

A. All critical areas tracts, easements, and dedications, or as recommended by a qualified professional, shall be clearly marked on the site using permanent markings, placed at least every 50 feet, which include the following text:

<u>City of Shoreline Designated Critical Area. Activities, including clearing and</u> <u>grading, removal of vegetation, pruning, cutting of trees or shrubs, planting of</u> <u>nonnative species, and other alterations may be prohibited. Help protect and care</u> for this area. Please contact the City of Shoreline with questions or concerns.

B. It is the responsibility of the landowner to maintain in perpetuity and replace if necessary all permanent field markings.

20.240.120 Financial guarantee requirements.

Bonds, and other financial guarantees, and associated performance agreements or maintenance/defect/monitoring agreements shall be required for projects with required mitigation or restoration of impacts to critical areas or critical area buffers consistent with the following:

A. A performance agreement and bond, or other acceptable financial guarantee, are required from the applicant when mitigation required pursuant to a development proposal is not completed prior to final permit approval, such as final plat approval or final building inspection. The amount of the performance bond(s) shall equal 125 percent of the cost of the mitigation project (after City mobilization is calculated).

B. A performance agreement and bond, or other acceptable financial guarantee, are required from the applicant when restoration is required for remediation of a critical area violation. The amount of the performance bond(s) shall equal 125 percent of the cost of the mitigation project (after City mobilization is calculated).

C. A maintenance/defect/monitoring agreement and bond, or other acceptable financial guarantee, are required to ensure the applicant's compliance with the conditions of the approved mitigation plan pursuant to a development proposal or restoration plan for remediation of a violation. The amount of the maintenance bond(s) shall equal 25 percent of the cost of the mitigation project (after City mobilization is calculated) in addition to the cost for monitoring for a minimum of five years. The monitoring portion of the financial guarantee may be reduced in proportion to work successfully completed over the period of the bond. The bonding period shall coincide with the monitoring period.

20.240.130 Unauthorized critical area alterations.

A. When a critical area or its buffer located within the shoreline jurisdiction has been altered in violation of this chapter, all ongoing development work shall stop and the critical area shall be restored. The City shall have the authority to issue a stop work order to cease all development, and order restoration measures at the owner's or other responsible party's expense to remediate the impacts of the violation of the provisions of this chapter.

B. Requirement for Restoration Plan. All development shall remain stopped until a restoration plan is prepared by the responsible party and an approved permit is issued by the City. Such a plan shall be prepared by a qualified professional using the best available science and shall describe how the actions proposed meet the minimum requirements described in subsection C of this section. The Director may, at the responsible party's expense, seek expert advice, including but not limited to third party review by a qualified professional under contract with or employed by the City, in determining if the plan meets the minimum performance standards for restoration. Submittal, review, and approval of required restoration plans for remediation of violations of this chapter, Critical Areas, shall be completed through a site development permit application process.

C. Minimum Performance Standards for Restoration.

1. For alterations to aquifer recharge areas, wetlands, and fish and wildlife habitat conservation areas, the following minimum performance standards shall be met for the restoration; provided, that if the violator can demonstrate that greater shoreline ecological functions provided through the functions and values provided by these critical areas can be obtained, these standards may be modified:

a. The pre-violation function and values of the affected critical areas and buffers shall be restored, including water quality and habitat functions;

b. The critical area and buffers shall be replanted with native vegetation that replicates the vegetation historically, or pre-violation, found on the site in species types, sizes, and densities. The pre-violation functions and values should be replicated at the location of the alteration; and

c. Information demonstrating compliance with the requirements in SMC 20.240.082, Mitigation plan requirements, and the applicable mitigation sections for the affected
type(s) of critical area(s) and their buffer(s) shall be submitted to the Director with a complete site development permit application.

2. For alterations to flood hazard and geologic hazard areas, the following minimum performance standards shall be met for the restoration of a critical area; provided, that if the violator can demonstrate that greater safety can be obtained, these standards may be modified:

a. The hazard shall be reduced to a level equal to, or less than, the pre-violation hazard;

b. Any risk of personal injury resulting from the alteration shall be eliminated or minimized; and

c. The hazard area and buffers shall be replanted with native vegetation sufficient to minimize the hazard.

D. **Site Investigation.** The Director is authorized to take such actions as are necessary to enforce this chapter. The Director shall present proper credentials and obtain permission before entering onto private property.

E. **Penalties.** Any responsible party violating of any of the provisions of this chapter may be subject to any applicable penalties per SMC 20.30.770, WAC 173-27-240, and RCW 90.58.200 and 90.58.210, as amended from time to time.

Subchapter 2.

Geologic Hazard Areas

20.240.210 Geologic hazards – Designation and purpose.

A. Geologic hazard areas are those lands that are susceptible to erosion, landsliding, seismic, or other geological events as identified by WAC 365-190-120, as amended from time to time. These areas may not be suited for development activities because these areas may pose a threat to public health and safety. These areas also provide important shoreline ecological functions. Eroding coastal bluffs, called feeder bluffs, are the primary source of sediment for Puget Sound beaches and contribute to vital coastal processes. However, since most of the city's coastline consists of BNSF railroad right-of-way, opportunity for the natural erosion and sediment transport process is limited.

Areas susceptible to one or more of the following types of hazards shall be designated as geologic hazard areas:

- 1. Landslide hazard;
- 2. Seismic hazard;
- 3. Erosion hazard.

B. The primary purposes of geologic hazard area regulations are to avoid and minimize potential impacts to life and property from geologic hazards, conserve soil resources, protect shoreline ecological functions, and minimize structural damage relating to seismic hazards. This purpose shall be accomplished through appropriate levels of study and analysis, application of sound engineering principles, and regulation or limitation of land uses, including maintenance of existing vegetation, regulation of clearing and grading activities, and control of stormwater.

20.240.220 Geologic hazards – Classification.

Geologic hazard areas shall be classified according to the criteria in this section as follows:

A. Landslide Hazard Areas. Landslide hazard areas are those areas potentially subject to landslide activity based on a combination of geologic, topographic and hydrogeologic factors as classified in subsection B of this section with slopes 15 percent or steeper within a vertical elevation change of at least 10 feet or all areas of prior landslide activity regardless of slope. A slope is delineated by establishing its toe and top, and measuring the inclination over 10 feet of vertical relief (see Figure 20.240.220(A)). The edges of the geologic hazard are identified where the characteristics of the slope cross-section change from one landslide hazard classification to another, or no longer meet any classification. Additionally:

 The toe of a slope is a distinct topographic break which separates slopes inclined at less than 15 percent from slopes above that are 15 percent or steeper when measured over 10 feet of vertical relief; and

2. The top of a slope is a distinct topographic break which separates slopes inclined at less than 15 percent from slopes below that are 15 percent or steeper when measured over 10 feet of vertical relief.



Figure 20.240.220(A): Illustration of slope calculation for determination of top and toe of landslide hazard area.

B. Landslide Hazard Area Classification. Landslide hazard areas are classified as follows:

1. Moderate to High Risk.

a. Areas with slopes between 15 percent and 40 percent and that are underlain by soils that consist largely of sand, gravel or glacial till that do not meet the criteria for very high risk areas in subsection (B)(2) of this section;

b. Areas with slopes between 15 percent and 40 percent that are underlain by soils consisting largely of silt and clay and do not meet the criteria for very high risk areas in subsection (B)(2) of this section; or

c. All slopes of 10 to 20 feet in height that are 40 percent slope or steeper and do not meet the criteria for very high risk in subsection (B)(2)(a) or (b) of this section.

2. Very High Risk.

a. Areas with slopes steeper than 15 percent with zones of emergent water (e.g., springs or ground water seepage);

b. Areas of landslide activity (scarps, movement, or accumulated debris) regardless of slope; or

c. All slopes that are 40 percent or steeper and more than 20 feet in height when slope is averaged over 10 vertical feet of relief.



Figure 20.240.220(B): Illustration of very high risk landslide hazard area delineation (no midslope bench).

C. Seismic Hazard Areas. Seismic hazard areas are lands that, due to a combination of soil and ground water conditions, are subject to risk of ground shaking, lateral spreading, subsidence or liquefaction of soils during earthquakes. These areas are typically underlain by soft or loose saturated soils (such as alluvium) or peat deposits and have a shallow ground water table. These areas are designated as having "high" and "moderate to high" risk of liquefaction as mapped on the Liquefaction Susceptibility and Site Class Maps of Western Washington State by County by DNR. D. Erosion Hazard Areas. Erosion hazard areas are lands or areas underlain by soils identified by the U.S. Department of Agriculture (USDA) Natural Resources Conservation Service (formerly the Soil Conservation Service) as having "severe" or "very severe" erosion hazards. This includes, but is not limited to, the following group of soils when such soils occur on slopes of 15 percent or greater: Alderwood-Kitsap (AkF), Alderwood gravelly sandy loam (AgD), Kitsap silt loam (KpD), Everett (EvD) and Indianola (InD).

20.240.222 Geologic hazards – Mapping.

A. The approximate location and extent of geologic hazard areas are shown on City of Shoreline geologic hazard data layers maintained in the City geographic information system (GIS) and shown in Figure 20.230.080. In addition, the following maps and resources providing information on the location and extent of geologic hazard areas are hereby adopted by reference as amended:

1. Department of Ecology coastal zone atlas (for marine bluffs);

2. U.S. Geological Survey geologic maps, landslide hazard maps, and seismic hazard maps;

3. DNR seismic hazard maps for Western Washington, including, but not limited to, the Liquefaction Susceptibility and Site Class Maps of Western Washington State by County;

4. DNR slope stability maps; and

5. Soils maps produced by the USDA National Resources Conservation Service.

B. The critical areas maps and the resources cited above are to be used as a guide for the City of Shoreline Planning and Community Development Department, project applicants, and/or property owners and may be continuously updated as new critical areas are identified. These maps and resources are a reference and do not provide a final critical area designation.

20.240.224 Geologic hazards – Development standards.

A. Development, activities, and uses shall be allowed in geologic hazard areas and their required buffers only as provided for in this chapter.

B. Activities Allowed in All Geologic Hazard Areas and Buffers. The activities listed below are allowed in the identified geologic hazard areas types pursuant to SMC 20.240.040, Allowed

activities, and subject to applicable permit approvals. These activities do not require submission of a critical area report.

1. All allowed activities per SMC 20.240.040;

2. Installation of fences as allowed without a building permit in Chapter 20.50 SMC, General Development Standards;

3. Nonstructural interior remodel, maintenance, or repair of structures which do not meet the standards of this chapter, if the maintenance or repair does not increase the footprint or height of the structure and there is no increased risk to life or property as a result of the proposed maintenance or repair; and

C. Alteration. The City may approve, condition, or deny proposals in a geologic hazard area based upon the effective mitigation of risks posed to property, health and safety and compensation of the loss of shoreline ecological functions. The objective of mitigation measures shall be to render a site containing a geologic hazard as safe as one not containing such hazard. Conditions may include applicable stormwater management practices, limitations of proposed uses, modification of density, alteration of site layout, and other appropriate changes to the proposal.

Where potential impacts cannot be effectively mitigated to ensure no net loss of the shoreline ecological functions provided by the critical area, and to eliminate a significant risk to public health and safety and property or other critical area, the proposal shall be denied, except as granted by a shoreline variance consistent with 20.220.040.

D. Alteration of Moderate to High Risk Landslide Hazards. Development activities and uses that result in unavoidable alterations may be permitted in moderate to high risk landslide hazard areas or their buffers in accordance with an approved geologic hazard critical area report. The recommendations contained within the critical area report shall be incorporated into the proposed alteration of the landslide hazard area or its buffers.

The critical area report shall certify that:

1. The risk of damage from the proposal, both on site, and off site, are minimal subject to the conditions set forth in the report;

2. The proposal will not increase the risk of occurrence of the potential landslide hazard; and

3. Measures to eliminate or reduce risks have been incorporated into the report's recommendations and project development plans.

E. Alteration of Very High Risk Landslide Hazard Areas. Alterations of a very high risk landslide hazard area and/or buffer may only occur for activities for which a critical area report with a hazards analysis is submitted and certifies that:

1. The development will not increase surface water discharge or sedimentation on site or to adjacent properties beyond pre-development conditions;

2. The development will not decrease slope stability on the site or on adjacent properties;

3. Such alterations will meet other critical areas regulations; and

4. The design criteria in subsection F of this section are met.

F. Design Criteria for Alteration of Very High Risk Landslide Hazard Areas. Development within a very high risk landslide hazard area and/or buffer shall be designed to meet the following basic requirements unless it can be demonstrated that an alternative project design provides greater short- and long-term slope stability while meeting all other provisions of this chapter. The requirement for long-term slope stability shall exclude designs that require regular and periodic maintenance to maintain their level of function. The basic development design criteria are:

1. The proposed development shall not decrease the factor of safety for landslide occurrences below the limits of 1.5 for static conditions and 1.2 for dynamic conditions. Proposed alteration of natural slopes, that does not include structures, shall not decrease the factor of safety for landslide occurrences below the limits of 1.3 for static conditions and 1.0 for seismic. Where the existing conditions are below these limits, the proposed development shall increase the factor of safety to these limits or will not be permitted. Analysis of dynamic conditions shall be based on the seismic event as established by the current version of the International Building Code; 2. New structures and improvements shall be clustered to avoid geologic hazard areas and other critical areas:

3. New structures and improvements shall minimize alterations to the natural contour of the slope, and foundations shall be tiered where possible to conform to existing topography;

4. New structures and improvements shall be located to preserve the most critical portion of the site and its natural landforms and vegetation:

5. The proposed development shall not result in greater risk of the hazard or a need for increased buffers on neighboring properties;

6. Where the existing natural slope area cannot be retained undisturbed with native vegetation, the use of retaining walls that allow the maintenance of existing natural slope area is preferred over graded artificial slopes; and

7. Development shall be designed to minimize impervious lot coverage and preserve native vegetation and trees to the maximum extent practicable.

G. Additional Requirements for Alteration of Very High Risk Hazard Landslide Areas.

1. Prior to application, the applicant shall meet the requirements of and conduct a neighborhood meeting consistent with SMC 20.30.090. The notification area shall be limited to:

a. All property owners whose properties adjoin the subject property; and

b. Properties that include part of the subject property's very high risk landslide hazard area and the standard 50-foot buffer, but not to exceed a maximum of 200 feet from the project clearing limits.

2. Prior to permit issuance, the property owner shall sign and record on title, at the owner's sole expense, a covenant in a form acceptable to the City, which:

a. Acknowledges and accepts the risks of development in the landslide hazard area;

b. Waives any rights to claims against the City;

c. Indemnifies and holds harmless the City against claims, losses, and damages;

d. Informs subsequent owners of the property of the risks and the covenant; and

e. Advisability of obtaining added insurance.

3. Prior to permit issuance, the piling and excavation contractors shall submit insurance bonding documentation that includes coverage for subsidence and underground property damage, listing the City as an additional insured. The Director may require adequate bonds and/or insurance to cover potential claims for property damage that may arise from or be related to the following:

a. Excavation or fill within a landslide-prone area when the depth of the proposed excavation exceeds four feet and the bottom of the proposed excavation is below the 100 percent slope line (45 degrees from a horizontal line) from the property line; or

b. In other circumstances where the Director determines that there is a potential for significant harm to any type of critical area or a critical area buffer during the construction process.

4. If the Building Official has reasonable grounds to believe that an emergency exists because significant changes in geologic conditions at a project site or in the surrounding area may have occurred since a permit was issued, increasing the risk of damage to the proposed development, to neighboring properties, or to nearby surface waters, the building official may, by letter or other reasonable means of notification, suspend the permit until the applicant has submitted a letter of certification. The letter of certification shall be based on such factors as the presence of known slides, indications of changed conditions at the site or the surrounding area, or other indications of unstable soils and meet the following requirements:

a. The letter of certification shall be from the current project qualified professional geotechnical engineer of record stating that a qualified professional geotechnical engineer has inspected the site and area surrounding the proposed development within the 60 days preceding submittal of the letter; and that:

i. In the project geotechnical engineer's professional opinion no significant changes in conditions at the site or surrounding area have occurred that render invalid or outof-date the analysis and recommendations contained in the technical reports and other application materials previously submitted to the City as part of the application for the permit; or that

ii. In the project geotechnical engineer's professional opinion, changes in conditions at the site or surrounding area have occurred that require revision to project criteria and that all technical reports and any necessary revised drawings that account for the changed conditions have been prepared and submitted.

5. The letter of certification and any required revisions shall be reviewed and approved by the City's third party qualified professional, at the applicant's expense, before the Building Official may allow work to continue under the permit.

H. Alteration of Seismic Hazard Areas. Development activities and uses in seismic hazard areas may be permitted, based on review of a critical area report demonstrating that the project is consistent with SMC 20.240.053(A)(2) through (6). The report shall certify that the risks of damage from the proposal, both on site and off site, are minimal subject to the conditions set forth in the report, that the proposal will not increase the risk of occurrence of the potential hazard, and that measures to eliminate or reduce risks have been incorporated into the report's recommendations. The report shall include the following:

1. For one-story and two-story detached residential structures, a qualified professional shall conduct an evaluation of site response and liquefaction potential based on current mapping, site reconnaissance, research of nearby studies.

2. For all other proposals, the qualified professional shall conduct an evaluation of site response and liquefaction potential including sufficient subsurface exploration to determine the site coefficient for use in the static lateral force procedure described in the International Building Code.

I. Alteration of Erosion Hazard Areas. Development activities and uses in erosion hazard areas may be permitted, based on review of a critical area report demonstrating that the project is consistent with SMC 20.240.053(A)(2) through (6) and the following provisions:

1. All development proposals on sites containing erosion hazard areas shall include a stormwater pollution prevention plan consistent with the requirements of the adopted stormwater manual and a mitigation plan to ensure revegetation and permanent stabilization of the site. Specific requirements for revegetation in mitigation plans shall be consistent with the mitigation plan requirements in SMC 20.240.082 and the mitigation performance standards for geologic hazard areas in SMC 20.240.250. Revegetation for site stabilization may be combined with required landscape, tree retention, and/or other critical area mitigation plans as appropriate.

2. All subdivisions, short subdivisions or binding site plans on sites with erosion hazard areas shall comply with the following additional requirements:

a. Except as provided in this section, existing vegetation shall be retained on all lots until building permits are approved for development on individual lots;

b. If any vegetation on the lots is damaged or removed during construction of the subdivision infrastructure, the applicant shall be required to implement the revegetation plan in those areas that have been impacted prior to final inspection of the site development permit or the issuance of any building permit for the subject property;

c. Clearing of vegetation on individual lots may be allowed prior to building permit approval if the City determines that:

i. Such clearing is a necessary part of a large-scale grading plan,

ii. It is not feasible to perform such grading on an individual lot basis, and

iii. Drainage from the graded area will meet established water quality standards.

3. Where the City determines that erosion from a development site poses a significant risk of damage to downstream receiving water, the applicant shall be required to provide regular monitoring of surface water discharge from the site during the project construction or installation. If the project does not meet water quality standards, the City may suspend further development work on the site until such standards are met.

4. The City may require additional mitigation measures in erosion hazard areas, including, but not limited to, the restriction of major soil-disturbing activities associated with site development between October 1st and April 30th to meet the stated purpose contained in SMC 20.240.010 and 20.240.210.

5. The use of hazardous substances, pesticides and fertilizers in erosion hazard areas may be prohibited by the City.

20.240.230 Geologic hazard areas – Required buffer areas.

A. Buffers for geologic hazard areas shall be maintained as undisturbed native vegetation consistent with SMC 20.240.090. Building and other improvement setbacks will be required in addition to buffers as recommended by the qualified professional to allow for landscaping, access around structures for maintenance, and location of stormwater facilities at safe distances from geologic hazard areas where native vegetation is not necessary to reduce the risk of the hazard.

B. Required buffer widths for geologic hazard areas shall reflect the sensitivity of the hazard area and the risks associated with development and, in those circumstances permitted by these regulations, the type and intensity of human activity and site design proposed to be conducted on or near the area.

C. In determining the appropriate buffer width, the City shall consider the recommendations contained in a geotechnical critical area report required by these regulations.

D. For moderate to high risk landslide hazard areas, the qualified professional shall recommend whether buffers should be required and the width of those buffers, as well as recommending any additional setbacks for buildings and stormwater facilities adequate to certify no increase in the risk of the hazard.

E. For very high risk landslide hazard areas, the standard buffer shall be 50 feet from all edges of the landslide hazard area. Larger buffers may be required as needed to eliminate or minimize the risk to people and property based on a geotechnical critical area report. The standard buffer may be reduced when geotechnical studies demonstrate, and the qualified professional certifies, that the reduction will not increase the risk of hazard to people or property, on or off site; however, the minimum buffer shall be 15 feet.

F. Landslide hazard areas and associated buffers shall be placed either in a separate tract on which development is prohibited, protected by execution of an easement, dedicated to a conservation organization or land trust, or similarly preserved through a permanent protective mechanism acceptable to the City. The location and limitations associated with the critical landslide hazard and its buffer shall be shown on the face of the deed or plat applicable to the property and shall be recorded with the King County Recorder's Office.

20.240.240 Geologic hazards – Critical area report requirements.

A. **Report Required.** If the Director determines that the site of a proposed development includes, is likely to include, or is adjacent to a geologic hazard area, a critical area report shall be required, at the applicant's expense. Critical area report requirements for geologic hazard areas are met through submission to the Director of one or more geologic hazard critical area reports (also referred to as geotech or geotechnical engineering reports). In addition to the general critical areas report requirements of SMC 20.240.080, critical areas reports for geologic hazard areas shall meet the requirements of this section. Critical areas reports for two or more types of critical areas shall meet the report requirements for each relevant type of critical areas.

B. **Preparation by a Qualified Professional.** Critical areas reports for potential geologic hazard areas shall be prepared, stamped, and signed by a qualified geotechnical engineer or engineering geologist licensed in the State of Washington, with minimum required experience, per SMC 20.20.042, analyzing geologic, hydrologic, and ground water flow systems, and who has experience preparing reports for the relevant type of hazard. If mitigation measures are necessary, the report detailing the mitigation measures and design of the mitigation shall be prepared by a qualified professional with experience stabilizing geologic hazard areas with similar geotechnical properties and by a qualified vegetation ecologist, landscape architect, or arborist with experience designing and monitoring vegetative stabilization of geologic hazard areas.

C. Third Party Review Required. Critical areas studies and reports on geologically hazardous areas will be subject to third party review at the owner's sole expense as provided in SMC 20.240.080(C) and in the following circumstances:

1. A buffer reduction or alteration of the critical area or buffer is proposed for a very high risk landslide hazard areas.

D. Minimum Report Contents for Geologic Hazard Areas. A critical area report for geologic hazard areas shall include a field investigation, contain an assessment of whether or not each type of geologic hazard identified in SMC 20.240.210 is present or not present, and determine if the proposed development of the site will increase the risk of the hazard on or off site. The written critical area report(s) and accompanying plan sheet(s) shall contain the following information at a minimum:

1. The minimum report contents required per SMC 20.240.080(E);

2. Documentation of any fieldwork performed on the site, including field data sheets for soils, test pit locations, baseline hydrologic data, site photos, etc.;

3. A description of the methodologies used to conduct the geologic hazard areas delineations, classifications, hazards assessments and/or analyses of the proposal impacts including references;

4. Site and Construction Plans. The report shall include a copy of the site plans for the proposal, drawn at an engineering scale, showing:

a. The type and extent of geologic hazard areas, any other critical areas, and buffers on, adjacent to, off site within 200 feet of, or that are likely to impact or be affected by the proposal;

b. Proposed development, including the location of existing and proposed structures, fill, significant trees to be removed, vegetation to be removed, storage of materials, and drainage facilities;

c. The topography, in two-foot contours, of the project area and all hazard areas addressed in the report;

d. Height of slope, slope gradient, and cross-section of the project area;

e. The location of springs, seeps, or other surface expressions of ground water on or off site within 200 feet of the project area or that have the potential to affect or be affected by the proposal;

<u>f.</u> The location and description of surface water on or off site within 200 feet of the project area or that has the potential to be affected by the proposal; and

g. Clearing limits, including required tree protection consistent with SMC 20.50.370.

5. Stormwater Pollution Prevention Plan (SWPPP). For any development proposed with land-disturbing activities on a site containing a geologic hazard area, a stormwater pollution prevention plan (also known as an erosion and sediment control plan) shall be required. The SWPPP, in compliance with the requirements of Chapter 13.10 SMC, shall be included in the critical area report or be referenced if it is prepared separately.

6. Assessment of Geological Characteristics. The report shall include an assessment of the geologic characteristics of the soils, sediments, and/or rock of the project area and potentially affected adjacent properties, and a review of the site history regarding landslides, erosion, and prior grading. Soils analysis shall be accomplished in accordance with accepted classification systems in use in the region. The assessment shall include, but not be limited to:

a. A detailed overview of the field investigations, published data, and references; data and conclusions from past assessments of the site; and site-specific measurements, tests, investigations, or studies that support the identification of geologically hazardous areas; and

b. A summary of the existing site conditions, including:

i. Surface topography, existing features, and vegetation found in the project area and in all hazard areas addressed in the report;

ii. Surface and subsurface geology and soils to sufficient depth based on data from site-specific explorations;

iii. Geologic cross-section(s) displaying the critical design conditions;

iv. Surface and ground water conditions; and

c. A description of the vulnerability of the site to seismic and other geologic events.

7. **Analysis of Proposal.** The report shall contain a hazards analysis including a detailed description of the project, its relationship to the geologic hazard(s), and its potential impact upon the identified hazard area(s), the subject property, and affected adjacent properties. The hazards analysis component of the critical areas report shall include the following based on the type(s) of geologic hazard areas identified:

a. Recommendations for the minimum buffer consistent with SMC 20.240.230 and recommended minimum drainage and building setbacks from any geologic hazard based upon the geotechnical analysis. Buffers shall be maintained consistent with SMC 20.240.090; however, the qualified professional may recommend additional setbacks for

drainage facilities or structures which do not have to be maintained as undisturbed native vegetation; and

b. An analysis of proposed surface and subsurface drainage, and the vulnerability of the site to erosion.

E. Additional Technical Information Requirements for Landslide Hazard Areas. The technical information required in a critical area report for a project within a landslide hazard area shall also include the following:

1. An estimate of the present stability of the subject property, the stability of the subject property during construction, the stability of the subject property after all development activities are completed, and a discussion of the relative risks and slide potential relating to adjacent properties during each stage of development, including the effect construction and placement of structures, clearing, grading, and removal of vegetation will have on the slope over the estimated life of the structure;

2. An estimate of the bluff retreat rate that recognizes and reflects potential catastrophic events such as seismic activity or a 100-year storm event;

3. Consideration of the run-out hazard of landslide debris and/or the impacts of landslide run-out on downslope properties;

4. A study of slope stability including an analysis of proposed cuts, fills, and other site grading;

5. Compliance with the requirements of SMC 20.240.224(D) for alterations proposed in moderate to high risk landslide hazard areas:

6. Compliance with the requirements of SMC 20.240.224(E) through (G) for alterations proposed in very high risk landslide hazard areas;

7. Parameters for design of site improvements including appropriate foundations and retaining structures. These should include allowable load and resistance capacities for bearing and lateral loads, installation considerations, and estimates of settlement performance;

8. Recommendations for drainage and subdrainage improvements;

9. Earthwork recommendations including clearing and site preparation criteria, fill placement and compaction criteria, temporary and permanent slope inclinations and protection, and temporary excavation support, if necessary; and

10. Mitigation of adverse site conditions including slope stabilization measures and seismically unstable soils, if appropriate.

F. Additional Technical Information Requirements for Seismic Hazard Areas. The technical information required in a critical area report for a project within a seismic hazard area shall also include the following:

1. A complete discussion of the potential impacts of seismic activity on the site (for example, forces generated and fault displacement);

2. Additionally, a geotechnical engineering report for a seismic hazard area shall evaluate the physical properties of the subsurface soils, especially the thickness of unconsolidated deposits and their liquefaction potential. If it is determined that the site is subject to liquefaction, mitigation measures appropriate to the scale of the development shall be recommended and implemented; and

3. Any additional information or analysis necessary to demonstrate compliance with the standards for alteration in seismic hazard areas in SMC 20.240.224(H).

G. Limited Report Requirements for Stable Erosion Hazard Areas. When recommended by the qualified professional for sites only overlain by erosion hazard areas with suitable slope stability, and no other type of critical area or buffer, detailed critical areas report requirements may be waived. Report requirements for stable erosion hazard areas may be met through construction documents that shall include at a minimum a stormwater pollution plan prepared in compliance with requirements set forth in Chapter 13.10 SMC.

H. **Mitigation of Long-Term Impacts.** When hazard mitigation is required, the mitigation plan shall specifically address how the activity maintains or reduces the preexisting level of risk to the site and adjacent properties on a long-term basis (equal to or exceeding the projected lifespan of the activity or occupation). Proposed mitigation techniques shall be considered to provide long-term hazard reduction only if such techniques do not require regular maintenance or other actions to maintain their function. Mitigation may also be required to avoid any increase in risk above the preexisting conditions following abandonment of the activity. I. Additional Information. When appropriate due to the proposed impacts or the project area conditions, the Director may also require the critical area report to include:

1. Where impacts are proposed, mitigation plans consistent with the requirements of SMC 20.240.082 and the geologic hazards mitigation performance standards and requirements of SMC 20.240.250;

2. A request for consultation with WDFW, the Department of Ecology, local Native American Indian tribes, or other appropriate agency; and

3. Detailed surface and subsurface hydrologic features both on and adjacent to the site.

20.240.250 Geologic hazards – Mitigation performance standards and requirements.

A. **Requirements for Mitigation.** Mitigation is required for proposed adverse impacts and increased risks due to alteration of geologic hazard areas and shall be sufficient to result in no increased risk of the hazard consistent with the development standards in SMC 20.240.224. Mitigation plans shall be submitted as part of the required critical area report, consistent with the requirements of SMC 20.240.080, 20.240.082, and 20.240.240, and this section. When revegetation is required as part of the mitigation, then the mitigation plan shall meet the standards of SMC 20.240.350(H), excluding those standards that are wetland specific.

B. **Preference of Mitigation Actions.** Methods to achieve mitigation for alterations of geologic hazard areas shall be approached in the following order of preference:

1. **Protection.** Mitigation measures that increase the protection of the identified geologic hazard areas include, but are not limited to:

- a. Increased or enhanced buffers;
- b. Setbacks for permanent and temporary structures;
- c. Reduced project scope; and
- d. Retention of existing vegetation.
- 2. Restoration. Restoration of native vegetation.

3. Engineered Stabilization. Engineered design of geologic hazard stabilization to ensure no increased risk of the hazard due to the proposal with preference for bioengineering over structural engineered solutions.

C. **Performance Standards.** The following performance standards shall apply to any mitigation for development proposed within geologic hazard areas:

1. Geotechnical studies shall be prepared by a qualified professional to identify and evaluate potential hazards and to formulate mitigation measures;

2. Construction methods will reduce or not adversely affect geologic hazards;

3. Site planning to minimize disruption of existing topography and natural vegetation;

4. Significant trees shall be preserved, unless removal is unavoidable or otherwise allowed under the provisions of this chapter;

5. Minimize impervious surface coverage;

6. Replant disturbed areas as soon as feasible pursuant to an approved landscape plan. When planting is required, the following standards shall apply:

a. Native species, indigenous to the region, shall be used in any landscaping of disturbed or undeveloped areas and in any enhancement of habitat or buffers;

b. Plant selection shall be consistent with the existing or projected site conditions, including slope aspect, moisture, and shading;

c. Plants should be commercially available or available from local sources;

d. Plant species high in food and cover value for fish and wildlife shall be used;

e. Mostly perennial species should be planted;

<u>f.</u> Committing significant areas of the site to species that have questionable potential for successful establishment shall be avoided;

g. Plant selection, densities, and placement of plants shall be determined by a gualified professional and shown on the design plans;

h. Stockpiling soil and construction materials should be confined to upland areas and contract specifications should limit stockpiling of earthen materials to durations in accordance with City clearing and grading standards, unless otherwise approved by the <u>City;</u>

i. Planting instructions shall be submitted which describe placement, diversity, and spacing of seeds, tubers, bulbs, rhizomes, sprigs, plugs, and transplanted stock;

i. Controlled release fertilizer shall be applied (if required) at the time of planting and afterward only as plant conditions warrant as determined during the monitoring process;

k. An irrigation system shall be installed, if necessary, for the initial establishment period; and

I. The heterogeneity and structural diversity of vegetation shall be emphasized in landscaping;

7. Clearing and grading regulations as set forth by the City, in SMC 20.50.290 through 20.50.370, shall be followed;

8. The use of retaining walls that allow maintenance of existing natural slope areas are preferred over graded slopes;

9. All construction specifications and methods shall be approved by a qualified professional and the City;

10. Construction management shall be provided by a qualified professional. Ongoing work on site shall be inspected by the City;

11. Site drainage design and temporary erosion and sedimentation controls, pursuant to an approved stormwater pollution prevention plan consistent with the adopted stormwater manual, shall be implemented during and after construction;

12. Undevelopable geologic hazard areas larger than one-half acre shall be placed in a separate tract, provided this requirement does not make the lot nonconforming;

13. A monitoring program shall be prepared for construction activities permitted in geologic hazard areas; and

14. Development shall not increase instability, create a hazard to the site or adjacent properties, or result in a significant increase in sedimentation or erosion and adequate mitigation shall be incorporated into the project design to comply with the requirements of SMC 20.240.224 and 20.240.230.

Subchapter 3.

Fish and Wildlife Habitat Conservation Areas

20.240.260 Fish and wildlife habitat – Description and purpose.

A. Fish and wildlife habitat conservation areas (or habitat conservation areas) are lands managed for maintaining populations of species in suitable habitats within their natural geographic distribution so that the habitat available is sufficient to support viable populations over the long term and isolated subpopulations are not created. Fish and wildlife habitat conservation areas include areas with which State and Federal designated threatened, endangered, and sensitive species have a primary association as well as priority species and habitats listed by WDFW, including corridors which connect priority habitat, and those areas which provide habitat for species of local significance, which have been or may be identified in the City of Shoreline Comprehensive Plan. Fish and wildlife habitat conservation areas also include stream areas and buffers which provide important habitat corridors; help maintain water guality; store and convey stormwater and floodwater; recharge ground water; and serve as areas for recreation, education, scientific study, and aesthetic appreciation.

B. The purpose of fish and wildlife habitat conservation areas shall be to protect and conserve the habitat of fish and wildlife species and thereby maintain or increase their populations. The primary purpose of this section is to minimize development impacts to fish and wildlife habitat conservation areas and to:

1. Protect Federal and State listed habitats and species and give special attention to protection and enhancement of anadromous fish populations; and

2. Maintain a diversity of species and habitat within the City; and

3. Coordinate habitat protection to maintain and provide habitat connections; and

4. Help maintain air and water quality and control erosion.

20.240.270 Fish and wildlife habitat – Classification and designation.

A. The City designates the following fish and wildlife habitat conservation areas that meet one or more of the criteria in subsection B of this section, regardless of any formal identification, as critical area, and, as such, these areas are subject to the provisions of this chapter. These areas shall be managed consistent with best available science; including WDFW's Management Recommendations for Priority Habitat and Species. The following fish and wildlife habitat conservation areas are specifically designated, and this designation does not preclude designation of additional areas as consistent with the criteria in subsection B of this section:

1. All regulated streams and wetlands and their associated buffers as determined by a gualified specialist.

2. The waters, bed and shoreline of Puget Sound up to the OHWM.

B. Fish and wildlife habitat conservation areas are those areas designated by the City based on review of the best available science; input from WDFW, the Department of Ecology, USACE, and other agencies; and any of the following criteria:

1. Areas Where State or Federally Designated Endangered, Threatened, and Sensitive Species Have a Primary Association.

a. Federally designated endangered and threatened species are those fish and wildlife species identified by the U.S. Fish and Wildlife Service and the National Marine Fisheries Service that are in danger of extinction or threatened to become endangered. The U.S. Fish and Wildlife Service and the National Marine Fisheries Service should be consulted for current listing status. Federally designated endangered and threatened species known to be identified and mapped by the Washington State Department of Wildlife in Shoreline include, but may not be limited to, the following:

i. Chinook (Oncorhynchus tshawytscha);

ii. Southern resident orca or killer whales (Orcinus orca).

b. State designated endangered, threatened, and sensitive species are those fish and wildlife species native to the State of Washington that are in danger of extinction, threatened to become endangered, vulnerable, or declining and are likely to become endangered or threatened in a significant portion of their range within the State without

cooperative management or removal of threats as identified by WDFW. State designated endangered, threatened, and sensitive species are periodically recorded in WAC 232-12-014 (State endangered species) and WAC 232-12-011 (State threatened and sensitive species), as amended from time to time. WDFW maintains the most current listing and should be consulted for current listing status. State designated endangered, threatened, and sensitive species known to be identified and mapped by WDFW in Shoreline include, but may not be limited to, the following:

i. Northern goshawk (Accipiter gentilis);

ii. Purple martin (Progne subis).

2. State Priority Habitats and Species. Priority habitats and species are considered to be priorities for conservation and management. Priority species require protective measures for their perpetuation due to their population status, sensitivity to habitat alteration, and/or recreational, commercial, or tribal importance. Priority habitats are those habitat types or elements with unique or significant value to a diverse assemblage of species. A priority habitat may consist of a unique vegetation type or dominant plant species, a described successional stage, or a specific structural element. Priority habitats and species are identified by WDFW in the Priority Habitats and Species List. Priority habitats and species known to be identified and mapped by WDFW in Shoreline include, but may not be limited to, the following:

a. Biodiversity areas and corridors identified and mapped along Boeing Creek and in and around Innis Arden Reserve Park:

- b. Chinook/fall chinook (Oncorhynchus tshawytscha);
- c. Coho (Oncrhynchus kisutch);
- d. Dungeness crab (Cancer magister):
- e. Estuarine intertidal aquatic habitat;
- f. Geoduck (Panopea abrupta);
- g. Northern goshawk (Accipiter gentilis);

h. Pacific sand lance (Ammodytes hexapterus);

i. Purple martin (Progne subis);

i. Resident coastal cutthroat (Oncorhynchus clarki);

k. Surf smelt (Hypomesus pretiosus); and

I. Winter steelhead (Oncorhynchus mykiss).

3. Commercial and Recreational Shellfish Areas. These areas include all public and private tidelands or bedlands suitable for shellfish harvest, including shellfish protection districts established pursuant to Chapter 90.72 RCW, as amended from time to time.

4. Kelp and eelgrass beds and herring and smelt spawning areas.

5. Waters of the State. Waters of the State include lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the State of Washington, as classified in WAC 222-16-030, as amended from time to time. Streams are those areas where surface waters produce a defined channel or bed, not including irrigation ditches, canals, storm or surface water runoff devices or other entirely artificial watercourses, unless such watercourses are used by fish or are used to convey streams naturally occurring prior to construction. A channel or bed need not contain water year-round; provided, that there is evidence of at least intermittent flow during years of normal rainfall. Streams shall be classified in accordance with the DNR water typing system (WAC 222-16-030) hereby adopted in its entirety by reference and summarized as follows:

a. Type S: streams inventoried as "shorelines of the State" under the SMA and the rules promulgated pursuant to the SMA, as amended from time to time:

b. Type F: streams which contain fish habitat. Not all streams that are known to exist with fish habitat support anadromous fish populations, or have the potential for anadromous fish occurrence because of obstructions, blockages or access restrictions resulting from existing conditions. Therefore, in order to provide special consideration of and increased protection for anadromous fish in the application of development standards, shoreline streams shall be further classified as follows: i. Anadromous Fish-Bearing Streams (Type F-Anadromous). These streams include:

(A) Fish-bearing streams where naturally recurring use by anadromous fish populations has been documented by a government agency;

(B) Streams that are fish passable or have the potential to be fish passable by anadromous populations, including those from Lake Washington or Puget Sound, as determined by a qualified professional based on review of stream flow, gradient and natural barriers (i.e., natural features that exceed jumping height for salmonids), and criteria for fish passability established by WDFW; and

(C) Streams that are planned for restoration in a six-year capital improvement plan adopted by a government agency or planned for removal of the private dams that will result in a fish-passable connection to Lake Washington or Puget Sound; and

ii. Nonanadromous Fish-Bearing Streams (Type F-Nonanadromous). These include streams which contain existing or potential fish habitat, but do not have the potential for anadromous fish use due to natural barriers to fish passage, including streams that contain resident or isolated fish populations.

<u>The general areas and stream reaches with access for anadromous fish are</u> <u>indicated in the City of Shoreline Stream and Wetland Inventory and Assessment</u> (2004) and basin plans. The potential for anadromous fish access shall be confirmed in the field by a qualified professional as part of a critical area report:

- c. Type Np: perennial nonfish habitat streams;
- d. Type Ns: seasonal nonfish habitat streams; and

e. Piped stream segments: those segments of streams, regardless of their type, that are fully enclosed in an underground pipe or culvert.

20.240.272 Fish and wildlife habitat – Mapping.

A. **Mapping.** The approximate location and extent of fish and wildlife habitat areas are shown in the data layers maintained in the City geographic information system (GIS) and shown in Figure 20.230.080. In addition, the following maps and inventories are hereby adopted by reference as amended:

- 1. WDFW Priority Habitat and Species maps;
- 2. DNR Official Water Type Reference maps;
- 3. DNR Puget Sound Intertidal Habitat Inventory maps;
- 4. DNR Shorezone Inventory;
- 5. DNR Natural Heritage Program mapping data;
- 6. Washington State Department of Health Annual Inventory of Shellfish Harvest Areas;

7. Anadromous and resident salmonid distribution maps contained in the Habitat Limiting Factors reports published by the Washington State Conservation Commission; and

8. DNR State Natural Area Preserves and Natural Resource Conservation Area maps.

B. The inventories and cited maps and resources are to be used as a guide for the City, project applicants, and/or property owners, and may be continuously updated as new fish and wildlife habitat conservation areas are identified or critical area reports are submitted for known fish and wildlife habitat conservation areas. The inventories, maps, and resources are a reference and do not provide a final critical area designation.

20.240.274 Fish and wildlife habitat – General development standards.

A. Development activities and uses shall be prohibited in fish and wildlife habitat conservation areas and associated buffers, except as provided for in this subchapter. Unless allowed under SMC 20.240.040, subsection C of this section, or SMC 20.240.276, development activities and uses that result in alteration of fish and wildlife habitat conservation areas shall be subject to the shoreline variance provisions of 20.220.040.

B. Any proposed alterations permitted, consistent with shoreline variance review, to fish and wildlife habitat conservation area shall require the preparation of a habitat conservation area mitigation plan (commonly referred to as a habitat management plan) to mitigate for the adverse impacts of the proposal, consistent with the recommendations specific to the habitat or species of the WDFW Priority Habitat Program. The habitat management plan shall be prepared by a

gualified professional and reviewed and approved by the City, consistent with the standards for mitigation plans in SMC 20.240.082 and 20.240.300.

C. Activities Allowed in Fish and Wildlife Habitat Conservation Areas. The activities listed below are allowed in fish and wildlife habitat conservation areas pursuant to SMC 20.240.040, Allowed activities, and subject to applicable permit approvals. These activities do not require the submission of a critical area report and are exempt from monitoring and financial guarantee requirements, except where such activities result in a loss of the functions and values of a fish and wildlife habitat conservation area. These activities include:

1. Conservation or preservation of soil, water, vegetation, fish, shellfish, and/or other wildlife that does not entail changing the structure or functions of the existing habitat conservation area.

2. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the fish and wildlife habitat conservation area by changing existing topography, water conditions, or water sources.

3. Permitted alteration to a legally constructed structure existing within a fish and wildlife habitat conservation area buffer that does not increase the footprint of the development or hardscape or increase the impact to a fish and wildlife habitat conservation area, consistent with SMC 20.220.150.

4. Clearing, grading, and the construction of fences and arbors are allowed within the required 10-foot stream buffers for a piped stream segment. if no other critical area or buffer is present.

D. Nonindigenous Species. No plant, wildlife, or fish species not indigenous to the region shall be introduced into a fish and wildlife habitat conservation area unless authorized by a State or Federal permit or approval.

E. Mitigation and Contiguous Corridors. Mitigation sites shall be located to preserve or achieve contiguous wildlife habitat corridors in accordance with a mitigation plan that is part of an approved critical area report to minimize the isolating effects of development on habitat areas, so long as mitigation of aquatic habitat is located within the same aquatic ecosystem as the area disturbed.

F. **Approvals of Activities.** The Director shall condition approvals of development activities allowed within or adjacent to a fish and wildlife habitat conservation area, as necessary to minimize or mitigate any potential adverse impacts. Conditions shall be based on the best available science and may include, but are not limited to, the following:

1. Establishment of buffers;

2. Preservation of important vegetation and/or habitat features such as snags and downed wood specific to the priority wildlife species in the fish and wildlife habitat conservation area;

3. Limitation of access to the habitat area, including fencing to deter unauthorized access;

4. Seasonal restriction of construction activities;

5. Establishment of a duration and timetable for periodic review of mitigation activities; and

6. Requirement of a performance bond, when necessary, to ensure completion and success of proposed mitigation.

G. Mitigation and Equivalent or Greater Shoreline Ecological Functions. Mitigation of alterations to fish and wildlife habitat conservation areas shall achieve equivalent or greater shoreline ecological, biological, and hydrologic functions and shall include mitigation for adverse impacts upstream from, downstream from, or within the same shoreline reach as the development proposal site. Mitigation shall address each function affected by the alteration to achieve functional equivalency or improvement on a per function basis. Mitigation shall be located on site except when demonstrated that a higher level of ecological functioning would result from an off-site location. Mitigation shall be detailed in a fish and wildlife habitat conservation area mitigation plan, consistent with the requirements of SMC 20.240.300.

H. **Approvals and the Best Available Science.** Any approval of alterations or impacts to a fish and wildlife habitat conservation area shall be supported by the best available science.

I. Buffers.

1. Establishment of Buffers. The Director shall require the establishment of buffer areas for activities adjacent to fish and wildlife habitat conservation areas in order to protect fish and wildlife habitat conservation areas. Buffers shall consist of an undisturbed area of native vegetation or areas identified for restoration established to protect the integrity, functions,

and values of the affected habitat. Required buffer widths shall reflect the sensitivity of the habitat and the type and intensity of human activity proposed to be conducted nearby and shall be consistent with the applicable management recommendations issued by WDFW.

2. **Seasonal Restrictions.** When a species is more susceptible to adverse impacts during specific periods of the year, seasonal restrictions may apply. Larger buffers may be required and activities may be further restricted during the specified season.

3. Habitat Buffer Averaging. The Director may allow the recommended fish and wildlife habitat area buffer width to be reduced in accordance with a critical area report, the best available science, and the applicable management recommendations issued by WDFW, only if:

a. It will not reduce stream or habitat functions;

b. It will not adversely affect fish and wildlife habitat;

c. It will provide additional natural resource protection, such as buffer enhancement;

d. The total area contained in the buffer area after averaging is no less than that which would be contained within the standard buffer; and

e. The buffer width is not reduced by more than 25 percent in any location.

J. Signs and Fencing of Fish and Wildlife Habitat Conservation Areas.

1. **Temporary Markers.** The outer perimeter of the fish and wildlife habitat conservation area or buffer and the clearing limits identified by an approved permit or authorization shall be marked in the field with temporary "clearing limits" fencing in such a way as to ensure that no unauthorized intrusion will occur. The marking is subject to inspection by the Director prior to the commencement of permitted activities during the preconstruction meeting required under SMC 20.50.330(E). This temporary marking and fencing shall be maintained throughout construction and shall not be removed until permanent signs, if required, are in place.

2. **Permanent Signs.** As a condition of any permit or authorization issued pursuant to this chapter, the Director may require the applicant to install permanent signs along the

boundary of a fish and wildlife habitat conservation area or buffer, when recommended in a critical area report or otherwise required by the provisions of this chapter.

a. Permanent signs shall be made of an enamel-coated metal face and attached to a metal post or another material of equal durability and nonhazardous. Signs shall be posted at an interval of one per lot or every 50 feet, whichever is less, and shall be maintained by the property owner in perpetuity. The signs shall be worded consistent with the text specified in SMC 20.240.110 or with alternative language approved by the Director.

b. The provisions of subsection (J)(2)(a) of this section may be modified as necessary to assure protection of sensitive features or wildlife.

3. Fencing. Fencing installed as part of a proposed activity or as required in this subsection shall be designed so as to not interfere with species migration, including fish runs, and shall be constructed in a manner that minimizes habitat impacts. Permanent fencing shall be required at the outer edge of the fish and wildlife habitat conservation area buffer under the following circumstances; provided, that the Director may waive this requirement:

a. As part of any development proposal for subdivisions, short plats, multifamily, mixed use, and commercial development where the Director determines that such fencing is necessary to protect the shoreline ecological functions of the fish and wildlife habitat conservation area; provided, that breaks in permanent fencing may be allowed for access to allowed uses (subsection C of this section and SMC 20.240.280(D)):

b. As part of development proposals for public and private parks where the adjacent proposed use is active recreation and the Director determines that such fencing is necessary to protect the shoreline ecological functions of the fish and wildlife habitat conservation area;

c. When buffer averaging is part of a development proposal; or

d. At the Director's discretion, to protect the shoreline ecological functions of the fish and wildlife habitat conservation area, as demonstrated in a critical area report. If found to be necessary, the Director shall condition any permit or authorization issued pursuant to this chapter to require the applicant to install a permanent fence at the edge of the fish and wildlife habitat conservation area or buffer, when fencing will prevent future impacts to the fish and wildlife habitat conservation area.

e. The applicant shall be required to install a permanent fence around the fish and wildlife habitat conservation area or buffer when domestic grazing animals, only as allowed under SMC 20.40.240, are present or may be introduced on site.

K. **Subdivisions.** The subdivision and short subdivision of land in fish and wildlife habitat conservation areas and associated buffers is subject to the following:

1. Land that is located wholly within a fish and wildlife habitat conservation area or its buffer may not be subdivided;

2. Land that is located partially within a fish and wildlife habitat conservation area or its buffer may be divided; provided, that the developable portion of each new lot and its access is located outside of the fish and wildlife habitat conservation area or its buffer. The final lots shall each meet the minimum lot size requirements of SMC 20.50.020.

3. Access roads and utilities serving the proposed subdivision may be permitted within the fish and wildlife habitat conservation area and associated buffers only if the applicant's gualified professional(s) demonstrate, and the City determines, that no other feasible alternative exists, all unavoidable impacts are fully mitigated, and the use is consistent with this chapter.

20.240.276 Fish and wildlife habitat – Specific habitat development standards. In addition to the provisions in SMC 20.240.274, the following development standards apply to the specific habitat types identified below:

A. Endangered, Threatened, and Sensitive Species.

1. No development shall be allowed within a fish and wildlife habitat conservation area or buffer with which State or Federally endangered, threatened, or sensitive species have a primary association, except that which is provided for by a management plan established by WDFW or applicable State or Federal agency.

2. Whenever activities are proposed adjacent to a fish and wildlife habitat conservation area with which State or Federally endangered, threatened, or sensitive species have a

primary association, such area shall be protected through the application of protection measures in accordance with a critical area report prepared by a qualified professional and approved by the City. Approval for alteration of the fish and wildlife habitat conservation area or its buffer shall not occur prior to consultation with WDFW for animal species, DNR for plant species, and other appropriate Federal or State agencies.

B. Anadromous Fish.

1. All activities, uses, and alterations proposed to be located in water bodies used by anadromous fish or in areas that affect such water bodies shall give special consideration to the preservation and enhancement of anadromous fish habitat, including, but not limited to, adhering to the following standards:

a. Subsection A of this section applies to anadromous fish where those populations are identified as endangered, threatened or sensitive species;

b. Activities shall be timed to occur only during the allowable work window as designated by WDFW for the applicable species;

c. An alternative alignment or location for the activity is not feasible;

d. The activity is designed so that it will not degrade the shoreline ecological function of the fish habitat or other critical areas; and

e. Any impacts to the shoreline ecological function of the fish and wildlife habitat conservation area are mitigated in accordance with an approved critical area report.

2. Structures that prevent migration shall not be allowed in the portion of water bodies currently or historically used by anadromous fish. Fish bypass facilities shall be provided, consistent with RCW 77.57.030, as amended from time to time, that allow the upstream migration of adult fish and prevent fry and juveniles migrating downstream from being trapped or harmed.

3. Fills, when authorized by the City and all applicable joint aquatic resource permit application approvals, shall not adversely impact anadromous fish or their habitat or shall mitigate any unavoidable impacts and shall only be allowed for a water-dependent use.

C. Wetland Habitats. All proposed activities within or adjacent to fish and wildlife habitat conservation areas containing wetlands shall conform to the wetland development performance standards set forth in Chapter 20.240 SMC, Subchapter 4, Wetlands. If nonwetlands habitat and wetlands are present at the same location, the provisions of this subchapter or the Wetlands subchapter, whichever provides greater protection to the habitat, apply.

D. **Streams.** Activities, uses and alterations of streams shall be prohibited, subject to the shoreline variance provisions (SMC 20.220.040), unless otherwise allowed by the allowed activities provisions of this chapter. No alteration to a stream buffer shall be permitted unless consistent with the provisions of this chapter and the specific standards for development outlined below.

1. **Type S and Type F-Anadromous Streams.** Development activities and uses that result in alteration of Type S and Type F-anadromous streams and their associated buffers shall be prohibited subject to the shoreline variance provisions of SMC 20.220.040.

2. **Type F-Nonanadromous and Type Np Streams.** Development activities and uses that result in alteration of Type F-nonanadromous and Type Np streams are prohibited subject to the shoreline variance provisions of SMC 20.220.040.

3. **Type Ns Streams.** Development activities and uses that result in unavoidable impacts may be permitted in Type Ns streams and associated buffers in accordance with an approved critical area(s) report and compensatory mitigation plan, and only if the proposed activity is consistent with the purpose and intent of the SMA, this Master Program, and this chapter. Full compensation for the loss of acreage and functions of streams and buffers shall be provided in compliance with the mitigation performance standards and requirements of these regulations.

4. **Stream Crossing.** Crossing of streams may be permitted based on the findings in a critical area report, subject to the limitations in subsections (D)(1), (2), and (3) of this section, and consistent with the following:

a. **Bridges.** Bridges shall be used to cross Type S and Type F-anadromous streams. Culverted crossings and other obstructive means of crossing Type S and Type Fanadromous streams shall be prohibited; and b. **Culverts.** Culverts are allowed for crossing of Type F-nonanadromous, Np, and Ns streams when fish passage will not be impaired and when the following design criteria and conditions are met:

i. Oversized culverts, that allow for fish passage and floodplain or wetland connectivity, will be installed;

ii. Culverts for Type F streams shall be designed for fish passage that will allow natural stream functions and processes to occur (i.e., sediment, wood, and debris transport) where appropriate;

iii. Gravel substrate will be placed in the bottom of the culvert to a minimum depth of one foot for Type F streams;

iv. A maintenance covenant shall be recorded on title with King County that requires the property owner to, at all times, keep any culvert free of debris and sediment to allow free passage of water and, if applicable, fish; and

v. The City may require that a culvert be removed from a stream as a condition of approval, unless it is demonstrated conclusively that the culvert is not detrimental to fish habitat or water quality, or removal would be detrimental to fish or wildlife habitat or water quality.

5. **Relocation.** Relocation of a Type S, F, or Np stream may be allowed, subject to the limitations in subsections (D)(1) and (2) of this section, and only when the proposed relocation is part of an approved mitigation or rehabilitation plan, will result in equal or better habitat and water quality, and will not diminish the flow capacity of the stream. Relocation of a Type Ns stream may be allowed, subject to the limitation in subsection (D)(3) of this section, and only when the proposed relocation will result in equal or better habitat and will not diminish the flow capacity of the stream.

6. **Restoring Piped Watercourses.** The City allows the voluntary opening of previously channelized/culverted streams and the rehabilitation and restoration of streams. Restoring piped watercourses may be approved, consistent with the following:

a. When piped watercourse sections are restored, a protective buffer shall be required of the stream section. The buffer distance shall be consistent with the buffer relief that

may be granted consistent with SMC 20.240.056. Voluntary critical area restoration projects. The stream and buffer area shall include habitat improvements and measures to prevent erosion, landslide, and water quality impacts. Opened channels shall be designed to support fish and wildlife habitat and uninhibited fish access, unless determined to be unfeasible as demonstrated in a restoration plan reviewed and approved by the City:

b. Removal of pipes conveying streams shall only occur when the City determines that the proposal will result in an improvement of water quality and ecological functions and will not significantly increase the threat of erosion, flooding, slope stability, or other hazards; and

c. Where the buffer of the restored stream would extend onto an adjacent property, the applicant shall obtain a written agreement from the affected neighboring property owner prior to the City approving the restoration of the piped watercourse.

E. **Priority Species.** Fish and wildlife habitat conservation areas or buffers with Priority Species shall be subject to the following:

1. Development activities and uses that result in unavoidable impacts may be permitted in priority species habitat areas and associated buffers in accordance with an approved critical area(s) report and habitat management plan, only if the proposed activity is consistent with the purpose and intent of the SMA, this Master Program, and this chapter. Full compensation for the loss of acreage and functions of habitat and buffer areas shall be provided in compliance with the mitigation performance standards and requirements of these regulations.

20.240.280 Fish and wildlife habitat – Required buffer areas.

A. Buffer widths for fish and wildlife habitat areas shall be based on consideration of the following factors: species-specific recommendations of WDFW; recommendations contained in a habitat management plan submitted by a qualified professional; and the nature and intensity of land uses and activities occurring on the land adjacent to the site.

B. Low-impact uses and activities which are consistent with the purpose and function of the habitat buffer and do not detract from its integrity may be permitted within the buffer depending on the sensitivity of the habitat area. Examples of uses and activities which may be permitted in

appropriate cases include trails that are pervious, viewing platforms, low-impact stormwater management facilities such as bioswales and other similar uses and activities; provided, that any impacts to the buffer resulting from such permitted facilities shall be fully mitigated.

C. Standard Required Stream Buffer Widths. Buffer widths shall reflect the sensitivity of the stream type, the risks associated with development and, in those circumstances permitted by these regulations, the type and intensity of human activity and site design proposed to be conducted on or near the stream area. Stream buffers shall be measured from the OHWM or the top of the bank, if the OHWM cannot be determined. Buffers shall be measured with rounded ends where streams enter or exit piped segments.

1. The following buffers are established for streams based upon the DNR water typing system and further classification based on anadromous or nonanadromous fish presence for the Type F streams:

<u>Stream Type</u>	Standard Buffer Width
	<u>(ft)</u>
Type S	<u>150</u>
Type F-anadromous	<u>115</u>
Type F-nonanadromous	<u>75</u>
Type Np	<u>65</u>
Type Ns	<u>45</u>
Piped Stream Segments	<u>10</u>

Table 20.240.280(1)

2. Increased Stream Buffer Widths. The recommended stream buffer widths shall be increased, as follows:

a. When the qualified professional determines that the recommended width is insufficient to prevent habitat degradation and to protect the structure and functions of the habitat area;
b. When the flood hazard area exceeds the recommended stream buffer width, the stream buffer area shall extend to the outer edge of the flood hazard area;

c. When a channel migration zone is present, the stream buffer width shall be measured from the outer edge of the channel migration zone;

d. When the habitat area is in an area of high blowdown potential, the stream buffer width shall be expanded an additional 50 feet on the windward side; or

e. When the habitat area is within an erosion or landslide hazard area, or buffer, the stream buffer width shall be the recommended distance, or the erosion or landslide hazard area or buffer, whichever is greater.

3. Stream Buffer Width Averaging with Enhancement. The Director may allow the recommended stream buffer width to be reduced in accordance with an approved critical area report and the best available science, on a case-by-case basis, by averaging buffer widths. Any allowance for averaging buffer widths shall only be granted based on the development and implementation of a buffer enhancement plan for areas of buffer degradation, consistent with the provisions in subsection (C)(4) of this section. Only those portions of the stream buffer existing within the project area or subject parcel shall be considered in the total buffer area for buffer averaging. Averaging of buffer widths may only be allowed where a qualified professional demonstrates that:

a. The width reduction and buffer enhancement plan provides evidence that the stream or habitat functions, including those of nonfish habitat and riparian wildlife, will be:

i. Increased or maintained through plan implementation for those streams where existing buffer vegetation is generally intact native vegetation; or

ii. Increased through plan implementation for those streams where existing buffer vegetation is inadequate to protect the functions and values of the stream;

b. The total area contained in the buffer area of each stream on the development proposal site is not decreased after averaging;

c. The recommended riparian habitat area width is not reduced by more than 25 percent in any one location; and

d. The width reduction will not be located within another critical area or associated buffer.

4. Stream Buffer Enhancement Measures. The measures determined most applicable and/or appropriate will be considered in buffer averaging requirements. These include but are not limited to:

a. Removal of fish barriers to restore accessibility to fish.

b. Enhancement of fish habitat using log structures incorporated as part of a fish habitat enhancement plan.

c. Enhancement of fish and wildlife habitat structures that are likely to be used by wildlife, including wood duck houses, bat boxes, nesting platforms, snags, rootwads/stumps, birdhouses, and heron nesting areas.

d. Additional enhancement measures may include:

i. Planting native vegetation within the buffer area, especially vegetation that would increase value for fish and wildlife, increase stream bank or slope stability, improve water quality, or provide aesthetic/recreational value; or

ii. Creation of a surface channel where a stream was previously underground, in a culvert or pipe. Surface channels which are "daylighted" shall be located within a buffer area and shall be designed with energy dissipating functions or channel roughness features such as meanders and rootwads to reduce future bank failures or nearby flooding;

<u>iii. Removal or modification of existing stream culverts (such as at road crossings)</u> to improve fish passage, stream habitat, and flow capabilities; or

iv. Upgrading of retention/detention facilities or other drainage facilities beyond required levels.

D. Stream Buffer Allowed Uses and Alteration. Activities and uses shall be prohibited in stream buffers, except as provided for in this chapter. Stream buffers shall be maintained as undisturbed or restored natural vegetation. No clearing or grading activities are allowed within required stream buffers except as allowed under SMC 20.240.040, 20.240.274, and WAC 173-

27-040, as amended from time to time; or consistent with an approved buffer enhancement plan consistent with the provisions of this subchapter. No structures or improvements shall be permitted within the stream buffer area, including buildings, decks, docks, except as otherwise permitted or required under the SMA, this Master Program, and this chapter, or under one of the following circumstances:

1. **Approved Mitigation.** When the improvements are part of an approved rehabilitation or mitigation plan; or

2. **Trails.** Construction of trails over and in the buffer of piped stream segments, and the construction of trails near other stream segments, consistent with the following criteria:

a. Trails should be constructed of pervious surface, with preference for natural materials. Raised boardwalks utilizing nontreated pilings may be acceptable;

b. Trails shall be designed in a manner that minimizes impact on the stream system;

c. Trails shall have a maximum trail corridor width of five feet; and

d. Trails should be located within the outer 25 percent of the buffer, i.e., that portion of the buffer that is farther away from the stream and located to avoid removal of significant trees; or

3. **Footbridges.** Construction of footbridges that minimize the impact to the stream system; or

4. **Informational Signs.** Construction and placement of informational signs or educational demonstration facilities limited to no more than one square yard surface area and four feet high, provided there is no permanent infringement on stream flow; or

5. Stormwater Management Facilities. Establishment of low-impact stormwater management facilities, such as stormwater dispersion outfalls and bioswales, may be allowed within stream buffers consistent with the adopted stormwater manual; provided, that:

a. No other location is feasible;

b. Pipes and conveyance facilities only in the outer 25 percent of the standard buffer area as set forth in Table 20.240.280(1);

c. Stormwater dispersion outfalls, bioswales, bioretention facilities, and other lowimpact facilities consistent with the adopted stormwater manual may be allowed anywhere within stream buffers when determined by a qualified professional that the location of the facility will enhance the buffer area and protect the stream; and

d. Such facilities are designed consistent with the requirements of SMC 20.70.330.

6. Development Proposals within Physically Separated and Functionally Isolated Stream Buffers. Consistent with the definition of "buffers" (SMC 20.20.012), areas that are functionally isolated and physically separated from stream due to existing, legally established roadways and railroads or other legally established structures or paved areas eight feet or more in width that occur between the area in question and the stream shall be considered physically isolated and functionally separated stream buffers. Once determined by the Director, based on a submitted critical area report to be a physically separated and functionally isolated stream buffer, development proposals shall be allowed in these areas.

20.240.290 Fish and wildlife habitat - Critical area report requirements.

A. **Report Required.** If the Director determines that the site of a proposed development includes, is likely to include, or is adjacent to a fish and wildlife habitat conservation area, a critical area report shall be required. Critical area report requirements for fish and wildlife habitat conservation areas are generally met through submission to the Director of one or more fish and wildlife habitat critical area reports. In addition to the general critical area report requirements of SMC 20.240.080, critical area reports for fish and wildlife habitat conservation areas shall meet the requirements of this section. Critical area reports for two or more types of critical areas shall meet the report requirements for each relevant type of critical area.

B. **Preparation by a Qualified Professional.** Critical areas reports for a habitat conservation area shall be prepared and signed by a qualified professional who is a biologist, ecologist, or other scientist with the minimum required experience, per SMC 20.20.042, related to the specific type(s) of fish and wildlife habitats identified.

C. Third Party Review Required. Critical areas studies and reports on fish and wildlife habitat conservation areas shall be, at the applicant's sole expense, subject to third party

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review, consistent with SMC 20.240.080(C), and in any of the additional following circumstances:

<u>1. Mitigation is required for impacts to Type S, Type F, or Type Np streams and/or buffers;</u> <u>or</u>

2. Mitigation is required for impacts to Type Ns streams.

D. Minimum Report Contents for Fish and Wildlife Habitat Conservation Areas. The critical area written report(s) and accompanying plan sheet(s) shall contain the following information at a minimum:

1. The minimum report contents required per SMC 20.240.080(E);

2. Documentation of any fieldwork performed on the site, including field data sheets for delineations, water typing and other habitat conservation area classification, baseline hydrologic data, site photos, etc.;

3. A description of the methodologies used to conduct the delineations, classifications, or impact analyses, including reference;

4. **Site Plans.** A copy of the site plan sheet(s) for the project shall be included with the written report and shall include, at a minimum:

a. Maps (to scale) depicting delineated and surveyed fish and wildlife habitat conservation areas and required buffers on site, including buffers for off-site critical areas that extend onto the project site; the development proposal; other critical areas; clearing and grading limits; areas of proposed impacts to fish and wildlife habitat conservation areas and/or buffers (include square footage estimates); and

b. A depiction of the proposed stormwater management facilities and outlets (to scale) for the development, including estimated areas of intrusion into the buffers of any critical areas. The written report shall contain a discussion of the potential impacts to the fish and wildlife habitat conservation areas associated with anticipated hydroperiod alterations from the project;

5. **Habitat Assessment.** A habitat assessment is an investigation of the project area to evaluate the potential presence or absence of designated critical fish or wildlife species or

habitat. A critical area report for a fish and wildlife habitat conservation area shall contain an assessment of habitats including the following site- and proposal-related information at a minimum:

a. Detailed description of vegetation on and adjacent to the project area and its associated buffer;

b. Identification of any species of local importance, priority species, or endangered, threatened, sensitive, or candidate species that have a primary association with habitat on or adjacent to the project area, and assessment of potential project impacts to the use of the site by the species;

c. A discussion of any Federal, State, or local special management recommendations, including WDFW habitat management recommendations, that have been developed for species or habitats located on or adjacent to the project area;

d. A detailed discussion of the direct and indirect potential impacts on habitat by the project, including potential impacts to water quality;

e. A discussion of measures, including avoidance, minimization, and mitigation, proposed to preserve existing habitats and restore any habitat that was degraded prior to the current proposed land use activity and to be conducted in accordance with SMC 20.240.053;

<u>f.</u> A discussion of ongoing management practices that will protect habitat after the project site has been developed, including proposed monitoring and maintenance programs; and

6. Additional Technical Information Requirements for Streams. Critical area reports for streams shall be consistent with the specific development standards for streams in SMC 20.240.276 and 20.240.280 and may be met through submission of one or more specific report types. If stream buffer enhancement is proposed to average stream buffer width, a stream buffer enhancement plan shall be submitted in addition to other critical area report requirements of this section. If no project impacts are anticipated and standard stream buffer widths are retained, a stream delineation report, general critical areas report or other reports, alone or in combination, may be submitted as consistent with the specific requirements of this section. In addition to the basic critical area report requirements for fish and wildlife habitat conservation areas provided in subsections A through C of this section, technical information on streams shall include the following information at a minimum:

a. A written assessment and accompanying maps of the stream and associated hydrologic features on and off site within 200 feet of the project area, including the following information at a minimum:

i. Stream survey showing the field delineated OHWM(s);

ii. Standard stream buffer boundary;

iii. Boundary for proposed stream buffers averaging, if applicable;

iv. Vegetative, faunal, and hydrologic characteristics;

v. Soil and substrate conditions; and

vi. Topographic elevations, at two-foot contours;

b. A detailed description and functional assessment of the stream buffer under existing conditions pertaining to the protection of stream functions, fish habitat and, in particular, potential anadromous fisheries;

c. A habitat and native vegetation conservation strategy that addresses methods to protect and enhance on-site habitat and stream functions;

d. Proposed buffer enhancement, if needed, including a written assessment and accompanying maps and planting plans for buffer areas to be enhanced, including the following information at a minimum:

i. A description of existing buffer conditions;

ii. A description of proposed buffer conditions and how proposed conditions will increase buffer functions in terms of stream and fish habitat protection;

iii. Performance standards for measuring enhancement success through a monitoring period of at least five years; and

iv. Provisions for monitoring and submission of monitoring reports documenting buffer conditions, as compared to performance standards, for enhancement success;

e. A discussion of ongoing management practices that will protect the shoreline ecological function of the stream through maintenance of vegetation density within the stream buffer.

E. Additional Information. When appropriate due to the type of habitat or species present or the project area conditions, the Director may also require the critical area report to include:

1. Where impacts are proposed, mitigation plans consistent with the requirements of SMC 20.240.082 and the fish and wildlife habitat mitigation performance standards and requirements of SMC 20.240.300;

2. Third party review to include any recommendations as appropriate by a qualified professional, under contract with or employed by the City, may be required at the applicant's expense of the critical area report analysis and the effectiveness of any proposed mitigating measures or programs;

3. A request for consultation with WDFW, the Department of Ecology, local Native American Indian tribes or other appropriate agency;

4. Copies of the joint aquatic resource permit application (JARPA) and related approvals, such as a hydraulic project approval (HPA) from the DFW, when applicable to the project; and

5. Detailed surface and subsurface hydrologic features both on and adjacent to the site.

20.240.300 Fish and wildlife habitat – Mitigation performance standards and requirements.

A. **Requirements for Mitigation.** Where impacts cannot be avoided, and the applicant has exhausted all feasible design alternatives, the applicant or property owner shall seek to implement other appropriate mitigation actions in compliance with the intent, standards and criteria of this section. Mitigation provisions shall be applied through the shoreline variance provisions in SMC 20.220.040, unless mitigated alterations are specifically allowed by the provisions of this subchapter. In an individual case, these actions may include consideration of

alternative site plans and layouts, reductions in the density or scope of the proposal, and/or implementation of the performance standards listed in this section.

B. Additional Requirements for Stream Mitigation. Significant adverse impacts to the shoreline ecological function of the stream area shall be mitigated. Mitigation actions shall be implemented in the preferred sequence: avoidance, minimization, restoration and replacement. Proposals which include less preferred and/or compensatory mitigation shall demonstrate that:

1. All feasible and reasonable measures will be taken to reduce impacts and losses to the stream, or to avoid impacts where avoidance is required by these regulations;

2. The restored, created or enhanced stream area or buffer will be available and persistent as the stream or buffer area it replaces; and

3. No overall net loss will occur in the shoreline ecological functions of the stream.

C. Compensating for Lost or Impacted Functions. Mitigation of alterations to fish and wildlife habitat shall achieve equivalent or greater shoreline ecological, biological, and hydrologic functions and shall include mitigation for adverse impacts upstream or downstream of the development proposal site on a per function basis. Mitigation shall be located on site except when demonstrated that a higher level of ecological functioning would result from an offsite location. A mitigation plan may include the following:

1. Native vegetation planting plan;

2. Retention, enhancement or restoration plan of specific habitat features;

3. Plans for control of nonnative invasive plant or wildlife species; and

4. Stipulations for use of innovative, sustainable building practices.

D. **Preference of Mitigation Actions.** Methods to achieve compensation for the shoreline ecological function of fish and wildlife habitat shall be approached in the following order of preference:

1. **Protection.** Mitigation measures that increase the protection of the identified fish and wildlife habitat conservation areas may include but are not limited to:

- a. Increased or enhanced buffers;
- b. Setbacks for permanent and temporary structures;
- c. Reduced project scope;
- d. Limitations on construction hours;
- e. Limitations on hours of operation; and/or
- f. Relocation of access;

2. Restoration. Restoration of degraded habitat.

3. **Creation.** Creation (establishment) of wildlife habitat on disturbed upland sites such as those with vegetative cover consisting primarily of nonnative species. This should be attempted only when the site conditions are conducive to the habitat type that is anticipated in the design.

4. Enhancement. Enhancement of significantly degraded habitat in combination with restoration or creation. Enhancement alone will result in a loss of habitat acreage and is less effective at replacing the functions lost. Enhancement should be part of a mitigation package that includes replacing the impacted area and meeting appropriate ratio requirements.

5. **Preservation.** Preservation of high-quality, at-risk fish and wildlife habitat as compensation is generally acceptable when done in combination with restoration, creation, or enhancement; provided, that a minimum of 1:1 acreage replacement is provided by reestablishment or creation. Preservation of high-quality, at-risk fish and wildlife habitat may be considered as the sole means of compensation for habitat impacts when the following criteria are met:

a. Habitat impacts will not have a significant adverse impact on habitat for listed fish, or other ESA-listed species;

b. There is no net loss of habitat functions and values within the watershed or basin;

c. The impact area is small (generally less than one-half acre) and/or impacts are occurring to a low-functioning system; and

d. All preservation sites shall include buffer areas adequate to protect the habitat and its functions and values from encroachment and degradation.

E. Location and Timing of Stream Mitigation.

1. Mitigation shall be provided on site, unless on-site mitigation is not scientifically feasible due to the physical features of the property. The burden of proof shall be on the applicant to demonstrate that mitigation cannot be provided on site.

2. When mitigation cannot be provided on site, mitigation shall be provided in the immediate vicinity of the permitted activity on property owned or controlled by the applicant, such as an easement, provided such mitigation is beneficial to the fish and wildlife habitat conservation area and associated resources. It is the responsibility of the applicant to obtain title to off-site mitigation areas. Mitigation may be considered on City-owned property, or on similar publicly owned property for which title is not available, through a City mitigation program if programmatic mitigation areas have been identified by the City.

3. In-kind mitigation shall be provided, except when the applicant demonstrates and the City concurs that greater functional and habitat value can be achieved through out-of-kind mitigation.

<u>4.</u> Only when it is determined by the City that subsections (B)(1), (2), and (3) of this section are inappropriate and impractical shall off-site, in-kind mitigation or off-site, out-of-kind mitigation be considered.

5. When stream mitigation is permitted by this chapter on site or off site, the mitigation project shall occur near an adequate water supply (stream, ground water) with a hydrologic connection to the mitigation area to ensure successful development or restoration.

6. Any agreed-upon mitigation proposal shall be completed prior to project construction, unless a phased schedule that assures completion concurrent with project construction has been approved by the City.

7. Restored or created streams, where permitted by this chapter, shall be an equivalent or higher stream value or function than the altered stream.

F. **Performance Standards.** The following mitigation measures shall be reflected in fish and wildlife habitat conservation area mitigation planning:

1. The maintenance and protection of habitat functions and values shall be considered a priority in site planning and design;

2. Buildings and structures shall be located in a manner that preserves and minimizes adverse impacts to important habitat areas. This may include clustering buildings and locating fences outside of habitat areas;

3. Retained habitat shall be integrated into open space and landscaping;

 Where possible, habitat and vegetated open space shall be consolidated in contiguous blocks;

5. Habitat shall be located contiguous to other habitat areas, open space, or landscaped areas, both on and off site, to contribute to a continuous system or corridor that provides connections to adjacent habitat areas;

6. When planting is required, the following standards shall apply:

a. Native species, indigenous to the region, shall be used in any landscaping of disturbed or undeveloped areas and in any enhancement of habitat or buffers;

b. Plant selection shall be consistent with the existing or projected site conditions, including slope aspect, moisture, and shading;

c. Plants should be commercially available or available from local sources;

d. Plant species high in food and cover value for fish and wildlife shall be used;

e. Mostly perennial species should be planted;

<u>f.</u> Committing significant areas of the site to species that have questionable potential for successful establishment shall be avoided;

g. Plant selection, densities, and placement of plants shall be determined by a gualified professional and shown on the design plans;

h. Stockpiling soil and construction materials should be confined to upland areas and contract specifications should limit stockpiling of earthen materials to durations in accordance with City clearing and grading standards, unless otherwise approved by the <u>City;</u>

i. Planting instructions shall be submitted which describe placement, diversity, and spacing of seeds, tubers, bulbs, rhizomes, sprigs, plugs, and transplanted stock;

i. Controlled release fertilizer shall be applied (if required) at the time of planting and afterward only as plant conditions warrant as determined during the monitoring process;

k. An irrigation system shall be installed, if necessary, for the initial establishment period;

I. The heterogeneity and structural diversity of vegetation shall be emphasized in landscaping; and

m. Significant trees shall be preserved;

7. All construction specifications and methods shall be approved by a qualified professional and the City; and

8. Construction management shall be provided by a qualified professional. Ongoing work on site shall be inspected by the City.

G. **Mitigation Plan.** Mitigation plans shall be submitted as part of the required critical area report consistent with the requirements of SMC 20.240.080, 20.240.082, and 20.240.290 and this section. When revegetation is required as part of the mitigation, then the mitigation plan shall meet the standards of SMC 20.240.350(H), excluding those standards that are wetland specific.

H. **Monitoring Program and Contingency Plan.** A monitoring program shall be implemented by the applicant to determine the success of the mitigation project and any necessary corrective actions. This program shall determine if the original goals and objectives are being met. The monitoring program will be established consistent with the guidelines contained in SMC 20.240.082(D).

Subchapter 4.

Wetlands

20.240.310 Wetlands - Purpose.

A. Wetlands help to maintain water quality; store and convey stormwater and floodwater; recharge ground water; provide important fish and wildlife habitat; and serve as areas for recreation, education, scientific study and aesthetic appreciation.

B. The City's overall goal shall be to achieve no net loss of wetlands. This goal shall be implemented through retention of the function, value and acreage of wetlands within the City. Wetland buffers serve to moderate runoff volume and flow rates; reduce sediment, chemical nutrient and toxic pollutants; provide shading to maintain desirable water temperatures; provide habitat for wildlife; protect wetland resources from harmful intrusion; and generally preserve the ecological integrity of the wetland area.

C. The primary purpose of the wetland regulations is to avoid detrimental wetland impacts and achieve a goal of no net loss of wetland function, value and acreage; and where possible enhance and restore wetlands.

20.240.320 Wetlands - Designation and rating.

A. **Designation.** All areas meeting the definition of a wetland and identification criteria as wetlands pursuant to SMC 20.240.322, regardless of any formal identification, are hereby designated critical areas and are subject to the provisions of this chapter.

B. **Rating.** All wetlands shall be rated by a qualified professional according to the current Department of Ecology wetland rating system, as set forth in the Washington State Wetland Rating System for Western Washington 2014 (Department of Ecology Publication No. 014-06-029, or as revised). Wetland rating categories shall be applied as the wetland exists on the date of adoption of the rating system by the City, as the wetland naturally changes thereafter, or as the wetland changes in accordance with permitted activities.

1. **Category I.** Category I wetlands are those that represent unique or rare wetland types, are more sensitive to disturbance than most wetlands, are relatively undisturbed and contain ecological attributes that are impossible to replace within a human lifetime, or provide a high level of functions. The following types of wetlands are Category I:

a. Relatively undisturbed estuarine wetlands larger than one acre;

b. Wetlands of high conservation value that are identified by scientists of the Washington Natural Heritage Program/DNR;

c. Bogs;

d. Mature and old-growth forested wetlands larger than one acre;

e. Wetlands in coastal lagoons; and

<u>f.</u> Wetlands that perform many functions well (scoring 23 points or more based on functions).

2. **Category II.** Category II wetlands are those that are difficult, though not impossible, to replace and provide high levels of some functions. The following types of wetlands are <u>Category II:</u>

a. Estuarine wetlands smaller than one acre, or disturbed estuarine wetlands larger than one acre;

b. Interdunal wetlands larger than one acre or those found in a mosaic of wetlands; and

c. Wetlands with a moderately high level of functions (scoring between 20 and 22 points).

3. **Category III.** Category III wetlands are those with a moderate level of functions, generally have been disturbed in some ways, can often be adequately replaced with a wellplanned mitigation project, and are often less diverse or more isolated from other natural resources in the landscape than Category II wetlands. The following types of wetlands are Category III:

a. Wetlands with a moderate level of functions (scoring between 16 and 19 points); or

b. Interdunal wetlands between 0.1 and one acre.

4. **Category IV.** Category IV wetlands are those with the lowest levels of functions (scoring below 16 points) and are often heavily disturbed. These are wetlands that should be able to replace, or in some cases to improve. However, experience has shown that replacement

cannot be guaranteed in any specific case. These wetlands may provide some important functions, and also need to be protected.

C. **Illegal Modifications.** Wetland rating categories shall not change due to illegal modifications or alterations. A wetland's category shall be based on the premodification/alteration analysis of the wetland.

D. At the time of adoption of the critical area amendments to this Master Program, Ordinance 856, there were no identified Category I wetlands identified within the City. If this category of wetland is subsequently identified, any applicable standards may temporarily be used on an interim basis by the Director based on Washington State guidance on protection of the identified type of resource until such time as permanent shoreline regulations can be established.

20.240.322 Wetlands – Mapping and delineation.

A. **Mapping.** The approximate location and extent of wetlands are shown in the wetland data layer maintained in the City geographic information system (GIS) and shown in Figure 20.230.080. In addition, the following maps and inventories are hereby adopted by reference as amended:

1. City of Shoreline, Basin Characterization Reports and Stream and Wetland Inventory and Assessment, Tetra Tech (May 2004);

2. City stormwater basin plans as completed and updated;

3. Soils maps produced by the USDA National Resources Conservation Service; and

4. The National Wetlands Inventory, produced by the U.S. Fish and Wildlife Service.

B. **Reference Only.** The inventories and cited resources are to be used as a guide for the City, project applicants, and/or property owners, and may be continuously updated as new wetlands are identified or critical area reports are submitted for known wetlands. These inventories and cited resources are a reference and do not provide a final critical area designation.

C. Identification and Delineation. Identification of wetlands and delineation of their boundaries pursuant to this chapter shall be done in accordance with the approved Federal wetland delineation manual and applicable regional supplements per WAC 173-22-035, as

amended from time to time. The exact location of a wetland's boundary shall be determined through the performance of a field investigation by a qualified professional. Wetland delineations are valid for five years; after such date the Director shall determine whether a revision or additional assessment is necessary.

D. **Pre-assessment.** To facilitate long-range planning using a landscape approach, the Director may identify and pre-assess wetlands using the rating system and establish appropriate wetland buffer widths for such wetlands. The Director will prepare maps of wetlands that have been pre-assessed in this manner.

20.240.324 Wetlands – Development standards.

A. Activities and uses shall be prohibited in wetlands and wetland buffers, except as provided for in this chapter.

B. Activities Allowed in Wetlands. The activities listed below are allowed in wetlands pursuant to SMC 20.240.040, Allowed activities, and subject to applicable permit approvals. These activities do not require submission of a critical area report, except where such activities result in a net loss of the shoreline ecological function provided by a wetland or wetland buffer. These activities include:

1. Conservation or preservation of soil, water, vegetation, fish, shellfish, and/or other wildlife that does not entail changing the structure or functions of the existing wetland.

2. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

3. Drilling for utilities/utility corridors under a wetland, with entrance/exit portals located completely outside of the wetland buffer; provided, that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column will be disturbed.

4. Enhancement of a wetland through the select removal of nonnative invasive plant species. Removal of invasive plant species shall be restricted to hand labor and handheld

equipment unless permits from the appropriate regulatory agencies have been obtained for approved biological or chemical treatments. Not more than 500 square feet of area may be cleared, as calculated cumulatively over one year, on private property without a permit. All removed plant material shall be taken away from the site and disposed of appropriately. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds or the King County Noxious Weed List shall be handled and disposed of according to a noxious weed control plan appropriate to that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

5. Permitted alteration to a legally constructed structure existing within a wetland or wetland buffer that does not increase the footprint of the development or hardscape or increase the impact to a wetland or wetland buffer, consistent with SMC 20.220.150.

C. Category I Wetlands. Development activities and uses that result in alteration of Category I wetlands and their associated buffers shall be prohibited subject to the shoreline variance provisions of SMC 20.220.040.

D. Category II and III Wetlands. Development activities and uses that result in alteration of Category II and III wetlands shall be prohibited subject to the shoreline variance provisions of SMC 20.220.040 and the following criteria:

1. The basic project proposed cannot reasonably be accomplished on another site or sites in the general region while still successfully avoiding or resulting in less adverse impact on a wetland:

2. All on-site alternative designs that would avoid or result in less adverse impact on a wetland or its buffer, such as a reduction to the size, scope, configuration, or density of the project are not feasible; and

3. Full compensation for the loss of acreage and functions and values of wetland and buffers due to unavoidable impacts shall be provided in compliance with the mitigation performance standards and requirements of this chapter.

E. Category IV Wetlands, Except Small Hydrologically Isolated Wetlands. Development activities and uses that result in unavoidable impacts may be permitted in Category IV wetlands and associated buffers in accordance with an approved critical area(s) report and compensatory mitigation plan, and only if the proposed activity is consistent with the purpose and intent of the SMA, this Master Program, and this chapter. Full compensation for the loss of acreage and functions and values of wetland and buffers shall be provided in compliance with the mitigation performance standards and requirements of these regulations.

F. Small, Hydrologically Isolated Category IV Wetlands. The Director may allow small, hydrologically isolated Category IV wetlands to be exempt from the avoidance sequencing provisions of SMC 20.240.053 and subsection D of this section and allow alteration of such wetlands; provided, that a submitted critical area report and mitigation plan provides evidence that all of the following conditions are met:

1. The wetland is less than 1,000 square feet in area;

2. The wetland is a low quality Category IV wetland with a habitat score of less than three points in the adopted rating system;

3. The wetland does not contain habitat identified as essential for local populations of priority species identified by WDFW or species of local importance which are regulated as fish and wildlife habitat conservation areas in Chapter 20.240, Subchapter 3;

4. The wetland is not associated with riparian areas or buffers;

5. The wetland is not part of a wetland mosaic; and

6. A mitigation plan to replace lost wetland functions and values is developed, approved, and implemented consistent with SMC 20.240.350.

G. **Subdivisions.** The subdivision and/or short subdivision of land in wetlands and associated buffers are subject to the following:

1. Land that is located wholly within a wetland and/or its buffer may not be subdivided; and

2. Land that is located partially within a wetland and/or its buffer may be subdivided; provided, that an accessible and contiguous portion of each new lot is:

a. Located outside of the wetland and its buffer; and

b. Meets the minimum lot size requirements of SMC 20.50.020.

20.240.330 Wetlands - Required buffer areas.

A. **Buffer Requirements.** The standard buffer widths in Table 20.240.330(A)(1) have been established in accordance with the best available science. The buffer widths shall be determined based on the category of wetland and the habitat score as assigned by a qualified wetland professional using the Washington State Wetland Rating System for Western Washington.

1. The use of the standard buffer widths requires the implementation of the mitigation measures in Table 20.240.330(A)(2), where applicable to the development type, to minimize the impacts of the adjacent land uses.

2. If an applicant chooses not to apply the appropriate mitigation measures in Table 20.240.330(A)(2), then a 33 percent increase in the width of all buffers is required. For example, a 75-foot buffer with the mitigation measures would be a 100-foot buffer without them.

3. The standard buffer widths assume that the buffer is a relatively intact native plant community in the buffer zone adequate to protect the wetland functions and values at the time of the proposed activity. If the existing buffer is bare ground, sparsely vegetated, or vegetated with nonnative or invasive species that do not perform needed functions, then the applicant shall either develop and implement a wetland buffer restoration or enhancement plan to maintain the standard width to create the appropriate plant community or the buffer shall be widened to ensure that adequate functions of the buffer are provided.

	Buffer Width According to Habitat Score			
Wetland Category	Habitat Score	Habitat Score	Habitat Score	Habitat Score
	<u>of 3 – 4</u>	<u>of 5</u>	<u>of 6 – 7</u>	<u>of 8 – 9</u>
Category I: Based on total score or Forested	<u>75 ft</u>	<u>105 ft</u>	<u>165 ft</u>	<u>225 ft</u>
Category I: Estuarine	150 ft (no change based on habitat scores)			
Category II: Based on total score	<u>75 ft</u>	<u>105 ft</u>	<u>165 ft</u>	<u>225 ft</u>

Table 20.240.330(A)(1) Wetland Buffer Requirements

Table 20.240.330(A)(1) Wetland Buffer Requirements

	Buffer Width According to Habitat Score			
Wetland Category	Habitat Score	Habitat Score	Habitat Score	Habitat Score
	<u>of 3 – 4</u>	<u>of 5</u>	<u>of 6 – 7</u>	<u>of 8 – 9</u>
Category III (all)	<u>60 ft</u>	<u>105 ft</u>	<u>165 ft</u>	<u>225 ft</u>
Category IV (all)	40 ft (no change based on habitat scores)			

<u>Table 20.240.330(A)(2) Required Measures to Minimize Impacts to Wetlands</u> (Measures are required, where applicable to a specific proposal)

	Activities and Uses	
Disturbance	That Cause	Required Measures to Minimize Impacts
	<u>Disturbances</u>	
Lights	Parking lots	Direct lights away from wetland.
	 Warehouses 	
	 Manufacturing 	
	Residential	
<u>Noise</u>	Manufacturing	 Locate activity that generates noise away from
	Residential	wetland.
		 If warranted, enhance existing buffer with native
		vegetation plantings adjacent to noise source.
		 For activities that generate relatively continuous,
		potentially disruptive noise, such as certain heavy
		industry or mining, establish an additional 10 ft heavily
		vegetated buffer strip immediately adjacent to the outer
		wetland buffer.
Toxic runoff*	Parking lots	Route all new, untreated runoff away from wetland
	Roads	while ensuring wetland is not dewatered.
	 Manufacturing 	Establish covenants limiting use of pesticides and
	Residential areas	fertilizers within 150 ft of wetland.
		Apply integrated pest management.

Table 20.240.330(A)(2) Required Measures to Minimize Impacts to Wetlands (Measures are required, where applicable to a specific proposal)

	Activities and Uses			
<u>Disturbance</u>	That Cause	Required Measures to Minimize Impacts		
	Disturbances			
	Application of			
	agricultural pesticides			
	 Landscaping 			
Stormwater	Parking lots	Retrofit stormwater detention and treatment for roads		
<u>runoff</u>	Roads	and existing adjacent development.		
	 Manufacturing 	Prevent channelized flow from lawns that directly		
	Residential areas	enters the buffer.		
	Commercial	Use low intensity development techniques (per PSAT		
	 Landscaping 	publication on LID techniques).		
Change in water	Impermeable	Infiltrate or treat, detain, and disperse into buffer new		
<u>regime</u>	<u>surfaces</u>	runoff from impervious surfaces and new lawns.		
	 Lawns 			
	• Tilling			
Pets and human	Residential areas	Use privacy fencing OR plant dense vegetation to		
disturbance		delineate buffer edge and to discourage disturbance		
		using vegetation appropriate for the ecoregion.		
		Place wetland and its buffer in a separate tract or		
		protect with a conservation easement.		
<u>Dust</u>	Tilled fields	Use best management practices to control dust.		
Disruption of	-	Maintain connections to off-site areas that are		
corridors or		undisturbed.		
connections		Restore corridors.		
* These examples are not necessarily adequate for minimizing toxic runoff if threatened or				
endangered spec	ies are present at the si	te. Additional mitigation measures may be required		

Table 20.240.330(A)(2) Required Measures to Minimize Impacts to Wetlands (Measures are required, where applicable to a specific proposal)

	Activities and Uses			
Disturbance	That Cause	Required Measures to Minimize Impacts		
	Disturbances			
based on recommendation of a qualified professional, third party review, or State agency				
recommendations	<u>.</u>			

4. Increased Wetland Buffer Area Width. Buffer widths shall be increased, on a case-bycase basis as determined by the Director, when a larger buffer is necessary to protect the shoreline ecological functions provided by the wetland's functions and values. This determination shall be supported by a critical area report, prepared by a qualified professional at the applicant's expense, showing that it is reasonably related to protection of the functions and values of the wetland and the shoreline. The critical area report shall include, but not be limited to, the following criteria:

a. The wetland is used by a plant or animal species listed by the Federal government or the State as endangered, threatened, candidate, sensitive, monitored, or documented priority species or habitats, or the wetland is essential or outstanding habitat for those species or has unusual nesting or resting sites such as heron rookeries or raptor nesting trees; or

b. The adjacent land has slopes greater than 15 percent and is susceptible to severe erosion, and erosion-control measures will not effectively prevent adverse wetland impacts; or

c. The adjacent land has minimal vegetative cover. In lieu of increasing the buffer width where exiting buffer vegetation is inadequate to protect the wetland functions and values, development and implementation of a wetland buffer restoration/enhancement plan in accordance with SMC 20.240.350 may be substituted.

5. Buffer averaging to improve wetland functions and values may be permitted when all of the following conditions are met:

a. The wetland has significant differences in characteristics that affect its habitat functions, such as a wetland with a forested component adjacent to a degraded emergent component or is a "dual-rated" wetland with a Category I area adjacent to a lower rated area;

b. The buffer is increased adjacent to the higher functioning area of habitat or more sensitive portion of the wetland and decreased adjacent to the lower functioning or less sensitive portion as demonstrated by a critical areas report from a qualified wetland professional:

c. The total area of the buffer after averaging is equal to the area required without averaging; and

d. The buffer width is not reduced by more than 25 percent in any location.

6. Buffer averaging, through a shoreline variance consistent with 20.220.040, may be permitted when all of the following are met:

a. There are no feasible alternatives to the site design that could be accomplished without buffer averaging;

b. The averaged buffer will not result in degradation of the wetland's functions and values as demonstrated by a critical areas report from a qualified wetland professional;

c. The total buffer area after averaging is equal to the area required without averaging; and

d. The buffer at its narrowest point is never less than either three-fourths of the required width or 75 feet for Category I and II, 50 feet for Category III, and 25 feet for Category IV, whichever is greater.

B. **Measurement of Wetland Buffers.** All buffers shall be measured perpendicular from the wetland boundary as surveyed in the field. The buffer for a wetland created, restored, or enhanced as compensation for approved wetland alterations shall be the same as the buffer required for the category of the created, restored, or enhanced wetland.

C. Buffers on Mitigation Sites. All mitigation sites shall have buffers consistent with the buffer requirements of this chapter. Buffers shall be based on the expected or target category of the proposed wetland mitigation site.

D. **Buffer Maintenance.** Except as otherwise specified or allowed in accordance with this chapter, wetland buffers shall be retained in an undisturbed or enhanced condition. In the case of compensatory mitigation sites, removal of invasive nonnative weeds is required for the duration of the required monitoring period.

E. Impacts to Buffers. Requirements for the compensation for impacts to buffers are outlined in SMC 20.240.350.

F. **Overlapping Critical Area Buffers.** If buffers for two contiguous critical areas overlap (such as buffers for a stream and a wetland), the wider buffer applies.

G. Allowed Wetland Buffer Uses. The following uses may be allowed within a wetland buffer in accordance with the review procedures of this chapter; provided such uses are not prohibited by any other applicable law and such uses are conducted in a manner so as to minimize impacts to the buffer and adjacent wetland:

1. **Conservation and Restoration Activities.** Conservation or restoration activities aimed <u>at protecting the soil, water, vegetation, or wildlife.</u>

2. **Passive Recreation.** Passive recreation facilities designed and in accordance with an approved critical area report, including:

a. Walkways and trails; provided, that those pathways are limited to minor crossings having no adverse impact on water quality. Pathways should be generally parallel to the perimeter of the wetland, located only in the outer 25 percent of the wetland buffer area, and located to avoid removal of significant trees. Pathways should be limited to pervious surfaces no more than five feet in width for pedestrian use only. Raised boardwalks utilizing nontreated pilings may be acceptable;

b. Wildlife viewing structures.

3. Educational and scientific research activities.

4. Normal and routine maintenance and repair of any existing public or private facilities within an existing right-of-way, provided, that the maintenance or repair does not increase the footprint or use of the facility or right-of-way.

5. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops, and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

6. Drilling for utilities/utility corridors under a buffer, with entrance/exit portals located completely outside of the wetland buffer boundary; provided, that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column is disturbed.

7. Enhancement of a wetland through the select removal of nonnative invasive plant species. Removal of invasive plant species shall be restricted to hand labor and handheld equipment unless permits from the appropriate regulatory agencies have been obtained for approved biological or chemical treatments. Not more than 1,500 square feet of area may be cleared, as calculated cumulatively over one year, on private property without a permit. All removed plant material shall be taken away from the site and disposed of appropriately. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds or the King County Noxious Weed List shall be handled and disposed of according to a noxious weed control plan appropriate to that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

8. Stormwater Management Facilities. Stormwater management facilities are limited to stormwater dispersion outfalls, bioswales, and other low-impact facilities consistent with the adopted stormwater manual. Stormwater management facilities are not allowed in buffers of Category I or II wetlands. Facilities may be allowed within the outer 25 percent of the buffer of Category III or IV wetlands only; provided, that:

a. No other location is feasible; and

b. The location of such facilities will not degrade the functions or values of the wetland.

9. Nonconforming Uses or Structures. Repair and maintenance of nonconforming uses or structures, where legally established within the buffer, provided such uses or structures do not increase the degree of nonconformity, consistent with SMC 20.220.150.

10. Development Proposals within Physically Separated and Functionally Isolated Wetland Buffers. Consistent with the definition of "buffers" (SMC 20.20.012), areas that are functionally isolated and physically separated from wetland due to existing, legally established roadways, paved trails eight feet or more in width, or other legally established structures or paved areas eight feet or more in width that occur between the area in question and the wetland shall be considered physically isolated and functionally separated wetland buffers. Once determined by the Director, based on a submitted critical area report to be a physically separated and functionally isolated wetland buffer, development proposals shall be allowed in these areas.

H. Signs and Fencing of Wetlands and Buffers.

1. **Temporary Markers.** The outer perimeter of the wetland buffer and the clearing limits identified by an approved permit or authorization shall be marked in the field with temporary "clearing limits" fencing in such a way as to ensure that no unauthorized intrusion will occur. The marking is subject to inspection by the Director prior to the commencement of permitted activities during the preconstruction meeting required under SMC 20.50.330(E). This temporary marking and fencing shall be maintained throughout construction and shall not be removed until permanent signs, if required, are in place.

2. **Permanent Signs.** As a condition of any permit or authorization issued pursuant to this chapter, the Director may require the applicant to install permanent signs along the boundary of a wetland or buffer, when recommended in a critical area report or otherwise required by the provisions of this chapter.

a. Permanent signs shall be made of an enamel-coated metal face and attached to a metal post or another nontreated material of equal durability. Signs shall be posted at an interval of one per lot or every 50 feet, whichever is less, and shall be maintained by the property owner in perpetuity. The signs shall be worded consistent with the text specified in SMC 20.240.110 or with alternative language approved by the Director.

b. The provisions of subsection (H)(2)(a) of this section may be modified as necessary to assure protection of sensitive features.

3. Fencing. Fencing installed as part of a proposed activity or as required in this subsection shall be designed so as to not interfere with species migration, including fish runs, and shall be constructed in a manner that minimizes impacts to the wetland and associated habitat. Permanent fencing shall be required at the outer edge of the critical area buffer under the following circumstances; provided, that the Director may waive this requirement:

a. As part of any development proposal for subdivisions, short plats, multifamily, mixed use, and commercial development where the Director determines that such fencing is necessary to protect the functions of the critical area; provided, that breaks in permanent fencing may be allowed for access to permitted buffer uses (subsection G of this section);

b. As part of development proposals for parks where the adjacent proposed use is active recreation and the Director determines that such fencing is necessary to protect the functions of the critical area:

c. When buffer averaging is part of a development proposal; or

d. At the Director's discretion to protect the values and functions of a critical area as demonstrated in a critical area report. If found to be necessary, the Director shall condition any permit or authorization issued pursuant to this chapter to require the applicant to install a permanent fence at the edge of the habitat conservation area or buffer, when fencing will prevent future impacts to the habitat conservation area;

e. The applicant shall be required to install a permanent fence around the wetland buffer when domestic grazing animals, only as allowed under SMC 20.40.240, are present or may be introduced on site.

20.240.340 Wetlands – Critical area report requirements.

A. **Report Required.** If the Director determines that the site of a proposed development includes, is likely to include, or is adjacent to, a wetland, a wetland critical area report shall be required. Critical area report requirements for wetland areas are generally met through submission to the Director of one or more wetland critical area reports. In addition to the general critical area report requirements of SMC 20.240.080, critical area reports for wetlands shall meet the requirements of this section. Critical area reports for two or more types of critical areas shall meet the report requirements for each relevant type of critical area.

B. **Preparation by a Qualified Professional.** Critical area reports for wetlands shall be prepared and signed by a qualified professional who is a certified wetland scientist or a noncertified wetland scientist with the minimum required experience, per SMC 20.20.042, in the field of wetland science and with experience preparing wetland delineation, impact assessments, and mitigation plans.

C. Third Party Review Required. Critical areas studies and reports on wetland areas shall be subject to third party review consistent with SMC 20.240.080(C) and in any of the additional following circumstances:

1. Compensatory mitigation is required for impacts to Category I, II, or III wetlands and or buffers; or

2. Compensatory mitigation is required for impacts to Category IV wetlands.

D. Minimum Report Contents for Wetlands. The written critical area report(s) and accompanying plan sheet(s) shall contain the following information, at a minimum:

1. The minimum report contents required per SMC 20.240.080(E);

2. Documentation of any fieldwork performed on the site, including field data sheets for delineations, rating system forms, baseline hydrologic data, site photos, etc.;

3. A description of the methodologies used to conduct the wetland delineations, ratings, or impact analyses including references:

4. **Site Plans.** A copy of the site plan sheet(s) for the project shall be included with the written report and shall include, at a minimum:

a. Maps (to scale) depicting delineated and surveyed wetland(s) and required buffers on site, including buffers for off-site critical areas that extend onto the project site; the development proposal; other critical areas; clearing and grading limits; areas of proposed impacts to wetlands and/or buffers (include square footage estimates); and b. A depiction of the proposed stormwater management facilities and outlets (to scale) for the development, including estimated areas of intrusion into the buffers of any critical areas. The written report shall contain a discussion of the potential impacts to the wetland(s) associated with anticipated hydroperiod alterations from the project;

5. For each wetland identified on site and off site within 300 feet of the project site provide: the wetland rating, including a description of and score for each function, per wetland ratings (SMC 20.240.320(B)); required buffers (SMC 20.240.330); hydrogeomorphic classification; wetland acreage based on a professional survey from the field delineation (acreages for onsite portion and entire wetland area including off-site portions); Cowardin classification of vegetation communities; habitat elements; soil conditions based on site assessment and/or soil survey information; and to the extent possible, hydrologic information such as location and condition of inlet/outlets (if inlets/outlets can be legally accessed), estimated water depths within the wetland, and estimated hydroperiod patterns based on visual cues (e.g., algal mats, drift lines, flood debris, etc.). Provide acreage estimates, classifications, and ratings based on entire wetland complexes, not only the portion present on the proposed project site;

6. A description of the proposed actions, including an estimation of acreages of impacts to wetlands and buffers based on the field delineation and survey and an analysis of site development alternatives, including a no-development alternative;

7. An assessment of the probable cumulative impacts to the wetlands and buffers resulting from the proposed development;

8. A description of reasonable efforts made to apply mitigation sequencing pursuant to SMC 20.240.053(A) to avoid, minimize, and mitigate impacts to critical areas and a discussion of measures, including avoidance, minimization, and compensation, proposed to preserve existing wetlands and restore any wetlands that were degraded prior to the current proposed land-use activity;

9. A conservation strategy for habitat and native vegetation that addresses methods to protect and enhance on-site habitat and wetland functions; and

10. An evaluation of the functions of the wetland and adjacent buffer. Include reference for the method used and data sheets.

E. Additional Information. When appropriate due to the proposed impacts or the project area conditions, the Director may also require the critical area report to include:

1. Where impacts are proposed, mitigation plans consistent with the requirements of SMC 20.240.082 and the wetland mitigation performance standards and requirements of SMC 20.240.350;

2. A request for consultation with WDFW, the Department of Ecology, local Native American Indian tribes, and/or other appropriate agency;

3. Copies of the joint aquatic resource permit application (JARPA) and related approvals, such as a hydraulic project approval (HPA) from the DFW, when applicable to the project; and

4. Detailed surface and subsurface hydrologic features both on and adjacent to the site.

20.240.350 Wetlands – Compensatory mitigation performance standards and requirements.

A. Requirements for Compensatory Mitigation.

 Compensatory mitigation for alterations to wetlands shall be used only for impacts that cannot be avoided or minimized and shall achieve equivalent or greater shoreline ecological and biologic functions. Compensatory mitigation plans shall be consistent with Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1), (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised).

2. Mitigation ratios shall be consistent with subsection E of this section.

 <u>3. Mitigation requirements may also be determined using the credit/debit tool described in</u> <u>"Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Western</u> <u>Washington: Operational Draft" (Department of Ecology Publication No. 10-06-011,</u> <u>February 2011, or as revised) consistent with subsection E of this section.</u>

B. **Compensating for Lost or Impacted Functions.** Compensatory mitigation shall address the shoreline ecological functions and the wetland or wetland buffer functions and values affected by the proposed project, with an intention to achieve functional equivalency or improvement of functions and values. The goal shall be for the compensatory mitigation to provide similar shoreline ecological functions and wetland functions and values as those lost, except when either:

1. The lost wetland provides minimal functions and values, and the proposed compensatory mitigation action(s) will provide equal or greater functions and values or will provide functions and values shown to be limiting within a watershed through a formal Washington State watershed assessment plan or protocol; or

2. Out-of-kind replacement of wetland type or functions and values will best meet watershed goals formally identified by the City, such as replacement of historically diminished wetland types.

C. Preference of Mitigation Actions. Methods to achieve compensation for wetland functions and values shall be approached in the following order of preference:

1. Restoration. Restoration of wetlands.

2. **Creation.** Creation (establishment) of wetlands on disturbed upland sites, such as those with vegetative cover consisting primarily of nonnative species. This should be attempted only when there is an adequate source of water and it can be shown that the surface and subsurface hydrologic regime is conducive to the wetland community that is anticipated in the design.

3. Enhancement. Enhancement of significantly degraded wetlands in combination with restoration or creation. Enhancement alone will result in a loss of wetland acreage and is less effective at replacing the functions and values lost. Enhancement should be part of a mitigation package that includes replacing the impacted area and meeting appropriate ratio requirements.

4. **Preservation.** Preservation of high-quality, at-risk wetlands as compensation is generally acceptable when done in combination with restoration, creation, or enhancement; provided, that a minimum of 1:1 acreage replacement is provided by reestablishment or creation. Preservation of high-quality, at-risk wetlands and habitat may be considered as the sole means of compensation for wetland impacts when the following criteria are met:

a. Wetland impacts will not have a significant adverse impact on habitat for listed fish, or other ESA-listed species; b. There is no net loss of habitat functions within the watershed or basin;

c. Mitigation ratios for preservation as the sole means of mitigation shall generally start at 20:1. Specific ratios should depend upon the significance of the preservation project and the quality of the wetland resources lost;

d. The impact area is small (generally less than one-half acre) and/or impacts are occurring to a low-functioning system (Category III or IV wetland); and

e. All preservation sites shall include buffer areas adequate to protect the habitat and its functions from encroachment and degradation.

D. Type and Location of Compensatory Mitigation. Unless it is demonstrated that a higher level of ecological functioning would result from an alternative approach, compensatory mitigation for ecological functions shall be either in kind and on site, or in kind and within the same stream reach, sub-basin, or drift cell (if estuarine wetlands are impacted). Compensatory mitigation actions shall be conducted within the same sub-drainage basin and on the site of the alteration, except when all of the following apply:

1. There are no reasonable opportunities on site or within the sub-drainage basin (e.g., onsite options would require elimination of high-functioning upland habitat), or opportunities on site or within the sub-drainage basin do not have a high likelihood of success based on a determination of the capacity of the site to compensate for the impacts. Considerations should include:

a. Anticipated replacement ratios for wetland mitigation;

b. Buffer conditions and proposed widths;

c. Available water to maintain anticipated hydrogeomorphic classes of wetlands when restored; and

d. Proposed flood storage capacity, and potential to mitigate riparian fish and wildlife impacts (such as connectivity);

2. Off-site mitigation has a greater likelihood of providing equal or improved wetland functions than the impacted wetland;

3. Off-site locations shall be in the same sub-drainage basin, unless watershed goals for water quality, flood storage or conveyance, habitat, or other wetland functions have been established by the City and strongly justify location of mitigation at another site; and

4. The design for the compensatory mitigation project needs to be appropriate for its location (i.e., position in the landscape). Therefore, compensatory mitigation should not result in the creation, restoration, or enhancement of an atypical wetland. An atypical wetland refers to a compensation wetland (e.g., created or enhanced) that does not match the type of existing wetland that would be found in the geomorphic setting of the site (i.e., the water source(s) and hydroperiod proposed for the mitigation site are not typical for the geomorphic setting). Likewise, it should not provide exaggerated morphology or require a berm or other engineered structures to hold back water. For example, excavating a permanently inundated pond in an existing, seasonally saturated or inundated wetland is one example of an enhancement project that could result in an atypical wetland. Another example would be excavating depressions in an existing wetland on a slope, which would require the construction of berms to hold the water.

E. Wetland Mitigation Ratios¹.

Table 20.240.350(G). Wetland mitigation ratios apply when impacts to wetlands cannot be
avoided or are otherwise allowed consistent with the provisions of this chapter.

<u>Category and Type</u> <u>of Wetland²</u>	<u>Creation or</u> <u>Reestablishment</u> (Area – in square <u>feet)</u>	<u>Rehabilitation</u> (Area – in square <u>feet)</u>	<u>Enhancement</u> (Area – in square feet)	<u>Preservation</u> (Area – in square feet)
<u>Category I: Based</u> on total score for <u>functions</u>	<u>4:1</u>	<u>8:1</u>	<u>16:1</u>	<u>20:1</u>
Category I: Mature forested	<u>6:1</u>	<u>12:1</u>	<u>24:1</u>	<u>24:1</u>
<u>Category I:</u> <u>Estuarine</u>	Case-by-case	<u>6:1</u>	Case-by-case	Case-by-case

Table 20.240.350(G). Wetland mitigation ratios apply when impacts to wetlands cannot be avoided or are otherwise allowed consistent with the provisions of this chapter.

Category and Type of Wetland ²	<u>Creation or</u> <u>Reestablishment</u> (Area – in square <u>feet)</u>	<u>Rehabilitation</u> (Area – in square <u>feet)</u>	<u>Enhancement</u> <u>(Area – in</u> square feet)	<u>Preservation</u> (Area – in square feet)
Category II: Based on total score for	<u>3:1</u>	<u>6:1</u>	<u>12:1</u>	<u>20:1</u>
functions				
Category III (all)	<u>2:1</u>	<u>4:1</u>	<u>8:1</u>	<u>15:1</u>
Category IV (all)	<u>1.5:1</u>	<u>3:1</u>	<u>6:1</u>	<u>10:1</u>
<u>1</u> Ratios for rehabilitation and enhancement may be reduced when combined with 1:1 replacement through creation or reestablishment. See Table 1a or 1b, Wetland Mitigation in				

Washington State – Part 1: Agency Policies and Guidance – Version 1 (Department of Ecology Publication No. 06-06-011a, March 2006, or as revised).

² Category and rating of wetland as determined consistent with SMC 20.240.320(B).

F. Buffer Mitigation Ratios. Impacts to buffers shall be mitigated at a 1:1 ratio. Compensatory buffer mitigation shall replace those buffer functions lost from development.

G. Mitigation Performance Standards. The performance standards in this section shall be incorporated into mitigation plans submitted to the City for impacts to wetlands. The following performance standards shall apply to any mitigations proposed within Category I, II, III and IV wetlands and their buffers. Modifications to these performance standards consistent with the guidance in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised) may be considered for approval by the Director as alternatives to the following standards:

1. Plants indigenous to the region (not introduced or foreign species) shall be used.

2. Plant selection shall be consistent with the existing or projected hydrologic regime, including base water levels and stormwater event fluctuations.

3. Plants should be commercially available or available from local sources.

4. Plant species high in food and cover value for fish and wildlife shall be used.

5. Mostly perennial species should be planted.

6. Committing significant areas of the site to species that have questionable potential for successful establishment shall be avoided.

7. Plant selection shall be approved by a qualified professional.

8. The following standards shall apply to wetland design and construction:

a. Water depth shall not exceed six and one-half feet (two meters).

b. The grade or slope that water flows through the wetland shall not exceed six percent.

c. Slopes within the wetland basin and the buffer zone shall not be steeper than 3:1 (horizontal to vertical).

d. The wetland (excluding the buffer area) should not contain more than 60 percent open water as measured at the seasonal high water mark.

9. Substrate should consist of a minimum of one foot, in depth, of clean (uncontaminated with chemicals or solid/hazardous wastes) inorganic/organic materials.

10. Planting densities and placement of plants should be determined by a qualified professional and shown on the design plans.

11. The planting plan shall be approved by the City.

12. Stockpiling soil and construction materials should be confined to upland areas and contract specifications should limit stockpiling of earthen materials to durations in accordance with City clearing and grading standards, unless otherwise approved by the <u>City.</u>
13. Planting instructions shall be submitted which describe placement, diversity, and spacing of seeds, tubers, bulbs, rhizomes, sprigs, plugs, and transplanted stock.

14. Controlled release fertilizer shall be applied (if required) at the time of planting and afterward only as plant conditions warrant as determined during the monitoring process.

15. An irrigation system shall be installed, if necessary, for the initial establishment period.

16. All construction specifications and methods shall be approved by a qualified professional and the City.

<u>17.</u> Construction management shall be provided by a qualified professional. Ongoing work on site shall be inspected by the City.

H. **Compensatory Mitigation Plan.** When a project involves wetland and/or buffer impacts, a compensatory mitigation plan shall be included as part of the required critical area report. Compensatory wetland mitigation plans shall meet the minimum requirements SMC 20.240.082 and demonstrate compliance with SMC 20.240.053. Full guidance can be found in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised). The mitigation plan shall meet the following additional standards:

1. Description of the existing wetland and buffer areas proposed to be impacted. Include acreage (or square footage), water regime, vegetation, soils, landscape position, surrounding land uses, and functions. Also describe impacts in terms of acreage by Cowardin classification, hydrogeomorphic classification, and wetland rating, based on wetland ratings (SMC 20.240.320(B)):

2. Description of the compensatory mitigation site, including location and rationale for selection. Include an assessment of existing conditions: acreage (or square footage) of wetlands and uplands, water regime, sources of water, vegetation, soils, landscape position, surrounding land uses, and functions. Estimate future conditions in this location if the compensation actions are not undertaken (i.e., how would this site progress through natural succession);

3. A description of the proposed actions for compensation of wetland and upland areas affected by the project. Include overall goals of the proposed mitigation, including a

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description of the targeted functions, hydrogeomorphic classification, and categories of wetlands;

4. A description of the proposed mitigation construction activities, construction/installation notes, and timing of activities;

5. A discussion of ongoing management practices that will protect wetlands after the project site has been developed, including proposed monitoring and maintenance programs (for remaining wetlands and compensatory mitigation wetlands);

6. Proof of establishment of notice on title for the wetlands and buffers on the project site, including the compensatory mitigation areas; and

7. The scaled plan sheets for the compensatory mitigation shall contain, at a minimum:

a. Surveyed edges of the existing wetland and buffers, proposed areas of wetland and/or buffer impacts, location of proposed wetland and/or buffer compensation actions;

b. Existing topography, ground-proofed, at two-foot contour intervals in the zone of the proposed compensation actions if any grading activity is proposed to create the compensation area(s). Also existing cross-sections of on-site wetland areas that are proposed to be impacted and cross-section(s) (estimated one-foot intervals) for the proposed areas of wetland or buffer compensation;

c. Surface and subsurface hydrologic conditions, including an analysis of existing and proposed hydrologic regimes for enhanced, created, or restored compensatory mitigation areas. Also, illustrations of how data for existing hydrologic conditions were used to determine the estimates of future hydrologic conditions;

d. Conditions expected from the proposed actions on site, including future hydrogeomorphic types, vegetation community types by dominant species (wetland and upland), and future water regimes;

e. Required wetland buffers for existing wetlands and proposed compensation areas. Also, identify any zones where buffers are proposed to be reduced or enlarged outside of the standards identified in this chapter; <u>f.</u> A plant schedule for the compensation area, including all species by proposed community type and water regime, size and type of plant material to be installed, spacing of plants, typical clustering patterns, typical plant installation details and notes, total number of each species by community type, timing of installation; and

g. Performance standards (measurable standards reflective of years post-installation) for upland and wetland communities, monitoring plan, contingency plan, and maintenance schedule, and actions. Standards for success shall be established based on the performance standards identified and the functions and values being mitigated based on the guidance in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised).

Subchapter 5.

Flood Hazard Areas

20.240.360 Flood hazard – Description and purpose.

A. A flood hazard area consists of the special flood hazard areas and protected areas as defined in Chapter 13.12 SMC Floodplain Management, which comprise the regulatory floodplain.

<u>B. It is the purpose of these regulations to ensure that the City meets the requirements of the</u> <u>National Flood Insurance Program and maintains the City as an eligible community for Federal</u> <u>flood insurance benefits.</u>

20.240.370 Flood hazard – Designation and classification.

Flood hazard areas shall be designated and classified pursuant to the requirements of the floodplain management regulations, Chapter 13.12 SMC, which include, at a minimum, all lands identified on the 100-year floodplain designations of the current Federal Emergency Management Agency (FEMA) flood insurance rate map (FIRM) for King County as identified in SMC 13.12.300.

20.240.380 Flood hazard – Development limitations.

All development within designated flood hazard areas shall comply with Chapter 13.12 SMC, Floodplain Management, as now or hereafter amended, and is not further subject to the regulations of this chapter.

Subchapter 6.

Aquifer Recharge Areas

20.240.420 Aquifer recharge – Description and purpose.

<u>A.</u> Aquifer recharge areas consist of areas that provide a source of potable water and contribute to stream discharge during periods of low flow, as defined in Chapter 20.20 SMC.

B. The primary purpose of aquifer recharge area regulations is to protect aquifer recharge areas by providing for regulation of land use activities that pose a risk of potential aquifer contamination and to minimize impacts through the application of strict performance standards.

20.240.430 Aquifer recharge – Designation and classification.

A. Aquifer recharge areas shall be designated and classified based on the soil and ground water conditions and risks to surface water during periods of low hydrology. Classification depends on the combined effects of hydrogeological susceptibility to contamination and contaminant loading potential, and includes upland areas underlain by soils consisting largely of silt, clay or glacial till, upland areas underlain by soils consisting largely of sand and gravel, and wellhead protection areas and areas underlain by soils consisting largely of sand and gravel in which there is a predominantly downward or lateral component to ground water flow.

B. At the time of adoption of the amendments to the critical areas of this Master Program, Ordinance 856, there were no identified critical aquifer recharge areas within the City.

20.80.440 Aquifer recharge – Alteration.

Subject to the required permits, the following land uses and activities shall require implementation of best management practices (BMPs) as established by the Department of Ecology:

A. Land uses and activities that involve the use, storage, transport or disposal of significant guantities of chemicals, substances or materials that are toxic, dangerous or hazardous, as those terms are defined by State and Federal regulations.

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- B. On-site community sewage disposal systems.
- C. Underground storage of chemicals.
- D. Petroleum pipelines.
- E. Solid waste landfills.

F. Stormwater management, including infiltration, and ground water recharge.

20.80.450 Aquifer recharge – Performance standards and requirements.

Any uses or activities that seek to be located in an aquifer recharge area, as defined within this subchapter, that involve the use, storage, transport or disposal of significant quantities of chemicals, substances, or materials that are toxic, dangerous or hazardous, as those terms are defined by State and Federal regulations, shall comply with the following additional standards:

A. Underground storage of chemicals, substances or materials that are toxic, hazardous or dangerous is discouraged.

B. Any chemicals, substances or materials that are toxic, hazardous or dangerous shall be segregated and stored in receptacles or containers that meet State and Federal standards.

C. Storage containers shall be located in a designated, secured area that is paved and able to contain leaks and spills, and shall be surrounded by a containment dike.

D. Secondary containment devices shall be constructed around storage areas to retard the spread of any spills and a monitoring system should be implemented.

E. A written operations plan shall be developed, including procedures for loading/unloading liquids and for training of employees in proper materials handling.

F. An emergency response/spill clean-up plan shall be prepared and employees properly trained to react to accidental spills.

<u>G.</u> Any aboveground storage tanks shall be located within a diked containment area on an impervious surface. The tanks shall include overfill protection systems and positive controls on outlets to prevent uncontrolled discharges.

H. Development should be clustered and impervious surfaces limited where possible.

I. No waste liquids or chemicals of any kind shall be discharged to storm sewers.

J. All development shall implement best management practices (BMPs) for water quality, as approved by the City, including the standards contained within the adopted stormwater manual, such as biofiltration swales and use of oil-water separators, and BMPs appropriate to the particular use proposed.

Attachment A, Exhibit C

Proposed revisions to Shoreline Municipal Code (SMC) language in legislative format -Chapter 20.80 and Chapter 13.12, in relevant part

Chapter 13.12 Floodplain Management

13.12.105 Definitions.

Unless specifically defined below, terms or phrases used in this chapter shall be interpreted so as to give them the meaning they have in common usage and to give this chapter its most reasonable application. The definitions in this section apply throughout this chapter unless the context clearly requires otherwise.

•••

"Director" means the public worksPlanning and Community Development dDirector or designee.

•••

13.12.200 Floodplain administrator.

A. Administrator Designation. The public worksPlanning and Community Development dDirector is hereby appointed as the floodplain administrator, to administer and implement this chapter by granting or denying floodplain development permit applications in accordance with its provisions.

•••

Critical Areas – General Provisions

20.80.010 Purpose.

A. The purpose of this chapter is to establish supplemental standards for the protection of critical areas, as defined in SMC 20.20.014, in compliance with the provisions of the Washington Growth Management Act of 1990 (Chapter 36.70A RCW) and consistent with the goals and policies of the Shoreline Comprehensive Plan in accordance with the procedures of Chapter 20.30 SMC. The standards of this chapter, as incorporated into the Shoreline Master Program, in SMC 20.230.030(A) General Regulations (1)20.240, shall apply within the shoreline jurisdiction, where critical areas are present. If there are any conflicts or unclear distinctions between the Master Program and the City's critical areas regulations, the most restrictive requirements apply as determined by the City.

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Supporting Analysis

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Note: Italicized terms in policies are explained in sidebars.



Section 10 SHORELINE MASTER PROGRAM Goals, Policies, and Analysis

Shoreline Master Program Element Goals, Policies, and Analysis

INTRODUCTION

Washington's Shoreline Management Act (SMA) was passed by the Legislature in 1971 and adopted by the public in a 1972 referendum. The goal of the SMA is "to prevent the inherent harm in an uncoordinated and piecemeal development of the state's shorelines." The SMA establishes a balance of authority between local and state government. Cities and counties are the primary regulators, but the State has authority to review local shoreline management programs and permit decisions.

The SMA has three broad policies:

- Encourage water-dependent and water-oriented uses: "uses shall be preferred which are consistent with control of pollution and prevention of damage to the natural environment, or are unique to or dependent upon use of the states' shorelines...."
- Promote public access: "the public's opportunity to enjoy the physical and aesthetic qualities of natural shorelines of the state shall be preserved to the greatest extent feasible consistent with the overall best interest of the state and the people generally."
- Protect shoreline natural resources, including "...the land and its vegetation and wildlife, and the water of the state and their aquatic life...."

Shoreline Jurisdiction

Under the SMA, the shoreline jurisdiction includes areas that are 200 feet landward of the ordinary high water mark (OHWM) of waters that have been designated as "shorelines of statewide significance". The City of Shoreline's shoreline area includes approximately 3.5 miles of Puget Sound coastline. There are no shorelines of statewide significance associated with rivers, streams, or freshwater lakes in the city or its Future Service Annexation Area (FSAA) of Point Wells.

The SMA, and this Master Program, apply to all "shorelines of the state." Shorelines of the state include all "shorelines" and "shorelines of statewide significance" within Washington. Shorelines, as defined by the SMA, are all water areas together with the lands underlying them, which meet certain flow or acreage criteria. Shorelines of statewide significance are certain water areas that the Legislature has determined to have a unique character warranting special status and protection. Within the City of Shoreline there are only shorelines of statewide significance- the approximately 3.5 miles of Puget Sound coastline. No other water areas within Shoreline meet the criteria set forth in the SMA.



Section 10 SHORELINE MASTER PROGRAM Goals, Policies, and Analysis



Driftwood

In addition to the actual water areas, the SMA and this Master Program apply to shorelands. Shorelands are the area 200 feet landward of the ordinary high water mark (OHWM) of all waters subject to the SMA's provisions.



Shoreline Master Programs

Under the SMA, each city and county adopts a Shoreline Master Program (SMP) that is based on State guidelines, but tailored to the specific needs of the community. Local SMPs combine both policies and regulations to guide and control development within the shoreline area. The plans are a comprehensive vision of how shoreline areas will be used and developed over time. Regulations are the standards that shoreline projects and uses must meet.

The City of Shoreline incorporated on August 31, 1995, and subsequently adopted the King County Shoreline Master Program (Ord. 23, 1995). With the adoption of the Comprehensive Plan in 1998, the City adopted a Shoreline Master Program Element that contained goals, policies and maps of shoreline environments. While largely consistent with the King County SMP, this newer SMP Element was not reviewed by Ecology, and therefore it did not qualify as part of the City's recognized SMP. The 2005 Comprehensive Plan contained an SMP Update Strategy, and in 2007 the City received a grant from the Department of Ecology to develop its own SMP, which was adopted by City Council on May 29, 2012. Because the SMP contains Goals and Policies, and Analysis, as well as regulations and other information, rather than recreate these elements within this Comprehensive Plan, the City of Shoreline's Shoreline Master Program is referenced at the following link in its entirety: http://shorelinewa.gov/ Modules/ShowDocument.aspx?documentid=11043

The Shoreline Management Act (SMA), chapter 90.58 RCW requires the City to have a shoreline master program setting forth goals, policies, and use regulations for those areas within the jurisdictional boundaries of the SMA. After incorporation, the City relied on King County's 1996 Shoreline Management. Master Program for compliance with the SMA.

This changed in 2013 when the City's current Shoreline Master Program (SMP) was adopted on August 5, 2013 via Ordinance No. 668 and became effective

Section 10 SHORELINE MASTER PROGRAM Goals and Policy

on September 2, 2013. The City Council adopted updates to the SMP on June 17, 2019 via Ordinance No. 856. The SMP is codified at Division II of SMC Title 20, Chapters SMC 20.200, 20.210, 20.220, and 20.230, and 20.240. Title 20 can be accessed at the following link: https://www.codepublishing.com/WA/Shore-line/#!/html/Shoreline20.Shoreline20.html

The link to the 2019 SMP will live on the Comprehensive Plan web page: <u>http://</u>www.shorelinewa.gov/government/departments/planning-communitydevelopment/city-plans/comprehensive-plan-and-master-plans/comprehensive-plan.

ECONOMIC DEVELOPMENT ELEMENT

- **Goal** Provide for economically productive uses that are particularly dependent on their shoreline location or use.
- **Objective** Plan for economic activity that is water-dependent, water-related, or that provides an opportunity for a substantial number of people to enjoy the shoreline and water.

PUBLIC ACCESS ELEMENT

- **Goal** Increase public access to publicly-owned areas of the shoreline.
- **Objective** Provide for public access to publicly owned shoreline areas, except where deemed inappropriate due to safety hazards, inherent security problems, environmental impacts, or conflicts with adjacent uses.

RECREATIONAL ELEMENT

- **Goal** Develop public and private recreation opportunities that are compatible with adjacent uses and that protect the shoreline environments.
- **Objective** Provide for the preservation and enlargement of public and private recreational opportunities and recreational facilities along the shoreline, including but not limited to, parks and recreational areas, wherever appropriate.

CIRCULATION ELEMENT

- GoalProvide inter-connected, efficient, and safe transportation networks
to and around the shoreline to accommodate vehicles, transit, pe-
destrians, and cyclists.
- **Objective** Provide for a safe and adequate circulation system, including existing and proposed major thoroughfares, transportation routes, terminals, and other public utilities and facilities within the shoreline jurisdiction that benefit permitted uses without degrading the environment or aesthetic values of the area.

Section 10 **SHORELINE MASTER PROGRAM** Goals, Policies, and Analysis

SHORELINE USE	<u>E ELEMENT</u>
<u>Goal</u> Regu	late land use patterns to locate activity and development in
areas	of the shoreline that will be compatible with adjacent uses
and w	vill be sensitive to existing shoreline environments, habitat, and
<u>ecolo</u>	gical systems.
Objective Inclue	de protections for the natural environment and adjacent uses
<u>in the</u>	Shoreline Development Code, Point Wells Subarea Plan, Salt-
<u>Water</u> for do	Park master planning enorts, and other regulatory framework
<u>101 de</u>	evelopment along the shoreline.
CONSERVATION	<u>NELEMENT</u>
<u>Goal</u> <u>Conse</u>	erve and protect the natural resources of the shoreline includ-
<u>ing, p</u>	for fishering and wildlife protection
	Tor fishenes and wilding protection.
Obiective Throu	igh the use of best available science, develop and implement
siting	criteria, design standards, and best management practices
that p	promote the long term enhancement of unique shoreline fea-
tures	natural resources, and fish and wildlife habitat.
HISTORICAL/CU	ILIUKAL ELEMENI ify preserve protect and restore shoreline areas, buildings
and s	ites having historical cultural educational or scientific values
<u>ana s</u>	ices naving historical, calcular, calculonal, or sciencine values.
Obiective Educa	ate citizens on historical, cultural, and scientific significance of
<u>shore</u>	line structures, amenities, and functions.
FLOOD HAZARE	<u>D MANAGEMENT</u>
<u>Goal</u> Prote	ct the City of Shoreline and other property owners from losses
and d	amage created by flooding along the coast and sea-level rise.
Objective Seek	regional solutions to flooding problems through coordinated
plann	ing with state and federal agencies, other appropriate inter-
<u>ests</u> ,	
Objective Deve	lop a plan to mitigate and adapt to potentially altered environ-
ment	al conditions along the coastline resulting from climate change.
DESTODATION	
	<u>ELEMENT</u>
resto	re natural areas vegetation, and habitat functions
<u>103(0</u>	
Objective Seek	funding for restoration projects within the shoreline jurisdic-
tion a	ind require development proposals to address habitat restora-
<u>tion a</u>	ind water quality.
Objective Engag	ge in discussions with other municipalities that border the
Puge	t Sound and BNSF railroad regarding efforts to benefit fish pas-

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sage and nutrient transfer

Section 10 SHORELINE MASTER PROGRAM Goals and Policy

Environment Designations

Part of the process of drafting regulations involved classifying areas of the coastline according to their historic and existing conditions, and ecological function. This map is included as Figure SMP1.



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COMPREHENSIVE PLAN

Attachment A, Exhibit D2 Shoreline Master Program Supporting Analysis

CITY OF SHORELINE

Shoreline Inventory and Characterization



 Prepared for:
 December 2008, Revised November 2009 and April 2010

 City of Shoreline
 17544 Midvale Avenue N., Shoreline, WA 98133

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INTRODUCTION

Background and Purpose

The City of Shoreline (City), Washington is undertaking a comprehensive update to its Shoreline Master Program (SMP) as required by the implementing guidelines in the Washington Administrative Code (WAC). To support this effort, the City applied for and received a grant issued by the Washington State Department of Ecology (Ecology) (G0800171). This shoreline inventory and characterization study supports the SMP update process by providing a baseline inventory of existing conditions within the shoreline jurisdiction of the City.

In 2003, the Washington State Legislature passed Substitute Senate Bill (SSB) 6012, which established timelines for all cities and counties to amend their local shoreline master programs (SMPs) consistent with the Shoreline Management Act (SMA), RCW 90.58 and its updated implementing guidelines, Washington Administrative Code (WAC) 173-26. The City of Shoreline is required to prepare an update to its SMP by the end of 2009. The City prepared the first draft of this shoreline inventory and characterization report in 2004; however, the report was not formally adopted or finalized. The City's first step towards a comprehensive SMP update involves revising the 2004 draft report to update technical information that has changed or been made available since 2004, and to be consistent with the current state shoreline guidelines. This report provides:

- <u>Analysis and characterization of ecosystem-wide processes that affect the City's</u> <u>shoreline;</u>
- Analysis and characterization of shoreline functions; and
- Opportunities for protection, restoration, public access and shoreline use.

The inventory and characterization documents current shoreline conditions and provides a basis for updating the City's SMP goals, policies and regulations. This report will help the City establish a baseline of conditions, evaluate functions and values of resources in its shoreline jurisdiction, and explore opportunities for conservation and restoration of ecological functions.

This inventory and characterization report also includes a map folio, located at the end of the document. All figures referenced in the document are found in the map folio.

Shoreline Jurisdiction and Study Area Boundary

Under the SMA, the shoreline jurisdiction includes all submerged lands waterward of the ordinary high water mark (OHWM) of waters that have been designated as "shorelines of statewide significance" or "shorelines of the state," as well as those areas that are 200 feet landward of the OHWM of these same waters. The shoreline jurisdiction criteria were established in 1972, and are described in Washington Administrative Code (WAC) 183-Generally, "shorelines of statewide significance" include portions of Puget Sound and other marine water bodies, rivers west of the Cascade Range that have a mean annual flow of 1,000 cubic feet per second (cfs) or greater, rivers east of the Cascade Range that have a mean annual flow of 200 cfs or greater, and freshwater lakes with a surface area of 1,000

acres or more. "Shorelines of the state" are generally described as all marine shorelines and shorelines of all other streams or rivers having a mean annual flow of 20 cfs or greater and lakes with a surface area greater than 20 acres.

The City's shoreline jurisdiction includes the Puget Sound shore within both the city limits and its potential annexation area (PAA). The portion of Puget Sound seaward from the line of extreme low tide is considered a "shoreline of statewide significance" per RCW 90.58.030(2)(e). The remainder of the Puget Sound landward of the extreme low tide mark is considered a "shoreline of the state." The City therefore includes approximately four miles of Puget Sound coastline. There are no rivers, streams or lakes in the City meeting the definition of "shorelines of the state."

Under the SMA, the shoreline area to be regulated by the City's Shoreline Master Program must include all shorelines of statewide significance, shorelines of the state, and their adjacent shorelands, which are defined as the upland area within 200 feet of the OHWM, as well as any associated wetlands (RCW 90.58.030) within its municipal jurisdiction. Since the SMP is in part a long-range planning document, this characterization report includes those marine shorelines within the city limits as well as the PAA. One-half mile of the Puget Sound is located in the City's PAA. The City's PAA is known as Point Wells, located directly north of the city in unincorporated Snohomish County (Maps 1 and 1-A).

The City's shoreline jurisdiction extends to the landward edge of associated wetlands. "Associated wetlands" means those wetlands that are in proximity to and either influence or are influenced by tidal waters or a lake or stream subject to the SMA (WAC 173-22-030 [1]). These are typically identified as wetlands that physically extend into the shoreline jurisdiction, or wetlands that are functionally related to the shoreline jurisdiction through surface water connection and/or other factors. The specific language from the RCW describes the limits of shoreline jurisdiction as follows:

"those lands extending landward for two hundred feet in all directions as measured on a horizontal plane from the ordinary high water mark; floodways and contiguous floodplain areas landward two hundred feet from such floodways; and all associated wetlands and river deltas" (RCW 90.58.030[2][f]).

Wetlands associated with SMA regulated waters are limited to intertidal wetlands, mapped throughout the city limits along Puget Sound, and smaller wetlands associated with the lower reaches and mouths of Barnacle and Coyote (also known as Innis Arden South) Creeks.

Shoreline Planning Segments

For the purposes of this study, the City's shoreline jurisdiction was organized into five distinct segments (A through E) based broadly on the physical distinction along the shoreline, the level of ecological functions provided by each segment, as well as existing land uses and zoning designations. Shoreline Planning Segments are described in Table 1 and depicted on Map 1.

<u>Shoreline</u> <u>Segment</u>	<u>Approximat</u> <u>e Length</u> (feet)	<u>Approximat</u> <u>e Segment</u> <u>Acreage</u>	<u>General Boundaries</u>
<u>A</u>	<u>3,411</u>	<u>15.6</u>	Potential Annexation Area / Point Wells: located directly north of the city limits in unincorporated Snohomish County.
<u>B</u>	<u>4,724</u>	<u>21.7</u>	Richmond Beach residential area: the Snohomish County line south to Richmond Beach Saltwater Park.
<u>C</u>	<u>2,801</u>	<u>11.0</u>	Richmond Beach Saltwater Park south to Storm Creek
D	<u>1,295</u>	<u>5.7</u>	Innis Arden residential area: south of Richmond Beach Saltwater Park to Innis Arden Reserve Park.
E	<u>9,424</u>	<u>41.6</u>	Innis Arden Reserve / Highlands: Innis Arden Reserve Park south to city limits.

Table 1. Shoreline Planning Segments

Source: City of Shoreline, 2002

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Map 1: Shoreline Planning Segments



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CURRENT REGULATORY FRAMEWORK SUMMARY¹

City of Shoreline Regulations

Current Shoreline Management Act Compliance

The Shoreline Management Act is implemented through the development of local Shoreline Master Programs (SMPs). Local SMPs establish a system to classify shoreline areas into specific "environment designations." The purpose of shoreline environment designations is to provide a uniform basis for applying policies and use regulations within distinctly different shoreline areas. In a regulatory context, shoreline environment designations provide the governing policy and regulations that apply to land within the SMP jurisdiction. Portions of individual parcels that are outside SMP jurisdiction are governed by zoning and other applicable land use regulations. Generally, environment designations should be based on existing and planned development patterns, biological and physical capabilities and limitations of the shoreline, and a community's vision or objectives for its future development.

When the City of Shoreline incorporated in 1995, it adopted regulations outlined in Title 25 (Shoreline Management Plan) of the King County Code as the interim shoreline management code (Shoreline Municipal Code [SMC] 16.10). Shoreline properties within the City's PAA are regulated under the Snohomish County SMP, until such properties are annexed and the City's SMP is amended. During development of the City of Shoreline's first comprehensive plan in 1998, the City evaluated the natural and built characteristics of its shoreline jurisdiction and developed five preliminary shoreline environment designations:

Urban Railroad (for developed portions of the Burlington Northern Santa Fe [BNSF] Railway throughout the City's shoreline jurisdiction).

• Urban - High Intensity,

Suburban - High Residential,

• Suburban - Low Residential, and

Conservation.

These preliminary shoreline environment designations have not been approved by Ecology, since they were not part of a comprehensive update to the City's SMP. Therefore, they are not being implemented as part of Shoreline's interim shoreline management code.

¹ The discussion of regulatory requirements included herein is not intended to be a complete list of all permits or approvals necessary for work within the City's shoreline jurisdiction or other areas within the city or PAA. Other portions of local code and state and federal regulations may apply to development projects within the city. The permits and approvals necessary for construction may vary from parcel to parcel regardless of shoreline jurisdiction and may vary depending on the type and intensity of the work proposed. Prior to any construction within city limits, an applicant should contact the City and the applicable state and federal agencies to determine actual permit requirements. For development of parcels in the PAA outside of the city limits, an applicant should contact Snohomish County and the applicable state and federal agencies to determine actual permit requirements.

Comprehensive Plan, Zoning and Other City Regulations

- <u>City of Shoreline Comprehensive Plan</u> The City's existing Comprehensive Plan was adopted in 2001. The Comprehensive Plan establishes goals and policies that define the community's vision for the physical, economic, and social development of the City for the next 20 years. The Comprehensive Plan land use designations in the Puget Sound shoreline planning area include Mixed Use (Point Wells), Low Density Residential, Public Facilities (e.g., the BNSF Railway right-ofway), Public Open Space, and Private Open Space (City of Shoreline, 2001). City land use designations are relevant to this shoreline inventory and characterization report as they establish the general land use patterns and vision of growth the City has adopted for areas both inside and outside the shoreline jurisdiction. The City's SMP goals and policies are one element of the Comprehensive Plan (included as an appendix). During this update process, the City will update its SMP element goals and policies and integrate them with the GMA comprehensive plan requirements for administrative and regulatory reform.
- <u>City of Shoreline Municipal Code, Chapter 20.40: Zoning Chapter 20.40 of the SMC (Zoning and Use Provisions) establishes zoning designations. Zoning designations in the Puget Sound shoreline planning area include: Residential 4 units/acre (R-4) and Residential 6 units/acre (R-6) (City of Shoreline, 2006). Point Wells, located in the City's PAA, is zoned Heavy Industrial (HI) by the Snohomish County Zoning Code (Snohomish County website, 2008).</u>
- <u>City of Shoreline Municipal Code, Chapter 20.80: Critical Areas –</u> <u>Chapter 20.80 of the SMC (Critical Areas) establishes development</u> <u>standards, construction techniques, and permitted uses in critical areas</u> <u>and their buffers (i.e., geologic hazard areas, fish and wildlife habitat</u> <u>conservation areas, wetlands, flood hazard areas, aquifer recharge areas,</u> <u>and stream areas) to protect these areas from adverse impacts.</u> <u>Designated critical areas are found throughout the City's shoreline</u> <u>planning area, particularly wetlands and streams, flood hazard areas, and</u> <u>geologic hazard areas (City of Shoreline, 2007a).</u>
- <u>City of Shoreline Surface Water Master Plan The City's Surface</u> Water Master Plan was adopted in 2005. The plan identifies surface water problems, prioritizes needs, and provides long-term solutions that reflect the community's priorities and can be funded by the City. The Plan includes an analysis of vegetation and wildlife habitat and water resources in relation to the control and treatment of stormwater (City of Shoreline, 2005b).</u>

State and Federal Regulations

A number of state and federal agencies may have jurisdiction over land or natural elements in the City's shoreline jurisdiction. Local development proposals most commonly trigger requirements for state or federal permits when they impact wetlands or streams; potentially affect fish and wildlife listed under the federal Endangered Species Act (ESA); result in over one acre of clearing and grading; or affect the floodplain or floodway. As with local requirements, state and federal regulations may apply throughout the City, but regulated resources are common within the City's shoreline jurisdiction. The state and federal regulations affecting shoreline-related resources include, but are not limited to:

- Endangered Species Act: The federal ESA addresses the protection and recovery of federally listed species. The ESA is jointly administered by the National Oceanic and Atmospheric Administration (NOAA) Fisheries (formerly referred to as the National Marine Fisheries Service), and the United States Fish and Wildlife Service (USFWS).
- <u>Clean Water Act (CWA): The federal CWA requires states to set standards for the protection of water quality for various parameters, and it regulates excavation and dredging in waters of the U.S., including wetlands. Certain activities affecting wetlands in the City's shoreline jurisdiction or work in the adjacent rivers may require a permit from the U.S. Army Corps of Engineers and/or Washington State Department of Ecology under Section 404 and Section 401 of the CWA, respectively.</u>
- <u>Hydraulic Project Approval (HPA): The Washington Department of</u> <u>Fish and Wildlife (WDFW) regulates activities that use, divert, obstruct,</u> <u>or change the natural flow of the beds or banks of waters of the state and</u> <u>may affect fish habitat.</u> Projects in the shoreline jurisdiction requiring <u>construction below the OHWM of Puget Sound or streams in the city</u> <u>could require an HPA from WDFW.</u> Projects creating new impervious <u>surface that could substantially increase stormwater runoff to waters of</u> <u>the state may also require approval.</u>
- <u>National Pollutant Discharge Elimination System (NPDES): Ecology</u> regulates activities that result in wastewater discharges to surface water from industrial facilities or municipal wastewater treatment plants. NPDES permits are also required for stormwater discharges from industrial facilities, construction sites of one or more acres, and municipal stormwater systems that serve populations of 100,000 or more.

WATERSHED AND DRAINAGE BASINS

Water flow drives many ecological processes; therefore a useful characterization study area is the watershed. In Washington State, watersheds at a large scale are organized into Water Resource Inventory Areas (WRIAs). The City of Shoreline is located within the Lake Washington/ Cedar/ Sammamish Watershed (WRIA 8). The City is located the northwest portion of the watershed and includes two subareas: the Nearshore Subarea, which includes the 4 miles of shoreline in the City of Shoreline and another twenty miles north and south of the City, and the Lake Washington Subarea.

Surface water drainage basins in the City include portions of the McAleer Creek, Lyons Creek, West Lake Washington, Thornton Creek, Seattle Golf Course, Bitter Lake and two Middle Puget Sound drainage basins, and most of the Boeing Creek drainage basin (see Map 2 in Appendix C). McAleer, Lyons, West Lake Washington, and Thornton **finairkto** Lake Washington. Boeing Creek, Seattle Golf Course, Bitter Lake and the Middle Puget Sound basins drain to Puget Sound (City of Shoreline, 2005b). The features of the basins that drain to Puget Sound are discussed in more detail below: Boeing Creek Basin: Boeing Creek is partially piped from its origin and discharges into Puget Sound, passing through the City's shoreline planning area. Seattle Golf Course Basin: This 138 acre basin is located in the southwest portion of the city, with a small portion located in the City of Seattle. The runoff from the Seattle Golf Course Basin used to be collected in a wetland and infiltrated into the groundwater. The basin now discharges into Highlands Creek which then discharges into Puget Sound.

Bitter Lake Basin: Only 54 acres of this basin is located in the city, in its southwest portion. None of the basin's major watercourses are located within the city.

Middle Puget Sound Basins: The North and South basins enter Puget Sound through dozens of small creeks and storm drainage systems. The seven major drainage courses include: Highlands Creek, Blue Heron Creek (also known as Innis Arden North Creek), Coyote Creek (also known as Innis Arden South Creek), Storm Creek, Upper Barnacle Creek (also known as Upper Puget Sound North) and Lower Barnacle Creek (also known as South), Barnacle Creek, and Lost Creek. All the creeks originate from wetlands, urban runoff or hillside seeps, except that the headwaters of Upper and Lower Barnacle Creeks and Lost Creek are located to the north in Snohomish County.

Just two drainage basins drain to the shoreline planning area: Boeing Creek Basin and Middle Puget Sound Basin (see Map 4 in Appendix C). There are numerous surface water features conveyed through culverts into Puget Sound in addition to the creeks mentioned above. Drainages and streams are discussed in more detail in Section 5.8 *Streams* and include Lost Creek, Upper and Lower Barnacle Creeks, Barnacle Creek, Storm Creek, Blue Heron Creek, Coyote Creek, Boeing Creek, and Highlands Creek.

LAND USE PATTERNS

Land use in the City of Shoreline is largely influenced by the city's central geographical location and proximity to Puget Sound. The City is generally bounded by the City of Lake Forest Park to the east, the City of Seattle to the south, the Puget Sound shoreline to the west, and Snohomish County to the north, which includes the Cities of Edmonds and Mountlake Terrace, and the Town of Woodway. The City's shoreline jurisdiction is composed of a variety of natural and man-made characteristics that include natural beaches, wooded slopes, single-family homes, the BNSF Railway, and in the annexation area of Point Wells, an industrial port. Point Wells, a 100-acre industrial site located directly north of the City along Puget Sound, is currently under Snohomish County jurisdiction and is a potential annexation area for the City of Shoreline (City of Shoreline, 2005a).

Historical Land Use

The first major development along the Puget Sound coastline in the City occurred when the Great Northern Railroad was built along the water in 1891 (HistoryLink.org website, 1999). The railroad line provided a direct transportation link to downtown Seattle. In 1901, the Portland Ship Building Company built a shipyard at what is now the Point Wells site. Another historical landscape alteration that occurred along the coastline was the processing of sand and gravel at the current location of Richmond Beach Saltwater Park (see background of the photograph below, ca 1910). Over time, continued logging and residential development resulted in the landscape as seen today (Shoreline Historical Museum website, 1999).



Source: Shoreline Historical Museum

Existing Land Use

Residential Land Use

The City of Shoreline is predominately occupied by residential land uses, which support commercial and retail uses, various institutional uses, and a few industrial uses. Residential single-family development occupies approximately 51 percent of the land use

in the community. Multi-family residential development occupies 4 percent and is primarily located near commercial areas along State Route 99 (also known as Aurora Avenue North) and in neighborhood centers (i.e., Richmond Beach, Echo Lake, North City, and Ballinger) (City of Shoreline, 2005a).

Several neighborhoods are located near the Puget Sound shoreline within the City. Neighborhoods include Richmond Beach (a portion of which is located immediately adjacent to the Puget Sound), Innis Arden, and the Highlands (City of Shoreline, 2005a). Residential development in the Puget Sound shoreline planning area is characterized by single-family properties, which occupy approximately 19 percent of the total shoreline planning area. Single-family residential uses which are located immediately adjacent to the Puget Sound abut the City's shoreline for a length of 1,886 linear feet. That is approximately 9 percent of the total linear length of the City's Puget Sound shoreline, including the PAA (King County, 2007). With the exception of residential properties in Segment B, the extensive bluff system along Puget Sound (Photo E-3 in Appendix B) precludes extensive development within the City's shoreline jurisdiction.

Commercial and Industrial Land Uses

Commercial and industrial developments occupy approximately 4 percent of the land use within the City (City of Shoreline, 2005a). Point Wells is the only industrial property located along the Puget Sound shoreline and occupies approximately 20 percent of the total shoreline planning area (Photo A-1 in Appendix B). The Point Wells industrial facility abuts the City's Puget Sound shoreline for a length of 3,411 linear feet. That is approximately 16 percent of the total linear length of the City's Puget Sound shoreline (Snohomish County, 2007b). The City's 1998 *Comprehensive Plan*, adopted prior to the current 2005 *Comprehensive Plan*, indicated that the Point Wells property served as a petroleum product (gasoline and diesel fuel) marketing and distribution center for approximately 60 years or more (City of Shoreline, 1998b). The petroleum distribution center discontinued operation in 1994. An asphalt plant was operated at the site on a seasonal basis by the Chevron Corporation (Sound Transit, 1999b). The property was sold to Paramount of Washington in 2005 and is now used for petroleum products storage, processing and distribution. Soil and groundwater contamination are documented at the Point Wells facility (Snohomish County, 2007a).

Private and Public Utility Land Uses

Public facilities, institutions and right-of-way uses occupy approximately 29 percent of the City (City of Shoreline, 2005a). The BNSF Railway right-of-way extends in a north-south direction along the entire length of the city's shoreline planning area. It is the most dominant land use in the shoreline, occupying 48 percent of the total shoreline planning area. The BNSF Railway right-of-way abuts the City's Puget Sound shoreline (including the PAA) for a length of 15,398 linear feet. That is approximately 70 percent of the total linear length of the City's Puget Sound shoreline, including the PAA (King County, 2007).

There are two public facilities in the City's shoreline planning area, both of which are owned by King County. The first is right-of-way property located at the Point Wells site in Segment A. A conveyance system and marine outfall will be constructed on the property to serve the regional King County Brightwater Treatment Plant currently being constructed. The second property is located in Segment B which houses a King County wastewater pump station, known as the Richmond Beach Pump Station. A recreation easement has been obtained by the City to develop a park on this property, as described in more detail in Section 7.3.2 *Richmond Beach Pump Station Park Project* (City of Shoreline website, 2008).

Parks, Open Space and Vacant Land Uses

Only 1 percent of the City of Shoreline is undeveloped land. Parks, recreation, and open space (including lakes) occupy approximately 10 percent of the City (City of Shoreline, 2005a). Within the Puget Sound shoreline planning area, 8 percent of the land is occupied by parks and open space including the Richmond Beach Saltwater Park in Segment C and the Innis Arden Reserve in Segment E (Photos C-2 and E-1 in Appendix B; Map 11 in Appendix C). Four percent (960 lineal feet) of the properties that abut the City's Puget Sound shoreline (including the PAA) are occupied by park and reserve. Vacant properties occupy 2 percent of the total shoreline planning area and are located in Segments B and E. (King County, 2007).

Comprehensive Plan / Zoning Designations

Comprehensive Plan

According to the City of Shoreline Comprehensive Plan Map (2001), the City's shoreline planning area is largely comprised of properties designated as Low Density Residential and Public Facilities (i.e., the BNSF Railway right-of-way). Public Open Space and Private Open Space designations occupy the remainder of the shoreline planning area. In addition, the annexation area currently occupied by the Paramount of Washington facility in unincorporated Snohomish County is discussed in the *Comprehensive Plan* (2005a) and is currently designated as Mixed Use (see Map 9a in Appendix C) (City of Shoreline, 2001). Snohomish County designates Point Wells as Urban Industrial (Snohomish County website, 2008). The property owner has petitioned the County to change the Comprehensive Plan designation to Urban Center (Snohomish County, 2007a).

<u>General goals and policies established in the 2005 Comprehensive Plan related to the</u> protection of natural features encourage the protection and improvement of the natural environment and environmentally critical areas, construction of surface water facilities that promote water quality and enhance and preserve natural habitat, identification and protection of wildlife corridors, and preservation of wetlands, aquatic and riparian habitats and Puget Sound buffers (City of Shoreline, 2005a).

The general goals and policies of the City's 1998 Shoreline Master Program are included in the 2005 *Comprehensive Plan* as an appendix. Water-oriented uses are encouraged but must be balanced with the protection of Puget Sound shoreline's natural resources (City of Shoreline, 2005a).

Zoning Designations

Zoning designations in the City of Shoreline generally follow land use designations as discussed above. There are only two zones within the City's Puget Sound shoreline

planning area; Residential 4 units/acre (R-4) and Residential 6 units/acre (R-6). The zones encompass the BNSF Railway right-of-way, parks, open space, and public facilities (see Map 8 in Appendix C) (City of Shoreline, 2002). Point Wells is zoned as Heavy Industrial (HI) in the Snohomish County Permit, Planning, and Zoning Map (Snohomish County website, 2008). The property owner has petitioned the County to change the zoning to Planned Community Business (Snohomish County, 2007a).

Table 2 identifies the relative percentage of existing land uses in each planning segment based on 2007 King County and Snohomish County Assessor land use records. Table 2 also includes the *Comprehensive Plan* land use and zoning designations for each segment.

Impervious Surface

Impervious areas in the City were analyzed based on the King County Impervious/Impacted Surface Interpretation dataset (see Map 14 in Appendix C) (King County, 2004). The dataset is based on high-resolution multispectral imagery from 2000. It includes mostly surfaces with high to complete impermeability, such as concrete, asphalt, roofing materials and other sealed surfaces that prevent the natural penetration of water into soil. Examples of impervious surfaces identified in this imagery include: building roof tops regardless of composition or construction; roadways, highways and parking lots constructed of concrete or asphalt; parking areas with a high density of parked vehicles as represented by the imagery; sidewalks, pedestrian walkways and malls constructed of concrete, asphalt or brick; and, other prepared surfaces such as bicycle paths, tennis courts and running paths.

Impervious surfaces reduce the potential for stormwater infiltration and increase stormwater runoff, including the rate of runoff and timing of peak flows. In general, higher percentages of impervious area are an indicator of development density and intensity which is tied to an increase in stormwater runoff. Impervious surfaces may contain pollutants that are harmful to water quality. Pollutants originating in the shoreline planning area likely originate from landscaped areas (e.g., parks and residential yards), BNSF Railway (e.g., creosote railroad ties and railroad cars), industrial facilities (e.g., overwater structures), and, to a lesser extent, vehicles and roadways. The approximate impervious area has been determined based on a qualitative assessment of the 2004 King County dataset and 2002 aerial photography, and from coordination with City staff in 2003. Impervious surface at the Point Wells facility in Segment A was estimated visually based on 2002 aerial photography of the site. Table 2 includes the approximate amount of impervious area within each shoreline planning segment. Overall, approximately 20 percent of the City's shoreline planning area is impervious due to concrete, asphalt, roofing surfaces or other sealed surfaces. The PAA contains the highest impervious area due to historic heavy industrial uses. Segment B contains 25 to 30 percent impervious area due to residential development near the shoreline. Segment E, which comprises nearly half of the shoreline planning area (43.5%) has fairly low impervious surface (approximately 5 to 15 percent). Thus, stormwater runoff and infiltration rates are not as altered in Segment E in comparison to Segments B and D.

City of Shoreline - Shoreline Inventory and

Characterization

<u>Shorel</u> <u>ine</u> <u>Segme</u> <u>nt</u>	<u>Existing Land Use (Incl</u> approximate percenta within each segment	udes nge ()	<u>Comprehensiv</u> <u>e Plan</u> Land Use Designations	<u>Existing Zoning</u> (Includes approximate percent: each zoned area within each seg	age of ment)	<u>Appro</u> <u>ximate</u> <u>Imperv</u> <u>ious</u> <u>Area²</u>
<u>A</u>	<u>Petroleum Facility</u> <u>King County Right-</u> <u>of- Way (ROW)</u>	<u>95%</u> <u>5%</u>	<u>Mixed Use</u> <u>(City of</u> <u>Shoreline</u> <i>Comprehensive</i>	<u>Heavy Industrial</u> (Snohomish County Zoning)	<u>100%</u>	<u>60-70%³</u>
<u>B</u>	Single Family Residential BNSF Railway ROW Utility Vacant	$ \frac{42\%}{42\%} \frac{10\%}{5\%} $	Plan) Public Facilities Low Density Residential Public Open Space	Residential, 6 units/acre (R-6) Residential, 4 units/acres (R-4)	<u>98%</u> <u>2%</u>	<u>50-60%</u>
<u>C</u>	BNSF Railway <u>ROW Park</u> Single-Family <u>Residential</u>	$\frac{61\%}{34\%}$ <u>4%</u>	Public Facilities Public Open Space Low Density	Residential, 4 units/acre (R-4)	<u>100%</u>	<u>5-10%</u>
<u>D</u>	<u>Single-Family</u> <u>Residential</u> BNSF Railway ROW	<u>52%</u> <u>48%</u>	<u>IResitentialy</u> <u>Residential</u> <u>Public Facilities</u>	Residential, 4 units/acre (R-4)	<u>100%</u>	<u>15-25%</u>
Ē	BNSF Railway ROW Single-Family Residential Open Space Vacant	72% 17% 10% 1%	Public Facilities Private Open Space Low Density	Residential, 4 units/acre (R-4)	<u>100%</u>	<u>5-15%</u>

Sources: City of Shoreline, 2002; Snohomish County Residential County, 2004 and 2007.

 ² Approximate impervious area is based on King County data (2004), aerial photo interpretation and coordination with City staff in 2003.
 ³ Impervious surface at the Point Wells facility in Segment A was estimated in 2003 based on aerial photography of the site showing the presence of a barge dock, rail line, and tanks within the shoreline environment.

<u>City of Shoreline – Shoreline Inventory and</u> <u>Characterization</u>

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Existing and Planned Public Access Sites

Public access to the Puget Sound shoreline in the City of Shoreline is restricted to existing parks. Rugged terrain characterized by steep bluffs occurs throughout most of the shoreline planning area, which limit physical access to the water. Further, the BNSF railroad tracks parallel the entire shoreline within city limits. Public access to the railroad right-of-way is prohibited. Waterward public access is restricted in some areas by privately owned tidelands (including BNSF, residential and industrial property owners). Existing parks and open space areas in the City's shoreline planning area include (see Map 11 in Appendix C) (City of Shoreline, 2005c):

<u>Richmond Beach Saltwater Park (Public) – This regional 40-acre park located in Segment</u> C provides active and passive uses including picnic areas, shelter buildings, a

playground area, observation areas, trails, and Puget Sound shoreline beach access (Photos C-2 and C-3 in Appendix B). Park users occasionally use the shoreline access for swimming in Puget Sound during favorable weather conditions.

<u>Blue Heron Reserve (Private) – This private tract is preserved as a natural area and is</u> associated with Blue Heron Creek. It is located in the southern portion of Segment C. No public shoreline access is permitted along the tract.

<u>Coyote Reserve (Private) – This private tract is preserved as a natural area and is</u> associated with Coyote Creek. It is located in the northern portion of Segment D. No public shoreline access is permitted along the tract.

Innis Arden Reserve (Public) – This 23-acre natural open space area/greenway passiveuse park is located in the northern area of Segment E along the bluffs overlooking Puget Sound. Hiking/walking trails represent the main activity of this passive-use reserve. Although trails eventually lead to the shoreline, the public has to cross the BNSF railroad tracks and riprap to reach the Puget Sound shoreline beach (Photo E-1 in Appendix B). Boeing Creek Reserve (Private) – Four acres of natural area associated with Boeing Creek along the Puget Sound shoreline in the center portion of Segment E is preserved as private open space. No publicshoreline access is permitted from this reserve along the bluff (Photo E-2 in Appendix B).

Improvements and enhancements to existing park and open space resources along Puget Sound identified in the City's Parks, Recreation and Open Space Plan (2005c) include: Richmond Beach Saltwater Park - As outlined in the Plan, a Community Attitude and Interest Survey was conducted to establish priorities for the future development of parks and recreation facilities, programs and services within the city. The City surveyed 575 residents in the community. Thirty-one percent of the respondents selected upgrading Richmond Beach Saltwater Park as one of the four most important actions the City should take⁴. Largely in response to the survey, the City is currently in the process of adding viewpoints and interpretive signage, and improving trails (see Section 7.3.3 *Richmond Beach Saltwater Park Project* for more details). Additional improvements and enhancements identified by the Plan that would be implemented at a later date include developing an underwater marine park, a pier, and a trail along Puget Sound to connect the park to Innis Arden Reserve.

⁴ The other three actions were to upgrade existing neighborhood parks and play grounds (38%), upgrade natural areas and nature trails (30%), and improve shoreline and beach access (29%).

Innis Arden Reserve - Improving trail system, developing overlook viewpoints and interpretive signage, stabilizing slopes, enhancing vegetation and developing safe access to Puget Sound across the BNSF Railway right-of-way.

As part of King County mitigation for impacts from the Brightwater Treatment Plant project, a new park will be installed at the King County Richmond Beach Pump Station. Improvements to the site will include construction of a small parking area, restroom, interpretive watchtower overlooking the BNSF railroad and Puget Sound, and play areas. No shoreline access west of the BNSF railroad is proposed (see Section 7.3.2 *Richmond Beach Pump Station Park Project* for more details) (City of Shoreline website, 2008).

The City of Shoreline's *Comprehensive Plan* provides a list of funded and unfunded parks, recreation, open space and city facility capital improvements. Opportunities for enhancing public access to the shoreline under consideration include development of a trail system along Puget Sound between Richmond Beach Saltwater Park and Innis Arden Reserve, amenity enhancements and development of overlooks, viewpoints, and interpretive signage, and habitat and native plant restoration at Innis Arden Reserve, construction of a pedestrian crossing from Richmond Beach Pump Station park site to the beach, and providing beach access at the Boeing Creek Reserve (City of Shoreline, 2004; City of Shoreline, 2005a).

Roads and Transportation Facilities

The BNSF railroad runs the length of the Puget Sound shoreline in the city abutting the shoreline for a length of 15,398 linear feet. That is approximately 70 percent of the total linear length of the City's Puget Sound shoreline, including the PAA (King County, 2007). The developed and undeveloped portions of the BNSF Railway right-of-way occupy approximately 48 percent of the City's shoreline planning area (King County, 2007), varying in width from 100 feet to greater than 300 feet. The rail line provides freight movement and intercity passenger rail. The rail line serves as the region's primary rail freight connection to the north, as well as a major connection to the east, and is an important link in the multimodal system supporting the Ports of Everett, Seattle, and Tacoma. An average of 36 freight trains, six Amtrak passenger trains and six Sound Transit Sounder passenger trains use the railway each day (Herrera Environmental Consultants, 2005). Unattached engines also traverse between cities along the rail line. The Sounder is operated by Sound Transit, the Central Puget Sound Regional Transit Authority. It is a commuter rail service located along a 35-mile corridor between Everett and Seattle that uses the existing BNSF Railway right-of-way. Amtrak trains use the existing right-of-way between Vancouver, BC and Portland, Oregon. (Sound Transit, 1999a; Sound Transit website, 2008; Amtrak website, 2008).

BNSF Railway is proposing to install a train traffic signal, utility bungalow, and retaining wall south of Richmond Beach Saltwater Park in Segment C. This would involve filling a minimal amount (less than ½ an acre) of freshwater wetland. BNSF Railway is also proposing to install train traffic signals, a utility bungalow, a train-switching mechanism, retaining wall, and a new access road north of Boeing Creek in Segment E. The improvements will involve filling 0.25 acres of freshwater wetland. BNSF Railway will

also be installing improvements in other locations along the BNSF rail line between Everett and Seattle outside of Shoreline city limits. Sound Transit will pay for the improvements in order to meet conditions established in a joint agreement between BNSF and Sound Transit. These conditions are required of Sound Transit in order to run a third daily Sounder commuter train between Everett and Seattle. Mitigation for the wetland fill and impacts from these improvements will occur off-site at the Qwuloolt restoration site in Marysville and Meadowdale Marina in Edmonds. Construction is expected to begin in 2009 (Herrera, 2005).

Due to the topography of the Puget Sound shoreline and the private ownership of the BNSF Railway along the extent of the shoreline, the only major roadway that falls within the City's shoreline planning area is Richmond Beach Drive NW (see Map 10 in Appendix C). Richmond Beach Drive NW is the primary roadway that allows access to thirty-two residences along the shoreline in the northwestern portion of the city. The residences span a total of 1,886 linear feet along the shoreline (King County, 2007). The homes are accessed from Richmond Beach Drive NW via the Richmond Beach Overcrossing Bridge which passes over the BNSF railroad tracks. The Bridge connects to 27th Avenue NW, a local road located behind the residences that runs parallel to the Puget Sound shoreline. 27th Avenue NW is also the only motor vehicle access west of the BNSF Railway right-of-way in the city via the Bridge (see Map 1B in Appendix C). The timber bridge was originally built in 1923 and rebuilt in 1956. The City is planning to replace it with a reinforced concrete bridge. Once the City finalizes negotiations with BNSF Railway on a temporary construction easement, project cost sharing and construction issues, construction will begin (City of Shoreline website, 2008).

Wastewater and Stormwater Utilities

The Ronald Wastewater District (RWD), formerly known as the Shoreline Wastewater Management District (SWMD), provides wastewater service to a majority of the City of Shoreline and includes the Point Wells property. Highlands Sewer District serves the Highlands Neighborhood in the southwest portion of the City. Wastewater collected from RWD is treated at two facilities under contract arrangements: King County Wastewater Treatment Division's (WTD) West Point Treatment Plant in Discovery Park, Seattle, and the City of Edmonds Wastewater Treatment Plant. Wastewater from the Highlands Sewer District is conveyed to RWD facilities (City of Shoreline, 2005b). Two RWD customers currently operate septic systems in the Richmond Beach Neighborhood; however, none of the properties fall within the City's shoreline planning area (Newman, personal communication, 2003).

Four RWD lift stations are located within the Puget Sound shoreline planning area. The King County Richmond Beach Pump Station is located in Segment B (King County, 2007). King County maintains a 30-inch diameter emergency overflow outfall pipe associated with the pump station. The outfall pipe is located in Segment B. King County also maintains an emergency overflow outfall pipe in Segment E. The pipe is associated with the Hidden Lake Pump Station located outside of shoreline planning area near Boeing Creek Shoreline Park (see Map 10 in Appendix C).

Upon the City's incorporation in 1995, the City of Shoreline inherited and assumed jurisdiction over the storm and surface water management system located in the roadways within the city limits. As of 1998, facilities located outside the roadways are under the City of Shoreline jurisdiction as well. Stormwater utilities generally consist of a mix of open ditches and channels, pipes, vaults and open retention/detention facilities.

Historical/Cultural Resources

Historic and cultural resources are documented through a variety of sources. Official registers include the National Register of Historic Places and the Washington State Heritage Register. In 1995, the City of Shoreline adopted Chapter 15.20 of the municipal code (Landmark Preservation) to provide for the designation, preservation, protection, enhancement, and perpetuation of designated historic resources within the boundaries of the City. The Landmark Preservation chapter adopts by reference several sections of the King County Code Chapter 20.62 (Protection and Preservation of Landmarks, Landmark Sites and Districts). None of the properties designated as landmarks in the City of Shoreline are located within the shoreline planning area (see Map 13 in Appendix C).

The Historical/Cultural Element of the 1998 Shoreline Master Program provides general goals and policies to ensure important archaeological, historical, and cultural sites located within the shoreline jurisdiction are identified, protected, preserved, and restored for educational and scientific purposes. It also aims to adopt standards that ensure the protection and preservation of historic and cultural sites (City of Shoreline, 1998b). Historic preservation is also addressed in the Community Design Element of the 2005 Shoreline *Comprehensive Plan*.

In 1996, the King County Historic Preservation Program conducted an inventory of historic resources in the City of Shoreline. It did not include an inventory of archaeological sites, traditional cultural properties, or historic landscapes. However, an analysis of documented research revealed Native American peoples traveled along the Puget Sound shoreline and stream drainages to collect resources such as tobacco at Richmond Beach. No buildings directly associated with railroad development in Richmond Beach, lumber production, agricultural production, or the interurban railroad remain today (Copass, 1996).

In 2001, Larson Anthropological Archaeological Services (LAAS) conducted a study of six potential wastewater treatment plant sites in Snohomish County as part of King County's Brightwater Treatment Plant project. The inventory included the Point Wells site. No archaeological sites or historic structures are recorded within 0.25 miles from the Point Wells industrial site. However, LAAS determined Point Wells has a high probability for hunter-fisher-gatherer archaeological resources based on the existence of a former sandspit and lagoon buried in fill in the western half of Point Wells beneath the steep bluffs along the shoreline. Further archaeological investigation is recommended to determine if archaeological deposits associated with the former sandspit and lagoon exist beneath fill (LAAS, 2001).

Sound Transit performed an inventory of historic, cultural, and archaeological resources along the commuter route between Seattle and Everett in a Final Environmental Impact Statement (EIS) for the Commuter Rail Project (1999). The inventory was based on existing documents, coordination, including contact with Native American tribal organizations, and the National Register of Historic Places. At the time the EIS was written, Sound Transit was considering developing a station near the City of Shoreline. Two station alternatives were considered in the EIS, Point Wells and Richmond Beach Saltwater Park. Sound Transit determined that no known historic, cultural, or archaeological resources areas were listed in, or eligible for, the National Register. While construction work at these two areas could affect undiscovered prehistoric or historic archaeological deposits, native soils have been previously disturbed; suggesting questionable integrity of any archaeological remains (Sound Transit, 1999a).

Site Contamination

According to Department of Ecology's Facility Site database, there is one known contaminated site in the shoreline planning area (Ecology website, 2008). The Point Wells site is listed on the Department of Ecology's Suspected and Confirmed Contaminated Sites List for soil, groundwater and surface water contamination associated with previous petroleum production. In 1999, documentation prepared for the King County Brightwater Treatment Plant examined potential soil and groundwater contamination at several sites under consideration at that time for a treatment facility, including Point Wells. When the Brightwater document was prepared, the long-term soil and groundwater remediation plans by Chevron, the property owner at that time, were unknown (CH2MHill and Associated Firms, 2001). However, as part of the Brightwater Treatment Plant conveyance project, a portion of Point Wells is undergoing a voluntary cleanup program with Ecology for suspected and confirmed soil and groundwater contamination.

NEARSHORE PHYSICAL CHARACTERIZATION

Nearshore Processes

The Puget Sound nearshore is defined as the area of marine and estuarine shoreline extending from the top of shoreline bluffs to the depth offshore where light penetrates the water thereby supporting plant growth (King County Department of Natural Resources and Parks [KCDNRP], 2001). The nearshore also includes estuaries and tidal rivers to the head of tidal influence. Landforms found in the Puget Sound nearshore environment include bluffs, beaches, mudflats, kelp and eelgrass beds, salt marshes, spits, and estuaries.

The processes occurring within the Puget Sound nearshore area are critical for maintaining habitats and health of the nearshore shoreline environment. Changes in the physical processes within the nearshore can negatively affect habitats by limiting food and nutrient sources for marine life, deteriorating beach sediment movement, accelerating erosion, and altering the flows of surface and groundwater. Nearshore processes are those actions which occur as a result of wind, tidal influence, waves, and surface and groundwater flow that result in sediment movement and affect habitat formation. The City of Shoreline beaches are typical of Puget Sound and can be characterized by two distinct foreshore components: a high-tide beach and a low-tide terrace (Downing, 1983). The high-tide beach consists of a relatively steep beachface with coarse sediment and an abrupt break in slope at its waterward extent. Low wave energy beaches, such as those along the City's shoreline, have a high-tide beach composed of poorly sorted sediment, with intermittent intertidal vegetation and a relatively narrow backshore. Extending seaward from the break in slope, the low-tide terrace typically consists of a gently sloping accumulation of poorly sorted fine-grained sediment (Komar, 1976; Keuler, 1979). Considerable amounts of sand in a mixed sand and gravel beach are typically winnowed from the high-tide beach by waves and deposited on the low-tide terrace (Chu, 1985). The amount and composition of beach sediment generally follows a seasonal cycle. Under normal seasonal weather patterns, the stronger, wind-driven waves that occur in winter remove material from the beachface, while more gentle, summer wind-driven waves move sediment back onshore (Masselink and Hughes, 2003).

Puget Sound beach morphology and composition is dependent upon three main influences; wave energy, sediment sources, and relative position of the beach within a littoral cell. Wave energy is controlled by fetch; the open water over which winds blow without any interference from land. Wind-generated wave action gradually erodes beaches and the toe of coastal bluffs, leading to landslides. These coastal bluffs are the primary source of sediment for most Puget Sound beaches. In the City, coastal bluffs are separated from the shoreline by the BNSF railroad, thus completely removing bluff sediment sources. Fluvial sources of sediment are typically of only local significance in comparison to bluff sediment sources, which reportedly account for roughly 90% of beach material (Keuler 1988, Downing, 1983). Bluff composition and wave energy influence the composition of beach sediment. Waves sort coarse and fine sediment and large waves can transport cobbles that small waves cannot.

Wind-generated waves typically approach the shore at an angle, creating beach drift and longshore currents and transporting sediment by a process called littoral drift. Net shoredrift refers to the long-term, net result of littoral drift. Net shore-drift cells represent a sediment transport sector from source to deposition along a portion of coast. Each drift cell acts as a system consisting of three components: a sediment source (erosive feature) and origin of a drift cell; a transport zone where materials are moved alongshore by wave action with minimal sediment input; and an area of deposition (accretion area) that acts as the drift cell terminus (Jacobson and Schwartz, 1981). Deposition of sediment occurs where wave energy is no longer sufficient to transport the sediment in the drift cell. Drift cells in the Puget Sound region range in length from 46 feet to just under 19 miles, with the average drift cell just under 1.5 miles long (Schwartz, 1991). The Washington Coastal Atlas (Ecology website, 2008) maps net-shore drift direction, or the prominent drift direction, including divergence zones and areas of "no appreciable drift" (which include highly modified, protected harbor shorelines). Based on the wave regime, extensive fetch, and coastal geomorphology the net drift direction of all the shoreline planning segments is south to north (Schwartz, 1991). Divergence zones are present at the north end of Point Wells and south of the City boundary in the City of Seattle, but the City's shoreline is within a single drift cell.

The Washington Department of Natural Resources (WDNR) ShoreZone Inventory (2001) documents shoreline sediment stability as stable, erosional, or accretional, and sediment sources as fluvial, alongshore, and backshore (see Table 3). The City's shoreline is homogeneous in terms of the sediment stability and source because of the BNSF railroad. The railroad results in a stable sediment characterization throughout the shoreline, with the exception of the shoreline adjacent to Innis Arden Reserve. Construction of the railroad buried much of upper foreshore beach, thereby locking up coarse sand and gravel in the littoral system. This limits or precludes longshore transport of sediment. Sediment sources in the City are limited and are characterized by the ShoreZone data as alongshore with the exception of some fluvial sediment released from Boeing Creek. As discussed previously, the railroad interrupts historic sediment supply from eroding bluffs.

The width of intertidal beach in the City's shoreline is also relatively constant throughout the shoreline length, averaging 20 to 40 feet wide. The exception is within Segment B where some wider intertidal beaches are present near residential development along the shoreline. Additional details of ShoreZone data are contained in Appendix A. Table A-1 includes more detailed information within each of the planning segments. Map 2 in Appendix A depicts the individual ShoreZone segments.

<u>Shoreline</u> <u>Segment</u>	<u>Approximat</u> <u>e Intertidal</u> <u>Width</u>	<u>Estimated</u> <u>Sediment</u> <u>Source</u>	<u>Sediment</u> <u>Stability</u>	<u>Net shore</u> <u>Drift</u> Direction
A	<u>20 - 37 feet</u>	<u>Alongshore</u> (all of	Stable	North
<u>B</u>	<u>30 - 105 feet</u>	<u>Anongentie</u> (all of	Stable	North
<u>C</u>	<u>27 - 36 feet</u>	<u>Anongentie</u> (all of	Stable	North
D	<u>36 feet</u>	Assessmentle (all of	Stable	North
<u>E</u>	<u>21 - 46 feet</u>	<u>ASEALDSEND</u> (most of segment); <u>Fluvial in</u> relation to <u>Boeing Creek</u>	<u>Stable (most of</u> <u>segment);</u> <u>Erosional from</u> <u>north end of</u> <u>segment</u> (646.7 feet to	<u>North</u>
			south)	

Table 3. Shoreline Sediment Sources and Mobility

Source: WDNR, 2001; Schwartz, 1991.

Johannessen et al. (2005) inventoried current and historic shoreline erosion and accretion areas in the City of Shoreline. Drift cell "SN-3" generally corresponds with the shoreline within the City, beginning 1.5 miles south of Boeing Creek and extending north to Point Wells. Historically, this drift cell was comprised of 45% feeder bluff, 18% feeder bluff exceptional, and an additional 4% as potential feeder bluff. The remaining 67% of the shoreline was comprised of four scattered accretion areas. These accretion areas were characterized by delta lagoons, longshore lagoons and stream mouths. Along the Point Wells shoreline, before it was developed as an industrial site, there was a longshore lagoon that connected to a larger delta lagoon to the north.

The construction of the BNSF railroad separated historic coastal feeder bluffs from the shoreline, resulting in a 100% loss of sediment sources (Johannessen et al., 2005). The City's shoreline now consists of nine separate accretion shoreforms interrupted by railroad and residential modifications (Johannessen et al., 2005). No active feeder bluffs are currently present. Sixty-seven percent (67%) of the shoreline is classified as modified due to the railroad with the remainder (29%) classified as accretion shoreforms. From the north end of the City south to Richmond Beach (Segment B) there is a broad accretion shoreform, which corresponds with the slightly wider intertidal width shown earlier in Table 3. Table 4 is a summary of the information included in Johannessen et al. (2005).

 Table 4. Current and Historic Beach Feeding Sources/Erosion and Accretion Areas in

 City of Shoreline (Drift Cell SN-3)

	<u>Feeder</u> <u>Bluff</u> <u>(%)</u>	Feeder Bluff Except ional (%)	<u>Potential</u> <u>Feeder</u> <u>Bluff (%)</u>	<u>Not</u> <u>Feeder</u> <u>Bluff</u> <u>(%)</u>	<u>Accretion</u> <u>Shore</u> <u>forms</u> <u>(%)</u>	<u>Modi</u> <u>fied</u> (%)
<u>Historic</u> conditions	<u>45%</u>	<u>18</u>	<u>4</u>	<u>5</u>	<u>18%</u>	<u>11%</u>
<u>Current</u> <u>Conditions</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>0%</u>	<u>29%</u>	<u>71%</u>
<u>Change</u>	<u>-45%</u>	<u>-18%</u>	<u>-4%</u>	<u>-5%</u>	+11%	<u>+61</u> <u>%</u>

Source: Johannessen et al. 2005

Geologic Units

<u>Geologic information was collected from two sources: the Tetra Tech/KCM Geology</u> (Geographic Information Systems [GIS]) data used in basin characterization reports (2004a and 2004d) and King County/Booth Surficial Geology Mapping (2005). These two sources characterize the geology of the shoreline planning area as containing till, beach deposits, advance outwash deposits, transitional beds, recessional outwash deposits, possession drift, landslide, and Whidbey formations.

The City is located at the western edge of the Seattle drift plain, an irregular plateau that drops toward Puget Sound (TT/KCM, 2004a and 2004d). The glacial retreat left behind layers of silt/clay, till, and gravel. Steep bluffs are characteristic in shoreline planning Segment E (Highlands/Boeing Creek) and begin to diminish in a northerly direction through shoreline Segments D and C.

<u>Soils</u>

The Soil Survey for King County (United States Department of Agriculture, Soil Conservation Service [USDA SCS], 1973) does not include the City of Shoreline. The

Soil Survey for Snohomish County (USDA Natural Resources Conservation Service [NRCS], 1983) maps Point Wells (Segment A) as "Urban Land." Soil information from a 1952 survey by the US SCS was reviewed for soil type by basin (TT/KCM, 2004a and 2004d). The survey indicates that the predominant soil type in the Middle Puget Sound South Basin is Everett gravelly sandy loam (75 percent) with the remainder being Alderwood gravelly sandy loam. The majority of the Boeing Creek Basin is Alderwood gravelly sandy loam. The predominant soil type in the Middle Puget Sound North Basin is split between the two major soil types already mentioned. The rest of the soils represent less than four percent of the total area in the City, including Carbondale muck, coastal beach and Norma fine sandy loam.

The Geotechnical Assessment Report prepared for the Sound Transit Everett to Seattle Commuter Rail Project (HWA GeoSciences, Inc., 1998) describes the typical soils and slope profile found along the waterfront from Everett to Seattle. In general, the **dremis**ated by Pleistocene aged glacial soils associated with the Vashon Drift and consisting of recessional outwash deposits, glacial till, advance outwash and glacial lacustrine. Recent soil deposits include beach and colluvial deposits, some of which are associated with landslides. Where major landscape modifications have occurred, such as Point Wells, fill soils are typically present (HWA GeoSciences, Inc., 1998).

The waterfront bluffs found along the City's shoreline (Segments B through E) are typically composed of a cap of very dense gravelly sand with scattered cobbles and boulders in a clay/silt matrix (glacial till), overlaying dense sand and gravel (glacial advance outwash), which overlies hard clay (glacial lacustrine). The thicknesses of these layers can vary substantially. However, the till cap is generally at the top of the bluffs, sometimes overlain by deposits of medium dense sand and gravel (glacial recessional outwash). The hard clays are typically at or near sea level. Streams draining the uplands dissect bluffs and flow into Puget Sound, depositing fine sand and silt in alluvial fans. Littoral drift, which is the accumulation or movement of foreshore sediments along the shore by littoral currents and oblique waves, reworks some of this material and becomes beach deposits (HWA GeoSciences, Inc., 1998).

Seismic Hazard Areas

Seismic hazard areas are defined in Chapter 20.80.220 of the SMC as "lands that, due to a combination of soil and ground water conditions, are subject to severe risk of ground shaking, subsidence or liquefaction of soils during earthquakes. These areas are typically underlain by soft or loose saturated soils (such as alluvium) and have a shallow ground water table."

There are mapped liquefaction susceptibility areas along Segments A, B, C, D and a portion of E. All are mapped as having high liquefaction susceptibility (City of Shoreline, 2002).

Landslide Hazard Areas

The west-facing slopes along Puget Sound within the City have experienced recent and historical landslide activity. The contact zone between the hard clay layer and the

overlying sand layer is the source of many landslides along the coast of Puget Sound, which commonly occur after major storm events. In general, slope stability in the City's shoreline planning area is more stable in the northern portion, though containing some isolated unstable areas, and unstable in the southern portion (Segment E). Baum et al. (2000) conducted an inventory of recent landslides that included the City of Shoreline. Significant storm events during 1996 and 1997 resulted in several major landslide episodes. The most common types of landslides were shallow earth slides and debris flows, some of which blocked culverts and overtopped the BNSF railroad track (locations are shown on Map 7). These landslides range in volume from 300 cubic yards to 40,000 cubic yards. The largest one occurred in Segment E north of Highlands Creek (Baum et al. 2000).

The seawall and stone revetments of the BNSF railroad protect the base of the bluff from wave erosion and have probably increased the stability of the bluff. Baum et al. (2000) suggests that the bluff retreat during the winters of 1995-96 and 1996-97 might have been greater had the seawall and embankment not been present.

In the City, regulated landslide hazard areas are classified in SMC Chapter 20.80.220. Hazard areas are based on percent slope, soil composition, and the presence of emergent water. Three categories are used and defined as:

Moderate Hazard: Areas with slopes between 15 percent and 40 percent and that are underlain by soils that consist largely of sand, gravel or glacial till.

High Hazard: Areas with slopes between 15 percent and 40 percent that are underlain by soils consisting largely of silt and clay.

Very High Hazard: Areas with slopes steeper than 15 percent with zones of emergent water (e.g., springs or ground water seepage), areas of landslide deposits regardless of slope, and all steep slope hazard areas sloping 40 percent or steeper."

No landslide hazard areas are identified in Segment A (Point Wells). The extreme north and south portions of Segments B and C contain landslide hazard areas in the extreme north and south portions of both segments. Landslide hazard areas exist throughout all of Segments D and E (King County iMAP, 1991). See Map 7 in Appendix C for landslide hazard area locations.

Erosion and Sedimentation Hazard Areas

Erosion hazard areas are defined in Chapter 20.80.220 of the SMC as "lands or areas underlain by soils identified by the U.S. Department of Agriculture Natural Resources Conservation Service (formerly the Soil Conservation Service) as having 'severe' or 'very severe' erosion hazards. This includes, but is not limited to, the following group of soils when they occur on slopes of 15 percent or greater: Alderwood-Kitsap (AkF), Alderwood gravelly sandy loam (AgD), Kitsap silt loam (KpD), Everett (EvD) and Indianola (InD)."

No erosion hazards currently exist within the City's shoreline planning area; however, erosion hazard areas are identified east of Segment E primarily in the upper Boeing Creek Basin (see Map 7 in Appendix C) (City of Shoreline, 2002).

Aquifer Recharge Areas

Within the City of Shoreline, including the Puget Sound shoreline planning area, there are no known critical aquifer recharge areas that supply potable water. Almost all the City's potable water comes from surface sources originating in the Cascade Mountains and is either operated by the Shoreline Water District or the City of Seattle. The City's lakes and wetlands may contribute to aquifer recharge (City of Shoreline, 2005a).

Streams

Streams provide valuable wildlife corridors, a source of fluvial sediments to the marine shoreline (moved along the shoreline by currents), and support a range of fish species. The City of Shoreline is located in Water Resource Inventory Area (WRIA) 8, the Cedar-Sammamish Watershed. Information on stream conditions was drawn in particular from the following documents: *City of Shoreline Surface Water Master Plan* (City of Shoreline, 2005b), *Salmonid Habitat Limiting Factors, Water Resource Inventory Area 8 Final Report* (Kerwin, 2001), *Boeing Creek Basin Draft Characterization Report* and *Middle Puget Sound Basin Characterization Report* (TT/KCM, 2004a, 2004d), and the *City of Shoreline Stream Inventory and Assessment* (TT/KCM, 2004b). Streams are depicted on Map 4 and Map 10 in Appendix C. A total of seven streams have been identified to flow into the Puget Sound within the PAA and the City limits. In general, the western portion of the City ultimately drains to Puget Sound through the following streams: 1) Lost Creek, 2) Barnacle Creek, 3) Storm Creek, 4) Blue Heron Creek, 5) Coyote Creek, 6) Boeing Creek, and 7) Highlands Creek.

Segment A has an unnamed tributary of Barnacle Creek that is located east of the BNSF railroad and south of Point Wells. It travels south where it connects to Barnacle Creek in Segment B. Lost Creek is located north of the city limits in the Town of Woodway. It flows southwest both in piped and open water sections towards Puget Sound. It appears to connect to Barnacle Creek before discharging into Puget Sound in Segment B. Barnacle Creek is formed by the confluence of Upper Barnacle Creek and Lower Barnacle Creek and discharges to Puget Sound in Segment B. The stream includes piped and open water sections along the BNSF railroad and flows through a wetland area downstream of Richmond Beach Drive NW (see Photo B-2 in Appendix B). The creek has three outlets to Puget Sound (including one near Lost Creek) via culverts beneath the BNSF railroad. The lower section of Barnacle Creek is tidally influenced upstream for a distance of about 20 feet (Photo B-6 in Appendix B). A stream evaluation letter was submitted to the City as part of a development permit for a residential property located near the intersection of Richmond Beach Drive NW and NW 196th Street. According to the letter, the portion of Barnacle Creek from NW 196th Street south to where it discharges to the Puget Sound may not meet the City's definition of a stream per SMC 20.80 (Critical Areas) (The Watershed Company, 2008). However, the findings of the letter were not verified by WDFW. Furthermore, WDFW has indicated to the City that they will defer to the City's stream inventory (see City of Shoreline Stream Inventory and Assessment) even when presented with a more recent report which concludes that a stream does not qualify as a stream per the City's regulations (Nammi, 2009).

Storm Creek, which begins upstream of NW 195th Street and includes several unnamed tributaries, is located at the very south end of Segment C. South of NW 191st Street, Storm Creek continues southwest for 3,000 feet through the privately owned Eagle Reserve in Innis Arden before entering Puget Sound. The stream is confined within a very steep ravine between the mouth and 17th Place NW. Severe erosion occurs in the lower sections of Storm Creek through the Eagle Reserve (Photo D-3 in Appendix B). Bank hardening and several weirs have been constructed to protect private property, a pump station, and a sewer line crossing Storm Creek (City of Shoreline, 2005b).

Blue Heron Creek and Coyote Creek discharge to Puget Sound (Photo D-1 in Appendix B) and are located within Segment D and E respectively. Blue Heron Creek begins as two tributaries that join near NW 185th Street. Much of the stream flows through the private Blue Heron Reserve. Coyote Creek begins as three or more branches that extend into ravines with relatively steep side slopes. These branches come together on private property near NW 175th Street. Below the confluence of these branches, the creek flows another 1,700 feet before entering Puget Sound. The lower portion of the creek flows through a private tract called the Coyote Reserve and through Innis Arden Reserve. In comparison, Blue Heron Creek drains a larger area than Coyote Creek and experiences larger flows.

Boeing Creek and Highlands Creek discharge to Puget Sound and are located within Segment E. There are also several short unnamed tributaries that occur within the Innis Arden Reserve and flow to Puget Sound (see Map 4). Boeing Creek begins as two large tributaries that are mostly contained within pipes and occur in developed commercial areas. From the confluence of the two tributaries, the main stem descends through forested ravines to Hidden Lake, a small, constructed lake that the City regulates as a storm detention facility. Downstream from Hidden Lake, the stream has steep gradients and incised channels with moderate-to severe erosion of the channel beds and banks. A steel-pile dam is present approximately 2,300 feet from the mouth, which acts as a barrier to upstream fish. Many sections below the dam have experienced slope failure, and the substrate is generally embedded having been filled in with sediment, providing poor spawning habitat for salmonids (King County 1994). Boeing Creek enters Puget Sound through a large box culvert under the BNSF railroad. The lower portion of the stream is tidally influenced at high tides.

Highlands Creek is located within the Highlands development near the southern City boundary. The stream flows west through private property and is mostly contained within a piped system. The approximate length of the watercourse is 1,200 feet, of which 850 feet is piped.

None of the streams are currently listed on the state Department of Ecology's 2004 303(d) list, which lists streams that do not meet water quality standards for one or more parameters (Ecology website, 2008). However, many small streams, such as those found within the City's shoreline planning area, may potentially be at risk for exceeding several water quality parameters. As stated above, many of the streams discharge directly into Puget Sound through culverts. Culverts that are undersized and/or have a steep slope may increase water velocity, which may cause downstream scouring of nearshore areas during periods of significant water runoff (Parker, 2000).

Flood Hazard Areas

Flood hazard areas are defined in the Shoreline *Comprehensive Plan* as "those areas within the floodplain subject to a one percent or greater chance of flooding in any given year" (City of Shoreline, 2005a). These areas are typically identified on the Federal Emergency Management Agency (FEMA) flood insurance rate maps (FIRM) as the 100year floodplain. The 100-year floodplain is regulated by two chapters of the SMC: Chapter 16.12, Flood Damage Prevention, and Chapter 20.80.380-410 of the CAO.

Portions of the shoreline in Segment B, C, D, and E are mapped as a 100-year floodplain on the King County FIRM series, Panels 20, 40, 310, and 330 (FEMA, 1995). Flood hazards for Segment A (Point Wells) are mapped on Snohomish County FIRM series and include panels 1294 and 1292 (FEMA, 1999). The stream corridor of Boeing Creek (Segment E) is also mapped as a 100-year floodplain (FEMA, 1995), but the stream is not large enough itself to be a shoreline of the state and only the mouth of the stream is located within the marine shoreline. The King County Sensitive Area Map Folio (King County iMAP, 1991) shows only the Boeing Creek stream corridor within Segment E as being a potential flood hazard area (see Map 4 in Appendix C). Typically, the areas south of stream mouths and the marine shoreline below the OHWM are indicated as flood hazard areas. Following the recommendations made in the Snohomish County FIRM series, Base Flood Elevation for shoreline in all Segments (A, B, C, D, and E) will be 10 feet National Geodetic Vertical Datum (NGVD).

Several existing houses are within the shoreline of Puget Sound along 27th Avenue NE in Segment B (see Map 4 in Appendix C). Most of the homes are protected by bulkheads, with the exception of those on the south end, which, based on a conversation in March 2006 between Juniper Nammi (City of Shoreline Planner) and Chuck Steele (Ecology Floodplain Specialist), were reported to have had flooding in the past (Chuck Steele, personal communication, 2008). The existing lots within the flood hazard areas along 27th Avenue NE are fully developed, therefore flood regulations in the SMC would be applied primarily to remodel and rebuilding on these sites.

Industrial facilities and a large dock associated with Point Wells exist within the shoreline of Puget Sound in Segment A. Portions of these facilities are within the mapped flood hazard area (see Map 4 in Appendix C). Flood regulations in the SMC would be applied to replacement or rebuilding of industrial facilities and to shoreline restoration projects. If the property were to be rezoned in the future, flood regulations in the SMC would be applied to platting, subdivision, and new construction on the site.

Shoreline Modifications

Three white papers prepared in recent years summarize the current knowledge and technology pertaining to marine and estuarine shoreline modifications in the Puget Sound. These papers are: *Overwater Structures: Marine Issues* (Nightingale and Simenstad, 2001); *Marine and Estuarine Shoreline Modification Issues* (Williams and Thom, in King County Department of Natural Resources and Parks [KCDNRP], 2001); and *Beaches and Bluffs of Puget Sound* (Johannessen and MacLennan, 2007). These documents, along with *Reconnaissance Assessment of the State of the Nearshore Report: Including Vashon and Maury Islands (WRIAs 8 and 9)* (KCDNR, 2001) and the Washington Department of Natural Resources ShoreZone Inventory (2001) were summarized and incorporated into this section. A field visit in September 2003 verified modifications along portions of the shoreline providing public access. Table A-2, Appendix A contains additional information regarding shoreline modifications within the planning segments.

Shoreline modifications refer to structural alterations of the shoreline's natural bank, including levees, dikes, floodwalls, riprap, bulkheads, docks, piers or other in-water structures. Such modifications are typically used to stabilize the shoreline and prevent erosion. Shoreline armoring (i.e. riprap, bulkheads, and other shore parallel structures) is the most common type of shoreline modification. Shoreline armoring impedes sediment supply to nearshore habitats, and this sediment starvation can lead to changes in nearshore substrates from sand or mud to coarse sand, gravel, and finally hardpan. This may, in turn, decrease eelgrass and increase kelp abundance, as well as forage fish spawning habitats. Armoring also alters natural process dynamics by blocking or delaying the erosion of upland areas and bluffs that replenish the spawning substrate. Beach narrowing and lowering and decreased driftwood abundance also result from shoreline armoring (Johannessen and MacLennan, 2007).

Construction of shoreline armoring may cover or destroy eelgrass meadows, and overwater structures may deprive eelgrass of light. Dredging can excavate eelgrass or cause excessive turbidity and permanent filling of eelgrass meadows (KCDNR, 2001).

Bulkheads and piers may also affect fish life by diverting juvenile salmonids away from shallow shorelines into deeper water, thereby increasing their potential for predation (Nightingale and Simenstad, 2001). Piers also alter wave energy and current patterns and obstruct littoral drift and longshore sediment transport (Williams and Thom, 2001). Sewer outfalls introduce nutrients and pollutants to the nearshore area altering current cycles and food web interactions.

Shoreline Armoring

Approximately 97 percent of the City's shoreline adjacent to Puget Sound is modified with riprap and bulkheads (WDNR, 2001). The majority of this armoring is associated with the BNSF railroad bed (Map 12 in Appendix C). The WDNR ShoreZone Inventory (2001) indicates that approximately 23 percent of Segment A (approximately 796 feet; the southern portion of Point Wells) is unmodified beach. The remaining portion of Point Wells (approximately 2,694 feet) is highly modified with riprap and sheet pile, as well as a large barge dock. Segment B is entirely modified with riprap. A portion of Segment B (approximately 1,845 feet) is modified with concrete and wooden bulkheads along a residential area adjacent to Puget Sound (Photo B-2 in Appendix B). Approximately 73 percent of Segment C is unmodified, at Richmond Beach Saltwater Park where beach extends waterward of the railroad right-of-way. The north and south ends of Segment C are modified with riprap. All of Segments D and E (along the entire length of the City's shoreline south of Richmond Beach Saltwater Park) are modified with riprap CODNR,

Docks, Piers, and Over-Water Structures

There are no docks, piers, or over-water structures along Puget Sound within the City limits (Segments B through E) (Map 12 in Appendix C). However, within the PAA, Point Wells (Segment A) contains a large industrial dock originally used for loading oil when the site was operated as a bulk fuel terminal (Photo A-1 in Appendix B). The dock is currently used for both import and export of materials to and from the facility.

NEARSHORE BIOLOGICAL CHARACTERIZATION

Wetlands

Wetlands near the Puget Sound shoreline typically include tidal marshes and tidally influenced estuaries. Tidal marshes may contain both salt and freshwater habitats that experience tidal inundation (KCDNR, 2001). Several wetlands have been mapped by various sources in the City's shoreline planning area. According to the 1987 National Wetlands Inventory (NWI), the entire area of the City's shoreline planning area in the City limits and UGA boundary is designated as an "estuarine intertidal aquatic bed/unconsolidated shore" (E2AB/USN) wetland (US Department of the Interior [USDI], 1987a and 1987b). The King County Sensitive Areas Map Folio (King County, 1990) also identifies intertidal wetlands encompassing all segments within the City's shoreline planning area. Although mapped as wetland at a landscape level, many of these areas in the City are unvegetated beach or mudflat and therefore would not meet the state definition of wetland as per City code requirements.

The Stream and Wetland Inventory and Assessment conducted by Tetra Tech/KCM in 2004 for the City documented one non-tidal wetland within Segment B within the City's shoreline planning area (Map 4 in Appendix C). This palustrine forested wetland is less than one acre in size and is associated with Barnacle Creek. Priority Habitats and Species (PHS) data indicate that a small (less than one acre) scrub/shrub wetland is located at the northernmost extent of Segment E and is associated with Coyote Creek within the shoreline planning area (WDFW, 2008).

Critical Fish and Wildlife Areas

Critical fish and wildlife habitat areas are those areas identified as being of critical importance in the maintenance and preservation of fish, wildlife and natural vegetation. Critical fish and wildlife habitat areas are defined in SMC Chapter 20.80.260 as follows: Fish and wildlife habitat conservation areas include nesting and breeding grounds for State and Federal threatened, endangered or priority species as identified by the Washington State Department of Fish and Wildlife, including corridors which connect priority habitat, and those areas which provide habitat for species of local significance which have been or may be identified in the City of Shoreline Comprehensive Plan. Critical fish and wildlife habitats in the City's shoreline planning area are characterized in the following sections.

Marine Riparian Zones

Marine riparian vegetation is defined as vegetation overhanging the intertidal zone (KCDNR, 2001). Marine riparian zones function by protecting water quality; providing wildlife habitat; regulating microclimate; providing shade, nutrient and prey; stabilizing banks; and providing large woody debris (Anchor Environmental and People for Puget Sound, 2002).

The existing railroad bed, land clearing, and shoreline armoring have impacted the marine riparian zones of all the City's shoreline segments. Marine riparian zones are not located within any of the shoreline planning segments (WDNR, 2001) (Table A-3 in Appendix A). The only marine riparian vegetation that occurs west of the BNSF railroad is located at Richmond Beach Saltwater Park (see Photo C-2 in Appendix B).

Banks and Bluffs

Banks and bluffs are part of the marine riparian zone and can be a source of sediment to adjacent beaches, providing habitat to bluff-dwelling animals, rooting area for riparian vegetation, and a source of groundwater seepage to marine waters (KCDNR, 2001). Shoreline development and armoring, vegetation clearing, and changes in hydrology, among others, can adversely impact the natural functions of bluffs.

The ShoreZone Inventory (WDNR, 2001) maps moderate height, inclined cliffs composed of fines/mud and sand in Segments B and C (Tables A-4 in Appendix A). These are described as erosional features, providing sediments to the beach.

Beaches and Backshore

Beaches are composed of generally loose, unconsolidated sediment that extends landward from the low water line (Johannessen and MacLennan, 2007). Backshore areas are immediately landward of beaches and are zones inundated by storm-driven tides. Beaches and backshores provide habitat for numerous organisms, including cutthroat trout, piscivorous birds (grebes, herons, and mergansers), and shorebirds (Dethier, 1990). A typical profile of an undisturbed shoreline in Central Puget Sound would include an upper backshore or storm berm area that collects logs, algae, and other debris during storms (Photo B-3 in Appendix B). The intertidal portion of the beach is typically relatively steep and composed of a mixture of cobbles and gravel in a sand matrix (KCDNR, 2001).

Sediment abundance throughout the shoreline segments is characterized predominantly as "moderate" (some mobile sediment, but not likely to rapidly move) (Table A-1 in Appendix A). Erosional areas are described in Segment E. Beach sediments in shoreline planning area are characterized in Table A-1 and A-4 in Appendix A.

The WDNR ShoreZone Inventory utilized the British Columbia ShoreZone Mapping System, which classifies the shoreline into homogeneous stretches (or units) based on key

physical controlling factors (WDNR, 2001). Table 5 summarizes the general beach or shoreline substrate composition, based on the British Columbia classification, for each shoreline planning segment (WDNR, 2001).

<u>Shoreline</u> <u>Segment</u>	British Columbia Classification*		
<u>A</u>	 <u>Sand beach</u> <u>Sand and gravel flat or fan</u> 		
<u>B</u>	 <u>Sand beach</u> <u>Sand flat</u> <u>Sand and gravel flat or fan</u> 		
<u>C</u>	 <u>Sand beach</u> <u>Sand and gravel beach, narrow</u> 		
<u>D</u>	• <u>Sand beach</u>		
E	 Sand and gravel beach, narrow Sand flat 		

Table 5. ShoreZone Classification by Segment (WDNR, 2001)

*British Columbia Physical Mapping System (Howes et al., 1994 in WDNR, 2001)

Sobocinski (2003) conducted a comparative survey of beach fauna found on natural and altered beaches (i.e. where shoreline armoring was present) located above the mean high tide level. One of the four survey sites was located at Richmond Beach Saltwater Park. The study looked at vegetative wrack and invertebrate assemblages, among several other parameters. Vegetative wrack is comprised of natural organic marine material cast on the shore deposited during an ebbing or receding tide. Not surprisingly, the percent worack of as greater at natural beach stretches than at altered beaches at all sites. Wrack serves as important habitat for many beach-dwelling fauna. Fauna found along altered beaches were dominated by marine organisms, such as crustaceans, and **instantial less** and collembolans (organisms that are terrestrial-dependent) than the neighboring natural beach. The study suggests that a shift to more marine organisms is the result of lowering the land/sea interface and replacing sandy sediments with hard substrate. In addition, the removal of shoreline vegetation, which often accompanies shoreline armoring, also changes the physical structure of this zone by creating hotter, drier habitats, and removing vegetation-dependent organisms, such as insects and invertebrates which inhabit the intertidal zone (Sobocinski, 2003).

<u>Flats</u>

Flats generally include gently sloping sandy or muddy intertidal or shallow subtidal areas (KCDNR, 2001), and are used by juvenile salmonids, shorebirds, and shellfish, among other species. Flats are generally located at the mouths of streams where sediment transported downstream is deposited, and in areas of low wave and current energy where longshore waves and currents deposit sediment (Photo B-4 in Appendix B) (KCDNR, 2001). Sand flats are mapped in Segment B and much of Segment E (in the vicinity of

the Barnacle and Boeing Creek outlets). Sand and gravel flats are mapped in Segments A and B. No mud flats are present in the City's shoreline.

Shoreline activities that may impact tidal flats (KCDNR, 2001) include: Unnatural erosion or deposition of sediment; Harvesting of shellfish and other marine life; Fecal and chemical contamination; Physical disturbances from shoreline armoring, marina construction, and upland development practices; Shading from overwater structures; and Loss of emergent and riparian vegetation.

Eelgrass Meadows

Eelgrass is a perennial, marine aquatic vascular plant that is rooted in the substrate and can spread horizontally to produce new plants. Eelgrass requires fine-grained substrates and is particularly associated with low to moderate high-energy intertidal and shallow subtidal mud/sand substrates. The plants need sufficient light during summer to support growth and for nutrient storage over winter. Typically, eelgrass beds form between about two meters above mean lower low water (MLLW) to almost nine meters below MLLW depending on water quality. However, other factors such as extreme low or high nutrient levels, substrate composition, presence of other species, and toxic pollutants can affect eelgrass abundance and distribution.

The importance of eelgrass has been described in various sources, including the *Reconnaissance Assessment of the State of the Nearshore Environment* (KCDNR, 2001) and more recently in *Kelp and Eelgrass in Puget Sound* (Mumford, 2007). Eelgrass plants are important primary producers, fixing carbon that enters nearshore food webs and generating nutrients and substrate that form the base of the food chain. Eelgrass meadows provide refuge and foraging habitat for many salmonid species, other fish, invertebrates, birds and aquatic organisms.

Eelgrass beds have been documented in Puget Sound in the City's shoreline planning area including Point Wells (Woodruff et al., 2001 and WDNR, 2001). The occurrence of eelgrass is most dense in Segments D and E, north and south of the mouth of Boeing Creek (Table A-5, Appendix A). Shoreline activities that may impact eelgrass (KCDNR, 2001) include:

Clam harvesting and other direct alteration by humans;

Propeller scour and wash;

Physical disturbances from shoreline armoring;

Shading from overwater structures; and

Physical disturbances from dredging and filling.

Kelp Forests

There are 23 species of kelp in Puget Sound, with only two species of floating kelp and 21 that are considered prostrate, or not-floating. The prostrate species are limited to shallower portions of the nearshore zone and comprise the majority of marine vegetation biomass in some areas (Mumford, 2007). Kelps are held to the substrate by holdfasts,

which unlike roots do not penetrate the bottom or carry nutrients. Unlike eelgrass, kelps are not rooted and must obtain nutrients directly from the water and require a hard substrate. They favor areas with high ambient light and low temperatures, which result in nutrient-rich waters, and moderate wave energy to circulate the nutrients.

Kelp provides habitat for many fish species, including rockfish and salmonids, potential spawning substrate for herring, and buffers shorelines from waves and currents, among other functions (KCDNR, 2001). A change in kelp distribution may indicate the coarsening of shallow subtidal sediments (such as that caused by erosion related to a seawall) or an increase in nutrient loading (such as from sewage effluent).

Kelp is found in all shoreline planning segments with the exception of Segment D. Kelp beds are sporadic throughout and limited in their lateral extent (Table A-5 in Appendix A) (Woodruff et al., 2001; KCDNR, 2001).

Shoreline activities that may impact kelp densities (KCDNR, 2001) include: Physical disturbances from shoreline armoring, marina construction, and harvesting; Shading from overwater structures; Beach nourishment; and Nutrient loading.

Priority Habitats and Species

The Washington Department of Fish and Wildlife (WDFW) maintain priority habitat and species information for Washington State, including the status of species as threatened or endangered. The City of Shoreline occurs within the WDFW Region 4. Priority habitats within Region 4 include consolidated marine/estuarine shorelines, cliffs, caves, snags, riparian areas, old-growth/mature forests, and urban open spaces. These habitats may contain up to 13 species of invertebrates, 62 species of vertebrates, and 20 species of mammals (City of Shoreline, 1998a). The following sections discuss some of the priority species and species of local importance that occur within the City's shoreline planning area.

Shellfish

Geoduck clams are documented in subtidal areas adjacent to shoreline Segments A, B, C, and E and Dungeness crabs are also documented in subtidal areas adjacent to Segment E (WDFW, 2008). The King County 1996/1997 Beach Assessment (KCDNR Website, 2003) performed at Point Wells Beach in Segment A and Richmond Beach Park in Segment C documented shellfish use of these beach areas. Assessments of the Point Wells shoreline (Segment A) resulted in the identification of 31 species of invertebrates, including littleneck, butter, horse, and sand clams; purple shore crabs, pygmy rock crabs, red rock crabs, and graceful crabs; California green shrimp, and hairy hermit crabs (KCDNR, 2003). Littleneck and butter clams dominated the clam populations by number and biomass. Assessments of the Richmond Beach Park shoreline (Segment C) resulted in the identification of 37 species of invertebrates including cockle, softshell, horse, and bay mussels; black-clawed crab, graceful decorator crab, and red rock crab. Horse clams were the dominant species of clams at Richmond Beach Park. The Washington State Department of Health has closed Richmond Beach in Segment C to recreational shellfish harvesting (Washington State Department of Health Website, 2008) due to the presence of biotoxins. None of the City's shoreline is currently used for commercial shellfish harvesting.

Salmonids

The Salmonid Habitat Limiting Factors: Water Resources Inventory Area (WRIA) 8 Final Report (Kerwin, 2001) identifies the known presence of salmon in local streams. Boeing Creek (Segment E) has documented salmonid use including Chinook (listed as threatened under the ESA), coho (Federal species of concern), chum salmon, searun cutthroat trout, and resident cutthroat trout. It is likely that many of the fish are products of the "Fish in the Classroom" program (Daley, 2004). Coho are listed by the WRIA 8 as occurring in Boeing Creek. Highlands Creek contains no salmonids. All other streams are likely to contain resident cutthroat trout in some portions of the stream (TT/KCM 2004b, and Daley, 2003).

The City of Shoreline Stream Inventory (TT/KCM, 2004b) notes that the flume under the BNSF railroad in the lowest reach of Boeing Creek likely prevents fish passage seasonally during low flows. The primary detriment to habitat quality in this reach is the significant amount of sediment from landslides in the ravine. The sediment fills in pools within the stream, clogging gravels with sand and/or silt thus reducing spawning suitability.

Nearshore habitat is an important environment for juvenile salmonids, where the shallow water depth obstructs the presence of larger, predator species (Kerwin, 2001). Juvenile salmon rely on the nearshore and estuarine marine habitats for food, migration corridors, protection from predators, and a transitional environment that supports the physiological changes that occur as they transition from a freshwater to a marine environment (Fresh, 2006). Spawn and migration timing, and the use of different marine habitats vary widely between salmonid species as well as stocks or subpopulations of the same species.

All shoreline segments within the City's shoreline planning area are known or expected to contain juvenile salmonids including bull trout (federally listed), Chinook, chum, coho, cutthroat, pink, sockeye, based on the knowledge of species life histories (KCDNR, 2001).

Forage Fish

Forage fish are key components of the marine food web and have important commercial and recreational value. They are generally characterized as small, schooling fish that prey upon zooplankton and are in turn preyed upon by larger predatory fish, birds and marine mammals (Penttila, 2007). The five forage fish species most likely to occur in the City's shoreline planning area include surf smelt, sand lance, Pacific herring, longfin smelt, and eulachon (Kerwin, 2001 and King County DNR, 2001). Different species utilize different parts of the intertidal and subtidal zones, with sand lance and surf smelt spawning primarily in the substrate of the upper intertidal zone, and Pacific herring spawning primarily on intertidal or subtidal vegetation (Lemberg et al., 1997; Penttila, 2007). Water quality and other conditions that affect food or predator abundance are important for all species of forage fish.

Four primary sources were referenced in compiling information on potential forage fish spawning areas within the City's shoreline planning area: Marine Resource Species (MRS) data maintained by WDFW (2008), the *Water Resources Inventory Area* (WRIA) 8 Final Report (Kerwin, 2001), the City of Shoreline, Fish Utilization in the City of Shoreline Streams (Daley, 2003), and the Reconnaissance Assessment of the State of the Nearshore Environment (KCDNR, 2001). Information on the five potential forage fish species within the City's planning area is summarized in Table 6.

<u>Species</u>	Documented <u>Presence</u>	<u>Spawning</u> <u>Timing</u>	<u>Preferred</u> <u>Spawning</u> <u>Substrate</u>	<u>Spawning</u> Location
<u>Pacific</u> <u>herring</u>	<u>None (nearest</u> <u>is</u> <u>Quartermaste</u> <u>r Harbor on</u> <u>Vashon</u> <u>Island)</u>	Quartermaster <u>Harbor stock</u> <u>spawn</u> February/March	<u>Eelgrass</u>	Upper high tide limits to depths of 40 feet (typically between 0 and <u>– 10 tidal</u> elevation)
Sand lance	Segments A and B	<u>November</u> <u>1 to</u> <u>February</u> <u>15</u>	<u>Fine sand,</u> <u>mixed</u> <u>sand and</u> <u>gravel, or</u> <u>gravel up</u> <u>to 3cm</u>	<u>From + 5 tidal</u> <u>elevation to</u> <u>higher high</u> <u>water line (from</u> <u>bays and inlets</u> <u>to current- swept</u>
<u>Eulachon</u>	None	Late winter/ earl y spring	<u>Unknown</u>	<u>Freshwater</u> <u>streams</u>
<u>Longfin</u> <u>smelt</u>	None	Winter	<u>Sand</u> <u>with</u> aquatic	Freshwater streams
<u>Surf smelt</u>	Segments A and C	South Puget Sound stocks are fall-winter spawners (September to March)	Mix of coarse sand and fine gravel	<u>Upper intertidal</u>

Table 6. Forage Fish Species and Presence by Shoreline Segment

Sources: (Kerwin, 2001; O'Toole, 1995; KCDNR, 2001; Lemberg et al., 1997)

Information on documented spawning activity was available from the WDFW (2008). No Pacific herring, sand lance, surf smelt, spawning areas are currently documented in any of the shoreline inventory segments (WDFW, 2008). However, it is fair to assume that they all utilize the nearshore areas for feeding and migration. Both King County DNR (2001) and Kerwin (2001) document surf smelt spawning areas in Segment C, along Richmond Beach Park (Photo C-2 in Appendix B). A sand lance spawning area is mapped along the shoreline within the City of Shoreline, in the southern portion of Segment A (Photo A-1 in Appendix B) (Kerwin, 2001) and just north of Barnacle Creek in Segment B (KCDNR, 2001). Both sources cite the documented presence of surf smelt in planning Segment A (Point Wells). In addition, the mouth of Boeing Creek Edganderen identified as an important area for the feeding, migration, and spawning and rearing of all the forage fish mentioned above (Daley, 2004).

Nearshore modifications impact potential forage fish habitat in the following ways: Development impacts the shoreline, particularly marinas and boat ramps, which introduce the potential for repeated disturbance and potentially alter nearshore hydrology; Sewer outfalls introduce pollutants and nutrients to the nearshore; Overwater structures shade intertidal vegetation and may alter nearshore hydrology; and Riprap revetments and vertical bulkheads alter nearshore hydrology and may increase wave energy on intertidal areas.

The sand lance's habit of spawning in the upper intertidal zone of protected sand-gravel beaches throughout the increasingly populated Puget Sound basin makes it vulnerable to the cumulative effects of various types of shoreline development. The WAC Hydraulic Code Rules for the control and permitting of in-water construction activities in Washington State include consideration of sand lance spawning habitat protection.

Shorebirds and Upland Birds

A variety of waterfowl and shorebirds utilize the nearshore environment for wintering and breeding. Waterfowl and seaduck species include Canada goose, mallard, wigeon, shoveler, scaup, goldeneye, long-tailed duck, northern pintail, bufflehead, and mergansers. Diving birds such as loons, grebes, scoter, guilemot and cormorants use intertidal habitats for foraging. Approximately seventy-five species of birds are associated with marine nearshore environments in Washington (O'Neil et al., 2001).

Adjacent to the open waters of Puget Sound, the upland terrestrial environment provides habitat for birds, amphibians, reptiles, and insects. The WDFW PHS maps indicate the presence of purple martin nest structures on pilings at the mouth of Boeing Creek from 2000 to 2004. It is unknown whether martin are currently using the structures. Bald eagles use the shoreline and large trees for perching. No nests are currently documented within the City. Marbled murrelet (federal and state listed as threatened species) has also been documented in the shoreline vicinity, but no seabird colonies or waterfowl concentrations are documented within the City. Adolfson Associates (1999) also documented the use of interior uplands by two priority species including the pileated woodpecker and the band-tailed pigeon.

ASSESSMENT OF SHORELINE FUNCTIONS AND OPPORTUNITY AREAS

This section summarizes key findings concerning how functions of the Puget Sound shoreline have been impaired within the City of Shoreline, both by land use activities and alterations occurring at an ecosystem-wide scale, and by activities within the City, its PAA, and its shoreline planning area. This section also identifies opportunities for the protection or enhancement of areas where shoreline ecological functions are intact, and opportunities for restoration of impaired shoreline functions, at both a programmatic (i.e., City-wide) and site specific level. Opportunities for enhanced or expanded public access to the shoreline are also discussed.

Shoreline Ecological Functions

Shoreline ecological functions of the City of Shoreline planning segments are summarized in Table 7. The table is organized around Ecology's list of processes and functions for shorelines using the landscape analysis methodology. It also provides a qualitative assessment of the function performance provided by each reach as Low, Medium or High. Due to the similarity of shoreline functions provided by Segments D and E, these segments are combined in this analysis.

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Euro ettor	Shoreline Planning Segments					
<u>r unction</u>	Segment A	Segment B	Segment C	Segments D & E		
HYDROLOGY						
<u>Transport & stabilize</u> sediment	Low – The burial of the upper foreshore (from industrial development) locked up coarse sand and gravel in the littoral system, preventing longshore transport of sediment. One area of exception on Point Wells is the natural beach within the southern half of Segment A. This natural sand flat and beach area would provide Low to Moderate sediment transport functions.	Low – The burial of the upper foreshore (from railroad construction) locked up coarse sand and gravel in the littoral system, preventing longshore transport of sediment. In addition, small stream mouth estuaries were buried by the railroad. Box culverts and pipes alter sediment dynamics at the mouths. The presence of residential bulkheads, some of which are below the mean high tide level, also interrupts longshore transport of	Low to Moderate – The area of undisturbed beach west of railroad at Richmond Beach Saltwater Park provides some sediment transport function. It is limited however by its short length (alongshore) and narrow width.	Low (similar to Segment B) Boeing Creek provides a localized fluvial sediment source, but this is limited to a small section of shoreline.		
Attenuating wave energy	Low – With the exception of the southern portion, the shoreline is armored with riprap that likely increases wave energy, thus affecting	<u>second</u> reverse to the rock reverse of railroad and residential	<u>Moderate – The</u> <u>widest area of</u> <u>undisturbed beach</u> <u>west of railroad serves</u>	Low (similar to Bagment		

to attenuate

Function	Shoreline Planning Segments				
<u>Function</u>	<u>Segment A</u>	Segment B	Segment C	Segments D & E	
Removing	<u>beach sediment composition.</u>	bulkheads may result in increased wave energy along the shoreline, possibly affecting beach sediment composition. Low to Moderate - Barragele Graph	wave energy more than any other portion of the shoreline.	Low to Moderate –	
<u>excessive</u> <u>nutrients</u> <u>and toxic</u> <u>compounds</u>	shoreline potential for the filtering and cycling of pollutants. Sources of pollutants have increased as a result of urban and land uses, and increased impervious surface within the drainage basins.	Barnacle Creek and associated forested wetland provide some filtering of pollutants. However, the wetland is narrow and east of the railroad grade.	(<u>similar to Segment</u> <u>A</u>)	similar to Segment <u>A, the loss of</u> wetland has decreased the shorelines ability to perform water quality improvement functions. However, the intact portions of the Boeing Creek riparian corridor do provide filtering of pollutants	
Recruitment of LWD and other organic material	Low – The industrial development of Point Wells removed sources of LWD and areas where driftwood could accumulate. The small area of undisturbed beach at the southern end of the Segment A provides a Low to Moderate function for recruitment of organic material.	Low (similar to Segment A) The presence of the railroad has resulted in beach narrowing and lowering, and thus decreased driftwood	Low to Moderate – The undisturbed beach at Richmond Beach Saltwater Park allows for some recruitment of organic material, but LWD is limited due to the railroad. In addition, the beach gradient is too steep to	<u>generated upstream.</u> (similar to Begment	

Function	Shoreline Planning Segments				
<u>Function</u>	<u>Segment A</u>	<u>Segment B</u>	Segment C	<u>Segments D & E</u>	
		shore. Railroad maintenance includes physical removal of LWD from upstream sources and stream culverts under the railroad are too small to allow passage of woody debris.	have meaningful interaction between LWD and hydrology.		
VEGETATION					
<u>Temperature</u> regulation	Low – Overhanging vegetation in the nearshore environment is absent from the shoreline due to industrial development.	Low (Similar to Segment A) Overhanging vegetation is separated from the nearshore due to existing development on the beach and to the railroad.	Low (Similar to Segment B) Some vegetation is present at Richmond Beach Park but there are few trees and little to no overhang of vegetation due to the railroad.	Low – The railroad separates steep slopes and historic bluffs from nearshore environment.	
<u>Attenuating</u> wave energy	Low – Lack of marine riparian vegetation and large woody debris in the nearshore results in no attenuation of wave energy.	Low (similar to Segment A)	<u>Low – Some</u> <u>vegetation is present at</u> <u>Richmond Beach</u> <u>Saltwater Park, but the</u> <u>beach gradient is too</u> <u>steep to allow this</u> <u>function to be</u>	Low (similar to Segment A)	
Sediment removal and	<u>Low – Except for the southern</u> portion of Segment A, no large woody debris	Low (similar to Segment	Motherated Scattered and narrow vegetation	Low (similar to Segment	

Function	Shoreline Planning Segments					
<u>r unction</u>	Segment A	Segment B	<u>Segment C</u>	<u>Segments D & E</u>		
<u>bank</u> stabilization	or vegetation is present to stabilize or reduce erosion.	<u>A)</u>	provides some bank stabilization. Bank stabilization work has been conducted by the <u>City in the southern</u> portion of the	<u>A)</u>		
		I	segment.			

Euro etter	Shoreline Planning Segments				
Function	Segment A	Segment B	Segment C	Segments D & E	
Recruitment of LWD and other organic material	Low – Industrial development has removed all sources of organic material.	Low – Maintenance of the railroad results in complete interruption of LWD delivery and input from coastal bluffs. The absence of a back beach also significantly reduces accumulation of large wood on the beach.	Moderate – Driftwood is regularly burned by Park users. A small amount of vegetation west of the railroad is a source of organic material and a small amount of back beach is also present.	Low (similar to Segment B)	
HABITAT					
Physical space and conditions for reproduction	Low to Moderate – Industrial development at Point Wells resulted in loss of historic sandspit and lagoon. Existing large pier and dock also reduces intertidal habitat. However, eelgrass is mapped off-shore which provides spawning habitat for forage fish. Shellfish beds are also documented in the southern portion of the segment.	Low to Moderate – <u>Marine nearshore</u> <u>habitat for forage</u> <u>fish remains intact</u> <u>due to lack of</u> <u>overwater</u> <u>structures (piers</u> <u>and docks), but the</u> <u>railroad</u> <u>construction</u> <u>resulted in the loss</u> <u>of intertidal habitat</u> (for beach <u>spawning forage</u> <u>fish), longshore</u> <u>lagoon and small</u> <u>stream mouth</u> <u>estuaries.</u>	Low to Moderate – <u>Marine nearshore</u> <u>habitat for forage fish</u> <u>remains intact due to</u> <u>lack of overwater</u> <u>structures (piers and</u> <u>docks), but the railroad</u> <u>construction resulted</u> <u>in the loss of intertidal</u> <u>habitat (for beach</u> <u>spawning forage fish),</u> <u>longshore lagoon and</u> <u>small stream mouth</u> <u>estuaries. Similar to</u> <u>Segment A, eelgrass</u> <u>and shellfish beds are</u> <u>present. However, a</u> <u>sewer outfall is present</u> <u>that likely introduces</u>	Low to Moderate – <u>The sediment</u> <u>supplied at the</u> <u>mouth of Boeing</u> <u>Creek provides</u> <u>feeding, spawning</u> <u>and rearing habitat</u> <u>for several species of</u> <u>forage fish.</u>	

E	Shoreline Planning Segments					
<u>r unction</u>	Segment A	Segment B	Segment C	<u>Segments D & E</u>		
Resting and Foraging	Low to Moderate – Large pier shades nearshore habitat and limits the growth of vegetation. Industrial uses replace beach habitats. However, area of undisturbed beach provides habitat for shorebirds and has documented forage fish use.	Low – Residential land uses and bulkheads limit the use of nearshore habitat for resting and foraging.	nutrients and pollutants to the nearshore area potentially altering current cycles and foodWebinteractions current cycles and foodWebinteractions overwater structures (marinas, piers, etc.) allows the growth of nearshore vegetation that pnoviateforejativenile salmonids. The absence of a back beach habitat and marine riparian vegetation results in no habitat for piscivorous birds, shorebirds and numerous other organisms.	Moderate - Similar to Segment C with the addition of dense eelgrass present to the north and south of Boeing Creek.		
<u>Migration</u>	Low – The large pier at Point Wells may divert juvenile salmonids away from nearshore, resulting in increased predation.	Low – Bulkheads along the shoreline may divert juvenile salmonids away from nearshore, resulting in increased	<u>Moderate to High –</u> <u>No impediments to</u> <u>salmon migration are</u> <u>present.</u>	<u>Moderate to High</u> (similar to <u>Sðgment</u>		

predation.

Function	Shoreline Planning Segments					
Function	Segment A	<u>Segment B</u>	<u>Segment C</u>	Segments D & E		
Food production and delivery	Low to Moderate – The disconnection of marine riparian vegetation from the nearshore has eliminated any biotic input or food for forage fish and salmon. Eelgrass beds are present off- shore.	Low – Residential land uses and bulkheads may disrupt biotic inputs from marine riparian vegetation. Eelgrass beds are present.	Low to Moderate – The small amount of vegetation at Richmond Beach Saltwater park likely supplies some biotic input, although small because only limited vegetation is present. Eelgrass beds are	Low to Moderate – Similar to Segment A with tfreedgliaissrbeds that provide important food sources for forage fish and migrating salmonids.		
		present.	vegetation is present. Eelgrass beds are present off shore.	salmonids.		

Programmatic Restoration Opportunities

Table 8 provides a summary of shoreline ecological functions for the Coastal/Nearshore Environment. Causes of impairment and the relative scale at which impairments are occurring (e.g., watershed, shoreline segment scale, or multiple scales) are identified. General or programmatic restoration opportunities to address impairments are described. Individual residential bulkheads and railroad riprap constitute existing and necessary protection from wave energy and therefore are not included in any Programmatic Restoration Opportunities.

<u>Condition and Causes</u> of Impairment	<u>Scale of</u> <u>Alterations</u> <u>and</u> <u>Impairment</u>	<u>Shoreline</u> <u>Ecological</u> <u>Functions</u> <u>Affected</u>	<u>Programmati</u> <u>c Restoration</u> <u>Opportunities</u>
Bulkheads on shoreline deflect wave action and disrupt natural coastal processes. Bulkheads disrupt natural delivery of sediment to the coastal areas, as well as increase beach scouring and wave deflection.	Watershed and Reach scale	Hydrologic Sediment transport and deposition	Potential redevelopment of Point Wells is an opportunity to replace hard armoring with soft-shore.
Alteration to and development on feeder bluffs reduce the potential of these areas to provide sediment delivery to coastal zones, disrupting natural coastal beach accretion.	<u>Watershed</u> <u>scale</u>	<u>Sediment</u> <u>delivery</u>	No active feeder bluffs in City due to BNSF railroad. Removal of bulkheads in Point Wells may reestablish some sediment delivery processes. Culverts conveying surface water flow from streams continue to be an important source of sediment delivery. Replace stream culverts with larger box culverts or other fish-friendly

Table 8. Summary of Shoreline Functions and Programmatic Restoration Opportunities

<u>Condition and Causes</u> <u>of Impairment</u>	<u>Scale of</u> <u>Alterations</u> <u>and</u> <u>Impairment</u>	<u>Shoreline</u> <u>Ecological</u> <u>Functions</u> <u>Affected</u>	<u>Programmati</u> <u>c Restoration</u> <u>Opportunities</u>
Wetlands adjacent to the Puget Sound coast are altered due to development and land use and can no longer provide essential storage, recharge, or water quality functions.	Watershed and Reach scale	Hydrologic Hyporheic Water quality	Target localcoastal wetlandrestoration andmitigation sothey providestorage,detention, andwater qualityRusstifenandreconnectwetlandsadjacent to PugetSound coast suchas BarnacleCreek wetlands.Protect intactwetlands alongthe Puget Soundcoast such asthose associatedwith Coyote
Riparian habitat along the coast has been impaired through land development and marine riparian vegetation is generally absent due to presence of the BNSF Railroad. Input of large wood from the bluffs is largely eliminated by BNSF railroad maintenance practices. The absence of a back beach significantly reduces accumulation of large wood on	Watershed and Reach scale	<u>Riparian</u> <u>habitat</u> <u>structure</u>	<u>Freek</u> and <u>restore tributaries</u> <u>to the Puget</u> <u>Sound which</u> <u>provide riparian</u> <u>habitat and deliver</u> <u>woody debris and</u> <u>sediment, such as</u> <u>Boeing Creek.</u>

the beach.

City of Shoreline ·	- Shoreline	Inventory	and
Characterization			

<u>Condition and Causes</u> <u>of Impairment</u>	<u>Scale of</u> <u>Alterations</u> <u>and</u> <u>Impairment</u>	<u>Shoreline</u> <u>Ecological</u> <u>Functions</u> <u>Affected</u>	<u>Programmati</u> <u>c Restoration</u> <u>Opportunities</u>
Man-made debris and remnant structures in the coastal areas disrupt intertidal habitats and salmonid passage. Water quality in the nearshore environment is impaired due to remaining creosote pilings, runoff from creosote railroad ties, and other toxic debris and sewer outfalls. Sediment transport and accretion processes disrupted.	Watershed and Reach scale	<u>Intertidal</u> <u>habitat Water</u> <u>quality</u>	Target removal of abandoned man- made structures and dilapidated docks in Richmond Beach and Point Wells areas. Remove creosote pilings and debris at Point Wells, which harm intertidal habitats. Encourage BNSF to replace creosote railroad ties with non-toxic materials.

Site-Specific Restoration Opportunities

A number of site-specific City and non-City projects that would occur in the City's shoreline jurisdiction are in various stages of planning, as summarized in Table 9 below. The City could explore working with applicants, resource agencies, and permitting agencies to ensure that components or mitigation measures associated with these projects are consistent with the City's shoreline management goals. Opportunities and projects identified in the table are described in more detail immediately following the table.

<u>Segment</u>	Existing Public Access Point Wells Beach (informal and limited	Public Access Opportu nities South Point Wells Habitat Restoratio n	Public Access Projects None	Site-Specific Restoration Opportunities Point Wells Complete Site Restarption Wells Habitat	Site-Specific Restoration Projects King County Brightwater Treatment Plant project at Point Wells site
	access) at the south end of segment			Restarption Wells Lagoon Greek Wetland Construction	Project includes restoration plantings.
<u>B</u>	Point Wells Beach (informal and limited access) at the north end of segment	<u>None</u> identified	Richmond Beach Pump Station Park includes interpretiv e watchtow er	None identified	<u>None</u> proposed
<u>C</u>	<u>Richmon</u> <u>d Beach</u> <u>Saltwater</u> <u>Park</u>	<u>None</u> identified	Public access improvem ents at Richmond Beach Saltwater Park	Restore and protect native marine riparian vegetation at Richmond Beach Saltwater Park, west of BNSF railroad tracks.	Master Plan for Richmond Beach Saltwater Park. The plan includes native plant restoration and slope stability
D	None	<u>None</u> identified	<u>None</u> proposed	None identified	efforts. <u>None</u> proposed
E	Innis Arden Reserve (limited access)	None identified	<u>None</u> proposed	Boeing Creek Enhancement	Boeing Creek Park and Underground Storage Pipe project

<u>Table 9.</u> Summary of Site-Specific Opportunities and Projects for Public Access and Restoration
Segment A

Point Wells Restoration Opportunities

The Lake Washington/Cedar/Sammamish Watershed (WRIA 8) Chinook Salmon Conservation Plan Volume II (WRIA, 2005) identifies many potential restoration and protection projects as part of their Tier 1 Initial Habitat Project List for nearshore/estuary Reaches 8-12 and Sub-reaches. Three specific projects were identified at Point Wells, which is within Reach 10.

Point Wells Complete Site Restoration: Restore the entire Point Wells site by completely removing the sea wall, riprap dike, and fill. Regrade the site and reconnect local freshwater sources to re-create a tidal lagoon system with an opening at the north end of the point, which was probably the original mouth of the tidal lagoon system. Reestablish native riparian and backshore vegetation. Project categorized as "high" for benefits to Chinook and "low" for feasibility.

South Point Wells Habitat Restoration: Enhance the south shoreline by removing riprap dike, eliminating invasive plants, and reestablishing native riparian and backshore vegetation. The south shoreline is approximately 800 feet long, has sandy substrate, supports some beach grass and other herbaceous vegetation, and includes a fair amount of large woody debris. The south shoreline, with its proximity to nearby residential areas, has potential value for public access. Project categorized as "high/medium" for benefits to Chinook and "medium/low" for feasibility.

South Point Wells Lagoon Creation: Creation of a three acre inter-tidal lagoon at the south end of the Point Wells site that may have historically been a marsh (before it was filled). The south shoreline is approximately 800 feet long, has sandy substrate, supports some beach grass and other herbaceous vegetation, and includes a fair amount of large woody debris. Project categorized as "high/medium" for benefits to Chinook and "medium/low" for feasibility.

Barnacle Creek Wetland Construction Opportunity

The Lake Washington/Cedar/Sammamish Watershed (WRIA 8) Chinook Salmon Conservation Plan Volume II (WRIA, 2005) also identifies one specific project within the Barnacle Creek drainage. The project involves creation of tidally influenced wetland habitat on the east side of the BNSF railroad tracks at Barnacle Creek. Project categorized as "low" for both benefits to Chinook and feasibility.

Brightwater Treatment Plant Project at Point Wells

The KCDNRP WTD is currently constructing a regional wastewater treatment plant called Brightwater in unincorporated Snohomish County. A conveyance line from the treatment plant to the Point Wells site is currently being built in order to convey treated wastewater to Puget Sound. A marine outfall will be installed offshore of the Point Wells site, extending approximately one mile along the sea bottom of Puget Sound. Following construction, King County will landscape a portion of the Point Wells site with Puget Sound coastal grasses and enhance the shoreline buffer. Eelgrass removed from the outfall construction site will be replanted and monitored until 2019 to ensure effective recovery. The project is anticipated to be complete by the year 2010 (KCDNRP, WTD website, 2008).

Segment B

Richmond Beach Pump Station Park Project

A new park site is located in the Richmond Beach neighborhood at Richmond Beach Drive NW and NW 198th Street. The City obtained a 50-year recreation easement on a 2.3-acre parcel of land from King County as mitigation for impacts from the Brightwater Treatment Plant project. In the mitigation agreement between the City of Shoreline and King County, it was agreed that the County would provide \$750,000 of mitigation funding for City of Shoreline community improvements. Most of the mitigation funding has been designated for the creation of a new City park at the pump station site. This park is currently being called Richmond Beach Pump Station Park until it receives a new name following City and County naming policies. A 2005 Master Plan for the park includes a small parking area, restroom, interpretive watchtower overlooking the BNSF railroad and Puget Sound, and play areas. No shoreline access west of the BNSF railroad is proposed (City of Shoreline website, 2008).

Segment C

Richmond Beach Saltwater Park Project

The City's Master Plan for Richmond Beach Saltwater Park (City of Shoreline, 2007b) includes improvement of the park entrance and road; pedestrian sidewalks, stairs and trails; bridge access and safety; a new beach wash-down area; a new overlook parking area across from the caretaker's residence; a new mid-level terrace area with parking, picnic area and gathering space; and new entry, way-finding and interpretive educational signage. In addition, the plan includes selective site improvements and a program of restoration ecology to control erosion and eliminate invasive plant species in the Park and nearshore areas. Phase I improvements include slope stability efforts in specific areas that showed evidence of unstable soil conditions or erosion during geotechnical investigation. Improvements include controlling public access away from steep slope areas, improving access across steep slopes by constructing raised stairs and boardwalks in selected locations, and by implementing a community participation program of removing invasive plants and replacing them with native plant species tolerant of dry, sandy and gravelly soils. Future phases of the master plan propose beach and dune restoration.

Segment D

No site-specific projects or opportunities have been identified to provide public access or restore shoreline functions and processes. Opportunities in this segment are limited because properties along the shoreline are privately owned. There are also hazards along the shoreline including unstable slopes and landslide hazards.

Segment E

Boeing Creek Park and Underground Storage Pipe Project

In October 2007, King County completed construction of a new 500,000-gallon underground storage pipe in Boeing Creek Park to temporarily store wastewater during large storms and help reduce overflows to Puget Sound. The pipe replaced an existing 24-inch sewer in Boeing Creek Park owned by the Ronald Wastewater District. The new sewer is 12 feet in diameter and about 640 feet long. The new underground storage pipe is conveying normal wastewater flows toward the Hidden Lake Pump Station. At the request of the City of Shoreline, King County also graded the existing stormwater facility in Boeing Creek Park. The County grading increased the capacity of the facility and stabilized the area. The City then followed with their own park improvement project in 2008. Improvements to the park include new on street parking, ADA pathway improvements, new picnic areas, benches, stormwater detention pond upgrades including a cascading stone water feature, irrigation, native plant landscaping, and trail improvements including improvements to the lower log crossing. The suspension foot bridge will not be part of these improvements as the December storm caused erosion damage to the creek banks including the proposed site for the bridge (City of Shoreline website, 2008).

Boeing Creek Enhancement

The *City of Shoreline Stream Inventory* (TT/KCM, 2004b) notes that the foremost option for recovery within the City is enhancement of the lowest reach of Boeing Creek. The key habitat enhancement activity is to reduce stormwater runoff from developed areas adjacent to Boeing Creek. By reducing stormwater runoff, landslides will occur at more natural levels and sediment loading in the stream will be reduced.

DATA GAPS

This shoreline inventory and characterization report relies on data described in each technical section. In some cases, data identified as needed for the analysis and characterization were not available for incorporation in this report. The 2003 Ecology Guidelines require that data gaps or missing information be identified during the preparation of the shoreline inventory and analysis. The following are considered data gaps at this time:

Aerial photographs used in this analysis are dated 2002. More recent aerial photographs are not currently available or have not been purchased by the City.

Impervious surface information used in this report has been approximated using aerial photographs. Additional information may exist that needs to be explored.

Data related to impacts to shoreline resources from the operation and maintenance of the BNSF railroad tracks is not available. Coordination with BNSF Railway is desired to achieve cooperation between City activities in the shoreline jurisdiction and BNSF operation and maintenance activities.

Tribal information on fisheries or other marine shoreline resources is currently lacking.

Location of archaeological resources is unknown. Coordination with Native American tribal organizations would help to identify the probability or likelihood that intact archaeological resources may be present in the shoreline planning area.

SUMMARY

The City's shoreline jurisdiction includes approximately 4 miles of Puget Sound coastline within the city limits and in its PAA. Similar to other cities along the Puget Sound, existing development and infrastructure has affected the shoreline environment within the City of Shoreline. Ecosystem-wide processes and ecological functions that have been altered in the marine shoreline include sediment processes, large woody and organic debris recruitment and transport, water quality, riparian vegetation and habitat conditions.

Shoreline armoring to protect the BNSF railroad has most severely altered sediment processes in the City. Sediment delivery is limited to several streams that deliver sediment via culverts under the railroad right-of-way. Forage fish spawning still occurs at these limited points of sediment input (e.g. Boeing Creek) (Daley, 2004). In the Richmond Beach neighborhood, sediment processes have been altered by armoring to protect residential development in several areas, but still provide important habitat and sediment functions.

<u>Clearing of riparian vegetation along the marine shoreline for the BNSF Railway</u> <u>construction and maintenance, and other shoreline armoring has resulted in a lack of</u> <u>large woody and organic debris available for recruitment to the system. The lack of</u> <u>debris in turn affects the stability of the beaches as the presence of beach logs and debris</u> <u>can reduce erosion by dissipating wave energy and trapping sediment.</u>

Restoration and preservation activities that could improve ecological functions and ecosystem wide processes in the marine shoreline include: reduction of stormwater runoff to landslide-prone areas; revegetation of riparian areas to provide shade to cool water temperatures, filter run-off and to provide a source of large woody debris and organic materials; limiting shoreline armoring to allow for continued sediment delivery and to protect nearshore habitat; and improvements to water quality in adjacent upland areas.

Table 10 below summarizes the shoreline characterization for each planning segment. The segments are shown on Map 1. Overall, the Puget Sound shoreline in the City of Shoreline is uniform in its development pattern and biological diversity. The BNSF railroad extends the length of the shoreline. Segment breaks were primarily associated with changes in land use. Point Wells, located in the city's PAA, is the only industrial facility along the shoreline, contrasting with the residential nature of the city's shoreline. South of Point Wells, land use breaks along segment boundaries are primarily associated with varying densities of residential development, and parks and open space resources such as Richmond Beach Saltwater Park and Innis Arden Reserve. While Richmond Beach Saltwater Park provides recreational facilities and access to the Puget Sound shoreline, access at other open space and park resources are limited. Shoreline modifications associated with the railroad and residential development are found throughout the majority the city's shoreline planning area, with the largest contiguous unmodified portion occurring at Richmond Beach Saltwater Park.

Biological resources and potential habitat areas along the Puget Sound shoreline are largely uniform throughout the city. Less developed areas along the shoreline such as Innis Arden Reserve and Boeing Creek Reserve offer greater habitat potential for wildlife. Areas regulated as critical areas are found throughout the shoreline planning area, primarily comprised of inter-tidal wetlands, streams discharging to Puget Sound, seismic hazards, flood hazards and landslide hazard areas associated with bluffs. Critical areas are listed in Table 10 under Hazard Areas and Habitat / Habitat Potential. Streams discharging to Puget Sound, many of which pass through culverts under the railroad, are listed under Stormwater Outfalls / Stream Discharges.

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<u>City of Shoreline - Shoreline Inventory and</u> <u>Characterization</u>

Shoreline	Land Use /	Stormwater	Public		
Segment	Transportatio	<u>Outfalls /</u>	Shoreline	Hazard Areas	<u>Habitat / Habitat Potential</u>
<u></u>	<u></u> n	Stream	Access		
<u>A</u>	Petroleum Facility	Con Discharges	Point Wells	Soil, Groundwater	Wetlands
	King County Right-	stormwater and	Beach (informal	and Surface Water	Fish and Wildlife Areas (Forage
	of- Way (ROW)	groundwater	and limited	Contamination	Fish, Salmonids, shorebirds and
		remediation outfall	access) at the	Seismic Hazard	piscivorous birds, shellfish, eelgrass
		near south end of	south end of	Areas	and kelp)
B	Single Family	Reckmond Beach	segment	Flood Hazard	Wetlands
	Residential	Wastewater		Areas Seismic	Fish & Wildlife Areas (Forage Fish,
	BNSF Railway	Pump Station		Hazard Areas	Salmonids, Banks/Bluffs, shorebirds
	ROW Utility	emergency		Landslide Hazard	and piscivorous birds, shellfish,
	Vacant	overflow outfall;		Areas	eelgrass and kelp)
		Stream Outfalls:			
<u>C</u>	BNSF Railway	Ramacle Creek	Richmond	Flood Hazard	Wetlands
	ROW Park		Beach Saltwater	Areas Seismic	Fish & Wildlife Areas (Forage Fish,
	Single-Family		<u>Park</u>	Hazard Areas	Salmonids, Banks/Bluffs, shorebirds
	Residential			Landslide Hazard	and piscivorous birds, shellfish,
				Areas	eelgrass and kelp)
<u>D</u>	Single-Family	Stream Outfalls:	None	Flood Hazard	<u>Wetlands</u>
	Residential	Storm and Blue		Areas Seismic	Fish & Wildlife Areas
	BNSF Railway	Heron Creeks		Hazard Areas	(Salmonids, shorebirds and
	ROW			Landslide Hazard	piscivorous birds, shellfish,
				Areas	eelgrass and kelp)
E	BNSF Railway	Stream Outfalls:	Innis Arden	Flood Hazard	Wetlands
_	ROW Single-Family	Coyote, Boeing,	Reserve	Areas Seismic	Fish & Wildlife Areas (Forage
	Residential	and Highlands	(limited access)	Hazard Areas	Fish: Boeing Creek Mouth,
	Open Space	Creeks		Landslide Hazard	Salmonids, shorebirds and
	Vacant			Areas	piscivorous birds, shellfish,
			1		eelgrass and kelp)

Table 10. Shoreline Segment Summary Matrix, City of Shoreline

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CUMULATIVE IMPACTS ASSESSMENT



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<u>memorandum</u>

date February 22, 2012, revised March 1, 2012

- to Miranda Redinger, City of Shoreline Reema
- from Shakra and Teresa Vanderburg, ESA

subject City of Shoreline, Shoreline Master Program Update – Draft Cumulative Impacts Analysis

The purpose of this memo is to assess the cumulative impacts of reasonably foreseeable future development in the shoreline that would result from development and activities over time under the proposed City of Shoreline SMP required by WAC 173-26-186(8)(d). This memorandum was first prepared in November 2010 based on the October 2010 Draft SMP. In February 2012, the memorandum was updated to reflect the changes since made to the SMP, and is based upon the February 2012 SMP (received by ESA on February 21, 2012). Minor revisions were made on March 1, 2012. This memorandum is intended to support the environmental review of the proposed SMP amendments under the State Environmental Policy Act (SEPA).

For the City of Shoreline, shorelines of the state in the city limits and potential annexation area (PAA) include approximately 5 miles of the Puget Sound shoreline.

The purpose of evaluating cumulative impacts is to insure that, when implemented over time, the proposed SMP goals, policies and regulations will achieve no net loss of shoreline ecological functions from current "baseline" conditions. Baseline conditions are identified and described in the City of Shoreline Inventory and Characterization Report (ESA Adolfson, 2008). The proposed Shoreline SMP provides standards and procedures to evaluate individual uses or developments for their potential to impact shoreline resources on a case-by-case basis through the permitting process. The purpose of this memorandum is to determine if impacts to shoreline ecological functions are likely to result from the aggregate of activities and developments in the shoreline that take place over time under the updated SMP.

The guidelines state that, "to ensure no net loss of ecological functions and protection of other shoreline functions and/or uses, master programs shall contain policies, programs, and regulations that address adverse cumulative impacts and fairly allocate the burden of addressing cumulative impacts among development opportunities. Evaluation of such cumulative impacts should consider:

- Current circumstances affecting the shorelines and relevant natural processes;
- Reasonably foreseeable future development and use of the shoreline; and
- Beneficial effects of any established regulatory programs under other local, state, and federal laws."¹

This cumulative impacts assessment uses these three considerations as a framework for evaluating the potential long-term impacts on shoreline ecological functions and processes that may result from development or activities under the proposed SMP over time.

Current Circumstances

The City prepared the first draft of the shoreline inventory and characterization report in 2004. As part of the City's current comprehensive SMP update process, the report and map folio were updated in the fall of 2008. The report was revised in December 2008 to address technical review comments and November 2009 and April 2010 to incorporate public review comments. The Shoreline Inventory and Characterization (ESA Adolfson, 2008) identifies existing conditions and evaluates the ecological functions and processes in the City's shoreline jurisdiction. The inventory included all shoreline areas within the City and its Potential Annexation Area (PAA) and included a characterization of ecosystem processes functioning at a watershed scale. "Shoreline planning area" is a term used in this tech memo to refer to the approximate area within the City's shoreline jurisdiction, or areas subject to SMP regulations.

For the purposes of the Inventory and Characterization Report, the Puget Sound shoreline was addressed in five shoreline planning segments, as shown on Map 1, and described below in Table 1. Reach breaks were assigned based upon land uses and existing shoreline conditions as described in the inventory report. The most **domdinsmin** the shoreline is the Burlington Northern Santa Fe (BNSF) right-of-way, which extends in a north-south direction along the entire length of the shoreline area within city limits. The remaining portions of the shoreline planning area are occupied by industrial uses, residential uses, and parks and open space. Approximately 97 percent of the City's shoreline adjacent to Puget Sound is modified with riprap and bulkheads (WDNR, 2001). The majority of this armoring is associated with the BNSF railroad bed.

<u>Shoreline</u> <u>Segment</u>	<u>Approximate</u> Length (feet)	<u>Approximate</u> <u>Segment Acreage</u>	<u>General Boundaries</u>
A	<u>3,411</u>	<u>15.6</u>	Potential Annexation Area / Point Wells: located directly north of the city limits in unincorporated Snohomish County.
<u>B</u>	<u>4,724</u>	<u>21.7</u>	Richmond Beach residential area: the Snohomish County line south to Richmond Beach Saltwater Park.
<u>C</u>	<u>2,801</u>	<u>11.0</u>	Richmond Beach Saltwater Park south to Storm Creek culvert.
D	<u>1,295</u>	<u>5.7</u>	Innis Arden residential area: south of Richmond Beach Saltwater Park to Innis Arden Reserve Park.
E	<u>9,424</u>	41.6	Innis Arden Reserve / Highlands: Innis Arden Reserve Park south to city limits.

Table 11. Shoreline Planning Seg	ments
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Source: City of Shoreline, 2002

 $\frac{1}{2}$ WAC 173-26-286(8)(d)

 2 Shoreline segments were developed in 2004 as part of the first draft inventory and characterization report. The shoreline segments were developed for the sole purpose of describing areas along the shoreline. Segments were created based on physical distinction along the shoreline, the level of ecological functions provided by each segment, as well as existing land

¹ WAC 173-26-286(8)(d)

uses and zoning. Shoreline segments should not be confused with shoreline environment designations. Shoreline environment designations were developed after the inventory and characterization report was completed. Environment designations are analogous to zoning designations and are incorporated directly into the City's Draft Shoreline Master Program. In the City's Draft Shoreline Master Program, there are 6 environment designations and each one has a distinct purpose statement and specific uses and modifications that are permitted, conditionally permitted or prohibited. Regulations specific to each environment designation are included as well.

The following sections further summarize baseline conditions, or current circumstances, with regard to the City's Puget Sound shoreline.

Map 1. Shoreline Planning Area



Physical and Coastal Processes

Puget Sound beach morphology and composition is dependent upon three main influences: wave energy, sediment sources, and relative position of the beach within a littoral cell. Wave energy is controlled by fetch, the open water over which winds blow without any interference from land. Wind-generated wave action gradually erodes beaches and the toe of coastal bluffs, leading to landslides. These coastal bluffs are the primary source of sediment for most Puget Sound beaches. In the city, coastal bluffs are separated from the shoreline by the BNSF Railway, thus completely removing bluff sediment sources. Although riparian vegetation is located along portions of the shoreline, the shore modifications associated with the BNSF Railway and BNSF maintenance activities prevent recruitment of large woody debris to the shoreline. These shore modifications also preclude net shore-drift along the Puget Sound. A small amount of sediment is delivered by fluvial sources (streams) in the city, although this process is also impaired by culvert systems and the BNSF Railway. Construction of the railroad buried much of upper foreshore beach, thereby locking up coarse sand and gravel in the littoral system. This limits or precludes longshore transport of sediment.

Shoreline Modifications

Approximately 97 percent of the City's shoreline adjacent to Puget Sound is modified with riprap and bulkheads (WDNR, 2001). The majority of this armoring is associated with the BNSF railroad bed. As a result, sediment delivery from upslope sources is limited to several streams that deliver sediment via culverts under the railroad ROW. Forage fish spawning still occurs at these limited points of sediment input.

There are no docks, piers, or over-water structures along Puget Sound within the City limits. However, within the PAA, Point Wells contains a large industrial dock used for both import and export of materials to and from the facility. Construction of the King County Wastewater Treatment Brightwater Conveyance pipeline and marine outfall project is currently underway at the Point Wells site.

Clearing of riparian vegetation along the marine shoreline for the BNSF Railway construction and maintenance, residential uses, bulkheads and other shoreline armoring has resulted in a lack of large woody and organic debris available for recruitment to the marine system. The lack of debris in turn affects the stability of the beaches as the presence of beach logs and debris can reduce erosion by dissipating wave energy and trapping sediment. Large woody debris also provides thermoregulation of sediment for spawning forage fish and detritus recruitment.

Habitat and Species

The Puget Sound nearshore environment is a highly productive zone that provides habitat for a variety of aquatic and terrestrial species. The "nearshore" is generally considered to be an area extending from a point underwater where light penetrates to the bottom (the "littoral zone"), across the intertidal zone and beach, up to the top of marine bluffs. Important documented features of the nearshore that provide habitat include:

- Banks, bluffs, beaches and backshore (sediment sources, substrate, and storm berms);
- <u>Tidal flats (intertidal or shallow subtidal areas used by juvenile salmonids, shorebirds, and shellfish);</u>
- Eelgrass meadows and kelp forests (feeding and rearing habitat for wide variety of marine organisms); and
- Stream mouths and pocket estuaries (fish and wildlife corridors and source of fluvial sediment to nearshore).

Within the City's shoreline planning area, there are seven streams that feed into the Puget Sound. Segment A has an unnamed tributary of Barnacle Creek that is located east of the BNSF railroad and south of Point Wells. It travels south where it connects to Barnacle Creek in Segment B. Lost Creek is located north of the city limits

in the Town of Woodway. It flows southwest both in piped and open water sections towards Puget Sound. It appears to connect to Barnacle Creek before discharging into Puget Sound in Segment B. Barnacle Creek is formed by the confluence of Upper Barnacle Creek and Lower Barnacle Creek and discharges to Puget Sound in Segment B. A palustrine forested wetland, less than one acre in size, is associated with Barnacle Creek. Storm Creek and Blue Heron Creek discharge to Puget Sound in Segment D. Coyote Creek, Boeing Creek, and Highlands Creek discharge to Puget Sound in Segment E. A scrub/shrub wetland is associated with Coyote Creek.

Aquatic and terrestrial species found in or near the City of Shoreline that utilize the nearshore or deep waters of Puget Sound include:

- <u>Shellfish (clams, mussels, and crab);</u>
- Salmonids (including listed species such as Chinook and bull trout);
- Forage fish (surf smelt, sand lance, and Pacific herring); and
- <u>Shorebirds and waterbirds.</u>

Land Use and Public Access

The BNSF Railway right-of-way (ROW) extends in a north-south direction along the entire length of the City's shoreline planning area. It is the most dominant land use in the shoreline, occupying 48 percent of the total shoreline planning area. Residential development occupies approximately 19 percent of the total shoreline planning area while Point Wells (in the PAA), the only industrial property located along the Puget Sound shoreline, occupies approximately 20 percent. The remaining land uses are parks and open space (8 percent) and vacant properties (2 percent).

Public access opportunity is provided at Richmond Beach Saltwater Park in Segment C. It is a regional 40-acre park that provides active and passive uses including picnic areas, shelter buildings, a playground area, observation areas, trails, and Puget Sound shoreline access. Kayu Kayu Ac Park, in Segment B, is a 2-acre city park recently opened near Richmond Beach Pump Station; this provides shoreline views. Innis Arden Reserve is a 23-acre natural open space area/greenway passive-use park located in Segment E along the bluffs overlooking Puget Sound. Hiking/walking trails represent the main activity of this passive-use reserve. Although trails eventually lead to the shoreline, the public has to cross the BNSF railroad tracks and riprap to reach the Puget Sound shoreline. Blue Heron Reserve (Segment C) and Coyote Reserve (Segment D) are privately owned tracts that are associated with Blue Heron Creek and Coyote Creek, respectively. No public shoreline access is permitted along these tracts. Boeing Creek Reserve is a private 4-acre natural area associated with Boeing Creek located along the Puget Sound shoreline in Segment E. It is preserved as private open space. No public shoreline access is permitted from this reserve along the bluff.

Reasonably Foreseeable Future Development and Use

Substantial development or redevelopment within the City's shoreline planning area is unlikely. However, limited development may occur on vacant parcels, residential parcels with potential for redevelopment and residential parcels that can be subdivided. Such parcels occupy 16.5 acres (17 percent) of the City's shoreline planning area. A majority of these properties is located in Segments B and E and is discussed in more detail below. Houses on existing single-family lots are also expected to grow larger through additions up to the maximum allowed building envelope under the zoning, SMP and CAO regulations and contingent upon receiving required City permit approvals. However, existing residential development along 27th Avenue NW are constrained by zoning and CAO regulations, making expansion of existing building footprints less likely.

Point Wells is the only commercial property that may have a major redevelopment. It is unknown if the redevelopment would take place under Snohomish County's, Woodway's or Shoreline's jurisdiction.

There are several factors which will inhibit major new development along the Puget Sound shoreline. One is the BNSF Railway which occupies 48 percent of the city's shoreline planning area, extending in a north-south direction along the entire length of the shoreline. This limits development potential because vehicular access across the BNSF tracks is limited. The City has received no indication that BNSF would sell their ROW property or provide new road crossings of the tracks. A second factor that contributes to limiting development is steep slopes and landslide hazard areas located throughout portions of Segments B - E.

Vacant Parcels

In order to evaluate the potential for shoreline development in the reasonably foreseeable future, King County Assessor records (2007) were examined to identify parcels classified as "vacant" that are located within the shoreline jurisdiction. While the term "vacant" may not always accurately reflect current conditions (such as protected open space, steep slopes, wetlands, or other lands with development restrictions), the classification generally indicates that no structural improvements have been made or assessed for taxes on the property. Depending on the land use and zoning designations, these areas may be subject to new development in the future.

Vacant parcels occupy only 2 percent of the City's shoreline planning area (including the PAA) and account for a total of 1.5 acres. The vacant properties are located in Segments B and E. This percentage value does not include BNSF property or City-owned right-of-way. Development of vacant lands is therefore not anticipated to cause a significant change in the existing condition of the City's shorelines.

Redevelopment Potential

In addition to the potential for development on vacant parcels, there is potential for underutilized lots along the Puget Sound to redevelop. For the purposes of this Cumulative Impacts Assessment, we based redevelopment potential on the assumption that parcels in a single-family zone (R-4 and R-6) with a land value assessed by King County at 50% or higher than building value are likely to redevelop some time in the future. Based on this assumption, 22 parcels of the City's shoreline planning area have the potential to redevelop. All 22 parcels are located in Segment B and account for a total of 3 acres or 3 percent of the City's shoreline planning area.

The only major commercial property that is likely to redevelop is Point Wells. Snohomish County, in response to a petition from the Point Wells property owner, changed the Comprehensive Plan designation and zoning designation of Point Wells from Urban Industrial to Urban Center. Urban Center allows for a mix of high-density residential, office and retail uses. The City of Shoreline has a Comprehensive Plan designation of Mixed Use, which is intended to encourage the development of pedestrian oriented places, with architectural interest,

that integrate a wide variety of retail, office and service uses with residential uses. It seems likely that the property would redevelop based on the recent changes to the County's designations. However, the property would need to be remediated to address soil and groundwater contamination. Vehicular access to the property is severly limited and poses considerable challenges to developing high-intensity land uses.

Subdivision Potential

A third approach to determining potential development along the Puget Sound was to determine whether there are residential parcels that have the potential for subdividing. We based subdivision potential on the assumption that parcels in single-family zone (R-4 and R-6) that are at least 2 times larger than the minimum lot size allowed in the zone are likely to subdivide sometime in the future. Fifty-three parcels have the potential to subdivide, 9 of which are located in Segment B, 5 in Segment C, 12 in Segment D, and 27 in Segment E. The total acreage amount within the City's shoreline planning area is 12 acres or 12 percent of the City's shoreline planning area.

Changes to Shoreline Environment Designations

SMPs establish a system of "shoreline environment designations" that provide a uniform basis for applying policies and use regulations within distinctly different shoreline areas. Shoreline environment designations function like zoning overlays. That is, they do not replace the underlying zoning regulations for density, setbacks, etc., but they may impose additional development standards or regulations for portions of property within the shoreline jurisdiction. Generally, environment designations are based on existing and planned development patterns, biological and physical capabilities and limitations of the shoreline, and a community's vision or objectives for its future development.

When the City of Shoreline incorporated in 1995, it adopted regulations outlined in Title 25 (Shoreline Management Plan) of the King County Code as the interim shoreline management code (Shoreline Municipal Code [SMC] 16.10). Three shoreline environment designations are established in the King County Shoreline Management Master Program and were applied to the City's shorelines:

- <u>1.</u> Urban,
- 2. Rural, and
- <u>3.</u> <u>Conservancy</u>

Since the City's Potential Annexation Area is located in Snohomish County, the shoreline environment designation that currently applies to Point Wells is Urban.

The proposed SMP environment designations per the October 2010 Draft SMP include the following:

- "Point Wells Urban" environment to accommodate higher density uses while protecting existing ecological functions and restoring ecological functions that have been degraded.
- "Point Wells Urban Conservancy" environment to provide a specific designation unique to an industrial use or mix of uses that can be developed.
- "Urban Conservancy" environment to protect and restore relatively undeveloped or unaltered shorelines to maintain open space, floodplains or habitat, while allowing a variety of compatible uses.
- "Waterfront Residential" environment to distinguish between the residential portions of the coastline where natural and manmade features preclude building within the shoreline jurisdiction and the section

along 27th Avenue NW where residential structures lie westerly of the BNSF railroad ROW and directly abut the Puget Sound.

- "Shoreline Residential" environment to accommodate residential development and accessory structures that are consistent with the City's Shoreline Master Program.
- "Aquatic" environment to protect, restore, and manage the unique characteristics and resources of the areas waterward of the ordinary high-water mark.

The proposed environment designations are consistent with both the existing land use pattern and Comprehensive Plan future land use designations.

Changes to Development Standards and Use Regulations

The proposed SMP offers several changes to the development regulations that encourage shoreline conservation and prohibit activities that would cause adverse impact to shoreline functions and processes. Many of these changes deal with shoreline modification such as bulkheads and riprap revetments along much of the City's shoreline. These shoreline modifications have significantly altered the natural net-shore drift direction and the availability and local distribution of beach sediment. Other changes related to specific uses in the shoreline are also designed to protect shoreline ecological functions and processes, while continuing to allow legal uses, public access, and appropriate development.

This section describes in general terms how the proposed SMP protects shoreline functions and processes to achieve no net loss. Appendix A cites specific provisions in the proposed SMP (City of Shoreline, 2010) and Draft Restoration Plan (ESA Adolfson, 2009) that serve to protect and enhance shoreline ecological functions. For each proposed shoreline environment designation, Appendix A provides the current conditions, likely future changes, potentially impacted shoreline processes and functions, effects of proposed SMP provisions, existing regulatory controls, and an assessment of expected future performance.

The proposed SMP offers several changes to the development regulations that encourage shoreline conservation and prohibit activities that would cause adverse impact to shoreline functions and processes. One of the most significant changes is the application of a vegetation conservation area on the Puget Sound and accompanying requirements for vegetation enhancement. Most of the City's Puget Sound shoreline was developed under King County development standards prior to city incorporation. Puget Sound is not considered a critical area under the City's Critical Areas Ordinance (Shoreline Municipal Code Chapter 20.80) and did not have buffer standards or requirements. Current King County standards require a 25-foot setback from the ordinary high water mark (OHWM) for single-family development in Urban and Rural environments and a 50-foot setback from the OHWM in the Conservancy environment. The proposed SMP standards and regulations would establish a 20-150 foot vegetation conservation area. Only 9 percent of the total linear length of the City's Puget Sound shoreline would be regulated with a 20-foot vegetation conservation area (with accompanying restoration). The remainder of the City's shoreline will be classified as Shoreline Residential and Urban Conservancy with a 115 to 150 foot vegetation conservation area. Extensive land disturbing activities that require a permit are required to implement a plan that involves revegetation (See 20.230.200.B.4 of Draft SMP).

Regulation of shoreline modifications, such as bulkheads and riprap revetments, will be updated as well. New development and land divisions would be required to be located and designed to avoid the need for shoreline stabilization measures. Further, the conservation of shoreline vegetation has been emphasized in the new shoreline regulations for the City to further stabilize shorelands and increase habitat functions. Updated policies

and development standards establish a preference for alternative "soft-shore" erosion control or stabilization designs. In most cases, project applicants would be required to demonstrate why a "soft-shore" design would not provide adequate protection of existing development. Over time these changes will likely have a net beneficial effect on shoreline ecological processes as properties are redeveloped.

The proposed changes to development standards and use regulations are, in general, more protective than the existing SMP. New development would be required to meet standards contained in the CAO and meet the policy intent and development standards of the SMP. As redevelopment occurs, the policies and regulations in the SMP require that development be located and designed in a manner that avoids impacts to ecological functions and/or enhances functions where they have been degraded. For example, the vegetation conservation measures may require that, as part of a redevelopment proposal, non-native or invasive species be replaced with native vegetation.

Changes to the Treatment of Non-conforming Uses

Much of the development in the City of Shoreline along the Puget Sound predates incorporation of the City in 1995. Several properties and developments in the City's shoreline do not conform to current zoning or SMP regulations. The proposed SMP includes regulations that are designed to increase protection of shoreline resources over time by prohibiting redevelopment that would result in a greater degree of nonconformity for existing development.

Under the proposed SMP the following standards apply:

- Structures that were legally established and are used for a conforming use, but which now do not conform with regard to setbacks, buffers or yards, area, bulk, height, or density may continue as long as they do not increase the extent of non-conformity by further encroaching upon or extending into areas where construction or use would not be allowed for new development or uses.
- Uses and developments that were legally established and are nonconforming with regard to the use regulations of the SMP may continue as legal nonconforming uses. Such uses cannot be enlarged or expanded without an approved conditional use permit, except that nonconforming single-family residences that are located landward of the OHWM may be enlarged or expanded in conformance with applicable bulk and dimensional standards by the addition of space to the main structure or by the addition of normal appurtenances.
- <u>Structures that are or have been used for non-conforming uses may be used for a different non-conforming use but only upon the approval of a Shoreline Conditional Use permit.</u>
- If a non-conforming use is discontinued or abandoned for twelve (12) consecutive months the nonconforming rights expire and any subsequent use must comply with the SMP.

Restoration Planning

The draft SMP Restoration Plan (ESA Adolfson, 2009) represents the shoreline restoration element of the SMP. The plan identifies opportunities for restoration activities or efforts that include programmatic opportunities (e.g., investigate a beach nourishment program; reduce overwater structures; protect remaining riparian marine vegetation), site-specific opportunities (such as replacing Boeing Creek culvert with a larger box culvert), regional plans and policies for Puget Sound restoration, and potential funding and partnership opportunities. The SMP's restoration planning is focused on areas where shoreline functions have been degraded by past development activities. The areas with impaired functions were identified in the City's Shoreline Inventory and Characterization. Recognizing that much impairment to shoreline processes and functions are the result of the railroad tracks along the coast and armoring associated with single-family residences along 27th Avenue NW (both of which are assumed to remain), the implementation of the Restoration Plan will improve shoreline ecological functions incrementally over time.

Beneficial Effects of Any Established Regulatory Programs Under Other Local, State, and Federal Laws

A variety of other regulatory programs, plans, and policies work in concert with the City's SMP to manage shoreline resources and regulate development near the shoreline. The City's Comprehensive Plan establishes the general land use pattern and vision of growth and development the City has adopted for areas both inside and outside the shoreline jurisdiction. Various sections of the Shoreline Municipal Code (SMC) are relevant to shoreline management, such as zoning (SMC Chapter 20.40), stormwater management (SMC Chapter 13.10), and flood damage prevention (SMC 16.12). The City's development standards and use regulations for environmentally critical areas (SMC Chapter 20.80) are particularly relevant to the City's SMP. Designated environmentally critical areas are found throughout the City's shoreline jurisdiction, including geologic hazard areas, wetlands, flood hazard areas, and streams areas. Standards and regulations in the critical areas regulations have been adopted by reference in the proposed SMP.

A number of state and federal agencies may have jurisdiction over land or natural elements in the City's shoreline jurisdiction. Local development proposals most commonly trigger requirements for state or federal permits when they impact wetlands or streams; potentially affect fish and wildlife listed under the federal Endangered Species Act (ESA); result in over one acre of clearing and grading; or affect the floodplain or floodway. As with local requirements, state and federal regulations may apply throughout the city, but regulated resources are common within the City's shoreline jurisdiction. The state and federal regulations affecting shoreline-related resources include, but are not limited to:

Endangered Species Act (ESA): The federal ESA addresses the protection and recovery of federally listed species. The ESA is jointly administered by the National Oceanic and Atmospheric Administration (NOAA) Fisheries (formerly referred to as the National Marine Fisheries Service), and the United States Fish and Wildlife Service (USFWS).

<u>Clean Water Act (CWA)</u>: The federal CWA requires states to set standards for the protection of water quality for various parameters, and it regulates excavation and dredging in waters of the U.S., including wetlands. Certain activities (i.e., fill or dredge) affecting wetlands in the City's shoreline jurisdiction or work waterward of the ordinary high water mark in the Puget Sound or streams may require a permit from the U.S. Army Corps of Engineers and/or Washington State Department of Ecology under Section 404 and Section 401 of the CWA, respectively.

Hydraulic Project Approval (HPA): The Washington Department of Fish and Wildlife (WDFW) regulates activities that use, divert, obstruct, or change the natural flow of the beds or banks of waters of the state and may affect fish habitat. Projects in the shoreline jurisdiction requiring construction below the ordinary high water mark of Puget Sound or streams in the city could require an HPA from WDFW. Projects creating new impervious surface that could substantially increase stormwater runoff to waters of the state may also require approval.

National Pollutant Discharge Elimination System (NPDES): Ecology regulates activities that result in wastewater discharges to surface water from industrial facilities or municipal wastewater treatment plants. NPDES permits are also required for stormwater discharges from industrial facilities, construction sites of one or more acres, and municipal stormwater systems that serve census-defined Urbanized Areas, which include any urbanized areas with more than 50,000 people and densities greater than 1,000 people per square mile.

Conclusion

This draft cumulative impacts analysis is based upon the Draft Shoreline SMP dated February 2012 (received by ESA on February 21, 2012). The City of Shoreline's Puget Sound coastline is largely developed. There are nearly no major opportunities for new development within the shoreline jurisdiction in the City limits. Therefore, change within the shoreline will primarily be the result of redevelopment activities with the Point Wells site expected to be the most extensive. The system of shoreline environment designations and use regulations in the proposed SMP is consistent with the established land use pattern, as well as the land use vision planned for in the City's comprehensive plan, zoning, and other long-range planning documents. Based on this consistency, it is unlikely that substantial changes in shoreline land uses will occur within the City limits in the future. However, should the Point Wells site be annexed into the City of Shoreline, substantial changes in shoreline land use could occur on this specific site.

The proposed SMP provides a new system of shoreline environment designations that establishes more uniform management of the City's shoreline. The updated development standards and regulation of shoreline modifications provides more protection for shoreline processes. The updated standards and regulations are more restrictive of activities that would result in adverse impacts to the shoreline environment. The restoration planning effort outlined in the proposed SMP provides the City with opportunities to improve or restore ecological functions that have been impaired as a result of past development activities. In addition, the proposed SMP is meant to compliment several city, state and federal efforts to protect shoreline functions and values.

The cumulative actions taken over time in accordance with the City of Shoreline's proposed SMP are not likely to result in a net loss of shoreline ecological functions from existing baseline conditions. This conclusion is based on an assessment of the three factors identified in the Ecology guidelines for evaluating cumulative impacts:

- Current circumstances affecting the shorelines and relevant natural processes;
- Reasonably foreseeable future development and use of the shoreline; and
- Beneficial effects of any established regulatory programs under other local, state, and federal laws.

Changes in subsequent drafts of the SMP may result in a need for revisions to the cumulative impact analysis.

<u>References</u>

City of Shoreline. 2002. City of Shoreline Geographic Information System (GIS)

Dataof Shoreline. 2012. Shoreline Master Program. February 2012 Draft.

- ESA Adolfson. 2009. City of Shoreline, Shoreline Master Program Update, Draft Restoration Plan. Last Updated April 2010. Prepared for City of Shoreline. Seattle, WA.
- ESA Adolfson. 2008. City of Shoreline, Shoreline Inventory and Characterization. Last updated April 2010. Prepared for City of Shoreline. Seattle, WA.

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General Cumulative Impact Analysis

Shoreline Segment & Existing	Likely Future Development	Functions or Processes Potentially Impacted	Effects of SMP Provisions	Effect of Other I Restoration Acti
<u>Point Wells Urb</u>	an			
Includes the northern portion of Segment A This area is in the City's Potential Annexation Area (PAA) and includes the Point Wells industrial port, a petroleum products storage, processing and distribution site.	<u>Snohomish County, in response</u> to a petition from the Point Wells property owner, changed the <u>Comprehensive Plan designation</u> and zoning designation of Point Wells from Urban Industrial to <u>Urban Center. Urban Center</u> allows for a mix of high-density residential, office and retail uses. The City of Shoreline has a <u>Comprehensive Plan designation</u> of Mixed Use, which is intended to encourage the development of pedestrian oriented places, with architectural interest, that integrate a wide variety of retail, office and service uses with residential uses. It seems likely that the property would redevelop based on the recent changes to designations.	Segment A: The portion of Segment A located within Point Well Urban is completely developed. All shoreline functions are considered low, except that eelgrass is mapped off-shore which provides spawning habitat for forage fish. The shoreline is modified with overwater structures and hard armoring. Shoreline functions would remain at low performance levels and would continue to be impaired unless redevelopment occurs. Soil and groundwater contamination would be remediated and the nearshore habitat would be restored as mitigation for the redevelopment.	 20.230.080: The purpose of the "Point Wells Urban" environment is to accommodate higher density uses while protecting existing ecological functions and restoring ecological functions that have been degraded. SNP regulations and standards include: Table 20.230.082: A 50-foot vegetation conservation area with restoration is required for development in the Point Wells Urban environment. The term "Native Conservation Area" (NVCA) applies to areas where the shoreline is not armored, such as the PWUC environment designation, and Richmond Beach Saltwater Park. NVCAs should be maintained in a predominantly natural, undisturbed, undeveloped, and vegetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "Building Schlack" applies in areas where the railroad or bulkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hard-armored conditions, but further encroachment or vegetative clearing are not 20230420.2. Development must: apply the mitigation sequence in WAC 173-26-201(2)(e) ensure no net loss of shoreline ecological functions by being consistent with SMC 20.80 Critical Areas, avoiding or minimizing the need for shoreline stabilization, substantial land disturbance and dredging, and minimizing the need for shoreline stabilization, substantial land disturbance and dredging. and minimizing the need for shoreline stabilization, substantial and disturbance in functions 20.20.02.02. Development that alters topography may be approved if: Elood events will not increase in frequency or severity Alteration would not impact natural habitat forming processes and would not reduce ecological functions 20.23.00.02. C: Alternatives to the use of chemical fertilizers, herbicide and pesticides is the preferred BMP. Vehicle refueling and vehicle maintenance must occur outside of regulated shoreline areas. The bulk storage of oil, fuel, chemicals o	City's Surface V Shoreline develor conformance witt Management Ma Chapter 20.60, su of Shoreline Surface Water Du Critical Areas R Chapter 20.80 of Areas) establishe techniques, and p buffers (i.e., geol habitat conservat aquifer recharge these areas from areas are found th area, particularly areas, and geolog Clean Water Ac states to set stand for various paran dredging in water Certain activities shoreline jurisdic waters may requi of Engineers and Ecology under So CWA, respective Hydraulic Proje Department of Fi activities that use flow of the beds of affect fish habitar require approval. Over-water stru (including wethar not only by the C Department of Fi astornwater runof require approval. Over-water stru (including wethar not only by the C Department of Fi Army Corps of E Washington Dep agencies is charg streams and wethar or mitigation require includes stream of review and permiter

<u>Development and</u> ivities / Programs

Net Effect

Water Management Program: pment must be designed in h the current DOE Storm Water nual (urban environments only) and ubchapter 3 of the SMC and the City

esign Code

Regulations:

the Shoreline Municipal Code (Critical es development standards, construction permitted uses in critical areas and their logic hazard areas, fish and wildlife ion areas, wetlands, flood hazard areas, areas, and stream areas) to protect adverse impacts. Designated critical hroughout the City's shoreline planning wetlands and streams, flood hazard gic hazard areas

et (CWA): The federal CWA requires dards for the protection of water quality meters, and it regulates excavation and rs of the U.S., including wetlands. a affecting wetlands in the City's ection or work in the Puget Sound ire a permit from the U.S. Army Corps /or Washington State Department of ection 404 and Section 401 of the edy.

ect Approval (HPA): The Washington ish and Wildlife (WDFW) regulates e, divert, obstruct, or change the natural or banks of waters of the state and may t. Projects in the shoreline jurisdiction action below the ordinary high water ound or stream mouths in the city could from WDFW. Projects creating new ce that could substantially increase ff to waters of the state may also

actures: Any in- or over-water hds) proposals would require review City, but also by the Washington tish and Wildlife (WDFW), the U.S. Engineers (Corps), and/or the artment of Ecology. Each of these red with regulating and/or protecting ands, and would impose certain design uirements on applicants. A project that or wetland fill would require Corps itting.

No Change

Native Vegetation Conservation Areas are limited to areas that are not currently armored. Therefore, Building Setback applies to most areas within the city. Given the extent of armoring associated with the railroad, most impacts to existing vegetation are expected to be limited to railroad-related activities. However, such activities must comply with policies in the SMP that conserve vegetation in a manner that ensures no net loss.

Shoreline Segment & Existing Condition	Likely Future Development	<u>Functions or Processes</u> Potentially Impacted	Effects of SMP Provisions	Effect of Other Development and Restoration Activities / Programs	Net Effect
			Instrument is permitted. Table 20.230.081: Nonresidential development is permitted. Existing industrial development is permitted.	Restoration Plan (2009): The restoration plans identifies a restoration opportunity in Point Wells that would completely remove the sea wall, riprap dike, and fill, regrade the site and reconnect local freshwater	
			20.230.100: Over-water construction of nonresidential uses is prohibited, with the exception of boat facilities. Water-dependent, nonresidential development must maintain a shoreline setback of either 25 feet from the OHWM or 10 feet from the edge of the base flood elevation, whichever is greater. If public access is provided to the shoreline, the setback may be reduced to 10 feet from the OHWM	sources to re-create a tidal lagoon system with an opening at the north end of the point, and reestablish native riparian and backshore vegetation. Such actions would improve sediment transport and deposition, nearshore habitat forming processes, beach erosion and	
			or the edge of the base flood elevation, whichever is greater. Nonwater-dependent, nonresidential development shall maintain a minimum setback from the OHWM consistent with Table 20.230.082.	accretion of sediments and mineral particulate material, and intertidal fish and wildlife habitat.	
			 watershed restoration project. 20.230.110 B: Existing natural in-stream features are to remain in place. New structures must allow for normal ground water movement and surface runoff. 		
			Table 20.230.081: Recreational facilities are a permitted use. 20.230.130: No recreational buildings or structures can be built waterward of the OHWM, except water-dependent and/or water-enjoyment public structures such as bridges and viewing platforms. Such uses may be permitted as a Shoreline Conditional Use.		
			Table 20.230.081: Residential development is a permitted use. 20.230.160B: Residential development is prohibited waterward of the OHWM and within setbacks defined for each shoreline environment designation. Residential development must assure no net loss of shoreline ecological functions		
			Residential development must assure no necross of shoreme ecological randoms. Residential development will not be approved if a geotechnical analysis indicates that flood control or shoreline protection measures are necessary to create a residential lot or site area. Development must be located to avoid the need for structural shore defense and flood protection Westflential units must be clustered in order to avoid impacts to wetlands or other critical areas.		
			One accessory structure is allowed in the vegetation conservation area provided that structures cover no more than 200 square feet.		
			Table 20.230.081: Dredging is permitted for activities associated with shoreline/aquaticrestoration, remediation, and navigation.restoration, remediation, and navigation.Dredge spoil disposal is permitted for shoreline habitatand natural systems enhancement, fish habitat enhancement, and watershed restoration projects.20.230.160.B: Dredging/disposal allowed only when actions will not result in significant damage		
			to water quality, biological elements, circulation patterns, floodwater capacity, and properly functioning conditions for threatened / endangered species. Depositing dredge spoil material in the Puget Sound allowed as a CUP for wildlife habitat improvements and correcting problems of material distribution that affect fish		
			resources. Table 20.230.081: Existing piers and docks associated with industrial use and public piers or docks are permitted. Expansion of existing piers or docks associated with water-oriented industrial use are conditionally permitted.		
			20.230.170: Piers and docks must include mitigation to ensure no net loss to critical saltwater habitat. Width of docks, piers, floats and lifts must be no wider than 6 feet unless authorized by WDFW		
			 and USACE. The length of docks and piers must be the minimum necessary to prevent grounding of floats and boats on the substrate during low tide. Decking shall have a minimum open space of 40% and after installation at least 60% ambient light beneath the structure shall be maintained. 20.230.175: Repair or replacement of 50% or more of an existing over-water deck structure must 		
			include the replacement of the entire decking with grated material to achieve a minimum open space of 40% and must result in at least 60% ambient light beneath the structure. Repair or replacement of		

Shoreline Segment & Existing Condition	Likely Future Development	Functions or Processes Potentially Impacted	Effects of SMP Provisions	Effect of Other Restoration Act
			less than 50% of the over-water deck structure must use grated decking in the area to be replaced.	
			 Table 20.230.081: New hard shoreline armoring is conditionally permitted. Soft-shore stabilization and maintenance of existing is permitted. 20.230.180B: New bulkheads allowed when there is serious erosion threatening an established use or existing primary use or when they are necessary for the operation and location of a water-oriented use. A new bulkhead can be constructed to retain landfill in conjunction with a water-dependent use, bridge/navigational structure, or for a wildlife/fish enhancement project. Bulkheads must use stable, nonerodable, homogeneous materials such as concrete, wood, and rock that are consistent with the preservation and protection of ecological habitat. 	
			 Table 20.230.081: Land Disturbing activities and landfill are permitted for activities associated with restoration or remediation, public access improvement, and allowed shoreline development. Landfilling waterward of the OHWM is conditionally permitted for activities associated with shoreline/aquatic restoration or remediation. 20.230.200.B: Land disturbing activities limited to minimum necessary for intended development. Tree and vegetation removal in required Native Vegetation Conservation Areas is prohibited. All significant trees in the Native Vegetation Conservation Areas shall be designated as protected trees consistent with existing development code standards (SMC 20.50.340) and removal of hazard trees is regulated pursuant to SMC 20.50.310(A)(1). 	
			and sedimentation control.	
			20.230.210.B: Landfill is allowed as a CUP for:	
			• Water-dependent use	
			Bridge/utility/navigational structure	
			Landfill perimeters must be designed with silt curtains, vegetation retaining walls or other methods to prevent material movement	
Point Wells Urb	an Conservancy			
Point Wells Urb Includes the southern portion of Segment A This area is in the City's Potential Annexation Area (PAA) and includes the Point Wells industrial port, a petroleum products storage, processing and distribution site.	As described under Point Wells Urban, the Point Wells property owner has indicated interest in redevelopment by petitioning a change to the Snohomish County Comprehensive Plan and zoning designations. However, this portion of segment A retains its Urban Industrial designation.	Similar to conditions described under Point Wells Urban, this property has been extensively modified. However, due to the lack of overwater structures, the presence of Lost Creek, and no hard armoring, some shoreline functions are present. The shoreline contains eelgrass meadows and kelp forests, forage fish spawning area, 31 species of shellfish, a sand and gravel flat, and habitat for shorebirds. Lost Creek provides for pocket estuary habitat. No change in shoreline functions is expected unless redevelopment occurs. Soil and groundwater contamination would be remediated and the nearshore habitat would be restored as mitigation for the redevelopment. A change to a higher land- use intensity and increased public access would likely disrupt wildlife and shore bird habitat.	 20.230.080: The purpose of the "Point Wells Urban Conservancy" environment is to distinguish between differing levels of potential and existing ecological function within the Point Wells environment, and regulate uses and public access requirements appropriately. SMP regulations and standards include: Table 20.230.082: A 115-foot vegetation conservation area is required for development in the Point Wells Urban Conservancy environment. The term "Native Conservation Area" (NVCA) applies to areas where the shoreline is not armored, such as the PWUC environment designation, and Richmond Beach Saltwater Park. NVCAs should be maintained in a predominantly natural, undisturbed, undeveloped, and vegetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "Building Setback" applies in areas where the railroad or bulkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hard-armored conditions, but further encroachment or vegetative clearing are not permitted. Table 20.230.081: In addition to uses and modifications prohibited in Point Wells Urban, boating facilities, breakwaters, jetties, groins and weirs, piers and docks, and new hard shoreline armoring, are also prohibited. 20.230.090-20.230.270: The regulations for nonresidential development, in-stream structures, recreational facilities, residential development, dredging, dredge material disposal, land disturbing activities, and landfilling for Point Wells Urban apply to Point Wells Urban apply to Point Wells Urban conservancy as well with the exception that recreational facilities are limited to low-intensity uses and passive uses and softshore stabilization is limited to those associated with utilities. 	Same as items ab Restoration Plan identifies a restor would @nhance the eliminate invasive and backshore vee intertidal lagoon. Welts Mitban, succ transport and dep processes, beach mineral particula wildlife habitat.

Development and vities / Programs	Net Effect
ove in Point Wells Urban. (2009): The restoration plans ation opportunity in Point Wells that ie shoreline by removing riprap dike, plants, reestablish native riparian getation, and create a three acre Similar to the restoration opportunity h actions would improve sediment osition, nearshore habitat forming erosion and accretion of sediments and ie material, and intertidal fish and	No Change Native Vegetation Conservation Areas are limited to areas that are not currently armored. Therefore, Building Setback applies to most areas within the city. Given the extent of armoring associated with the railroad, most impacts to existing vegetation are expected to be limited to railroad-related activities. However, such activities must comply with policies in the SMP that conserve vegetation in a manner that ensures no net loss.

Shoreline Segment & Existing Condition	Likely Future Development	<u>Functions or Processes</u> Potentially Impacted	Effects of SMP Provisions	Effect of Other D Restoration Activ
Urban Conserva	ncy			
Includes the northern portion of Segment B, portion of Segment C that is <u>Richmond Beach Saltwater</u> <u>Park, and Segment E.</u> <u>This area is characterized by several parks, public and private greenways, the Highlands residential neighborhood, and the Burlington Northern Santa Fe (BNSF) railroad right-of- way (ROW).</u>	Future development would likely be limited to redevelopment of existing single-family homes, few new residences, and park development. Development is inhibited by the presence of the BNSF ROW, landslide hazard areas, and streams and their associated greenways.	 Shoreline functions within this area are low to moderate, with the following functions moderately intact: Northern portion of Segment B has eelgrass meadows and kelp forests, a sand flat, forage fish spawning area, and a forested wetland at Barnacle Creek. The wetland provides some filtering of pollutants; however, it is narrow and east of the railroad grade. Richmond Beach Saltwater Park in Segment C provides some sediment transport function, attenuates wave energy although it is limited due to its length (alongshore) and narrow width, has some potential for large woody debris recruitment, and some vegetation, although it does not overhang the intertidal zone. Eelgrass meadows and kelp forests, forage fish spawning area, and 37 species of shellfish are present. Segment E contains eelgrass meadows and kelp forests, a sand flat, and the Boeing Creek outlet which serves as an important area for feeding, migration, spawning, and rearing of forage fish. Although the shoreline is modified by the BNSF railroad tracks, riparian vegetation is prevalent upslope of the tracks throughout the entire length of Segment E. This segment is also characterized by landslide hazard areas and has recently seen numerous slide activities. 	 20.230.080: The purpose of the "Urban Conservancy" environment is to protect, restore and manage relatively undeveloped or unaltered shorelines to maintain open space, floodplains or habitat, while allowing a variety of compatible uses. SMP regulations and standards include: Table 20.230.082: A 150-foot or 50-foot from the top of a landslide hazard area, whichever is greater, toggation conservation area is required for development in the Urban Conservancy environment. The term "Native Conservation Area" (NVCA) applies to areas where the shoreline is not armored, such as the PWUC environment designation, and Richmond Beach Saltwater Pyetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "Building Schack" applies in areas where the rainoad or builkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hard-armored conditions, but further encoachment or vegetative clearing are not permitted. The same regulations under 20.230.020, 20.230.030 and 20.230.040 for Point Wells Urban apply to Urban Conservancy as well. In addition, 20.230.020D requires properties located in the UC designation to retain trees that are 12 inches or more in diameter. Threes determined by a certified arborist to be hazardous or diseased may be removed. When healthy or non-hazardous trees are removed, cach removed tree must be replaced with at least three (3) sis-foot tall trees, or one (1) 12-foot plus one (1) six: foot tall trees pecies series expected, or equirated native tree species. Table 20.230.091:In addition to uses and modifications prohibited in Point Wells Urban, breakwaters, jetties, groins and weirs, nonresidential development, and industrial development are also prohibited. 20.230.090-20.230.270: The regulations for boat launching ramps, in-stream structures, recreational faclifties, residential development, redging, dredge material d	Same as items abor Restoration Plan identifies a restora all stream culverts friendly structures and allow opportu nearshore. Such ar habitat forming pr habitat A second restorati tidally influenced on the east side of pump station. Such habitat forming pr habitat and hydro functions. A third restoration the Richmond Bear Management Plan and reestablish na wetlands east of ra railroad. Such acti wetland and intert beach substrates. A fourth restoration stormwater quality func function, and fish A fifth restoration stormwater flow d to stabilize banks stream and extend Management Plan entire stream corri actions would imr

Development and ivities / Programs

Net Effect

ove in Point Wells Urban.

a (2009): The restoration plan ration opportunity that would replace s with larger box culverts or other fishs to allow fish access during low flows unity for more sediment to reach the actions would improve nearshore rocesses and intertidal fish and wildlife

tion opportunity would be to create wetland or restore wetland habitat f the BNSF railroad tracks NW of the ch actions would improve nearshore processes, intertidal fish and wildlife ologic, hyporheic and water quality

n opportunity would be to implement each Saltwater Park Vegetation n to remove non-native invasive plants ative plant communities within railroad and on beach area west of tions would improve freshwater rtidal wildlife habitat and stabilize

ion opportunity would be to protect nd their associated uplands adjacent nd develop and implement a gement plan for the Innis Arden tions would improve nearshore processes, hydrologic, hyporheic and ctions, riparian habitat structure and n and wildlife habitat.

n opportunity would be to reduce down steep slopes along Boeing Creek and control sediment loading of the d recommendations of Vegetation n for Boeing Creek Park to include ridor downslope to Puget Sound. Such prove exchange of aquatic organisms, to nearshore from fluvial sources, and particulate organic matter, tructure and function, freshwater input, life habitat.

n opportunity would be to protect d native vegetation communities Sound along Boeing Creek Reserve. Ild improve source of detritus and ic matter, riparian habitat structure I fish and wildlife habitat.

No Change

Native Vegetation Conservation Areas are limited to areas that are not currently armored. Therefore, Building Setback applies to most areas within the city. Given the extent of armoring associated with the railroad, most impacts to existing vegetation are expected to be limited to railroad-related activities. However, such activities must comply with policies in the SMP that conserve vegetation in a manner that ensures no net loss.

Shoreline Segment & Existing Condition	Likely Future Development	Functions or Processes Potentially Impacted	Effects of SMP Provisions	Effect of Other I Restoration Act
Waterfront Res	idential			
Includes the southern portion of Segment B, where the Richmond Beach residential neighborhood is located waterward of the BNSF ROW.	Future development would likely be limited to redevelopment of existing single-family homes and one or two new residences. Development is inhibited by shallow lots and limited vehicular access. Bulkheads likely to be maintained and replaced due to severe weather storms.	Shoreline functions are low in this portion of the Segment B. The bulkheads, some of which are below the mean high tide level, interrupt longshore transport of sediment, increase wave energy, and preclude the use of nearshore habitat for resting and foraging. Vegetation is limited to ornamental landscaping, including lawn areas. Because no significant new development is anticipated, new impacts are anticipated to be limited.	 20.230.080: The purpose of the "Waterfront Residential" environment is to distinguish between the residential portions of the coastline where natural and manmade features preclude building within the shoreline jurisdiction and the section along 27th Avenue NW where residential properties directly abut the Puget Sound. SMP regulations and standards include: Table 20.230.082: A 20-foot vegetation conservation area is required for development in the Waterfront Residential environment. The term "Native Conservation Area" (NVCA) applies to areas where the shoreline is not armored, such as the PWUC environment designation, and Richmond Beach Saltwater Park. NVCAs should be maintained in a predominantly natural, undisturbed, undeveloped, and vegetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "Building Setback" applies in areas where the railroad or bulkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hard-armored conditions, but further encroachment or vegetative clearing are not permitted. The same regulations under 20.230.020, 20.230.030 and 20.230.040 for Point Wells Urban apply to Waterfront Residential as well. Table 20.230.081: In addition to uses and modifications prohibited in Point Wells Urban, nonresidential development, industrial development, and breakwaters, jetties, groins and weirs are prohibited. 20.230.090-20.230.270: The regulations for boat launching ramps, in-stream structures, recreational facilities, residential development; and joint-use piers and docks are allowed in Waterfront Residential disposal, piers and docks are allowed in Waterfront Residential; and Iandfill in Waterfront Residential does not have to be limited to activities associated with restoration or remediation or public access improvement, but must still be associated with allowed shoreline development per 20.230.210.B.	Same as items ab Restoration Plat identifies restora are present, would additional traditional traditional replacement of eris- shore alternatives protect property in would improve sone arcshore habitant accretion of sedina and intertidal fish
<u>Shoreline</u> <u>Residential</u>				1
Includes the southern portion of Segment B, where the Richmond Beach residential neighborhood is located landward of the BNSF ROW.	Future development would likely be limited to redevelopment of existing single-family homes and few new residences. Development is inhibited by the presence of the BNSF ROW.	Shoreline functions are low in this portion of the segment due to the presence of the BNSF ROW and limited upland vegetation. Because no significant new development is anticipated, new impacts are anticipated to be limited.	 20.230.080: The purpose of the "Shoreline Residential" environment is to accommodate residential development and accessory structures that are consistent with this Shoreline Master SMF3Quations and standards include: Table 20.230.082: A 115-foot vegetation conservation area is required for development in the Shoreline Residential environment. The term "Native Conservation Area" (NVCA) applies to areas where the shoreline is not armored, such as the PWUC environment designation, and Richmond Beach Saltwater Park. NVCAs should be maintained in a predominantly natural, undisturbed, undeveloped, and vegetated condition, except where necessary to accommodate appurtenances to a permitted water-dependent use. The term "Building Setback" applies in areas where the railroad or bulkheads prohibit natural sediment transfer. In those areas, it is necessary to maintain hard-armored conditions, but further encroachment or vegetative clearing are not permitted. The same regulations under 20.230.020, 20.230.030 and 20.230.040 for Point Wells Urban apply to Shoreline Residential as well. Table 20.230.081: In addition to uses and modifications prohibited in Point Wells Urban, nonresidential development, industrial development, and breakwaters, jetties, groins and weirs are prohibited. 20.230.090-20.230.270: The regulations for boat launching ramps, in-stream structures, recreational facilities, residential as well, with the following exceptions: only joint-use launching ramps and joint-use piers and docks are allowed in Waterfront <u>Residential; and</u> landfill in Shoreline Residential does not have to be limited to activities associated with restoration or remediation or but must still be associated with allowed shoreline 	Same as items ab Restoration Plan identifies restorat stream culverts w friendly structure and allow opport nearshore. Such a habitat forming p habitat.

Development and ivities / Programs

Net Effect

ove in Point Wells Urban.

n (2009): The restoration plans tion opportunities that while residences Id protect intertidal area by limiting onal bulkheads or overwater structures et of shore armoring through xisting traditional bulkheads with softs, except where they are necessary to from high energy systems. Such actions ediment transport and deposition, t forming processes, beach erosion and ments and mineral particulate material, an and wildlife habitat. <u>No Change</u>

Native Vegetation Conservation Areas are limited to areas that are not currently armored. Therefore, Building Setback applies to most areas within the city. Given the extent of armoring associated with the railroad, most impacts to existing vegetation are expected to be limited to railroad-related activities. However, such activities must comply with policies in the SMP that conserve vegetation in a manner that ensures no net loss.

ove in Point Wells Urban.

n (2009): The restoration plan tion opportunities that would replace all with larger box culverts or other fishes to allow fish access during low flows unity for more sediment to reach the actions would improve nearshore processes and intertidal fish and wildlife

No Change

Native Vegetation Conservation Areas are limited to areas that are not currently armored. Therefore, Building Setback applies to most areas within the city. Given the extent of armoring associated with the railroad, most impacts to existing vegetation are expected to be limited to railroad-related activities. However, such activities must comply with policies in the SMP that conserve vegetation in a manner that ensures no net loss.

Shoreline Segment & Existing Condition	Likely Future Development	Functions or Processes Potentially Impacted	Effects of SMP Provisions	Effect of Other Development and Restoration Activities / Programs
			per 20.230.210B.	
<u>Aquatic</u>				
Includes all lands waterward of the marine ordinary high- water mark in the City of Shoreline. Areas designated Aquatic in the City of Shoreline are all areas within the tidal anderpen waters of the Puget Sound. The only area that has overwater structures is in Segment A, associated with the Point Wells development.	Hard armoring is expected to be maintained for the BNSF railroad ROW and the residential bulkheads located along Richmond Beach. New hard armoring could occur in Segment A although soft-shore stabilization methods would likely be utilized as mitigation for redevelopment. New overwater structures may occur at publicly owned properties, such as Richmond Beach Saltwater Park or in Segment A as part of redevelopment. Dredging may occur in Segment A but only as part of shoreline or aquatic restoration or remediation.	Existing functions and processes have been characterized above. Impacts are anticipated to be limited since no new significant development is anticipated. Any impacts would have to be mitigated.	 20.230.080: The purpose of the "Aquatic" environment is to protect, restore, and manage the unique characteristics and resources of the areas waterward of the ordinary high-water mark. SMP regulations and standards include: The same provisions under 20.230.020, 20.230.030 and 20.230.040 for Point Wells Urban apply to Aquatic as well. Table 20.230.081: Most allowed uses and modifications in this environment must meet the use and permit limitations of the upland designation. In addition to uses and modifications prohibited in Point Wells Urban, nonresidential development, industrial development, residential development, that shoreline armoring, and land disturbing activities are prohibited. 20.230.090-20.230.270: The regulations for boating facilities, breakwaters, jetties, groins and weirs, in-stream structures, recreational facilities, dredging, dredge material disposal, piers and docks and landfilling for Point Wells Urban apply to Aquatic as well, with the following exceptions: recreational facilities are limited to water-dependent and water-enjoyment and are conditionally permitted; landfilling is limited to activities associated with shoreline or aquatic restoration or remediation and is conditionally permitted; and piers and docks are only limited to the extent of the use and permit requirements of the upland designation. Table 20.230.081: Transportation facilities (railroads) are allowed. 20.230.081: Transportation facilities are prohibited in water body as a Shoreline Conditional Use. Landfilling activities for transportation facilities are prohibited in water body as a Shoreline Conditional Use. Landfilling activities for transportation facilities are prohibited in water body as a Shoreline transportation facilities shall be located and designed to avoid steep or unstable areas and fit the existing topograph	Same as items above in Point Wells Urba Restoration Plan (2009): The restoration identifies a restoration opportunity in Poi (Segment A) that would remove creosoted water debris. Such actions would improve sediment quality and intertidal fish and version A second restoration opportunity would be forage fish spawning, rearing, migration, areas and protect eelgrass beds and kelp be actions would improve food web suppord intertidal fish and wildlife habitat. A third restoration opportunity would be potential to restore the connection betwee bluffs and nearshore areas. Such actions improve sediment delivery to the nearshof improve sediment delivery to the nearshof A second restore the connection between bluffs and nearshore areas. Such actions improve sediment delivery to the nearshof A second restore the connection between bluffs and nearshore areas. Such actions improve sediment delivery to the nearshof A second restore the nearshof A second restore the connection between bluffs and nearshore areas. Such actions improve sediment delivery to the nearshof A second restore the connection between bluffs and nearshore areas. Such actions improve sediment delivery to the nearshof A second restore the connection between bluffs and nearshore areas. Such actions improve sediment delivery to the nearshof A second restore the connection between A second restore the connection between B second restore the connection between a

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on plans int Wells te pilings and inve water and wildlife habitat.

be to protect n, and feeding beds. Such rt and

e to explore the een feeder s would ore.

<u>No Change or</u> Potential Improvement

Substantial development is currently limited to Segment A in the aquatic environment. Any future in-water work would likely be associated with the Richmond Beach Saltwater Park and Point Wells. Any of these developments would have to mitigate impacts to ecological functions and achieve project-specific no net loss.

Redevelopment would require replacement with improved materials, and compliance with Critical Areas and Stormwater Regulations, HPA, and federal CWA. Improved stormwater management and bulkhead removal / improvement projects would also improve functions overtime.
<u>Appendix B</u> <u>Cumulative Impacts Analysis Addendum</u>

SEPA Environmental checklist (WAC 197-11-960)

March 2019

<u>Final</u>

<u>CITY OF SHORELINE</u> 2019 SHORELINE MASTER PROGRAM PERIODIC UPDATE <u>Cumulative Impacts Analysis Technical Addendum</u>

Prepared for City of Shoreline March 2019

ESA



<u>Final</u>

<u>CITY OF SHORELINE</u> 2019 SHORELINE MASTER PROGRAM PERIODIC UPDATE

Cumulative Impacts Analysis Technical Addendum

Prepared for City of Shoreline March 2019

<u>Prepared by</u> <u>Amanda Brophy</u> Reema Shakra

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Cumulative Impacts Analysis Addendum

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1. INTRODUCTION

In May 2013, the City of Shoreline (City) adopted an updated Shoreline Master Program (SMP) to comply with the Washington State Shoreline Management Act (SMA) and the state's shoreline guidelines. As part of the update effort, the City was required to evaluate the cumulative impacts of "reasonably foreseeable" future development to verify that the proposed policies and regulations for shoreline management are adequate to ensure *no net loss* of shoreline ecological functions. In 2012, the City completed an assessment of cumulative impacts from the SMP, and concluded that anticipated development and use occurring under the SMP would not result in cumulative impacts and would meet the no net loss standard (ESA Adolfson, 2012). A key component of protecting shoreline ecological functions under the adopted SMP was integration of the City's Critical Areas regulations (Shoreline Municipal Code Chapter 20.80) into the SMP documentation. The SMP incorporated the version of the critical areas regulations that was adopted in 2006.

The City completed a comprehensive update to critical areas regulations, with City Council adoption occurring on December 7, 2015. In an effort to maintain consistent standards and protections for critical areas throughout Shoreline, the City intends to incorporate the updated critical areas standards into the SMP. This will require an amendment to the SMP to incorporate the new critical area standards.

This document provides a planning level assessment of the potential cumulative impacts that would occur if the updated critical areas standards are incorporated into the SMP. The analysis is an addendum to the cumulative impact analysis (CIA) that was prepared in support of the SMP in 2012 (ESA Adolfson 2012). This addendum is limited in scope to focus only on the integrated critical area regulations as presented to the Planning Commission on January 17, 2019 and February 21, 2019. These critical area regulations are based on the City Council Final Critical Areas Development Code, Attachment A to Ordinance No. 723, adopted by City Council on December 7, 2015 but have been amended to apply within shoreline jurisdiction.

As with the 2012 CIA, this addendum is limited to cumulative impacts of reasonably foreseeable future development in areas subject to SMA jurisdiction. For the City of Shoreline, shorelines of the state include approximately 3.46 linear miles of the Puget Sound shoreline within the city and 0.65 linear miles of Puget Sound shoreline within the area commonly referred to as Point Wells, which is part of the City's potential future service annexation area.

1.1 Overview of Revisions

The 2013 SMP synthesizes the City's critical areas regulations (SMC 20.80), as adopted in 2006, with Washington State Department of Ecology (Ecology) best available science (BAS) guidance available in 2013. Critical areas standards for protection of geologic hazard areas, flood hazard areas, wetlands, fish and wildlife habitat conservation areas, stream areas, and critical aquifer recharge areas all apply within shoreline jurisdiction.

The City initiated the critical areas review process in 2015 and contracted with AMEC Foster Wheeler, who subcontracted with Wood Environment & Infrastructure Solutions, Inc. (Wood), to provide a new review of BAS for the geologic hazard areas section of the critical areas regulations. City staff relied on synthesis and guidance documents provided by Ecology to determine current BAS for the wetlands, streams, and fish and wildlife habitat sections of the critical areas regulations. The flood hazard areas and aquifer recharge areas sections of the critical areas regulations were not updated in the 2015 review process. Using Wood's geologic hazard recommendations and City staff recommendations based on BAS, as well as input from citizens and other stakeholders, the City developed a Proposed Critical Areas Ordinance Development Code Regulations Draft (dated October 2015) for City Council review. The City Council reviewed proposed critical areas amendments, made limited additional code revisions, and on December 7, 2015 adopted the new critical areas regulations.

This CIA addendum supports the City's 2019 SMP periodic review, which is required by Ecology. This is a minor update to address changes in state law as well as locally-identified issues. As part of the SMP periodic review, the critical areas regulations adopted by the City in 2015 will be integrated into the critical areas protections within the SMP. Some of the amendments would alter the standards for geologic hazard areas, streams, and fish and wildlife habitat areas, and wetlands – all of which play an important role in maintaining shoreline ecological functions. Revisions to the regulations that have the greatest potential effect on shoreline ecological functions are discussed in Chapter 4.

2. GENERAL SHORELINE CONDITIONS

The City's shoreline jurisdiction is composed of a variety of natural and man-made characteristics that include natural beaches, wooded slopes, single-family homes, the BNSF Railway, and in the potential future service annexation area of Point Wells, an industrial port. Point Wells, a 100-acre industrial site located directly north of the city along Puget Sound, is currently under Snohomish County jurisdiction and is a potential future service annexation area for the City of Shoreline

(City of Shoreline, 2012).

Key basin-wide and reach-specific circumstances affecting the City's shoreline are documented in the 2012 CIA (ESA Adolfson, 2012) and the *Shoreline Inventory and Characterization Report* (ESA Adolfson, 2010). Based upon a review of existing information, these circumstances have not changed substantially in the last seven years. Table 1 below describes the shoreline planning segments used in the *Shoreline Inventory and Characterization Report* (Figure 1). The segments are based broadly on the physical distinction along the shoreline, the level of ecological functions provided by each segment, as well as existing land uses and zoning designations.

- The BNSF Railway right-of-way (ROW) extends in a north-south direction along the entire length of the City's shoreline planning area. It is the most dominant land use in the shoreline, occupying 48 percent of the total shoreline planning area. Residential development occupies approximately 19 percent of the total shoreline planning area while Point Wells (in the potential future service annexation area), the only industrial property located along the Puget Sound shoreline, occupies approximately 20 percent. The remaining land uses are parks and open space (8 percent) and vacant properties (2 percent).
 - <u>Public access opportunity is provided at Richmond Beach Saltwater Park in</u> <u>Segment C, Kayu Kayu Ac Park, in Segment B, and Innis Arden Reserve in</u> <u>Segment E.</u>
 - <u>Blue Heron Reserve (Segment C), Coyote Reserve (Segment D) and Boeing</u>
 <u>Creek Reserve (Segment E) are privately owned. No public shoreline access is</u>
 <u>permitted from these reserves along the bluff.</u>
- There are no existing docks, piers, or over-water structures along Puget Sound within the city limits. Point Wells contains a large industrial dock used for both import and export of materials to and from the facility.
- In the city, coastal bluffs are separated from the shoreline by the BNSF Railway, thus completely removing bluff sediment sources. These shore modifications also preclude net shore-drift along the Puget Sound. A small amount of sediment is delivered by fluvial sources (streams) in the city, although this process is also impaired by culvert systems and the BNSF Railway. Forage fish spawning still occurs at these limited points of sediment input.

- Clearing of vegetation along the marine shoreline for the BNSF Railway construction and maintenance, residential uses, bulkheads and other shoreline armoring has resulted in a lack of large woody and organic debris available for recruitment to the marine system. The lack of debris in turn affects the stability of the beaches as the presence of beach logs and debris can reduce erosion by dissipating wave energy and trapping sediment. Large woody debris also provides thermoregulation of sediment for spawning forage fish and detritus recruitment.
- The Puget Sound nearshore environment is a highly productive zone that provides habitat for a variety of aquatic and terrestrial species. Important documented features of the city's nearshore that provide habitat include:
 - <u>Banks</u>, bluffs, beaches and backshore (sediment sources, substrate, and storm berms);
 - <u>Tidal flats (intertidal or shallow subtidal areas used by juvenile salmonids, shorebirds, and shellfish);</u>
 - <u>Eelgrass meadows and kelp forests (feeding and rearing habitat for wide variety of marine organisms); and</u>
 - <u>o</u> Stream mouths and pocket estuaries (fish and wildlife corridors and source of fluvial sediment to nearshore).
- Within the City's shoreline planning area, there are seven streams that feed into the Puget Sound: an unnamed tributary of Barnacle Creek in Segment A; Barnacle Creek and Lost Creek in Segment B; Storm Creek in Segment C; Blue Heron Creek in Segment D; and Coyote Creek, Boeing Creek, and Highlands Creek in Segment E.

<u>Shoreline</u> Segment	<u>Approximate</u> Length (feet)	<u>Approximate</u> Segment Acreage	General Boundaries		
Δ	<u>3,579</u>	15.6	Potential Future Service Annexation Area / Point Wells:		
-		<u>15.0</u>	unincorporated Snohomish County.		
B	<u>4,551</u>	4,551 21.7 Richmond Beach residential area: the Snohomish Count line south to Richmond Beach Saltwater Park.			
<u>c</u>	C 2,659 21.6 D 1,128 5.7		Richmond Beach Saltwater Park south to Storm Creek culvert.		
D			Innis Arden residential area: south of Richmond Beach Saltwater Park to Innis Arden Reserve Park		
Ē	<u>9,286</u>	<u>44.1</u>	Innis Arden Reserve / Highlands: Innis Arden Reserve Park south to city limits.		

Table 1. Shoreline planning segments

The following data sources were consulted to see if ecological changes occurred since the preparation of the City's 2010 Shoreline Inventory and Characterization.

The National Oceanic and Atmospheric Administration's Coastal Change Analysis Program (C-CAP) Land Cover Atlas was used to find the change in impervious surface in the city's shoreline planning area. The data is acquired from 30 meter Landsat imagery. No change in the amount of

impervious surface (high, medium, low intensity development) occurred in the shoreline planning area between 2011 and 2016 (NOAA 2011, 2016). No land use data was available for 2008.

Biodiversity corridors are documented within Innis Arden Reserve Park and Boeing Creek Reserve that were not previously identified in the Shoreline Inventory and Characterization Report (WDFW PHS, 2019). Boeing Creek Reserve is now recognized for including a large stand of old growth forest, a forested riparian corridor, shrub-savannah habitat, and marine shoreline. Innis Arden Reserve Park is now included as a biodiversity corridor for the variety of forested, wetland and riparian habitat present. Biodiversity corridors is a new Priority Habitat and Species (PHS) designation developed by WDFW to recognize large undeveloped habitat patches and open spaces as part of planning and building habitat corridors (WDFW, 2009). The updated critical areas standards include biodiversity areas and corridors in Innis Arden Reserve Park and Boeing Creek as state priority habitats (SMC 24.240.270.B.2).

In 2015, Washington Department of Fish and Wildlife mapped the presence of a great blue heron rookery within the city's shoreline just south of Richmond Beach Saltwater Park (WDFW PHS, 2019). The bald eagle nesting area and buffer present near Point Wells in 2008 is no longer mapped as a Priority Habitat and Species area (ESA Adolfson, 2008; WDFW, 2019). While bald eagle nests are still protected under the Migratory Bird Treaty Act and through US Fish and Wildlife Service guidelines, nest locations are no longer tracked or documented by state wildlife biologists.

Coho salmon and coastal cutthroat have been known to use Boeing Creek for breeding and this did not change between 2008 and 2019 (WDFW PHS, 2019). Documented presence of salmonids and forage fish using the Puget Sound nearshore did not change between 2008 and 2019 (ESA Adolfson, 2008; NOAA. 2019; WDFW, 2019). Eelgrass was sampled in 2015 which showed that native eelgrass remains stable and continuous along the shoreline (WDNR, 2015; WDNR, 2019). Kelp forests are mapped as remaining present along the shoreline (WDNR, 2019). Mapped presence of geoduck shifted slightly south between 2008 and present. Geoduck presence now begins at the top of Segment E where it occurred from Segment B to Segment C in 2008

(WDFW, 2019). No change in Dungeness crab presence occurred between 2008 and present (WDFW, 2019).

The City relies on the National Wetland Inventory data and maintains a separate wetland inventory at the local level viewed on the City's Property Information Interactive Map. Two wetlands were identified by Ecology along either side of the railway alignment in Segment C at Richmond Saltwater Beach Park between 2008 and present (City of Shoreline, 2019).

ESA Adolfson (2008) reported that the ShoreZone Inventory stated 97 percent of the City's shoreline was modified, mostly associated with the BNSF railroad bed (WDNR, 2001). The current Coastal Atlas Map uses WDNR data from 2000 to show approximately 85 percent of the City's shoreline as modified (Ecology, 2019). Although there is a discrepancy between the amount of shoreline modification in the city between 2008 and present, it is clear there has not been an increase in modification along the shoreline. It is possible that ESA Adolfson

inaccurately reported the 97 percent shoreline modification or the amount of modification along the shoreline was re-evaluated by WDNR.

3. <u>REASONABLY FORESEEABLE FUTURE</u> <u>DEVELOPMENT</u>

Reasonably foreseeable future development in the City's shoreline jurisdiction is generally unchanged since preparation of the City's original CIA in 2012. The only uses that presently occur within shoreline jurisdiction are transportation (including railroad), single-family residences, park or public recreation (on public and private park lands), and utility facilities. Future development is likely to maintain these uses, with no industrial, commercial or mixed uses expected within the city limits in the foreseeable future.

Minimal new shoreline residential development or significant redevelopment has occurred over the last seven years (since the 2012 CIA). There is one lot that was replatted and a new duplex was constructed on the lot (Table 2). Seven other existing residential single family homes completed additions or remodels; all seven are located in Segment B. Table 2 identifies the number of vacant properties present in the City's shoreline jurisdiction and Future Service Annexation Area in 2012 and the number of properties that underwent remodels or additions by shoreline segment.

Table 2. General land use characteristics of shoreline properties on the Puget Sound sl	horeline
within City of Shoreline limits and potential annexation area of Point Wells	

Charoline	<u>Total</u> <u>Number</u> <u>of</u> <u>Parcels</u>	2012 Vacant Parcels		<u>Change: 2012 - 2019</u>			Shoreline Parks and Open Spaces
Segment		<u>Number</u>	<u>% of</u> total	<u>New</u> Development <u>(#)</u>	Remodel/ Addition (#)	<u>% of</u> total	
<u>A</u>	<u>7</u>	<u>2</u>	0.1	<u>0</u>	<u>0</u>	<u>0</u>	None
B	84	9	3.4	<u>1</u>	<u>7</u>	4.5	<u>Kayu Kayu Ac Park (public)</u>
<u>C</u>	<u>20</u>	<u>4</u>	<u>3.4</u>	<u>0</u>	<u>0</u>	<u>0</u>	Richmond Beach Saltwater Park (public); Storm Creek Reserve
D	<u>17</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	<u>0</u>	(private) on Reserve (private)
<u>E</u>	<u>38</u>	<u>9</u>	<u>3.7</u>	<u>0</u>	<u>0</u>	<u>0</u>	Innis Arden Reserve (public); Boeing Creek Reserve (private)

Source: King County, 2019; City of Shoreline, 2019

Houses on existing single-family lots could continue to grow larger through additions; however, zoning density restrictions, the presences of steep slope and landslide hazard areas located throughout portions of Segments B-E, and covenants restricting redevelopment in the Innis Arden and Highlands neighborhoods constrain opportunities for additions, making expansion of existing building footprints less likely. Furthermore, the BNSF Railway restricts development potential because vehicular access across the BNSF tracks is limited. Therefore, general patterns of anticipated future development remain consistent with the 2012 CIA.

Point Wells is the only property that may undergo a major redevelopment. Development of the City's existing SMP began years before its final approval in 2013. At the start of this process, Point Wells was designated and zoned by Snohomish County as Industrial. This changed in 2009/2010 when Snohomish County redesignated and rezoned Point Wells from Industrial to an

Urban Center. Under Snohomish County's regulations, an Urban Center provides for mixeduse, dense development that could produce upwards of 2.6 million square feet of residential and commercial development. The City has included Point Wells as a Future Service Annexation Area and adopted a subarea plan to establish a less intense vision for the site.

In 2012, Snohomish County removed the Urban Center designation and zoning, reducing it to the Urban Village designation with Planned Community Business zoning. Under an Urban Village designation, the site has the potential to develop at least 1,800 residential units, 20,000 square feet of retail, and 115,000 square feet of office space. However, in 2011, prior to reducing the designation and zoning of the site, a developer submitted applications and became vested to the Urban Center designation.

Snohomish County stopped processing the developer's applications in 2018, effectively terminating an Urban Center development at Points Wells, after more than 7 years of review time. The developer appealed Snohomish County's decision to King County Superior Court, which was recently denied. Thus, at this point it is unknown whether such an intense mixed use development could be built at Point Wells. At the minimum, development consistent with an Urban Village designation is still possible. As stated in the 2012 CIA, if Point Wells were to redevelop, soil and groundwater contamination would be remediated and the nearshore habitat would be restored as mitigation for the redevelopment

4. <u>POTENTIAL IMPACTS OF REVISED</u> <u>STANDARDS</u>

This chapter describes the substantial changes made to the 2006 critical area standards as part of the 2015 update. A discussion of the potential effect on shoreline ecological function is also provided. The critical areas regulation language as presented to the Planning Commission is attached to this addendum in strikethrough / underline format for each topic that is described (see Appendix A). Outside of these major critical areas standards revisions no other substantial changes to the SMP have been evaluated.

4.1 Combine Streams with Fish & Wildlife Habitat section

The City updated the critical areas standards to combine the stream critical areas section with the fish and wildlife critical areas section based on the state model code provisions. Streams and other "waters of the state" are a type of fish and wildlife habitat as defined by the Washington Administrative Code (WAC). This amendment is consistent with state guidance for fish and wildlife habitat protection (CTED, 2007). This change is outlined in Section 20.240.270.

See A-1 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for Fish and Wildlife Habitat.

Likely Effects on Shoreline Ecological Functions

The updated approach will have no effect on shoreline ecological functions. As long as streams and fish and wildlife habitat critical areas are regulated by local jurisdictions, there will be no particular positive or negative impacts to protections of streams or fish and wildlife habitat by integrating the two critical area types.

4.2 Adopt State Water Typing System

State agencies such as Washington Department of Fish and Wildlife (WDFW) and Ecology recommend use of the Washington State Department of Natural Resources (WDNR) stream typing system in Title 222 WAC, the forest practices regulations. The latest stream typing by WDNR classifies streams into Type S (shoreline), Type F (fish-bearing), Type Np (non-fishbearing, perennial flow) and Type Ns (non-fish-bearing, seasonal flow). The City updated their water typing system to the State Water Typing System. This change resulted in a 10-foot buffer increase for Type Ns habitat streams. This change is outlined in Section 20.240.270(B) (5).

Likely Effects on Shoreline Ecological Functions

This update provides a consistent system that maintains a basis in key physical and ecological differences across streams. The system identifies whether or not streams are used by fish and whether or not they experience perennial or seasonal flow, which is important for protecting

ecological functions of the stream and shoreline. Although the City's previous typing system was an outdated state stream typing system, the updated approach will have no effect on shoreline ecological functions as the protections (such as buffer requirements for each stream type) were nearly the same.

See A-1 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for stream typing.

4.3 Development Allowances in Separated and Isolated Stream and/or Wetland Buffer

This update addresses sites where existing, legally established roadways, railroads, paved areas, or other structures occur between the site and the stream and/or wetland. Development proposals are allowed in buffer areas isolated by roads or constructed features, if a critical area report determines and the Director of Community Development concurs, that it is a physically separated and functionally isolated stream and/or wetland buffer. This updated language is outlined in Section 20.240.280(D)(6) and 20.240.330(G)(10).

Likely Effects on Shoreline Ecological Functions

Riparian and wetland buffers offer various ecological functions, such as providing shade to the stream in summer and serving as sources of large woody debris. These functions can only exist if the buffer abuts and lies adjacent to the stream or wetland critical area. Physical separation of a stream or wetland from its buffer by an existing road, railroad, or paved area eliminates the protective function of the buffer for the critical area. Therefore, an allowance for development in separated or functionally isolated streams or wetland buffers will have no effect on shoreline ecological functions.

See A-2 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for development in stream and wetland buffers that are separated or isolated from the development.

4.4 Updated Wetland Rating and Buffer Standards

The City updated the wetland rating standards to be consistent with the Ecology 2014 Wetland Rating System for Western Washington. The updated wetland rating standards, found in Section 20.240.320(B), include the wetland rating manual scoring range (i.e., between 9 and 27 under the updated manual versus 1 to 100 in the 2004 manual) that is based on a qualitative scale of functions from high, medium, or low. Wetland buffer widths were updated to be consistent with state guidance and offer both a combined fixed-width and variable-width approach, with a minimum buffer prescribed based on a wetland's category and an additional buffer based on increasing habitat points (Bunten et al., 2016; "Table XX.1" revised July 2018). The City also updated mitigation ratios in Table 20.240.350(G) based on the type of compensatory mitigation being performed as recommended by current BAS (Bunten et al., 2016).

The updated wetland standards simplify and standardize the mitigation and buffer requirements for projects that need approval at the local and state or federal level.

Likely Effects on Shoreline Ecological Functions

Wetlands in Washington State – Vol. 1 A Synthesis of the Science (Sheldon et al., 2005) confirmed that buffers perform an important water quality function by trapping pollutants before they reach a wetland and can serve as critical habitat for some species in uplands surrounding wetlands and streams. The updated buffer table includes habitat scores and emphasizes the requirement to provide wildlife corridors which may provide additional protection for shoreline ecological functions.

A successful mitigation project often requires the amount of mitigation to be larger than the impact being mitigated for. The updated mitigation ratios will be beneficial to the shoreline as they make up for the spatial and temporal loss of functions associated with development.

See A-3 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for wetlands.

4.5 Clarified Report Content Requirements for Assessment of Geological Characteristics

The City clarified that geotechnical reports (now referenced as hazards assessments) include an evaluation of the geologic characteristics of the soils, sediments, and/or rock of the project area and potentially affected adjacent properties, and a review of the site history regarding landslides, erosion, and prior grading. The revised requirements outlined in SMC Section 20.240.240(D) encourage use of BAS when evaluating geological hazard areas.

Likely Effects on Shoreline Ecological Functions

<u>Clarified report requirements guarantee clear and standardized implementation of regulations.</u> <u>The assessment of geological characteristics also requires applicants to conduct site-specific</u> <u>tests, evaluate historic and existing conditions, and evaluate vulnerability of the site to seismic or</u> <u>other geologic events based on scientifically valid methods. Ultimately, this update ensures better</u> <u>protection of shoreline ecological functions.</u>

See A-4 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for hazards assessments.

4.6 Standards for Very High Risk and Moderate to High Risk Landslide Hazard Areas

According to the updated geologically hazardous areas regulations, alteration in very high risk landslide hazard areas or associated 50-foot buffers may be permitted with geotechnical analysis and recommendations, assuming consistency with code requirements and design criteria. Buffers for moderate to high risk landslide hazard areas are based on a recommendation by a qualified geotechnical professional (with potential for no buffer), rather than providing a minimum buffer. The qualified professional would also recommend any additional setbacks for buildings and stormwater facilities adequate to certify no increase in the risk of the hazard. The revision to these standards, summarized in SMC Sections 20.240.224 (E) and 20.240.230 (D), was evaluated by AMEC Foster Wheeler and approved by Ecology during the City's 2015 Critical Areas Ordinance update (AMEC Foster Wheeler, 2015; City of Shoreline, 2015a).

Likely Effects on Shoreline Ecological Functions

Geologic hazards standards are designed to reduce risks to human health and safety. The updated standards will continue to focus on the protection of life and property. Alteration to and development on coastal feeder bluffs may reduce the potential of these areas to provide sediment delivery to coastal zones, potentially disrupting natural coastal beach accretion. However, the bluffs within the city are somewhat isolated from the shoreline because of the presence of the BNSF railway and associated shoreline armoring, altering the natural delivery of bluff sediment sources.

To better understand the implication of these changes on coastal feeder bluffs, ESA completed a parcel analysis using the City's GIS data for geohazards to identify potential future development in very high risk landslide hazard areas, and moderate to high risk landslide hazard areas. Based on the parcel analysis, a large portion of the parcels within the City's shoreline jurisdiction are within mapped landslide hazard areas (Table 3). Most of the parcels are already developed with residential uses. The majority of the undeveloped parcels within landslide hazard areas are located on the upland side of the BNSF railway. Many of these undeveloped parcels are too narrow to provide sufficient area for new development.

Developed parcels within landslide hazards areas that are located on large lots could have the potential for more extensive additions or, in a few cases, subdivisions. These large parcels are mainly located in the Highlands and Innis Arden neighborhoods. The Innis Arden neighborhood maintains covenants that include a number of mechanisms that limit the potential for subdivision, including access and setback standards (Innis Arden 3, 1949). The Highlands neighborhood also maintains covenants that limit the potential for subdivision, including minimum lot size standards and minimum lot area with a slope less than 20 percent (Amended By-laws of the Highlands, 2017). Although these covenants are not administered or enforced by the City of Shoreline, they serve to constrain the development potential of large lots within landslide hazard areas.

Mapped Landslide Hazard Areas	<u>Total</u> Parcels (#)	<u>Total Area</u> (Acres)	<u>Undeveloped</u> <u>Parcels (#)</u>	Undeveloped Parcels (% of total parcels in shoreline jurisdiction)
Very High Risk + 50-foot Buffer	<u>97</u>	<u>71.4</u>	<u>11</u>	<u>7.6</u>
Moderate to High Risk (no buffer)	<u>62</u>	<u>5.1</u>	<u>4</u>	<u>2.8</u>
Parcels without Landslide Hazard Areas	<u>19</u>	<u>31.5</u>	<u>9</u>	<u>13.2</u>

Table 3. Parcels within landslide hazard areas in shoreline jurisdiction

Source: City of Shoreline, 2015; King County, 2014

Due to the requirements for a detailed geologic hazard analysis by a qualified geotechnical expert and the low potential for foreseeable future development within the very high and moderate to

high risk landslide areas, it appears that the changes to the regulations will not result in an overall net loss of shoreline ecological functions.

See A-4 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for Landslide Hazard Areas.

4.7 General Critical Areas Standards

New critical areas report standards outlined in SMC Sections 20.240.040, 20. 240.080 and 20.240.082 must address several topics including: reconnaissance, delineation, analysis, mitigation, and maintenance and monitoring. Contents should include general project information, such as names, location, and site plan, as well as critical areas characterization, impacts, and mitigation plan. Geologic hazards, fish and wildlife habitat, and wetlands each have critical areas report requirements specific to the type of assessment being conducted and mitigation plan requirements specific to the type of impact. Along with the new critical areas report standards, the City requires third-party review of critical areas reports by a qualified professional when the project requires a shoreline variance application or when it is required by the shoreline provisions or Director of Community Development.

Likely Effects on Shoreline Ecological Functions

Detailed report, allowed activities, and review process standards guarantee clear and standardized implementation of regulations. These standards also require applicants to evaluate the condition and function of each critical area based on scientifically valid methods. Ultimately, this update ensures better protection of shoreline ecological functions.

See A-5 of Appendix A for redline/strikeout versions of City adopted critical areas standards revisions for new overall critical areas standards.

5. INTEGRATED CRITICAL AREAS PROVISIONS AND NO NET LOSS

As with the 2012 CIA, this analysis was guided by the three factors identified in the Ecology guidelines for evaluating cumulative impacts and no net loss:

- Current circumstances affecting the shorelines and relevant natural processes;
- Reasonably foreseeable future development and use of the shoreline; and
- Beneficial effects of any established regulatory programs under other local, state, and <u>federal laws.</u>

Existing shoreline conditions and relevant natural processes are consistent with those documented in the 2012 CIA with the exception of biodiversity corridors mapped within Innis Arden Reserve Park and Boeing Creek Reserve and the heron rookery south of Richmond Beach Saltwater Park that were not previously identified in the Shoreline Inventory and Characterization Report. Development proposals within State Priority Habitats and Species areas, such as biodiversity corridors and heron rookeries, are required to prepare a critical areas report and habitat management plan to assess potential impacts and propose mitigation measures. Likewise, reasonably foreseeable future shoreline development and use is generally the same. The adopted critical areas regulation changes, once integrated into the SMP, will maintain protection of shoreline ecological functions.

<u>Several critical areas standards revisions clarify approaches to critical areas mitigation and</u> protection—namely by revising the wetland buffer widths, wetland mitigation ratios, and critical areas report standards. The updated wetland buffer table emphasizes the requirement to provide wildlife corridors that may provide additional protection for shoreline ecological functions. A successful mitigation project often requires the amount of mitigation to be larger than the impact being mitigated for, which is beneficial to the shoreline. Detailed report standards require applicants to evaluate the condition and function of each critical area based on scientifically valid methods. These amendments would improve protection of shoreline ecological functions.

Geologic hazards standards revisions do not include a requirement to assess the functions associated with coastal bluffs which typically positively contribute towards the shoreline ecosystem. However, the bluffs where landslide hazards occur within the City's shoreline jurisdiction are somewhat isolated from the nearshore because of the presence of the BNSF railway bed and associated armoring. Development potential is limited within these landslide hazard areas due to the limited number of vacant parcels and covenants associated with the Innis Arden and Highlands neighborhoods that limit the potential for subdividing large, developed properties. Therefore, geologic hazard standards would result in no net loss of shoreline ecological functions from development. Conclusions on the future performance of key shoreline functions as a result of the incorporation of the revised critical area standards are summarized as follows:

Hydrology: Loss in hydrological function from baseline is not expected; anticipated change from the current adopted SMP with previous critical areas standards are neutral. In most areas along the City's shoreline, modifications and development have resulted in alterations to natural hydrological functions. The updated critical areas standards would not change major protections for remaining hydrologic functions that are provided by the SMP.

Water Quality: No loss in water quality is expected. The program and critical areas revisions include many criteria to ensure that potential impacts from any allowed development are avoided or minimized.

Habitat: No loss in habitat functions is expected. Habitat elements such as riparian vegetation, associated wetland and tributary stream connectivity, and organic contributions have been altered along the City's shoreline, while localized areas of high value, intact habitat remain (Boeing Creek Reserve and Innis Arden Reserve Park). Additionally, mitigation of any wetland impact would be improved by new buffer and mitigation provisions pursuant to the updated critical areas standards.

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SOURCE: City of Shoreline, 2019; ESA, 2019; King County, 2018

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Figure 1 City of Shoreline Shoreline Planning Segments Shoreline, Washington



Excerpts of proposed SMC 20.240 SMP Critical Areas

A-1 Fish & Wildlife Habitat Critical Areas Section

Revised Critical Areas sections combining streams with fish and wildlife habitat and adopted State Water Typing system.

20.240.270 Fish and wildlife habitat – Classification and designation.

A. The City designates the following fish and wildlife habitat conservation areas that meet one or more of the criteria in subsection B of this section, regardless of any formal identification, as critical area, and, as such, these areas are subject to the provisions of this chapter. These areas shall be managed consistent with best available science; including WDFW's Management Recommendations for Priority Habitat and Species. The following fish and wildlife habitat conservation areas are specifically designated, and this designation does not preclude designation of additional areas as consistent with the criteria in subsection B of this section:

1. All regulated streams and wetlands and their associated buffers as determined by a qualified specialist.

2. The waters, bed and shoreline of Puget Sound up to the OHWM.

B. Fish and wildlife habitat conservation areas are those areas designated by the City based
 on review of the best available science; input from WDFW, the Department of Ecology,
 USACE, and other agencies; and any of the following criteria:

1. Areas Where State or Federally Designated Endangered, Threatened, and Sensitive Species Have a Primary Association.

a. Federally designated endangered and threatened species are those fish and wildlife species identified by the U.S. Fish and Wildlife Service and the National Marine
Fisheries Service that are in danger of extinction or threatened to become endangered.
The U.S. Fish and Wildlife Service and the National Marine Fisheries Service should
be consulted for current listing status. Federally designated endangered and threatened
species known to be identified and mapped by the Washington State Department of
Wildlife in Shoreline include, but may not be limited to, the following:

i. Chinook (Oncorhynchus tshawytscha);

ii. Southern resident orca or killer whales (Orcinus orca).

b. State designated endangered, threatened, and sensitive species are those fish and wildlife species native to the State of Washington that are in danger of extinction, threatened to become endangered, vulnerable, or declining and are likely to become endangered or threatened in a significant portion of their range within the State without cooperative management or removal of threats as identified by WDFW. State designated endangered, threatened, and sensitive species are periodically recorded in WAC 232-12-014 (State endangered species) and WAC 232-12-011 (State threatened and sensitive species), as amended from time to time. WDFW maintains the most current listing and should be consulted for current listing status. State designated endangered, threatened, and sensitive species known to be identified and mapped by WDFW in Shoreline include, but may not be limited to, the following:

i. Northern goshawk (Accipiter gentilis);

ii. Purple martin (Progne subis).

2. State Priority Habitats and Species. Priority habitats and species are considered to be priorities for conservation and management. Priority species require protective measures for their perpetuation due to their population status, sensitivity to habitat alteration, and/or recreational, commercial, or tribal importance. Priority habitats are those habitat types or elements with unique or significant value to a diverse assemblage of species. A priority habitat may consist of a unique vegetation type or dominant plant species, a described successional stage, or a specific structural element. Priority habitats and species are identified by WDFW in the Priority Habitats and Species List. Priority habitats and species known to be identified and mapped by WDFW in Shoreline include, but may not be limited to, the following:

a. Biodiversity areas and corridors identified and mapped along Boeing Creek and in and around Innis Arden Reserve Park;

b. Chinook/fall chinook (Oncorhynchus tshawytscha);

c. Coho (Oncrhynchus kisutch);

- d. Dungeness crab (Cancer magister);
- e. Estuarine intertidal aquatic habitat;
- f. Geoduck (Panopea abrupta);
- g. Northern goshawk (Accipiter gentilis);
- h. Pacific sand lance (Ammodytes hexapterus);
- i. Purple martin (Progne subis);
- j. Resident coastal cutthroat (Oncorhynchus clarki);
- k. Surf smelt (Hypomesus pretiosus); and
- 1. Winter steelhead (Oncorhynchus mykiss).

3. Commercial and Recreational Shellfish Areas. These areas include all public and private tidelands or bedlands suitable for shellfish harvest, including shellfish protection districts established pursuant to Chapter 90.72 RCW, as amended from time to time.

4. Kelp and eelgrass beds and herring and smelt spawning areas.

5. Waters of the State. Waters of the State include lakes, rivers, ponds, streams, inland waters, underground waters, salt waters, and all other surface waters and watercourses within the jurisdiction of the State of Washington, as classified in WAC 222-16-030, as amended from time to time. Streams are those areas where surface waters produce a defined channel or bed, not including irrigation ditches, canals, storm or surface water runoff devices or other entirely artificial watercourses, unless such watercourses are used by fish or are used to convey streams naturally occurring prior to construction. A channel or bed need not contain water year-round; provided, that there is evidence of at least intermittent flow during years of normal rainfall. Streams shall be classified in accordance with the DNR water typing system (WAC 222-16-030) hereby adopted in its entirety by reference and summarized as follows:

a. Type S: streams inventoried as "shorelines of the State" under the SMA and the rules promulgated pursuant to the SMA, as amended from time to time;

b. Type F: streams which contain fish habitat. Not all streams that are known to exist with fish habitat support anadromous fish populations, or have the potential for anadromous fish occurrence because of obstructions, blockages or access restrictions resulting from existing conditions. Therefore, in order to provide special consideration of and increased protection for anadromous fish in the application of development standards, shoreline streams shall be further classified as follows:

i. Anadromous Fish-Bearing Streams (Type F-Anadromous). These streams include:

(A) Fish-bearing streams where naturally recurring use by anadromous fish populations has been documented by a government agency;

(B) Streams that are fish passable or have the potential to be fish passable by anadromous populations, including those from Lake Washington or Puget Sound, as determined by a qualified professional based on review of stream flow, gradient and natural barriers (i.e., natural features that exceed jumping height for salmonids), and criteria for fish passability established by WDFW; and

(C) Streams that are planned for restoration in a six-year capital improvement plan adopted by a government agency or planned for removal of the private dams that will result in a fish-passable connection to Lake Washington or Puget Sound; and

ii. Nonanadromous Fish-Bearing Streams (Type F-Nonanadromous). These include streams which contain existing or potential fish habitat, but do not have the potential for anadromous fish use due to natural barriers to fish passage, including streams that contain resident or isolated fish populations.

The general areas and stream reaches with access for anadromous fish are indicated in the City of Shoreline Stream and Wetland Inventory and Assessment (2004) and basin plans. The potential for anadromous fish access shall be confirmed in the field by a qualified professional as part of a critical area report;

c. Type Np: perennial nonfish habitat streams;

d. Type Ns: seasonal nonfish habitat streams; and

e. Piped stream segments: those segments of streams, regardless of their type, that are fully enclosed in an underground pipe or culvert.

A-2 Physically Separated and Functionally Isolated Stream and/or Wetland Buffer

Revised Critical Areas section allowances for development in stream and wetland buffers that are separated or isolated from the development.

20.240.280 Fish and wildlife habitat – Required buffer areas.

6. Development Proposals within Physically Separated and Functionally Isolated Stream Buffers. Consistent with the definition of "buffers" (SMC 20.20.012), areas that are functionally isolated and physically separated from stream due to existing, legally established roadways and railroads or other legally established structures or paved areas eight feet or more in width that occur between the area in question and the stream shall be considered physically isolated and functionally separated stream buffers. Once determined by the Director, based on a submitted critical area report to be a physically separated and functionally isolated stream buffer, development proposals shall be allowed in these areas.

20.240.330 Wetlands – Required buffer areas.

10. Development Proposals within Physically Separated and Functionally Isolated Wetland Buffers. Consistent with the definition of "buffers" (SMC 20.20.012), areas that are functionally isolated and physically separated from wetland due to existing, legally established roadways, paved trails eight feet or more in width, or other legally established structures or paved areas eight feet or more in width that occur between the area in question and the wetland shall be considered physically isolated and functionally separated wetland buffers. Once determined by the Director, based on a submitted critical area report to be a physically separated and functionally isolated wetland buffer, development proposals shall be allowed in these areas.

A-3 Wetland Standards

<u>Revised Critical Areas section allowances for development in stream and wetland buffers</u> that are separated or isolated from the development..

20.240.320 Wetlands – Designation and rating.

A. **Designation.** All areas meeting the definition of a wetland and identification criteria as wetlands pursuant to SMC 20.240.322, regardless of any formal identification, are hereby designated critical areas and are subject to the provisions of this chapter.

B. **Rating.** All wetlands shall be rated by a qualified professional according to the current Department of Ecology wetland rating system, as set forth in the Washington State Wetland Rating System for Western Washington 2014 (Department of Ecology Publication No. 014-06-029, or as revised). Wetland rating categories shall be applied as the wetland exists on the date of adoption of the rating system by the City, as the wetland naturally changes thereafter, or as the wetland changes in accordance with permitted activities.

1. **Category I.** Category I wetlands are those that represent unique or rare wetland types, are more sensitive to disturbance than most wetlands, are relatively undisturbed and contain ecological attributes that are impossible to replace within a human lifetime, or provide a high level of functions. The following types of wetlands are Category I:

a. Relatively undisturbed estuarine wetlands larger than one acre;

b. Wetlands of high conservation value that are identified by scientists of the Washington Natural Heritage Program/DNR;

c. Bogs;

d. Mature and old-growth forested wetlands larger than one acre;

e. Wetlands in coastal lagoons; and

f. Wetlands that perform many functions well (scoring 23 points or more based on functions).

2. **Category II.** Category II wetlands are those that are difficult, though not impossible, to replace and provide high levels of some functions. The following types of wetlands are <u>Category II:</u>

a. Estuarine wetlands smaller than one acre, or disturbed estuarine wetlands larger than one acre;

b. Interdunal wetlands larger than one acre or those found in a mosaic of wetlands; and

c. Wetlands with a moderately high level of functions (scoring between 20 and 22 points).

3. **Category III.** Category III wetlands are those with a moderate level of functions, generally have been disturbed in some ways, can often be adequately replaced with a well-planned mitigation project, and are often less diverse or more isolated from other natural resources in the landscape than Category II wetlands. The following types of wetlands are Category III:

a. Wetlands with a moderate level of functions (scoring between 16 and 19 points); or

b. Interdunal wetlands between 0.1 and one acre.

4. **Category IV.** Category IV wetlands are those with the lowest levels of functions (scoring below 16 points) and are often heavily disturbed. These are wetlands that should be able to replace, or in some cases to improve. However, experience has shown that replacement cannot be guaranteed in any specific case. These wetlands may provide some important functions, and also need to be protected.

C. Illegal Modifications. Wetland rating categories shall not change due to illegal modifications or alterations. A wetland's category shall be based on the premodification/alteration analysis of the wetland.

D. At the time of adoption of the critical area amendments to this Master Program, Ordinance 856, there were no identified Category I wetlands identified within the City. If this category of wetland is subsequently identified, any applicable standards may temporarily be used on an
interim basis by the Director based on Washington State guidance on protection of the identified type of resource until such time as permanent shoreline regulations can be established.

20.240.324 Wetlands – Development standards.

A. Activities and uses shall be prohibited in wetlands and wetland buffers, except as provided for in this chapter.

 B. Activities Allowed in Wetlands. The activities listed below are allowed in wetlands pursuant to SMC 20.240.040, Allowed activities, and subject to applicable permit approvals. These activities do not require submission of a critical area report, except where such activities result in a net loss of the shoreline ecological function provided by a wetland or wetland buffer. These activities include:

1. Conservation or preservation of soil, water, vegetation, fish, shellfish, and/or other wildlife that does not entail changing the structure or functions of the existing wetland.

2. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

3. Drilling for utilities/utility corridors under a wetland, with entrance/exit portals located completely outside of the wetland buffer; provided, that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column will be disturbed.

4. Enhancement of a wetland through the select removal of nonnative invasive plant species. Removal of invasive plant species shall be restricted to hand labor and handheld equipment unless permits from the appropriate regulatory agencies have been obtained for approved biological or chemical treatments. Not more than 500 square feet of area may be cleared, as calculated cumulatively over one year, on private property without a permit. All removed plant material shall be taken away from the site and disposed of appropriately. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds or the King County Noxious Weed List shall be handled and disposed of according to a noxious weed control plan appropriate to that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

5. Permitted alteration to a legally constructed structure existing within a wetland or wetland buffer that does not increase the footprint of the development or hardscape or increase the impact to a wetland or wetland buffer, consistent with SMC 20.220.150.

C. Category I Wetlands. Development activities and uses that result in alteration of Category I wetlands and their associated buffers shall be prohibited subject to the shoreline variance provisions of SMC 20.220.040.

D. Category II and III Wetlands. Development activities and uses that result in alteration of Category II and III wetlands shall be prohibited subject to the shoreline variance provisions of SMC 20.220.040 and the following criteria:

1. The basic project proposed cannot reasonably be accomplished on another site or sites in the general region while still successfully avoiding or resulting in less adverse impact on <u>a wetland</u>;

2. All on-site alternative designs that would avoid or result in less adverse impact on a wetland or its buffer, such as a reduction to the size, scope, configuration, or density of the project are not feasible; and

3. Full compensation for the loss of acreage and functions and values of wetland and buffers due to unavoidable impacts shall be provided in compliance with the mitigation performance standards and requirements of this chapter.

E. Category IV Wetlands, Except Small Hydrologically Isolated Wetlands. Development activities and uses that result in unavoidable impacts may be permitted in Category IV wetlands and associated buffers in accordance with an approved critical area(s) report and compensatory mitigation plan, and only if the proposed activity is consistent with the purpose and intent of the SMA, this Master Program, and this chapter. Full compensation for the loss of acreage and functions and values of wetland and buffers shall be provided in compliance with the mitigation performance standards and requirements of these regulations.

F. Small, Hydrologically Isolated Category IV Wetlands. The Director may allow small, hydrologically isolated Category IV wetlands to be exempt from the avoidance sequencing provisions of SMC 20.240.053 and subsection D of this section and allow alteration of such wetlands; provided, that a submitted critical area report and mitigation plan provides evidence that all of the following conditions are met:

1. The wetland is less than 1,000 square feet in area;

2. The wetland is a low quality Category IV wetland with a habitat score of less than three points in the adopted rating system;

3. The wetland does not contain habitat identified as essential for local populations of priority species identified by WDFW or species of local importance which are regulated as fish and wildlife habitat conservation areas in Chapter 20.240, Subchapter 3;

4. The wetland is not associated with riparian areas or buffers;

5. The wetland is not part of a wetland mosaic; and

6. A mitigation plan to replace lost wetland functions and values is developed, approved, and implemented consistent with SMC 20.240.350.

G. **Subdivisions.** The subdivision and/or short subdivision of land in wetlands and associated buffers are subject to the following:

1. Land that is located wholly within a wetland and/or its buffer may not be subdivided; and

2. Land that is located partially within a wetland and/or its buffer may be subdivided; provided, that an accessible and contiguous portion of each new lot is:

a. Located outside of the wetland and its buffer; and

b. Meets the minimum lot size requirements of SMC 20.50.020.

20.240.330 Wetlands - Required buffer areas.

A. **Buffer Requirements.** The standard buffer widths in Table 20.240.330(A)(1) have been established in accordance with the best available science. The buffer widths shall be determined based on the category of wetland and the habitat score as assigned by a qualified wetland professional using the Washington State Wetland Rating System for Western Washington.

1. The use of the standard buffer widths requires the implementation of the mitigation measures in Table 20.240.330(A)(2), where applicable to the development type, to minimize the impacts of the adjacent land uses.

2. If an applicant chooses not to apply the appropriate mitigation measures in Table 20.240.330(A)(2), then a 33 percent increase in the width of all buffers is required. For example, a 75-foot buffer with the mitigation measures would be a 100-foot buffer without them.

3. The standard buffer widths assume that the buffer is a relatively intact native plant community in the buffer zone adequate to protect the wetland functions and values at the time of the proposed activity. If the existing buffer is bare ground, sparsely vegetated, or vegetated with nonnative or invasive species that do not perform needed functions, then the applicant shall either develop and implement a wetland buffer restoration or enhancement plan to maintain the standard width to create the appropriate plant community or the buffer shall be widened to ensure that adequate functions of the buffer are provided.

Table 20.240.330(A)(1) Wetland Buffer Requirements

	Buffer Width According to Habitat Score			
Wetland Category	Habitat Score	Habitat Score	Habitat Score	Habitat Score
	<u>of 3 – 4</u>	<u>of 5</u>	<u>of 6 – 7</u>	<u>of 8 – 9</u>
Category I: Based on total score or Forested	<u>75 ft</u>	<u>105 ft</u>	<u>165 ft</u>	<u>225 ft</u>
Category I: Estuarine	150 ft (no change based on habitat scores)			
Category II: Based on total score	<u>75 ft</u>	<u>105 ft</u>	<u>165 ft</u>	<u>225 ft</u>

Category III (all) 60 ft			<u>105 ft</u>	<u>165 ft</u>	<u>225 ft</u>	
Category IV (all) 40 ft (<u>40 ft (r</u>	(no change based on habitat scores)			
Table 20.240.330(A)(2) Required Measures to Minimize Impacts to Wetlands (Measures are required, where applicable to a specific proposal)						
<u>Disturbance</u>	<u>Activities and</u> <u>Uses That Cause</u> <u>Disturbances</u>		<u>Required Measures to Minimize Impacts</u>			
Lights	 Parking lots Warehouses Manufacturin Residential 	<u>1g</u>	• Dire	ct lights away	from wetland.	
Noise	• Manufacturin • Residential	<u>1g</u>	 Loca wetland If way vegetati For a potential industry heavily to the or 	te activity that <u>-</u> arranted, enhar on plantings ad activities that g lly disruptive 1 or mining, est vegetated buff uter wetland bu	generates noise ace existing buff djacent to noise generate relative noise, such as ce ablish an additioner strip immedia affer.	e away from er with native source. ly continuous. ertain heavy onal 10 ft ately adjacent
Toxic runoff*	 Parking lots Roads Manufacturin Residential a Application of agricultural pest Landscaping 	ng reas of icides	Rout wetland Esta fertilize App	te all new, untr while ensuring blish covenant rs within 150 f ly integrated pe	eated runoff aw g wetland is not s limiting use of t of wetland. est management	ay from dewatered. pesticides and
Stormwater runoff	Parking lots Roads Manufacturin	<u>1g</u>	• Retr roads ar	ofit stormwate	r detention and t	treatment for ent.

	Residential areas	Prevent channelized flow from lawns that		
	Commercial	directly enters the buffer.		
	Landscaping	• Use low intensity development techniques (per		
		PSAT publication on LID techniques).		
Change in water	Impermeable	• Infiltrate or treat, detain, and disperse into buffer		
regime	surfaces	new runoff from impervious surfaces and new		
	• Lawns	lawns.		
	• Tilling			
Pets and human	Residential areas	• Use privacy fencing OR plant dense vegetation to		
disturbance		delineate buffer edge and to discourage disturbance		
		using vegetation appropriate for the ecoregion.		
		• Place wetland and its buffer in a separate tract or		
		protect with a conservation easement.		
<u>Dust</u>	• Tilled fields	Use best management practices to control dust.		
Disruption of	-	Maintain connections to off-site areas that are		
corridors or		undisturbed.		
<u>connections</u>		Restore corridors.		
* These examples	s are not necessarily ade	equate for minimizing toxic runoff if threatened or		
endangered speci	es are present at the site	e. Additional mitigation measures may be required		
based on recomm	endation of a qualified	professional, third party review, or State agency		
recommendations	5.			

4. Increased Wetland Buffer Area Width. Buffer widths shall be increased, on a caseby-case basis as determined by the Director, when a larger buffer is necessary to protect the shoreline ecological functions provided by the wetland's functions and values. This determination shall be supported by a critical area report, prepared by a qualified professional at the applicant's expense, showing that it is reasonably related to protection of the functions and values of the wetland and the shoreline. The critical area report shall include, but not be limited to, the following criteria: a. The wetland is used by a plant or animal species listed by the Federal government or the State as endangered, threatened, candidate, sensitive, monitored, or documented priority species or habitats, or the wetland is essential or outstanding habitat for those species or has unusual nesting or resting sites such as heron rookeries or raptor nesting trees; or

b. The adjacent land has slopes greater than 15 percent and is susceptible to severe erosion, and erosion-control measures will not effectively prevent adverse wetland impacts; or

c. The adjacent land has minimal vegetative cover. In lieu of increasing the buffer width where exiting buffer vegetation is inadequate to protect the wetland functions and values, development and implementation of a wetland buffer restoration/enhancement plan in accordance with SMC 20.240.350 may be substituted.

5. Buffer averaging to improve wetland functions and values may be permitted when all of the following conditions are met:

a. The wetland has significant differences in characteristics that affect its habitat functions, such as a wetland with a forested component adjacent to a degraded emergent component or is a "dual-rated" wetland with a Category I area adjacent to a lower rated area;

b. The buffer is increased adjacent to the higher functioning area of habitat or more sensitive portion of the wetland and decreased adjacent to the lower functioning or less sensitive portion as demonstrated by a critical areas report from a qualified wetland professional:

c. The total area of the buffer after averaging is equal to the area required without averaging; and

d. The buffer width is not reduced by more than 25 percent in any location.

6. Buffer averaging, through a shoreline variance consistent with 20.220.040, may be permitted when all of the following are met:

a. There are no feasible alternatives to the site design that could be accomplished without buffer averaging;

b. The averaged buffer will not result in degradation of the wetland's functions and values as demonstrated by a critical areas report from a qualified wetland professional;

c. The total buffer area after averaging is equal to the area required without averaging; and

d. The buffer at its narrowest point is never less than either three-fourths of the required width or 75 feet for Category I and II, 50 feet for Category III, and 25 feet for Category IV, whichever is greater.

B. **Measurement of Wetland Buffers.** All buffers shall be measured perpendicular from the wetland boundary as surveyed in the field. The buffer for a wetland created, restored, or enhanced as compensation for approved wetland alterations shall be the same as the buffer required for the category of the created, restored, or enhanced wetland.

C. **Buffers on Mitigation Sites.** All mitigation sites shall have buffers consistent with the buffer requirements of this chapter. Buffers shall be based on the expected or target category of the proposed wetland mitigation site.

D. **Buffer Maintenance.** Except as otherwise specified or allowed in accordance with this chapter, wetland buffers shall be retained in an undisturbed or enhanced condition. In the case of compensatory mitigation sites, removal of invasive nonnative weeds is required for the duration of the required monitoring period.

E. Impacts to Buffers. Requirements for the compensation for impacts to buffers are outlined in SMC 20.240.350.

F. **Overlapping Critical Area Buffers.** If buffers for two contiguous critical areas overlap (such as buffers for a stream and a wetland), the wider buffer applies.

G. Allowed Wetland Buffer Uses. The following uses may be allowed within a wetland buffer in accordance with the review procedures of this chapter; provided such uses are not

prohibited by any other applicable law and such uses are conducted in a manner so as to minimize impacts to the buffer and adjacent wetland:

1. Conservation and Restoration Activities. Conservation or restoration activities aimed at protecting the soil, water, vegetation, or wildlife.

2. **Passive Recreation.** Passive recreation facilities designed and in accordance with an approved critical area report, including:

a. Walkways and trails; provided, that those pathways are limited to minor crossings having no adverse impact on water quality. Pathways should be generally parallel to the perimeter of the wetland, located only in the outer 25 percent of the wetland buffer area, and located to avoid removal of significant trees. Pathways should be limited to pervious surfaces no more than five feet in width for pedestrian use only. Raised boardwalks utilizing nontreated pilings may be acceptable;

b. Wildlife viewing structures.

3. Educational and scientific research activities.

4. Normal and routine maintenance and repair of any existing public or private facilities within an existing right-of-way, provided, that the maintenance or repair does not increase the footprint or use of the facility or right-of-way.

5. The harvesting of wild crops in a manner that is not injurious to natural reproduction of such crops, and provided the harvesting does not require tilling of soil, planting of crops, chemical applications, or alteration of the wetland by changing existing topography, water conditions, or water sources.

6. Drilling for utilities/utility corridors under a buffer, with entrance/exit portals located completely outside of the wetland buffer boundary; provided, that the drilling does not interrupt the ground water connection to the wetland or percolation of surface water down through the soil column. Specific studies by a hydrologist are necessary to determine whether the ground water connection to the wetland or percolation of surface water down through the soil column is disturbed.

7. Enhancement of a wetland through the select removal of nonnative invasive plant species. Removal of invasive plant species shall be restricted to hand labor and handheld equipment unless permits from the appropriate regulatory agencies have been obtained for approved biological or chemical treatments. Not more than 1,500 square feet of area may be cleared, as calculated cumulatively over one year, on private property without a permit. All removed plant material shall be taken away from the site and disposed of appropriately. Plants that appear on the Washington State Noxious Weed Control Board list of noxious weeds or the King County Noxious Weed List shall be handled and disposed of according to a noxious weed control plan appropriate to that species. Revegetation with appropriate native species at natural densities is allowed in conjunction with removal of invasive plant species.

8. **Stormwater Management Facilities.** Stormwater management facilities are limited to stormwater dispersion outfalls, bioswales, and other low-impact facilities consistent with the adopted stormwater manual. Stormwater management facilities are not allowed in buffers of Category I or II wetlands. Facilities may be allowed within the outer 25 percent of the buffer of Category III or IV wetlands only; provided, that:

a. No other location is feasible; and

b. The location of such facilities will not degrade the functions or values of the wetland.

9. **Nonconforming Uses or Structures.** Repair and maintenance of nonconforming uses or structures, where legally established within the buffer, provided such uses or structures do not increase the degree of nonconformity, consistent with SMC 20.220.150.

10. Development Proposals within Physically Separated and Functionally Isolated Wetland Buffers. Consistent with the definition of "buffers" (SMC 20.20.012), areas that are functionally isolated and physically separated from wetland due to existing, legally established roadways, paved trails eight feet or more in width, or other legally established structures or paved areas eight feet or more in width that occur between the area in question and the wetland shall be considered physically isolated and functionally separated wetland buffers. Once determined by the Director, based on a submitted critical area report to be a physically separated and functionally isolated wetland buffer, development proposals shall be allowed in these areas.

H. Signs and Fencing of Wetlands and Buffers.

1. **Temporary Markers.** The outer perimeter of the wetland buffer and the clearing limits identified by an approved permit or authorization shall be marked in the field with temporary "clearing limits" fencing in such a way as to ensure that no unauthorized intrusion will occur. The marking is subject to inspection by the Director prior to the commencement of permitted activities during the preconstruction meeting required under SMC 20.50.330(E). This temporary marking and fencing shall be maintained throughout construction and shall not be removed until permanent signs, if required, are in place.

2. **Permanent Signs.** As a condition of any permit or authorization issued pursuant to this chapter, the Director may require the applicant to install permanent signs along the boundary of a wetland or buffer, when recommended in a critical area report or otherwise required by the provisions of this chapter.

a. Permanent signs shall be made of an enamel-coated metal face and attached to a metal post or another nontreated material of equal durability. Signs shall be posted at an interval of one per lot or every 50 feet, whichever is less, and shall be maintained by the property owner in perpetuity. The signs shall be worded consistent with the text specified in SMC 20.240.110 or with alternative language approved by the Director.

b. The provisions of subsection (H)(2)(a) of this section may be modified as necessary to assure protection of sensitive features.

3. **Fencing.** Fencing installed as part of a proposed activity or as required in this subsection shall be designed so as to not interfere with species migration, including fish runs, and shall be constructed in a manner that minimizes impacts to the wetland and associated habitat. Permanent fencing shall be required at the outer edge of the critical area buffer under the following circumstances; provided, that the Director may waive this requirement:

a. As part of any development proposal for subdivisions, short plats, multifamily, mixed use, and commercial development where the Director determines that such

fencing is necessary to protect the functions of the critical area; provided, that breaks in permanent fencing may be allowed for access to permitted buffer uses (subsection G of this section);

b. As part of development proposals for parks where the adjacent proposed use is active recreation and the Director determines that such fencing is necessary to protect the functions of the critical area;

c. When buffer averaging is part of a development proposal; or

d. At the Director's discretion to protect the values and functions of a critical area as demonstrated in a critical area report. If found to be necessary, the Director shall condition any permit or authorization issued pursuant to this chapter to require the applicant to install a permanent fence at the edge of the habitat conservation area or buffer, when fencing will prevent future impacts to the habitat conservation area;

e. The applicant shall be required to install a permanent fence around the wetland buffer when domestic grazing animals, only as allowed under SMC 20.40.240, are present or may be introduced on site.

20.240.340 Wetlands - Critical area report requirements.

A. **Report Required.** If the Director determines that the site of a proposed development includes, is likely to include, or is adjacent to, a wetland, a wetland critical area report shall be required. Critical area report requirements for wetland areas are generally met through submission to the Director of one or more wetland critical area reports. In addition to the general critical area report requirements of SMC 20.240.080, critical area reports for wetlands shall meet the requirements of this section. Critical area reports for two or more types of critical areas shall meet the report requirements for each relevant type of critical area.

B. **Preparation by a Qualified Professional.** Critical area reports for wetlands shall be prepared and signed by a qualified professional who is a certified wetland scientist or a noncertified wetland scientist with the minimum required experience, per SMC 20.20.042, in the field of wetland science and with experience preparing wetland delineation, impact assessments, and mitigation plans.

C. **Third Party Review Required.** Critical areas studies and reports on wetland areas shall be subject to third party review consistent with SMC 20.240.080(C) and in any of the additional following circumstances:

1. Compensatory mitigation is required for impacts to Category I, II, or III wetlands and or buffers; or

2. Compensatory mitigation is required for impacts to Category IV wetlands.

D. **Minimum Report Contents for Wetlands.** The written critical area report(s) and accompanying plan sheet(s) shall contain the following information, at a minimum:

1. The minimum report contents required per SMC 20.240.080(E);

2. Documentation of any fieldwork performed on the site, including field data sheets for delineations, rating system forms, baseline hydrologic data, site photos, etc.;

3. A description of the methodologies used to conduct the wetland delineations, ratings, or impact analyses including references;

4. **Site Plans.** A copy of the site plan sheet(s) for the project shall be included with the written report and shall include, at a minimum:

a. Maps (to scale) depicting delineated and surveyed wetland(s) and required buffers on site, including buffers for off-site critical areas that extend onto the project site; the development proposal; other critical areas; clearing and grading limits; areas of proposed impacts to wetlands and/or buffers (include square footage estimates); and

b. A depiction of the proposed stormwater management facilities and outlets (to scale) for the development, including estimated areas of intrusion into the buffers of any critical areas. The written report shall contain a discussion of the potential impacts to the wetland(s) associated with anticipated hydroperiod alterations from the project;

5. For each wetland identified on site and off site within 300 feet of the project site provide: the wetland rating, including a description of and score for each function, per wetland ratings (SMC 20.240.320(B)); required buffers (SMC 20.240.330); hydrogeomorphic classification; wetland acreage based on a professional survey from the field delineation (acreages for on-site portion and entire wetland area including off-site portions); Cowardin classification of vegetation communities; habitat elements; soil conditions based on site assessment and/or soil survey information; and to the extent possible, hydrologic information such as location and condition of inlet/outlets (if inlets/outlets can be legally accessed), estimated water depths within the wetland, and estimated hydroperiod patterns based on visual cues (e.g., algal mats, drift lines, flood debris, etc.). Provide acreage estimates, classifications, and ratings based on entire wetland complexes, not only the portion present on the proposed project site;

6. A description of the proposed actions, including an estimation of acreages of impacts to wetlands and buffers based on the field delineation and survey and an analysis of site development alternatives, including a no-development alternative;

7. An assessment of the probable cumulative impacts to the wetlands and buffers resulting from the proposed development;

8. A description of reasonable efforts made to apply mitigation sequencing pursuant to SMC 20.240.053(A) to avoid, minimize, and mitigate impacts to critical areas and a discussion of measures, including avoidance, minimization, and compensation, proposed to preserve existing wetlands and restore any wetlands that were degraded prior to the current proposed land-use activity;

9. A conservation strategy for habitat and native vegetation that addresses methods to protect and enhance on-site habitat and wetland functions; and

10. An evaluation of the functions of the wetland and adjacent buffer. Include reference for the method used and data sheets.

E. Additional Information. When appropriate due to the proposed impacts or the project area conditions, the Director may also require the critical area report to include:

1. Where impacts are proposed, mitigation plans consistent with the requirements of SMC 20.240.082 and the wetland mitigation performance standards and requirements of SMC 20.240.350;

2. A request for consultation with WDFW, the Department of Ecology, local Native American Indian tribes, and/or other appropriate agency;

3. Copies of the joint aquatic resource permit application (JARPA) and related approvals, such as a hydraulic project approval (HPA) from the DFW, when applicable to the project; and

4. Detailed surface and subsurface hydrologic features both on and adjacent to the site.

20.240.350 Wetlands – Compensatory mitigation performance standards and requirements.

A. Requirements for Compensatory Mitigation.

 Compensatory mitigation for alterations to wetlands shall be used only for impacts that cannot be avoided or minimized and shall achieve equivalent or greater shoreline ecological and biologic functions. Compensatory mitigation plans shall be consistent with Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1), (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised).

2. Mitigation ratios shall be consistent with subsection E of this section.

3. Mitigation requirements may also be determined using the credit/debit tool described in "Calculating Credits and Debits for Compensatory Mitigation in Wetlands of Western Washington: Operational Draft" (Department of Ecology Publication No. 10-06-011, February 2011, or as revised) consistent with subsection E of this section.

B. Compensating for Lost or Impacted Functions. Compensatory mitigation shall address the shoreline ecological functions and the wetland or wetland buffer functions and values affected by the proposed project, with an intention to achieve functional equivalency or improvement of functions and values. The goal shall be for the compensatory mitigation to provide similar shoreline ecological functions and wetland functions and values as those lost, except when either:

1. The lost wetland provides minimal functions and values, and the proposed compensatory mitigation action(s) will provide equal or greater functions and values or

will provide functions and values shown to be limiting within a watershed through a formal Washington State watershed assessment plan or protocol; or

2. Out-of-kind replacement of wetland type or functions and values will best meet watershed goals formally identified by the City, such as replacement of historically diminished wetland types.

C. **Preference of Mitigation Actions.** Methods to achieve compensation for wetland functions and values shall be approached in the following order of preference:

1. **Restoration.** Restoration of wetlands.

2. Creation. Creation (establishment) of wetlands on disturbed upland sites, such as those with vegetative cover consisting primarily of nonnative species. This should be attempted only when there is an adequate source of water and it can be shown that the surface and subsurface hydrologic regime is conducive to the wetland community that is anticipated in the design.

3. Enhancement. Enhancement of significantly degraded wetlands in combination with restoration or creation. Enhancement alone will result in a loss of wetland acreage and is less effective at replacing the functions and values lost. Enhancement should be part of a mitigation package that includes replacing the impacted area and meeting appropriate ratio requirements.

4. **Preservation.** Preservation of high-quality, at-risk wetlands as compensation is generally acceptable when done in combination with restoration, creation, or enhancement; provided, that a minimum of 1:1 acreage replacement is provided by reestablishment or creation. Preservation of high-quality, at-risk wetlands and habitat may be considered as the sole means of compensation for wetland impacts when the following criteria are met:

a. Wetland impacts will not have a significant adverse impact on habitat for listed fish, or other ESA-listed species;

b. There is no net loss of habitat functions within the watershed or basin;

c. Mitigation ratios for preservation as the sole means of mitigation shall generally start at 20:1. Specific ratios should depend upon the significance of the preservation project and the quality of the wetland resources lost;

d. The impact area is small (generally less than one-half acre) and/or impacts are occurring to a low-functioning system (Category III or IV wetland); and

e. All preservation sites shall include buffer areas adequate to protect the habitat and its functions from encroachment and degradation.

D. **Type and Location of Compensatory Mitigation.** Unless it is demonstrated that a higher level of ecological functioning would result from an alternative approach, compensatory mitigation for ecological functions shall be either in kind and on site, or in kind and within the same stream reach, sub-basin, or drift cell (if estuarine wetlands are impacted). Compensatory mitigation actions shall be conducted within the same sub-drainage basin and on the site of the alteration, except when all of the following apply:

1. There are no reasonable opportunities on site or within the sub-drainage basin (e.g., on-site options would require elimination of high-functioning upland habitat), or opportunities on site or within the sub-drainage basin do not have a high likelihood of success based on a determination of the capacity of the site to compensate for the impacts. Considerations should include:

a. Anticipated replacement ratios for wetland mitigation;

b. Buffer conditions and proposed widths;

c. Available water to maintain anticipated hydrogeomorphic classes of wetlands when restored; and

d. Proposed flood storage capacity, and potential to mitigate riparian fish and wildlife impacts (such as connectivity);

2. Off-site mitigation has a greater likelihood of providing equal or improved wetland functions than the impacted wetland;

3. Off-site locations shall be in the same sub-drainage basin, unless watershed goals for water quality, flood storage or conveyance, habitat, or other wetland functions have been established by the City and strongly justify location of mitigation at another site; and

4. The design for the compensatory mitigation project needs to be appropriate for its location (i.e., position in the landscape). Therefore, compensatory mitigation should not result in the creation, restoration, or enhancement of an atypical wetland. An atypical wetland refers to a compensation wetland (e.g., created or enhanced) that does not match the type of existing wetland that would be found in the geomorphic setting of the site (i.e., the water source(s) and hydroperiod proposed for the mitigation site are not typical for the geomorphic setting). Likewise, it should not provide exaggerated morphology or require a berm or other engineered structures to hold back water. For example, excavating a permanently inundated pond in an existing, seasonally saturated or inundated wetland is one example of an enhancement project that could result in an atypical wetland. Another example would be excavating depressions in an existing wetland on a slope, which would require the construction of berms to hold the water.

E. Wetland Mitigation Ratios¹.

<u>Category and</u> <u>Type of Wetland²</u>	<u>Creation or</u> <u>Reestablishment</u> (Area – in square <u>feet)</u>	<u>Rehabilitation</u> (Area – in square <u>feet)</u>	<u>Enhancement</u> (<u>Area – in</u> square feet)	<u>Preservation</u> (<u>Area – in</u> <u>square feet)</u>	
Category I: Based on total score for <u>functions</u>	4:1	<u>8:1</u>	<u>16:1</u>	<u>20:1</u>	
Category I: Mature forested	<u>6:1</u>	12:1	<u>24:1</u>	<u>24:1</u>	
Category I: Estuarine	Case-by-case	<u>6:1</u>	Case-by-case	Case-by-case	

<u>Table 20.240.350(G)</u>. Wetland mitigation ratios apply when impacts to wetlands cannot be avoided or are otherwise allowed consistent with the provisions of this chapter.

Category II: Based	<u>3:1</u>	<u>6:1</u>	<u>12:1</u>	<u>20:1</u>
on total score for				
functions				
Category III (all)	<u>2:1</u>	<u>4:1</u>	<u>8:1</u>	<u>15:1</u>
Category IV (all)	<u>1.5:1</u>	<u>3:1</u>	<u>6:1</u>	<u>10:1</u>

Ratios for rehabilitation and enhancement may be reduced when combined with 1:1 replacement through creation or reestablishment. See Table 1a or 1b, Wetland Mitigation in Washington State – Part 1: Agency Policies and Guidance – Version 1 (Department of Ecology Publication No. 06-06-011a, March 2006, or as revised).

² Category and rating of wetland as determined consistent with SMC 20.240.320(B).

<u>F.</u> Buffer Mitigation Ratios. Impacts to buffers shall be mitigated at a 1:1 ratio.
 <u>Compensatory buffer mitigation shall replace those buffer functions lost from development.</u>

G. **Mitigation Performance Standards.** The performance standards in this section shall be incorporated into mitigation plans submitted to the City for impacts to wetlands. The following performance standards shall apply to any mitigations proposed within Category I, II, III and IV wetlands and their buffers. Modifications to these performance standards consistent with the guidance in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised) may be considered for approval by the Director as alternatives to the following standards:

1. Plants indigenous to the region (not introduced or foreign species) shall be used.

2. Plant selection shall be consistent with the existing or projected hydrologic regime, including base water levels and stormwater event fluctuations.

3. Plants should be commercially available or available from local sources.

4. Plant species high in food and cover value for fish and wildlife shall be used.

5. Mostly perennial species should be planted.

6. Committing significant areas of the site to species that have questionable potential for successful establishment shall be avoided.

7. Plant selection shall be approved by a qualified professional.

8. The following standards shall apply to wetland design and construction:

a. Water depth shall not exceed six and one-half feet (two meters).

b. The grade or slope that water flows through the wetland shall not exceed six percent.

c. Slopes within the wetland basin and the buffer zone shall not be steeper than 3:1 (horizontal to vertical).

d. The wetland (excluding the buffer area) should not contain more than 60 percent open water as measured at the seasonal high water mark.

9. Substrate should consist of a minimum of one foot, in depth, of clean (uncontaminated with chemicals or solid/hazardous wastes) inorganic/organic materials.

10. Planting densities and placement of plants should be determined by a qualified professional and shown on the design plans.

11. The planting plan shall be approved by the City.

12. Stockpiling soil and construction materials should be confined to upland areas and contract specifications should limit stockpiling of earthen materials to durations in accordance with City clearing and grading standards, unless otherwise approved by the City.

13. Planting instructions shall be submitted which describe placement, diversity, and spacing of seeds, tubers, bulbs, rhizomes, sprigs, plugs, and transplanted stock.

14. Controlled release fertilizer shall be applied (if required) at the time of planting and afterward only as plant conditions warrant as determined during the monitoring process.

15. An irrigation system shall be installed, if necessary, for the initial establishment period.

16. All construction specifications and methods shall be approved by a qualified professional and the City.

17. Construction management shall be provided by a qualified professional. Ongoing work on site shall be inspected by the City.

H. Compensatory Mitigation Plan. When a project involves wetland and/or buffer impacts, a compensatory mitigation plan shall be included as part of the required critical area report. Compensatory wetland mitigation plans shall meet the minimum requirements SMC 20.240.082 and demonstrate compliance with SMC 20.240.053. Full guidance can be found in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised). The mitigation plan shall meet the following additional standards:

1. Description of the existing wetland and buffer areas proposed to be impacted. Include acreage (or square footage), water regime, vegetation, soils, landscape position, surrounding land uses, and functions. Also describe impacts in terms of acreage by Cowardin classification, hydrogeomorphic classification, and wetland rating, based on wetland ratings (SMC 20.240.320(B));

2. Description of the compensatory mitigation site, including location and rationale for selection. Include an assessment of existing conditions: acreage (or square footage) of wetlands and uplands, water regime, sources of water, vegetation, soils, landscape position, surrounding land uses, and functions. Estimate future conditions in this location if the compensation actions are not undertaken (i.e., how would this site progress through natural succession);

3. A description of the proposed actions for compensation of wetland and upland areas affected by the project. Include overall goals of the proposed mitigation, including a description of the targeted functions, hydrogeomorphic classification, and categories of wetlands;

4. A description of the proposed mitigation construction activities, construction/installation notes, and timing of activities;

5. A discussion of ongoing management practices that will protect wetlands after the project site has been developed, including proposed monitoring and maintenance programs (for remaining wetlands and compensatory mitigation wetlands):

6. Proof of establishment of notice on title for the wetlands and buffers on the project site, including the compensatory mitigation areas; and

7. The scaled plan sheets for the compensatory mitigation shall contain, at a minimum:

a. Surveyed edges of the existing wetland and buffers, proposed areas of wetland and/or buffer impacts, location of proposed wetland and/or buffer compensation actions;

b. Existing topography, ground-proofed, at two-foot contour intervals in the zone of the proposed compensation actions if any grading activity is proposed to create the compensation area(s). Also existing cross-sections of on-site wetland areas that are proposed to be impacted and cross-section(s) (estimated one-foot intervals) for the proposed areas of wetland or buffer compensation;

c. Surface and subsurface hydrologic conditions, including an analysis of existing and proposed hydrologic regimes for enhanced, created, or restored compensatory mitigation areas. Also, illustrations of how data for existing hydrologic conditions were used to determine the estimates of future hydrologic conditions;

d. Conditions expected from the proposed actions on site, including future hydrogeomorphic types, vegetation community types by dominant species (wetland and upland), and future water regimes:

e. Required wetland buffers for existing wetlands and proposed compensation areas. Also, identify any zones where buffers are proposed to be reduced or enlarged outside of the standards identified in this chapter;

f. A plant schedule for the compensation area, including all species by proposed community type and water regime, size and type of plant material to be installed,

spacing of plants, typical clustering patterns, typical plant installation details and notes, total number of each species by community type, timing of installation; and

g. Performance standards (measurable standards reflective of years post-installation) for upland and wetland communities, monitoring plan, contingency plan, and maintenance schedule, and actions. Standards for success shall be established based on the performance standards identified and the functions and values being mitigated based on the guidance in Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans (Version 1) (Department of Ecology Publication No. 06-06-011b, March 2006, or as revised).

A-4 Geologic Hazards Standards

Revised Critical Areas section allowances for development in stream and wetland buffers that are separated or isolated from the development..

20.240.224 Geologic hazards – Development standards.

E. Alteration of Very High Risk Landslide Hazard Areas. Alterations of a very high risk landslide hazard area and/or buffer may only occur for activities for which a critical area report with a hazards analysis is submitted and certifies that:

1. The development will not increase surface water discharge or sedimentation on site or to adjacent properties beyond pre-development conditions;

2. The development will not decrease slope stability on the site or on adjacent properties;

- 3. Such alterations will meet other critical areas regulations; and
- 4. The design criteria in subsection F of this section are met.

F. Design Criteria for Alteration of Very High Risk Landslide Hazard Areas.

Development within a very high risk landslide hazard area and/or buffer shall be designed to meet the following basic requirements unless it can be demonstrated that an alternative project design provides greater short- and long-term slope stability while meeting all other provisions of this chapter. The requirement for long-term slope stability shall exclude designs that require regular and periodic maintenance to maintain their level of function. The basic development design criteria are:

1. The proposed development shall not decrease the factor of safety for landslide occurrences below the limits of 1.5 for static conditions and 1.2 for dynamic conditions. Proposed alteration of natural slopes, that does not include structures, shall not decrease the factor of safety for landslide occurrences below the limits of 1.3 for static conditions and 1.0 for seismic. Where the existing conditions are below these limits, the proposed development shall increase the factor of safety to these limits or will not be permitted. Analysis of dynamic conditions shall be based on the seismic event as established by the current version of the International Building Code; 2. New structures and improvements shall be clustered to avoid geologic hazard areas and other critical areas;

3. New structures and improvements shall minimize alterations to the natural contour of the slope, and foundations shall be tiered where possible to conform to existing topography;

4. New structures and improvements shall be located to preserve the most critical portion of the site and its natural landforms and vegetation;

5. The proposed development shall not result in greater risk of the hazard or a need for increased buffers on neighboring properties;

6. Where the existing natural slope area cannot be retained undisturbed with native vegetation, the use of retaining walls that allow the maintenance of existing natural slope area is preferred over graded artificial slopes; and

7. Development shall be designed to minimize impervious lot coverage and preserve native vegetation and trees to the maximum extent practicable.

G. Additional Requirements for Alteration of Very High Risk Hazard Landslide Areas.

1. Prior to application, the applicant shall meet the requirements of and conduct a neighborhood meeting consistent with SMC 20.30.090. The notification area shall be limited to:

a. All property owners whose properties adjoin the subject property; and

b. Properties that include part of the subject property's very high risk landslide hazard area and the standard 50-foot buffer, but not to exceed a maximum of 200 feet from the project clearing limits.

2. Prior to permit issuance, the property owner shall sign and record on title, at the owner's sole expense, a covenant in a form acceptable to the City, which:

a. Acknowledges and accepts the risks of development in the landslide hazard area;

b. Waives any rights to claims against the City;

c. Indemnifies and holds harmless the City against claims, losses, and damages;

d. Informs subsequent owners of the property of the risks and the covenant; and

e. Advisability of obtaining added insurance.

3. Prior to permit issuance, the piling and excavation contractors shall submit insurance bonding documentation that includes coverage for subsidence and underground property damage, listing the City as an additional insured. The Director may require adequate bonds and/or insurance to cover potential claims for property damage that may arise from or be related to the following:

a. Excavation or fill within a landslide-prone area when the depth of the proposed excavation exceeds four feet and the bottom of the proposed excavation is below the 100 percent slope line (45 degrees from a horizontal line) from the property line; or

b. In other circumstances where the Director determines that there is a potential for significant harm to any type of critical area or a critical area buffer during the construction process.

4. If the Building Official has reasonable grounds to believe that an emergency exists because significant changes in geologic conditions at a project site or in the surrounding area may have occurred since a permit was issued, increasing the risk of damage to the proposed development, to neighboring properties, or to nearby surface waters, the building official may, by letter or other reasonable means of notification, suspend the permit until the applicant has submitted a letter of certification. The letter of certification shall be based on such factors as the presence of known slides, indications of changed conditions at the site or the surrounding area, or other indications of unstable soils and meet the following requirements:

a. The letter of certification shall be from the current project qualified professional geotechnical engineer of record stating that a qualified professional geotechnical engineer has inspected the site and area surrounding the proposed development within the 60 days preceding submittal of the letter; and that:

i. In the project geotechnical engineer's professional opinion no significant changes in conditions at the site or surrounding area have occurred that render invalid or out-of-date the analysis and recommendations contained in the technical reports and other application materials previously submitted to the City as part of the application for the permit; or that

ii. In the project geotechnical engineer's professional opinion, changes in conditions at the site or surrounding area have occurred that require revision to project criteria and that all technical reports and any necessary revised drawings that account for the changed conditions have been prepared and submitted.

5. The letter of certification and any required revisions shall be reviewed and approved by the City's third party qualified professional, at the applicant's expense, before the Building Official may allow work to continue under the permit.

20.240.230 Geologic hazard areas – Required buffer areas.

A. Buffers for geologic hazard areas shall be maintained as undisturbed native vegetation consistent with SMC 20.240.090. Building and other improvement setbacks will be required in addition to buffers as recommended by the qualified professional to allow for landscaping, access around structures for maintenance, and location of stormwater facilities at safe distances from geologic hazard areas where native vegetation is not necessary to reduce the risk of the hazard.

B. Required buffer widths for geologic hazard areas shall reflect the sensitivity of the hazard area and the risks associated with development and, in those circumstances permitted by these regulations, the type and intensity of human activity and site design proposed to be conducted on or near the area.

C. In determining the appropriate buffer width, the City shall consider the recommendations contained in a geotechnical critical area report required by these regulations.

D. For moderate to high risk landslide hazard areas, the qualified professional shall recommend whether buffers should be required and the width of those buffers, as well as recommending any additional setbacks for buildings and stormwater facilities adequate to certify no increase in the risk of the hazard.

E. For very high risk landslide hazard areas, the standard buffer shall be 50 feet from all edges of the landslide hazard area. Larger buffers may be required as needed to eliminate or minimize the risk to people and property based on a geotechnical critical area report. The standard buffer may be reduced when geotechnical studies demonstrate, and the qualified professional certifies, that the reduction will not increase the risk of hazard to people or property, on or off site; however, the minimum buffer shall be 15 feet.

F. Landslide hazard areas and associated buffers shall be placed either in a separate tract on which development is prohibited, protected by execution of an easement, dedicated to a conservation organization or land trust, or similarly preserved through a permanent protective mechanism acceptable to the City. The location and limitations associated with the critical landslide hazard and its buffer shall be shown on the face of the deed or plat applicable to the property and shall be recorded with the King County Recorder's Office.

20.240.240 Geologic hazards – Critical area report requirements.

A. **Report Required.** If the Director determines that the site of a proposed development includes, is likely to include, or is adjacent to a geologic hazard area, a critical area report shall be required, at the applicant's expense. Critical area report requirements for geologic hazard areas are met through submission to the Director of one or more geologic hazard critical area reports (also referred to as geotech or geotechnical engineering reports). In addition to the general critical areas report requirements of SMC 20.240.080, critical areas reports for geologic hazard areas shall meet the requirements of this section. Critical areas reports for two or more types of critical areas shall meet the report requirements for each relevant type of critical area.

B. **Preparation by a Qualified Professional.** Critical areas reports for potential geologic hazard areas shall be prepared, stamped, and signed by a qualified geotechnical engineer or engineering geologist licensed in the State of Washington, with minimum required experience, per SMC 20.20.042, analyzing geologic, hydrologic, and ground water flow systems, and who has experience preparing reports for the relevant type of hazard. If mitigation measures are necessary, the report detailing the mitigation measures and design of the mitigation shall be prepared by a qualified professional with experience stabilizing geologic hazard areas with similar geotechnical properties and by a qualified vegetation ecologist, landscape architect, or

arborist with experience designing and monitoring vegetative stabilization of geologic hazard areas.

C. Third Party Review Required. Critical areas studies and reports on geologically hazardous areas will be subject to third party review at the owner's sole expense as provided in SMC 20.240.080(C) and in the following circumstances:

1. A buffer reduction or alteration of the critical area or buffer is proposed for a very high risk landslide hazard areas.

D. Minimum Report Contents for Geologic Hazard Areas. A critical area report for geologic hazard areas shall include a field investigation, contain an assessment of whether or not each type of geologic hazard identified in SMC 20.240.210 is present or not present, and determine if the proposed development of the site will increase the risk of the hazard on or off site. The written critical area report(s) and accompanying plan sheet(s) shall contain the following information at a minimum:

1. The minimum report contents required per SMC 20.240.080(E);

2. Documentation of any fieldwork performed on the site, including field data sheets for soils, test pit locations, baseline hydrologic data, site photos, etc.;

3. A description of the methodologies used to conduct the geologic hazard areas delineations, classifications, hazards assessments and/or analyses of the proposal impacts including references;

4. Site and Construction Plans. The report shall include a copy of the site plans for the proposal, drawn at an engineering scale, showing:

a. The type and extent of geologic hazard areas, any other critical areas, and buffers on, adjacent to, off site within 200 feet of, or that are likely to impact or be affected by the proposal;

b. Proposed development, including the location of existing and proposed structures, fill, significant trees to be removed, vegetation to be removed, storage of materials, and drainage facilities; c. The topography, in two-foot contours, of the project area and all hazard areas addressed in the report;

d. Height of slope, slope gradient, and cross-section of the project area;

e. The location of springs, seeps, or other surface expressions of ground water on or off site within 200 feet of the project area or that have the potential to affect or be affected by the proposal;

f. The location and description of surface water on or off site within 200 feet of the project area or that has the potential to be affected by the proposal; and

g. Clearing limits, including required tree protection consistent with SMC 20.50.370.

5. Stormwater Pollution Prevention Plan (SWPPP). For any development proposed with land-disturbing activities on a site containing a geologic hazard area, a stormwater pollution prevention plan (also known as an erosion and sediment control plan) shall be required. The SWPPP, in compliance with the requirements of Chapter 13.10 SMC, shall be included in the critical area report or be referenced if it is prepared separately.

6. Assessment of Geological Characteristics. The report shall include an assessment of the geologic characteristics of the soils, sediments, and/or rock of the project area and potentially affected adjacent properties, and a review of the site history regarding landslides, erosion, and prior grading. Soils analysis shall be accomplished in accordance with accepted classification systems in use in the region. The assessment shall include, but not be limited to:

a. A detailed overview of the field investigations, published data, and references; data and conclusions from past assessments of the site; and site-specific measurements, tests, investigations, or studies that support the identification of geologically hazardous areas; and

b. A summary of the existing site conditions, including:

i. Surface topography, existing features, and vegetation found in the project area and in all hazard areas addressed in the report: ii. Surface and subsurface geology and soils to sufficient depth based on data from site-specific explorations;

iii. Geologic cross-section(s) displaying the critical design conditions;

iv. Surface and ground water conditions; and

c. A description of the vulnerability of the site to seismic and other geologic events.

7. **Analysis of Proposal.** The report shall contain a hazards analysis including a detailed description of the project, its relationship to the geologic hazard(s), and its potential impact upon the identified hazard area(s), the subject property, and affected adjacent properties. The hazards analysis component of the critical areas report shall include the following based on the type(s) of geologic hazard areas identified:

a. Recommendations for the minimum buffer consistent with SMC 20.240.230 and recommended minimum drainage and building setbacks from any geologic hazard based upon the geotechnical analysis. Buffers shall be maintained consistent with SMC 20.240.090; however, the qualified professional may recommend additional setbacks for drainage facilities or structures which do not have to be maintained as undisturbed native vegetation; and

b. An analysis of proposed surface and subsurface drainage, and the vulnerability of the site to erosion.

E. Additional Technical Information Requirements for Landslide Hazard Areas. The technical information required in a critical area report for a project within a landslide hazard area shall also include the following:

1. An estimate of the present stability of the subject property, the stability of the subject property during construction, the stability of the subject property after all development activities are completed, and a discussion of the relative risks and slide potential relating to adjacent properties during each stage of development, including the effect construction and placement of structures, clearing, grading, and removal of vegetation will have on the slope over the estimated life of the structure;

2. An estimate of the bluff retreat rate that recognizes and reflects potential catastrophic events such as seismic activity or a 100-year storm event;

3. Consideration of the run-out hazard of landslide debris and/or the impacts of landslide run-out on downslope properties;

4. A study of slope stability including an analysis of proposed cuts, fills, and other site grading;

5. Compliance with the requirements of SMC 20.240.224(D) for alterations proposed in moderate to high risk landslide hazard areas;

6. Compliance with the requirements of SMC 20.240.224(E) through (G) for alterations proposed in very high risk landslide hazard areas;

7. Parameters for design of site improvements including appropriate foundations and retaining structures. These should include allowable load and resistance capacities for bearing and lateral loads, installation considerations, and estimates of settlement performance;

8. Recommendations for drainage and subdrainage improvements;

9. Earthwork recommendations including clearing and site preparation criteria, fill placement and compaction criteria, temporary and permanent slope inclinations and protection, and temporary excavation support, if necessary; and

10. Mitigation of adverse site conditions including slope stabilization measures and seismically unstable soils, if appropriate.

A-5 General Critical Areas Standards

Revised Critical Areas section critical areas reports and review process.

20.240.080 Critical area report - Requirements.

A. **Report Required.** If uses, activities, or developments are proposed within, adjacent to, or are likely to impact critical areas or their buffers, an applicant shall provide site-specific information and analysis in the form of critical area report(s) as required in this chapter. Critical area reports are required in order to identify the presence, extent, and classification/rating of potential critical areas, as well as to analyze, assess, and mitigate the potential adverse impact to or risk from critical areas for a development project. Critical area reports shall use standards for best available science in SMC 20.240.060. Critical area reports for two or more types of critical areas shall meet the report requirements for each type of critical area. The expense of preparing the critical area report(s) shall be borne by the applicant. This provision is not intended to expand or limit an applicant's other obligations under WAC 197-11-100, as amended from time to time.

B. **Preparation by Qualified Professional.** Critical area report(s) shall be prepared by qualified professional(s) as defined in SMC 20.20.042, with the required training and experience specific to the type(s) of critical area(s) present consistent with the requirements of SMC 20.240.240, 20.240.290, and 20.240.340. Proof of licensing, credentials, and resume of the qualified professional(s) preparing the report shall be submitted for review by the City to determine if the minimum qualifications are met.

C. Third Party Review of Critical Area Reports. Review of required critical area reports by a qualified professional under contract with or employed by the City will be required by the Director at the applicant's expense in any of the following circumstances:

1. The project requires a shoreline variance application or a shoreline conditional use permit; or

2. Third party review is specifically required by the provisions of this chapter for the critical area(s) or critical area buffer(s) potentially being impacted; or

3. When the Director determines such services are necessary to demonstrate compliance with the standards and guidelines of this chapter.

D. Critical Area Report Types or Sections. Critical area reports may be met in stages through multiple reports or combined in one report. A critical area report shall include one or more of the following sections or report types unless exempted by the Director based on the extent of the potential critical area impacts. The scope and location of the proposed project will determine which report(s) alone or combined are sufficient to meet the critical area report requirements for the impacted critical area type(s). The typical sequence of required sections or reports that will fulfill the requirements of this section include:

1. **Reconnaissance.** The existence, general location, and type of critical areas in the vicinity of a project site (off site within 300 feet for wetlands and fish and wildlife habitat conservation areas and off site within 200 feet for geologic hazards, shorelines, floodplains, and aquifer recharge areas) of a project site (if allowed by the adjoining property owners). Determination of whether the project will adversely impact or be at risk from the potential critical areas based on maximum potential buffers and possible application of SMC 20.240.220(A)(3), 20.240.280(D)(7) or 20.240.330(G)(10) should be addressed:

2. **Delineation.** The extent, boundaries, rating or classification, and applicable standard buffers of critical areas where the project area could potentially impact the critical area or its buffer including an assessment of the characteristics of or functions and values of the critical area and buffers identified;

3. Analysis. The proposal and impact assessment report documenting the potential project impacts to the critical area and buffers including a discussion of the efforts taken to avoid, minimize, and reduce potential impacts to those areas;

4. **Mitigation.** The measures that prevent or compensate for the potential impacts of the project designed to meet the requirements of this chapter, in SMC 20.240.082, Mitigation plan requirements, and the standards for the specific critical areas impacted. Mitigation includes, but is not limited to, adjustments to required buffer sizes, best practices to minimize impacts, and critical area or buffer enhancement, restoration, or preservation plans. Mitigation plans include habitat management plans, revegetation, or replanting plans, and restoration plans;

5. **Maintenance and Monitoring.** The goals of the mitigation proposed, performance standards for success, monitoring methods and reporting schedule, maintenance methods and schedule, and contingency actions. Maintenance and monitoring plans shall be consistent with the mitigation performance standards and requirements of this chapter, including SMC 20.240.250, 20.240.300, and 20.240.350.

E. Minimum Report Contents. At a minimum, critical area reports shall contain the following:

1. The name and contact information of the applicant;

2. Adequate information to determine compliance with the requirements of the critical area regulations, this chapter, including critical area report, impact and hazard assessment, and mitigation requirements specific to each critical area type, as indicated in the corresponding sections of this chapter;

3. The dates, names, and qualifications of the qualified professional(s) preparing the report and documentation of any fieldwork performed on the site;

4. A description of the proposal, proposal location including address and parcel number(s), and a vicinity map for the project;

5. Identification of the development permit(s) requested and all other local, State, and/or Federal critical area-related permits required for the project;

6. A copy of the site plan for the development proposal including:

<u>a.</u> A map to standard engineering scale depicting critical areas, buffers, the
 <u>development proposal</u>, and any areas to be altered. In addition to plan size site plans, a
 <u>legible</u>, reduced (eight and one-half inches by 11 inches) copy will be required if
 <u>noticing is required for the project; and</u>

b. A scaled depiction and description of the proposed stormwater pollution prevention plan, consistent with the adopted stormwater manual, for the development and consideration of impacts to critical areas due to drainage alterations; 7. Identification and characterization of all critical areas, wetlands, water bodies, shorelines, and buffers within the vicinity of the proposed project area (off site within 300 feet for wetlands and fish and wildlife habitat conservation areas and off site within 200 feet for geologic hazards, shorelines, floodplains, and aquifer recharge areas);

8. A statement specifying the accuracy of the report and all assumptions made and relied upon:

9. A description of the methodologies used to conduct the critical areas investigation, including references;

10. An assessment of the probable impacts to the critical areas resulting from the proposed development of the site based upon identified findings;

 A description of reasonable efforts made to apply mitigation sequencing pursuant to SMC 20.240.053, Mitigation requirements, to avoid, minimize, and mitigate impacts to critical areas; and

12. Plans for mitigation required to offset any critical areas impacts, in accordance with SMC 20.240.082, Mitigation plan requirements, and the corresponding mitigation performance standards sections of this chapter, including a discussion of the applicable development standards and cost estimates for determination of financial guarantee requirements.

F. Existing Reports. Unless otherwise provided, a critical areas report may incorporate, be supplemented by, or composed of any reports or studies required by other laws and regulations or previously prepared for and applicable to the development proposal site, as approved by the Director. At the discretion of the Director, reports previously compiled or submitted as part of a proposal for development may be used as a critical areas report to the extent that the requirements of this section and the report requirements for each specific critical area type are met. Critical areas reports shall be considered valid for five years; after such date the City shall determine whether a revision or additional assessment is necessary. Supplemental critical area report(s) may be required to provide information and analysis to address changes to the project scope and potential impacts or to changes to applicable regulations that have been made subsequent to existing, valid critical area reports.
G. Modifications to Report Requirements.

1. Limitations to Study Area. The Director may limit the required geographic area of the critical areas report as appropriate if:

a. The applicant, with assistance from the City, cannot obtain permission to access properties adjacent to the project area; or

b. The proposed activity will affect only a limited part of the subject site.

2. **Modifications to Required Contents.** The applicant may consult with the Director prior to or during preparation of the critical areas report to obtain approval of modifications to the required contents of the report where, in the judgment of a qualified professional, more or less information is required to adequately address the potential critical area impacts and required mitigation. In some cases, such as when it is determined that no geologic hazard area is present, a full report may not be necessary to determine compliance with the critical area regulations, this chapter, and in those cases a letter or reconnaissance only report may be required.

3. Additional Information Requirements. The Director may require additional information to be included in the critical areas report when determined to be necessary to the review of the proposed activity in accordance with this chapter. Additional information that may be required includes, but is not limited to:

a. Historical data, including original and subsequent mapping, aerial photographs, data compilations and summaries, and available reports and records relating to the site or past operations at the site;

b. Grading and drainage plans; and

c. Information specific to the type, location, and nature of the critical area.

20.240.082 Mitigation plan requirements.

When mitigation is required, the applicant shall submit for approval by the City a mitigation plan as part of the critical area report. Mitigation plans shall meet the minimum requirements of SMC 20.240.080 and the applicable mitigation performance standards and requirements for the impacted type(s) of critical area(s) and buffer(s), including but not limited to SMC 20.240.250, 20.240.300, and 20.240.350. When the mitigation plan is submitted separately from other types or sections of the required critical area report(s), the mitigation plan shall meet the minimum content requirements of SMC 20.240.080(E) by inclusion or reference to other existing report(s). The mitigation plan shall include, at a minimum:

A. Environmental Goals and Objectives. The mitigation plan shall include a written report identifying environmental goals and objectives of the mitigation proposed and including:

1. A description of the anticipated impacts to the critical areas, the mitigating actions proposed, and the purposes of the compensation measures, including the site selection criteria; identification of compensation goals; identification of shoreline ecological functions; and dates for beginning and completion of site compensation construction activities. The goals and objectives shall be related to the shoreline ecological functions provided by the impacted critical area; and

2. A review of the best available science supporting the proposed mitigation and a description of the report author's experience to date in restoring or creating the type of critical area proposed.

B. **Performance Standards.** The mitigation plan shall include measurable specific criteria for evaluating whether or not the goals and objectives of the mitigation project have been successfully attained at the end of the required monitoring period and whether or not the requirements of this chapter, this Master Program, and the SMA have been met.

C. Detailed Construction Plans. The mitigation plan shall include written specifications and descriptions of the mitigation proposed, such as:

1. The proposed construction sequence, timing, and duration;

2. Site plans showing grading and excavation details with minimum two-foot contour intervals:

3. Erosion and sediment control features;

4. A planting plan specifying plant species, quantities, locations, size, spacing, and density; and

5. Measures to protect and maintain plants until established.

<u>These written specifications shall be accompanied by detailed site diagrams, scaled cross-</u> <u>sectional drawings, topographic maps showing slope percentage and final grade elevations, and</u> <u>any other drawings appropriate to show construction techniques or anticipated final outcome.</u>

D. Monitoring Program and Contingency Plan.

1. A monitoring program shall be included in the mitigation plan and implemented by the applicant to determine the success of the mitigation project and any necessary corrective actions. This program shall determine if the original goals and objectives of the mitigation plan are being met.

2. A contingency plan shall be established for indemnity in the event that the mitigation project is inadequate or fails. Contingency plans include identification of potential courses of action, and any corrective measures to be taken if monitoring or evaluation indicates project performance standards are not being met. Corrective measures will be required by the City when the qualified professional indicates, in a monitoring report, that the contingency actions are needed to ensure project success by the end of the monitoring period. A performance and maintenance bond, or other acceptable financial guarantee, is required to ensure the applicant's compliance with the terms of the mitigation agreement consistent with SMC 20.240.120, Financial guarantee requirements.

3. Monitoring programs prepared to comply with this section shall include, at a minimum, the following requirements:

a. Best available scientific procedures shall be used to establish the success or failure of the mitigation project. A protocol outlining the schedule for site monitoring (for example, monitoring shall occur in years zero (as-built), one, three, and five after site construction), and how the monitoring data will be evaluated to determine if the performance standards are being met.

b. For vegetation determinations, permanent sampling points shall be established.

c. Vegetative success shall, at a minimum, equal 80 percent survival of planted trees and shrubs and 80 percent cover of desirable understory or emergent plant species at the end of the required monitoring period. Alternative standards for vegetative success, including (but not limited to) minimum survival standards following the first growing season, may be required after consideration of recommendations provided in a critical area report or as otherwise required by the provisions of this chapter.

d. A monitoring report shall be submitted as needed to document milestones, successes, problems, and contingency actions of the mitigation project. Monitoring reports on the current status of the mitigation project shall be submitted, consistent with subsection E of this section, to the City on the schedule identified in the monitoring plan, but not less than every other year. The reports are to be prepared by a qualified professional and reviewed by the City, or a qualified professional retained by the City, and should include monitoring information on wildlife, vegetation, water quality, water flow, stormwater storage and conveyance, and existing or potential degradation, as applicable.

e. Monitoring programs shall be established for a period necessary to establish that performance standards have been met, but not for less than a minimum of five years without approval from the Director.

f. If necessary, failures in the mitigation project shall be corrected.

g. Dead or undesirable vegetation shall be replaced with appropriate plantings.

h. Damage caused by erosion, settling, or other geomorphological processes shall be repaired.

i. The mitigation project shall be redesigned (if necessary) and the new design shall be implemented and monitored, as in subsection (D)(3)(d) of this section.

j. Correction procedures shall be approved by a qualified professional and the City.

k. If the mitigation goals are not obtained within the initial monitoring period, the applicant remains responsible for restoration of the impacted shoreline ecological

functions provided by the critical areas or hazard risk reduction until the mitigation goals agreed to in the mitigation plan are achieved.

E. Monitoring Reports. Monitoring reports shall be submitted to the City consistent with the approved monitoring plan.

1. The as-built report, required prior to final inspection, shall, at a minimum, include documentation of the following to establish the baseline for monitoring:

a. Departures from the original approved plans;

b. Construction supervision provided by the qualified professional;

c. Approved project goals and performance standards;

d. Baseline data for monitoring per the approved monitoring methods;

e. Photos from established photo points; and

f. A site plan showing final mitigation as constructed or installed, monitoring points, and photo points.

2. Subsequent monitoring reports shall, at a minimum, include:

a. Monitoring visit observations, documentation, and analysis of monitoring data collected;

b. Photos from photo points;

c. Determination whether performance standards are being met; and

d. Maintenance and/or contingency action recommendations to ensure success of the project at the end of the monitoring period.

3. The applicant shall be responsible for the cost (at the current hourly rate) of review of monitoring reports and site inspections during the monitoring period, which are completed by the City or a qualified professional under contract with or employed by the City.

F. Cost Estimates. The mitigation plan shall include cost estimates that will be used by the City to calculate the amounts of financial guarantees, if necessary, to ensure that the mitigation plan is fully implemented. Financial guarantees ensuring fulfillment of the mitigation project, monitoring program, and any contingency measures shall be posted in accordance with SMC 20.240.120, Financial guarantee requirements.

G. Approved Mitigation Projects – Signature. On completion of construction, an as-built report for any approved mitigation project shall be prepared and signed off by the applicant's qualified professional and approved by the City. Signature of the qualified professional on the required as-built report and approval by the City will indicate that the construction has been completed as planned.

Ecology DRAFT Required Changes, April 25, 2019 The changes in red are required to comply with the SMA (RCW 90.58) and the SMP Guidelines (WAC 173-26, Part III). Changes in blue are recommended and consistent with SMA (RCW 90.58) policy and the SMP Guidelines (WAC 173-26, Part III)

ITEM	SMP Submittal PROVISION (Cite)	BILL FORMAT CHANGES (underline = additions; strikethrough = deletions)	RATIONALE
Rec-1	Chapter	20.210.010 Definitions.	For internal consistency, clarification and ease of
	20.210 SMP	Nonconforming Use. An existing shoreline use that was lawfully constructed or established prior	implementation. Suggested language clarifies that distinction
	Demnitions	not conform to present use regulations or standards of the program.	or developments. Uses are established not constructed.
Rec-2	Chapter	20.220.050 Shoreline conditional use permit.	Minor typo error.
	20.220 SMP	*****	
	Administrative	C. The Director is authorized to issue shoreline conditional use permits only when all the criteria	
	Procedures	enumerated in WAC 173-27-160 are met, as amended from time to time.	
		1. In granting conditional use permits, consideration shall be given to the cumulative impact of additional requires requests for like actions in the area.	
Rec-3	Chapter	20 230 020 A	Minor type error. Recommend fixing the numbering in this
	20.230	A. General Environmental Policies and Regulations.	section.
	General	Policies	
	Policies and	1. The adverse impacts of shoreline developments and activities on the natural environment,	
	Regulations	critical areas and habitats for proposed, threatened, and endangered species should be	
		minimized during all phases of development (e.g., design, construction, operation, and management).	
		 Shoreline developments that protect and/or contribute to the long-term restoration of habitat 	
		for proposed, threatened, and endangered species are consistent with the fundamental goals of	
		this Master Program. Shoreline developments that propose to enhance critical areas, other	
		natural characteristics, resources of the shoreline, and/or provide public access and recreational	
		opportunities to the shoreline are also consistent with the fundamental goals of this Master	
		Reculations	
		1. All shoreline development and activity shall be located, designed, constructed, and	
		managed in a manner that mitigates adverse impacts to the environment. When applying	
		mitigation to avoid or minimize significant adverse effects and significant ecological impacts, the	

Rec-4	Chapter 20.230 General Policies and Regulations	20.230.020.A.9 9. Shoreline development shall not be permitted if it substantially degrades the natural character of the shoreline, natural resources, or public recreational use of the shoreline. "Significant" is defined in the State Environmental Policy Act (SEPA) Rules in WAC 197-11-794, as amended from time to time.	Recommend considering deleting this language. The proposed amendment removes the term "significantly impacts" and replaces it with "substantially degrades", so the reference to the definition of "significant" is no longer necessary.
Rec-5	Chapter 20.240 SMP Critical Areas Regulations	20.240.040.C.1 Modifications to Existing Structures within Critical Areas. Structural modification of, addition to, maintenance, or replacement of legally nonconforming structures consistent with SMC 20.220.150, which do not meet the building setback or buffer requirements for wetlands, fish and wildlife habitat conservation areas, or geologic hazard areas if modification, addition, replacement or related activities does not increase the existing building footprint of the structure or area of hardscape lying within the critical area or buffer. Within landslide hazard areas, additions that add height to a nonconforming structure may only be allowed with review of a critical area report demonstrating that no increased risk of the hazard will occur. If such modification, alteration, repair, or replacement requires temporary or construction related encroachment into a critical area or a critical area buffer to perform the work, then encroachment may be allowed subject to restoration of the area of encroachment to a same or better condition.	For internal consistency, clarification and ease of implementation. Suggested language clarifies that this allowance still doesn't authorize an expansion into the critical area or buffer, but acknowledges that access or other associated construction impacts may have to occur in order to complete the work authorized by SMC 20.240.040 and that those temporary impacts must be mitigated.
Rec-6	Chapter 20.240 SMP Critical Areas Regulations	20.240.050 In general, critical areas and buffers shall be maintained in their existing state including undisturbed, native vegetation to maintain the functions, values, resources, and public health and safety for which the critical areas and buffers are protected or allowed as the current, developed legally established condition such as graded areas, structures, pavement, gardens and lawns. Alteration of critical areas, including their established buffers, may only be permitted subject to the criteria and standards of this chapter, and compliance with any Federal and/or State permits required. Unless otherwise provided in this chapter, if alteration of the critical area is unavoidable, all adverse impacts to or from critical areas and buffers resulting from a development proposal or alteration shall be mitigated using the best available science in accordance with an approved critical areas report, so as to result in no overall net loss of shoreline ecological function provide by the critical area and no increased risk of hazard. <u>Alterations that exceed the allowances of or that do not meet the approval criteria of this chapter, can only be authorized through a Shoreline Variance consistent with SMC 20.220.040.</u>	For internal consistency, clarification and ease of implementation. Suggested language clarifies that this chapter provides some limited allowances for critical area and buffer alterations which must use BAS and result in no net loss of shoreline ecological function, all other alterations can only be authorized via a shoreline variance.
Req-1	Chapter 20.240 SMP Critical Areas Regulations	20.240.056 Shoreline restoration projects <u>– Relief from shoreline master program development</u> <u>standards and use regulations.</u> <u>The City may grant relief from Master Program development standards and use regulations</u> <u>resulting from shoreline restoration projects consistent with criteria and procedures in WAC 173-</u>	For consistency with RCW 90.58.580 and WAC 173-27-215. The SMP Periodic Review Checklist submitted by the City identifies this 2009 legislation as occurring before the City Comprehensively updated this SMP and proposed no action
		27-215. Shoreline restoration projects, defined as projects designed to restore impaired	to address RCW 90.58.580.

	ecological functions of a shoreline, shall be reviewed and permitted or approved by the City and any other agency with jurisdiction consistent with criteria established in WAC 173-27-215 and RCW 90.58.580, as amended from time to time.	The above referenced State Statue and Rule do not provide criteria for approval of shoreline restoration projects; they provide a relief mechanism and approval criteria for granting relief from the SMP use and development standards when a restoration project results in a landward shift in the OHWM that brings additional properties into the shoreline jurisdiction or adds additional regulatory requirements that create a demonstrable hardship.
20.240 SMP Critical Areas Regulations	 ****** C. Minimum Performance Standards for Restoration. 1. For alterations to aquifer recharge areas, wetlands, and fish and wildlife habitat conservation areas, the following minimum performance standards shall be met for the restoration; provided, that if the violator can demonstrate that greater shoreline ecological functions provided through the functions and values provided by these critical areas can be obtained, these standards may be modified: a. The pre-violation function and values of the affected critical areas and buffers shall be restored, including water quality and habitat functions; b. The critical area and buffers shall be replanted with native vegetation that replicates the vegetation historically, or pre-violation, found on the site in species types, sizes, and densities. The pre-violation functions and values should be replicated at the location of the alteration; and c. Information demonstrating compliance with the requirements in SMC 20.240.082, Mitigation plan requirements, and the applicable mitigation sections for the affected type(s) of critical area(s) and their buffer(s) shall be submitted to the Director with a complete site development permit application. 	shoreline ecological function standard. Flood hazard and geologic hazard areas within the shoreline often contribute to the overall shoreline ecological function and value and as this is currently written only the health and safety risk is being addressed with the mitigation requirement.
	 2. For alterations to flood hazard and geologic hazard areas, the following minimum performance standards shall be met for the restoration of a critical area; provided, that if the violator can demonstrate that greater safety can be obtained, these standards may be modified: a. The hazard shall be reduced to a level equal to, or less than, the pre-violation hazard; b. Any risk of personal injury resulting from the alteration shall be eliminated or minimized; and c. The hazard area and buffers shall be replanted with native vegetation sufficient to minimize the hazard and restore the functions and values. 	

Req-2 Chapter 20.240 SMP 20.240.324 Wetlands – Development standards. For and Critical Areas Regulations E- Category IV Wetlands, Except Small Hydrologically Isolated Wetlands. Development activities and uses that result in unavoidable impacts may be permitted in Category IV wetlands and associated buffers in accordance with an approved citical area(s) report and compensatory mitigation plan, and only if the proposed activity is consistent with the purpose and intent of the SMA, this Master Program, and this chapter. Full compensation for the loss of acreage and functions and values of wetland and buffers chall be provided in compliance with the mitigation performance standards and requirements of these regulations. F. Small, Hydrologically isolated Category IV wetlands to be exempt from the avoidance sequencing provisions of SMC 20.240.053 and subsection D of this section and allow alteration of such wetlands: provided, that a submitted critical area report and mitigation plan provides evidence that all of the following conditions are met: 1. The wetland is loss than 1,000 square feel in area; 2. The wetland does not contain habitat identified a essential for local populations of priority species identified by WDEW or species of local importance which are regulated as its and widiff habitat conservation areas in Chapter 20.240. Subchapter 3; 4. The wetland is not associated with riparian areas or buffers; 5. The wetland is not associated with riparian areas or buffers; 5. The wetland is not associated with riparian areas or buffers; 5. The wetland is not associated with SMC 20.240.350. •	r consistency with WAC 173-26-201(2)(a) Use of scientific d technical information. All SMP provisions must use the most current, accurate, and complete scientific and technical information available, as relevant or applicable to the issues of concern. The most recent Ecology <i>Wetland Guidance for CAO Updates</i> – <i>Western Washington Version, June 2016 (Publication</i> <i>No. 16-06-001)</i> does not support this provision. The above referenced BAS guidance provides that isolated Category IV wetlands less than 4,000 sq ft and all wetlands less than 1,000 sq ft can be exempt from the requirement to avoid impacts and can be impacted if fully mitgated. However, this allowance only applies to wetlands that are <u>not</u> associated with shorelines of the state or their buffers. r consistency with WAC 173-26-201(2)(c) Protection of ological functions of the shorelines. <i>Nearly all shoreline areas,</i> <i>an substantially developed or degraded areas, retain important</i> <i>ological functions</i> . This proposed exception does <u>not</u> adequately protect critical areas within the shoreline and could result in a net loss of shoreline ecological function. Shoreline ecosystems are interconnected. For this reason the SMA policies and guideline requirements for SMP regulations are intended to provide for protection of all ecological functions and generally apply to all shoreline areas, not just those that remain relatively unaltered. <i>Even in situations where uses or development that impact</i> <i>ecological functions are necessary to achieve other objectives of</i> <i>RCW 90.58.020, master program provisions shall, to the</i> greatest extent feasible, protect existing ecological functions and avoid new impacts to habitat and ecological functions before implementing other measures designed to achieve no net loss of ecological functions.
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Rec-8	Chanter	20 240	330 Watland	ds – Requir	ed huffer	areas			Buffer averaging can be permitted without a shoreling
	20.240 SMP	A. Buff	er Requirer	nents. The	standard	buffer wid	variance provided the criteria provided are met. As written		
	Critical Areas	establis	shed in acco	rdance with	the best	available s	this allowance is consistent with Ecology guidance		
	Regulations	determi	ined based of	on the cated	porv of we	tland and	(Wetland Guidance for CAO Updates – Western		
	g	wetland	profession	al using the	Washingt	on State \	Netland F	a System for Western	Washington Version, June 2016 (Publication No. 16-06-
		Washin	igton.	0	0			5 ,	001) and can be utilized without resulting in a net loss of
		******	***						shoreline ecological function.
		6. Buffe	er averaging	, through a	shoreline	variance o	consistent	n 20.220.040, may be permitted	The Shoreline variance process would be the relief
		when a	Il of the follo	wing are m	et:				mechanism available to an applicant that cannot meet
		a. Ther	e are no fea	sible alterna	atives to th	he site des	sign that o	d be accomplished	these bulk, dimensional, or performance standards.
		without	buffer avera	aging;					• Category IV wetlands are provided a 40 foot buffer. 75% of
		b. The a	averaged bu	uffer will not	result in c	degradatio	n of the w	nd's functions and	40 feet is 30 feet. The code provision says three-fourths of
		values	as demonsti	rated by a c	ritical area	as report f	rom a qua	d wetland professional;	the required buffer or 25 feet, whichever is greater. 30 feet
		c. The t	total buffer a	area after av	eraging is	s equal to	the area r	ired without averaging;	is greater than 25 feet so it would always apply. For
		and							clarification, this should be modified to delete the 25 foot
		d. The	butter at its i	narrowest p		/er less th	an eitner	e-rourths of the	reference which could not be applied and replace with 30
		Cotogo	a wiath of 7:		ategory i a	ina II, 50 I	eet for Ca	bry III, and $\frac{2530}{2530}$ reet for	feet.
Reg-3	Chanter	20 240	350 Wetlan	de - Comp	ancatory n	nitigation r	orforman	standards and requirements	For consistency with WAC 173-26-201(2)(a) Use of scientific
NC4-0	20.240	20.240.	Table 20.240.350(G	G). Wetland mitigatio	n ratios apply who	en impacts to wet	lands cannot be	standards and requirements.	and technical information and WAC 173-26-201(2)(c)
	SMP Critical		avoided or are	e otherwise allowed	consistent with th	ne provisions of t	Protection of ecological functions of the shorelines.		
	Areas			Creation or					All SMP provisions must use the most current, accurate.
	Regulations		Category and Type	Reestablishment	Rehabilitation	Enhancement	Preservation		and complete scientific and technical information available.
	Ŭ		of Wetland ²	(Area – in square	<u>feet)</u>	square feet)	are t)		as relevant or applicable to the issues of concern. The
			Catagory I: Roood	<u>reet)</u>	0.1	16.1	20		most recent Ecology Wetland Guidance for CAO Updates
			on total score for	<u></u>	0.1	10.1	20		 Western Washington Version, June 2016 (Publication
			functions						No. 16-06-001) provides that mitigation ratios for
			Category I: Mature	<u>6:1</u>	<u>12:1</u>	<u>24:1</u>	<u>24:1</u>		preservation in combination with other forms of mitigation
			forested						generally range from 10:1 to 20:1, as determined on a
			Category I:	Case-by-case	<u>6:1</u>	Case-by-case	Case case		case-by-case basis, depending on the quality of the
				2.1	6.4	10.1	2014		wetlands being impacted and the quality of the wetlands
			on total score for	<u>3.1</u>	0.1	12.1	20.		being preserved. Ratios for preservation as the sole
			functions						The proposed process writing only entire for writing d
			Category III (all)	<u>2:1</u>	<u>4:1</u>	<u>8:1</u>	15		Inis proposed preservation only option for wetland mitigation does not components for last or impacted
1	1		Cotogony IV/ (all)	4.5.4	2.1	0.1			I miligation does not compensate for lost of impacted

Rec-9	Chapter	Subchapter 5.	It does not appear that the incorporation of the City's Chapter
	20.240 SMP	Shoreline Flood Hazard Areas	13.12 SMC Flood Hazard Regulations is necessary to meet
	Critical Areas		the frequently flooded areas protection standards of the SMA
	Regulations	20.240.360 Floodplain Management. The following policies and regulations must be factored	and associated guideline of WAC 173-26. The City has also
		into decisions regarding all flood management planning and development within that portion of	previously identified implementation issues related to the
		the 100-year floodplain that falls within Shoreline's shoreline jurisdiction (within 200 feet of	incorporation and updating of the Chapter 13.12 SMC flood
		<u>OHWM).</u>	hazard regulations.
		Floodplain management involves actions taken with the primary purpose of preventing or	
		mitigating damage due to flooding. Floodplain management can involve planning and zoning to	Please consider the recommended modifications as a
		control development, either to reduce risks to human life and property, or to prevent development	means to provide clarity and ease of implementation that
		from contributing to the severity of flooding. Floodplain management can also address the design	remains consistent with both the obligations under the
		of developments to reduce flood damage and the construction of flood controls, such as dikes,	SMA and NFIP for properties containing floodplains. We
		dams, engineered floodways, and bioengineering.	recommend not incorporating Chapter 13.12 SMC by
		Policy	reference into the Master Program and instead retaining the
		1. Flood management planning should be undertaken in a coordinated manner among affected	City's current Master Program Floodplain Management
		property owners and public agencies and should consider the entire coastal system. This	provisions, noted in underline in the column to the left
		planning should consider off-site impacts such as erosion, accretion, and/or flood damage that	because this language aligns with the below noted wAC
		Might occur it shore protection structures are constructed.	requirements and these issues are <u>not</u> similarly addressed in the Citu's flood bezord provisions of Chepter 12 12 SMC
		2. Nonstructural control solutions are preferred over structural nood control devices, and should he used	the City's hood hazard provisions of Chapter 13.12 Sivic.
		be used wherever possible when control devices are needed. Nonstructural controls include such	Ear consistency with W/AC 172 26 221(2) 8 (2) and PCW
		increases in peak flow rupoff from new upland development. Structural solutions to reduce	36 70A (180(3)(d) The protection of critical areas occurring
		shoreline damage should be allowed only after it is demonstrated that ponstructural solutions	within the shoreline jurisdiction shall be through the authorities
		would not be able to reduce the damage	of the SMA (via the SMP) and not through the GMA (via the
		3 Substantial stream channel modification realignment and straightening should be discouraged	CAO) Frequently flooded areas are defined as a critical area
		as a means of flood protection	and subject to this requirement: therefore the City's SMP must
		4. Where possible, public access should be integrated into the design of publicly financed flood	include provisions for the regulations of these critical areas
		management facilities	within the SMP. However, the referenced Flood Hazard Areas
			regulations appear not to be critical areas protection
		20.240.36070 Flood hazard – Description and purpose.	provisions but NFIP minimum requirements and Floodplain
		A. A flood hazard area consists of the special flood hazard areas and protected areas as defined	regulations adopted pursuant to chapter 86.16 RCW.
		in Chapter 13.12 SMC Floodplain Management, which comprise the regulatory floodplain are	5 1 1 1 1 1
		regulated separately from this Master Program.	Pursuant to WAC 173-26-221(3)
		B. It is the purpose of these Chapter 13.12 SMC regulations to ensure that the City meets the	Master programs shall implement the following principles:
		requirements of the National Flood Insurance Program and maintains the City as an eligible	Where feasible, give preference to nonstructural flood hazard
		community for Federal flood insurance benefits.	reduction measures over structural measures.

20.240.370 Flood hazar Flood hazard areas shall floodplain management r identified on the 100-yea Management Agency (FI SMC 13.12.300. 20.240.380 Flood hazar All development within de Floodplain Management, regulations of this chapter Development occurring v Emergency Managemenn identified in SMC 13.12.3 the regulatory and permited the regulatory and permited Floodplain Management of this chapter SMC 13.12.3 The regulatory and permited Floodplain Management of this chapter All development occurring v Emergency Management of this chapter All development occurring v Emergency Management of this chapter The regulatory and permited Floodplain Management of this chapter Hereit of this chapter of this chapter Hereit of this chapter of this chapter of this chapter Hereit of this chapter of this chapter of this chapter of this chapter All development occurring v Emergency Management of this chapter of the this chapter of this chapter of this chapter of the this chapter of the this chapter of this chapter of this chapter of the this chapter of th	d – Designation and classification. be designated and classified pursuant to the requirements of the egulations, Chapter 13.12 SMC, which include, at a minimum, all lands r floodplain designations of the current Federal Emergency EMA) flood insurance rate map (FIRM) for King County as identified in d – Development limitations. Designated flood hazard areas shall comply with Chapter 13.12 SMC, as now or hereafter amended, and is not further subject to the r. dithin the 100-year floodplain designations of the current Federal t Agency (FEMA) flood insurance rate map (FIRM) for King County as 100 which is also located in the shoreline jurisdiction shall be subject to a authorities of both the Master Program and Chapter 13.12 SMC.	 Assure that flood hazard protection measures do not result in a net loss of ecological functions associated with the rivers and streams. Master programs shall implement the following standards: Development in flood plains should not significantly or cumulatively increase flood hazard or be inconsistent with a comprehensive flood hazard management plan adopted pursuant to chapter <u>86.12</u> RCW New development or new uses in shoreline jurisdiction, including the subdivision of land, should not be established when it would be reasonably foreseeable that the development or use would require structural flood hazard reduction measures within the channel migration zone or floodway. Allow new structural flood hazard reduction measures in shoreline jurisdiction only when it can be demonstrated by a scientific and engineering analysis that they are necessary to protect existing development, that nonstructural measures are not feasible, that impacts on ecological functions and priority species and habitats can be successfully mitigated so as to assure no net loss, and that appropriate vegetation conservation actions are undertaken consistent with WAC 173-26-221(5). The City's SMP already contains Flood Hazard Management Goals and Objectives and has regulations that prohibit Structural Flood Hazard Reduction measures such as dikes and levees, and prioritize soft shoreline stabilization over hard shore options and promotes shoreline habitat and natural systems enhancement projects within the Permitted Uses and Modifications Table 20.230.081. SMC 20.230.020(A)(4) and SMC 20.230.150 contains the majority of the City's regulations addressing frequently flooded areas. *We are open to other options for resolving this issue, please feel free offer other alternatives.
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CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Discussion of the King County Homelessness System Redesign					
DEPARTMENT:	Community Services Division					
PRESENTED BY:	Colleen Kelly, Community Services Manager					
ACTION:	Ordinance Resolution Motion					
	<u>X</u> Discussion Public Hearing					

PROBLEM/ISSUE STATEMENT:

King County and the City of Seattle are actively working to implement a number of recent recommendations related to improving the regional response to homelessness. This agenda item is intended to provide the Council with an overview of that process and an opportunity to ask questions of the consultants and county staff working most directly on this initiative. An early goal is to have an Interlocal Agreement adopted by both the King County and the City of Seattle Councils by December of this year that would establish a consolidated Regional Authority responsible for the homelessness crisis response system.

Tonight, Council will hear from King County staff and representatives from two consulting firms regarding their work on this issue and their progress so far. They are:

- Kira Zylstra, Acting Director of All Home,
- Kelly Rider, Government Relations Specialist for the King County Department of Community and Human Services,
- Ann Oliva with the Corporation for Supportive Housing (CSH), and
- Marshall Buxton with National Innovation Service (NIS).

NIS has been on point for working with the community to develop a Theory of Change and a set of recommended action steps for the region to implement. NIS also has the primary responsibility for all of the community engagement work on this issue. CSH is working to develop a Regional Action Plan meant to guide the work of a consolidated Regional Authority. Together, our guests will present an overview of their work related to the regional homelessness response system and their progress to date. This will be an opportunity for the Council to ask clarifying questions and offer input on open policy issues.

RESOURCE/FINANCIAL IMPACT:

There is no direct financial impact to the City of Shoreline at this time. Indirectly, a new regional authority is being proposed which would have responsibility for allocating related funding from several county-wide levies and sales tax initiatives that currently support services to residents throughout King County, including Shoreline.

RECOMMENDATION

No action is required. Staff recommends that Council engage with the presenters as needed to ensure a solid understanding of the proposed system changes, offer input on specific questions posed and learn about and clarify level of interest in future opportunities to offer input to the process.

Approved By: City Manager **DT** City Attorney **MK**

INTRODUCTION

The issue of homelessness has a been a regional challenge for many years. As the scale of the problem has continued to grow, there have been a variety of efforts to assess what is working and what is not working with regard to the regional response system in our county. This agenda item is focused on the most recent assessments and work that is currently underway to address the findings of those assessments.

BACKGROUND

In February of this year, staff presented to Council an overview of current services available to individuals in Shoreline experiencing homelessness and/or opioid addiction. The staff report for this Council discussion can be found at the following link: <u>Discussing Council Goal 5 – Action Step 9: Engage in an Analysis with Service</u> <u>Providers to Identify What Services and Processes Exist to Connect those Experiencing</u> <u>Homelessness and/or Opioid Addiction with Supportive Services and Identify Gaps That</u> <u>May Exist</u>.

Tonight's discussion item will provide information regarding the regional context for the City's efforts specifically related to services for those experiencing homelessness.

<u>History</u>

In 2005, King County developed a Ten-Year Plan to End Homelessness. Despite significant effort and investment over the next ten years, even more people were experiencing homelessness in 2015. At that time, the regional approach shifted to developing regional strategies focused on:

- Keeping people from becoming homeless in the first place,
- For those who do become homeless, working to make it is as brief an experience as possible, and
- Ensuring that individuals and families do not experience homelessness again.

With this shift, the King County Committee to End Homelessness evolved into what is now All Home, yet the region has continued to struggle with high number of individuals and families experiencing homelessness.

In 2016, two studies were commissioned by the City of Seattle and its partners. One was led by <u>Barbara Poppe and Associates</u> and the other by <u>Focus Strategies</u>. Both made a number of recommendations focused on improving the homelessness response system as a whole.

On May 1, 2018, the King County Auditor released a <u>report</u> finding that the region's fragmented governance structure related to homelessness was "too weak to drive change". On May 3, 2018, the Mayor of Seattle and the King County Executive signed a Memorandum of Understanding (<u>MOU</u>) committing Seattle and King County to coordinate all Requests for Proposals for homelessness services, and to improve data collection, analysis, and evaluation efforts related to homelessness investments. The MOU also called for recommendations to revise the region's homelessness governance structure. To that end, Seattle, King County, All Home, and certain philanthropic and

business partners retained several consultants to assist with the work identified in the MOU.

Current Efforts

Focus Strategies, hired by Vulcan and the Ballmer Group, has conducted a "critical assessment" of the region's homelessness investments to analyze what investments the region is making, whether the investments shifted as a result of the findings in the 2016 reports, and what difference, if any, those shifts may have made. That report has not been publicly released.

The other consulting partners working on this process are National Innovation Services (NIS), which was formerly known as Future Laboratories, and the Corporation for Supportive Housing (CSH). NIS worked with stakeholder groups to develop a Theory of Change which was subsequently approved by the All Home Governing Board and which states:

If we create a homelessness response system that centers customer voice, *then we will* be able to focus on responding to needs and eliminating inequities, *in order to* end homelessness for all.

On December 14, 2018, NIS released a report that contained a list of <u>10 recommended</u> <u>actions</u> to improve the region's response to the homelessness crisis.

Tonight, representatives from King County, CSH and NIS will provide an overview of the system redesign process to date, their role in moving the work forward and the current status of the regional effort overall. Two current areas of focus will be discussed in detail:

- The proposal to establish a consolidated regional entity (being led by NIS; to be approved by the Seattle and King County Councils and potentially other cities).
- The development of a Regional Action Plan (being led by CSH; envisioned to be adopted by the governance board of the new Regional Authority).

The Regional Action Plan is intended to serve as the guiding policy and work plan for the new Regional Authority to implement. It will set system performance goals and outline measures and investment levels needed to meet those goals. The results of the critical assessment report (discussed above) will also inform the Regional Action Plan.

DISCUSSION

Tonight, Council will hear from King County staff and representatives from two consulting firms regarding their work on this issue and their progress so far. They are:

- Kira Zylstra, Acting Director of All Home,
- Kelly Rider, Government Relations Specialist for the King County Department of Community and Human Services,
- Ann Oliva with the Corporation for Supportive Housing (CSH), and
- Marshall Buxton with National Innovation Service (NIS).

NIS has been on point for working with the community to develop a Theory of Change and a set of recommended action steps for the region to implement. NIS also has the primary responsibility for all of the community engagement work on this issue. CSH is working to develop a Regional Action Plan meant to guide the work of a consolidated Regional Authority. Together, our guests will present an overview of their work related to the regional homelessness response system and their progress to date. This will be an opportunity for the Council to ask clarifying questions and offer input on open policy issues.

The attached presentation from King County (Attachment A) outlines a number of specific questions posed by King County to which the Council will be asked to offer input or other comments. In addition, the presenters are available to answer any specific questions the Council may have. Staff has provided some context for Council for some of these questions that might be helpful to Council in engaging with our guests tonight. The questions and responses are below:

- Regional Authority Governing Board Make-Up and Role--Who should be on it and what authority should it have?
 While staff doesn't have a specific recommendation regarding who should be on the Governing Board, staff does feel that it is important that there is representation from cities from King County on the Board, and it not just be made up of representatives from King County and the City of Seattle. Whether this representation be identified through the Sound Cities Association or through other means, having other cities have a role and voice in shaping homelessness services in the region is important.
- What goals does your community want to achieve regarding homelessness? Shoreline to date has primarily focused on finding long-term, permanent solutions for those experiencing homelessness through the development of permanent supportive housing. This has been developed in partnership with both provider agencies and with King County. A continued focus on these long-term solutions, while also working to support those experiencing homelessness today, are the City's goals. As the development of permanent supportive housing is both costly and time intensive, finding interim solutions, such as supporting the development of additional shelter capacity and strengthening connections to currently available housing, is work that the City would like to provide additional focus on going forward.
- Do you have any successful strategies in place already? Shoreline's partnership with the development of Ronald Commons and the 198th Street Affordable Housing Project have been successful permanent supportive housing partnerships in the city. Shoreline has also successfully partnered with Lake City Partners on a Winter Shelter program and Street Outreach Worker program. The City has also made a commitment to increase human service funding to equal 1.00% of general fund revenues in the coming year, much of which goes to service providers working to address homelessness in the community. The City Council also more recently undertook a service provision

gap analysis to better understand what additional strategies and efforts may be needed to address homelessness issues in Shoreline and North King County.

• Where is your greatest need? The greatest needs in Shoreline are for more permanent supportive housing, improving on-demand access to treatment services for mental health and substance use disorders and strengthening the City's outreach and connection efforts to individuals in our community in need of housing and other services.

COUNCIL GOAL ADDRESSED

This staff report relates to Council Goal #5 which calls for promoting and enhancing the City's safe community and neighborhood programs and initiatives, and more specifically, Action Step #9 relating to strategies for addressing gaps that exist in connecting those experiencing homelessness and/or opioid addiction with supportive services.

RESOURCE/FINANCIAL IMPACT

There is no direct financial impact to the City of Shoreline at this time. Indirectly, a new regional authority is being proposed which would have responsibility for allocating related funding from several county-wide levies and sales tax initiatives that currently support services to residents throughout King County, including Shoreline.

RECOMMENDATION

No action is required. Staff recommends that Council engage with the presenters as needed to ensure a solid understanding of the proposed system changes, offer input on specific questions posed and learn about and clarify level of interest in future opportunities to offer input to the process.

ATTACHMENTS

Attachment A: DRAFT King County Homelessness System Redesign Presentation

REDESIGNING THE HOMELESSNESS SYSTEM IN KING COUNTY

SHORELINE CITY COUNCIL JUNE 17TH, 2019

TODAY'S PRIORITIES

- What's our Timeline?
- What are We Solving for?
- What is Being Recommended?
- What to Expect Next?
- Discussion



KEY DATES IN HOMELESS SYSTEM REDESIGN

- May, 2018: King County Auditor releases <u>homelessness system</u> recommendations
- May, 2018: King County-Seattle <u>MOA</u> to explore unified homelessness governance
- Dec, 2018: National Innovation Service (NIS) <u>Homeless System Redesign</u> <u>Report</u> released, highlighting 10 Actions needed to optimize system towards equity and impact
- March 29, 2019: King County HHHS Briefing on the Homeless System Redesign Recommendations
- April 30, 2019: King County HHHS Briefing on Unified Governance Approach
- May 8, 2019: Sound Cities Association Policy Issues Committee (PIC) Briefing
- May 31, 2019: Point in Time Count & Data Dashboards Released
- June 4, 2019: King County HHHS Briefing re: Point in Time Count, Data Dashboards, and Homelessness Governance

🗿 King County

Brief Overview: Work Products and 2019 Planned Actions



WHAT ARE WE SOLVING FOR?

- Fragmentation
- Funding Difficulties
- Poorly Articulated Successes
- Growing Problem
- No Shared Theory of Change

ALL towards the goal of improving outcomes for people experiencing homelessness



CONTRACTS HELD AND MONITORED BY A VARIETY OF ENTITIES





^{9a-12} Source: KC Auditor. 2018

CONTINUUM OF CARE (COC)

- Federally mandated body to coordinate federal funding and ensure compliance with federal law
- Receives CoC funds from HUD
- Required to:
 - 1. Ensure collection of homeless system performance data (a "Homeless Management Information System" or HMIS)
 - 2. Establish and operating a coordinated needs assessment and referral process ("coordinated entry")
 - 3. Perform analysis to identify gaps in regional homeless services needs.
- In King County, All Home is the CoC lead
- All Home delegates collection and management of performance data and management and operations of Coordinated Entry to DCHS.

REGIONAL HOMELESSNESS FUNDERS

- Federal: CoC Funds, with contracts managed by King County or Seattle
- Housing Authorities: federal housing vouchers
- **King County** (DCHS): local levies, document recording fees and pass through of federal dollars
- Seattle and other cities': general funds, housing dollars
- Private Dollars: Philanthropy (United Way, Raikes Foundation, Gates Foundation, etc.), Businesses, Private Donors, Faith Community

WHAT IS BEING RECOMMENDED?

- New Regional Authority
- Equity-Centered
- Data Driven
- Community-wide Commitment



HOMELESS SYSTEM REDESIGN

THE 10 ACTIONS ARE INTERCONNECTED AND REINFORCING

PHASE I ACTIONS

- 1. Institute a System-wide Theory of Change,
- 2. Become accountable to customers,
- 3. Consolidate homelessness response systems under one regional authority,
- 4. Create a defined public/private partnership utilizing a funders collaborative model,

And,

Develop a Regional Action Plan

PHASE II ACTIONS

- 5. Prioritize economic stability to reduce inflow
- 6. Improve customer outcomes through a comprehensive digital transformation
- 7. Design intake processes that are connected, customer-centric and radically accessible
- 8. Increase access to 0-30% AMI housing
- 9. Expand physical and behavioral health options for people experiencing homelessness
- 10. Create long-term institutional alignment across systems to serve people experiencing homelessness

-Homelessness Response System. Dec, 2019. Future Laboratories (now NIS). <u>https://hrs.kc.nis.us</u>



INSTITUTE A SYSTEM-WIDE THEORY OF CHANGE

If we create a homelessness response system that centers customer voice, then we will be able to focus on responding to needs and eliminating inequities, in order to end homelessness for all.



BECOMING ACCOUNTABLE TO CUSTOMERS (PEOPLE EXPERIENCING HOMELESSNESS)

- Include people with lived experience of homelessness in the planning, design and implementation of the redesign of the homeless system
- Implement a continuous quality improvement framework driven by customer voice
- Build governing structures that center customer voice and align with the system-wide theory of change



DEVELOPMENT OF A REGIONAL AUTHORITY

- Legal Structure
- Governing Board
- Scope of services/powers/functions of new regional authority
- Budget authority/appropriation process
- Sub-regional Coordination and Planning Support
- Guided by a Regional Action Plan (RAP)



WHAT IS THE REGIONAL ACTION PLAN?

- It is the community's plan, not just a plan for the Regional Authority.
- It will provide action-oriented solutions to challenges identified through a community engagement process, data analysis, and the NIS 10 Actions Report.
- It will lay out metrics and milestones to track towards established goals.
- Each action will have an accountable person/organization.
- It will provide recommendations on sequencing and/or parallel processes in a variety of categories.
- It will project costs for interventions and provide underpinning for budget process.
- Most importantly, it should be a living document, not something that sits on a shelf.



CSH PROCESS FOR DEVELOPING THE REGIONAL ACTION PLAN





TOUCH POINTS

Initial Engagement

- What goals does the community want to achieve regarding homelessness?
- What priorities are most important for the community and who should drive the plan?
- What would make this work successful to you?

Review of Models:

- Review of gaps and needs identified
- Review potential costs and impact over 18 mos/3yrs/5yrs
- Questions –What scenarios best reflect the community's values/theory of change? What scenarios are most viable?

Review/Approval/Support of RAP:

- Formal briefings and overview with stakeholders
- Executive Board of the Regional Authority (when in place)
- CoC Board, City, County, SCA leadership, PHAs and Councils
- Define what does support means for each stakeholder



WHAT TO EXPECT NEXT FOR THE RAP?

- Set meeting times for co-creation and input
- Data review and needs/cost analysis
- Review of engagement process from Fall 2018/Identify and address gaps
- Development of models/options for review
- Action-oriented solutions to address challenges identified and lift up what is working
- Further engagement and discussion of proposed steps
- September deliverable


Work Products and 2019 Planned Actions



TYPES OF ENGAGEMENT

- Underway:
 - Steering committee and workgroups
 - SCA PIC briefings
 - KC Councilmember and Staff Briefings
 - Monthly provider meetings with Leo Flor, Kira Zylstra, and Jason Johnson
 - Community workshops
- Gearing Up:
 - Sub-regional engagement, starting June 6
 - Regional Policy Committee Briefings, June 12 and July 10
 - More provider and community workshops



SCA/SUB-REGIONAL ENGAGEMENT UPDATE

- SCA staff Christa Valles is participating in monthly Steering Committee meetings
- SCA PIC continues to hold monthly briefings/discussions
- SCA Identified Lead Electeds and Staff for Engagement:
 - Mayor Nancy Backus, Auburn
 - Mayor John Chelminiak, Bellevue
 - Council President Prince, Renton
 - Merina Hanson, Kent
 - Colleen Kelly, Shoreline
- DCHS is scheduling briefings/workshops with sub-regional collaborations including:
 - Eastside Homelessness Advisory Committee (EHAC), June 6
 - South King County Homelessness Advisory Committee (HAC), June 19
 - North Urban Human Services Alliance (NUHSA)



What else 93 4 feeded?

NO DECISIONS HAVE BEEN MADE-WHAT ARE YOUR THOUGHTS?

Our Questions for You:

- Regional Authority Governing Board Make-Up and Role--Who should be on it and what authority should it have?
- What goals does your community want to achieve regarding homelessness?
- Do you have any successful strategies in place already?
- Where is your greatest need?
- What would make this work successful to you?
- Role of and process for sub-regional/community tailoring?
- Ongoing Community and City Engagement-what is needed?

Your Questions for Us????

CITY COUNCIL AGENDA ITEM

CITY OF SHORELINE, WASHINGTON

AGENDA TITLE:	Discussing Ordinance No. 863: Minor Amendments to the Aurora
	Square Community Renewal Area Planned Action Ordinance
DEPARTMENT:	Planning & Community Development
PRESENTED BY:	Rachael Markle, AICP, Director of Planning & Community
ACTION:	Ordinance Resolution Motion
	<u>X</u> Discussion Public Hearing

PROBLEM/ISSUE STATEMENT:

On August 10, 2015, the City Council adopted Ordinance No. 705 (Attachment A) designating a Planned Action for the Aurora Square Community Renewal Area (CRA). The Planned Action for the CRA is based on the Environmental Impact Statement (EIS) that was finalized on July 25, 2015.

On March 8, 2019, the City issued a State Environmental Policy Act (SEPA) Addendum for the Planned Action EIS. The Addendum was necessary to correct information reported incorrectly in the Planned Action EIS related to PM Peak Hour Trip Generation by Alternative.

Ordinance No. 705 includes a table that references the same data that was corrected with the March 8, 2019 Addendum. For consistency, this table needs to be amended to correct these same data errors.

Proposed Ordinance No. 863 provides for this amendment. Tonight, Council is scheduled to discuss proposed Ordinance No. 863. This Ordinance is currently scheduled to be brought back to Council for adoption on July 22, 2019.

RESOURCE/FINANCIAL IMPACT:

Adoption of Ordinance No. 863 will not create any resource or financial impacts.

RECOMMENDATION

No action is required. The Planning Commission recommends approval of Ordinance No. 863 which corrects a transcription error in Ordinance No. 705 the Planned Action for the Aurora Square Community Renewal Area (CRA).

BACKGROUND

On August 10, 2015, the City Council adopted Ordinance No. 705 (Attachment A) designating a Planned Action for the Aurora Square Community Renewal Area (CRA). A Planned Action involves the upfront analysis of environmental impacts and mitigation measures to spur private development by facilitating environmental review of subsequent individual development projects to streamline the development process. The Planned Action for the CRA is based on the Environmental Impact Statement (EIS) that was finalized on July 25, 2015. Documents related to the Planned Action, including the Draft and Final EIS, can be reviewed at the following link: http://www.shorelinewa.gov/business/aurora-square-community-renewal-area.

On March 8, 2019, the City issued a State Environmental Policy Act (SEPA) Addendum for the Planned Action EIS. The purpose of an Addendum is to provide additional information or analysis that does not substantially change the analysis of the significant impacts and alternatives studied. The Addendum was necessary to correct information reported incorrectly in the Planned Action EIS related to PM Peak Hour Trip Generation by Alternative. Notice of this Addendum was circulated to those receiving the Final EIS. A copy of the Addendum is attached as Attachment B.

Ordinance No. 705 includes a table that references the data that was corrected with the March 8, 2019 Addendum. For consistency, this table needs to be amended to correct these same data errors.

DISCUSSION

Chapter 3.3 of the Planned Action Draft EIS addresses transportation. The City recently determined that trip generation numbers were incorrectly reported in the EIS. The Shoreline Place Development Agreement application submitted on December 21, 2018 was the first project requesting to qualify as a Planned Action under the Planned Action Ordinance. In addition to the Development Agreement application, the applicant submitted a Planned Action Determination of Consistency Review Checklist. It was during the review of this Checklist that staff discovered the error in the inbound, outbound and total trip data reported in the Planned Action EIS.

The Planned Action Draft EIS identified the PM peak hour trips generated for each of the three alternatives analyzed at Table 3-13 on page 3-51.

Table 0-1. PM Peak Hour Trip Generation by Alternative							
No Action Phased Growth Planned Gro							
	Alternative 1	Alternative 2	Alternative 3				
Inbound Trips	553	933	1,313				
Outbound Trips	737	1,159	1,581				
Total Trips	1,289	2,092	2,894				
Source: k	(PC 2014						

Source: KPG 2014

However, these trip generation numbers fail to reflect a reduction for trips occurring within a site that has multiple land uses. The *National Cooperative Highway Research Program (NCHRP) Report 684* methodology estimates the number of trips between land uses within the site (internal capture), which decreases the total vehicle trips external to the site. The Planned Action Draft EIS in the Table 3-13 incorrectly reports the trip generation numbers without the internal capture reduction resulting in more trip generation levels. There is no change to the analysis of alternatives, significant impacts, or mitigation measures as the City's consultant, KPG, utilized the correct trip generation numbers when performing the transportation analysis.

EIS Corrections

The following changes were made using the Addendum process to the Draft EIS and the Final EIS.

1. In the Draft EIS, Table 3-13 on page 3-51 as was corrected as shown below:

Table 0-1. PM Peak Hour Trip Generation by Alternative						
			Planned Growth			
	No Action	Phased Growth	Alternative			
	Alternative 1	Alternative 2	3			
Inbound Trips	553 <u>453</u>	933 <u>633</u>	1,313 <u>817</u>			
Outbound Trips	737 <u>594</u>	1,159 <u>812</u>	1,581			
Total Trips	1,289	2,092 <u>1,445</u>	2,89 4 <u>1,855</u>			
Source: KPG	<u>2014</u> 2019					

Table 0.1 DM Deak Hour Trin Constantion by Alternative

2. In the Draft EIS, Appendix D: Draft Planned Action Ordinance, Section III D (3) (a) Trip Ranges & Thresholds on page 4 was corrected as shown below:

Peak Hour Inbound and Outbound trips during the PM Peak Hour by Alternative

	No Action Alternative 1	Phased Growth Alternative 2	Alternative 2 Net Trips	Planned Growth Alternative 3	Alternative 3 Net Trips
Inbound Trips	553 453	933 633	380 <u>180</u>	1,313 817	760 <u>364</u>
Outbound	737 <u>594</u>	1,159 <u>812</u>	4 22 <u>218</u>	1,581	844 <u>444</u>
Total Trips	1,289 <u>1,047</u>	2,092 <u>1,445</u>	803 <u>398</u>	2,894 <u>1,855</u>	1,605 <u>808</u>
Source: KPG 2	<u>20142019</u>				

In the Final EIS, Appendix B: Proposed Planned Action Ordinance, Section 3 C (3) Transportation Thresholds was amended as shown below:

(a) Trip Ranges and Thresholds. The number of new PM Peak hour and daily trips anticipated within the Planned Action Area and reviewed in the FEIS for 2035 are as follows:

	No Action Alternative 1	Phased <u>Growth</u> Alternative 2	Net Trips Alternative 2	Phased Planned Growth Alternative 3	Net Trips Alternative 3
Inbound Trips	553	933 <u>633</u>	380 <u>180</u>	1,313 <u>817</u>	760 <u>364</u>
Outbound Trips	737	1,159 <u>812</u>	4 22 <u>218</u>	1,581 <u>1,038</u>	8 44 <u>444</u>
Total Trips	1,289	2,092 <u>1,445</u>	803 <u>398</u>	2,894 <u>1,855</u>	1,605 <u>808</u>

Amending the Planned Action Ordinance

Ordinance No. 705 includes a table that establishes thresholds for the number of trips inbound, outbound and total trips including net trips for the CRA Planned Action. Projects that wish to comply with the thresholds, standards and mitigation adopted in Planned Action Ordinance No. 705 do not require additional environmental review under SEPA. For consistency with the SEPA Addendum, Section C Planned Action Qualifications of the Ordinance needs to be amended to the correct the same data error previously corrected by the Addendum. Proposed Ordinance No. 863 would effectuate these amendments (Attachment C):

(3) Transportation and Thresholds:

(a) The number of new PM Peak hour and daily trips anticipated within the Planned Action Area and reviewed in the FEIS for 2035 are as follows:

	Phased Alternative 3	Net Trips Alternative 3
Inbound Trips	1,313 <u>817</u>	760 <u>364</u>
Outbound Trips	1,581 <u>1,038</u>	844 <u>444</u>
Total Trips	2,89 4 1,855	1,605 <u>808</u>

Planning Commission Public Hearing

The Planning Commission conducted a Public Hearing on proposed Ordinance No. 863 on June 6, 2019. The staff report and other materials from the public hearing can be found at the following link:

http://www.shorelinewa.gov/Home/Components/Calendar/Event/14002/182.

Public comment was received orally and in writing from Mr. Jeremy Eckert, legal counsel for ROIC. ROIC is a property owner within the CRA (Shoreline Place). ROIC hired Heffron Transportation Inc. to review the City's amendment to Planned Action Ordinance No. 705. ROIC's written and oral comments are available at the link provided above.

The main concern raised by Mr. Eckert was that the Merlone Geier Partners (MGP) Shoreline Place project will exceed the trips analyzed in the CRA Planned Action Ordinance No. 705 by 2,039, leaving no opportunity for other projects to take advantage of the Planned Action Ordinance. There are currently trips still available to be used after accounting for the MGP projects. However, as other projects in the CRA such as moving the Department of Ecology offices to the current Washington State Department of Transportation building in the CRA adds trips to the area and the background traffic levels in the area increase between now and 2039, the trip capacity analyzed and identified CRA Planned Action transportation analysis performed for the CRA will be exceeded. The Council may choose to fund an update to the analysis and adopt a second Planned Action Ordinance for the CRA in the future. However, proposed Ordinance No. 863 is correcting a data transcription error and not altering any analysis.

Tonight's Council Discussion and Next Steps

Following the June 6 Public Hearing, the Planning Commission recommended approval of proposed Ordinance No. 863 as recommended by staff. Tonight, Council is scheduled to discuss proposed Ordinance No. 863. This proposed Ordinance is currently scheduled to be brought back to Council for adoption on July 22, 2019.

RESOURCE/FINANCIAL IMPACT

Adoption of Ordinance No. 863 will not create any resource or financial impacts.

RECOMMENDATION

No action is required. The Planning Commission recommends approval of Ordinance No. 863 which corrects a transcription error in Ordinance No. 705 the Planned Action for the Aurora Square Community Renewal Area (CRA).

ATTACHMENTS

Attachment A: Ordinance No. 705 - Planned Action for the Aurora Square Community Renewal Area

- Attachment B: March 8, 2019 Community Renewal Area EIS SEPA Addendum
- Attachment C: Ordinance No. 863



ORDINANCE NO. 705

AN ORDINANCE OF THE CITY OF SHORELINE DESIGNATING A PLANNED ACTION FOR THE AURORA SQUARE COMMUNITY RENEWAL AREA PURSUANT TO THE STATE ENVIRONMENTAL POLICY ACT.

WHEREAS, the City of Shoreline is a non-charter optional municipal code city as provided in Title 35A RCW, incorporated under the laws of the State of Washington, and planning pursuant to the Growth Management Act (GMA), Chapter 36.70A RCW; and

WHEREAS, the City has adopted a Comprehensive Plan and a Unified Development Code, Shoreline Municipal Code (SMC) Title 20, to implement the Comprehensive Plan; and

WHEREAS, pursuant to RCW 35.81, on September 4, 2012, the City enacted Resolution No. 333 designating the Aurora Square area as a Community Renewal Area and, on July 13, 2013, the City enacted Resolution No. 345 adopting the Aurora Square Community Renewal Area Plan; and

WHEREAS, under the State Environmental Policy Act (SEPA), RCW 43.21C and its implementing regulations, WAC 197-11, the City may provide for the integration of environmental review with land use planning and project review so as to streamline the development process through the designation of a Planned Action in conjunction with the adoption of a subarea plan; and

WHEREAS, designation of a Planned Action may be for a geographic area that is less extensive than the City's jurisdictional boundaries and serves to expedite the permitting process for subsequent, implementing projects whose impacts have been previously addressed in an Environmental Impact Statement (EIS), and thereby encourages desired growth and economic development; and

WHEREAS, pursuant to the State Environmental Policy Act (SEPA), RCW 43.21C, the City conducted a thorough environmental review of the development anticipated within the Aurora Square Community Renewal Area (Aurora Square CRA), and on December 12, 2014, issued a Draft Environmental Impact Statement (DEIS), that considered the impacts of the anticipated development within the Aurora Square CRA, provided for mitigations measures and other conditions to ensure that future development will not create adverse environmental impacts associated with the Planned Action; and

WHEREAS, the Planning Commission, after required public notice, on January 29, 2015 and on March 19, 2015, held a public hearing on the Aurora Square CRA Planned Action, reviewed the public record, and made a recommendation to the City Council; and

WHEREAS, the City Council, after required public notice, held a study session on the designation of a Planned Action area and modifications to the City's development regulations,



including changes to the City's Sign Code, SMC 20.50, and considered the Planning Commission's recommendations on June 8, 2015; and

WHEREAS, after allowing for public comment on the DEIS, on July 24, 2015, the City issued the Aurora Square Planned Action Final Environmental Impact Statement (FEIS) which responded to public comment and identifies the impacts and mitigation measures associated with the Aurora Square CRA Planned Action; and

WHEREAS, the City Council has determined that the Aurora Square CRA is appropriate for designation as a Planned Action and designating the Aurora Square CRA as a Planned Action will achieve efficiency in the permitting process thereby encouraging economic growth and development while promoting environmental quality;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. <u>Findings.</u> The Aurora Square Community Renewal Area Planned Action meets the criteria for a planned action as set forth in WAC 197-11-164 for the following reasons:

- A. The City of Shoreline is planning under the Growth Management Act (GMA), RCW 36.70A, and has adopted a Comprehensive Plan and development regulations to implement its Comprehensive Plan.
- B. The City has adopted the Aurora Square Community Renewal Plan consistent with RCW 35.81. The Aurora Square CRA is located within the City of Shoreline's Urban Growth Area but is limited to a specific geographical area that is less extensive than the City's boundaries.
- C. Concurrent with this Ordinance, with the adoption of Ordinance 712, the City is amending the Unified Development Code, SMC Chapter 20.50 Subchapter 8 Signs, to implement development regulations.
- D. The designation of the Aurora Square CRA Planned Action is consistent with the goals and policies of the City's Comprehensive Plan and the Aurora Square Community Renewal Plan.
- E. The City of Shoreline has prepared the Aurora Square Planned Action Draft Environmental Impact Statement (DEIS) and the Aurora Square Final Environmental Impact Statement (FEIS), collectively the Planned Action EIS, which identifies and adequately addresses the environmental impacts of development in the Planned Action area.



- F. The mitigation measures identified in the Planned Action EIS, attached hereto as Exhibit A, together with the City's existing development regulations and concurrently enacted development regulations set forth in Ordinance No. 712, specifically those regulations set forth in SMC 20.50 Signs, attached hereto as Exhibit B, will adequately mitigate significant impacts from development within the Planned Action area.
- G. The Aurora Square CRA Plan and the Planned Action EIS identify the location, type, and amount of development that is contemplated by the Planned Action and emphasize a mix of residential, retail/commercial, office, and public uses.
- H. Future development projects that are determined to be consistent with the Planned Action will protect the environment while benefiting the public and enhancing economic development within the City.
- I. The City has provided for meaningful opportunities for public involvement and review during the Aurora Square CRA Plan and the Planned Action EIS process, has considered all comments received, and, as appropriate, has modified the proposed action or mitigation measures in response to comments.
- J. The Planned Action does not include Essential Public Facilities, as defined in RCW 36.70A.200. These types of facilities are excluded from the Planned Action as designated herein and are not eligible for review or permitting as a Planned Action.
- K. The City, with adoption of this Planned Action, intends to update the Capital Facilities Element of its Comprehensive Plan.

Section 2. <u>Planned Action Area Designation</u>. The Planned Action Area is hereby defined as that area set forth in the Aurora Square Community Renewal Area Plan, as shown on Exhibit C attached hereto.

Section 3. <u>Procedures and Criteria for Evaluating and Determining Projects as</u> <u>Planned Actions.</u>

A. Environmental Document. A Planned Action project determination for a site-specific project application shall be based on the environmental analysis contained in the Planned Action EIS. The mitigation measures contained in Exhibit A of this Ordinance are based upon the findings of the Planned Action EIS and shall, along with the City's Unified Development Code, SMC Title 20, provide the framework the City will use to apply appropriate conditions on qualifying Planned Action projects within the Planned Action Area.



- B. **Planned Action Project Designation.** Land uses and activities described in the Planned Action EIS, subject to the thresholds described in Section 3(C) of this Ordinance and the mitigation measures contained in Exhibit A of this Ordinance, are designated "Planned Action Projects" pursuant to RCW 43.21C.440. A development application for a site-specific project located within the Planned Action Area shall be designated a Planned Action Project if it meets the criteria set forth in Section 3(C) of this Ordinance and all other applicable laws, codes, development regulations, and standards of the City, including this Ordinance, are met.
- C. Planned Action Qualifications. The Aurora Square Planned Action EIS analyzed the impacts associated with development in the Planned Action Area designated in Section 2 of this Ordinance. The EIS contains mitigation measures to adequately address impacts associated with this development up to the thresholds identified below. An individual development proposals or combination of Planned Action Projects that would exceed any of these thresholds and/or would alter the assumptions and analysis in the Planned Action EIS would not qualify as a Planned Action and may be subject to additional environmental review as provided in WAC 197-11-172. The following thresholds shall be used to determine if a site-specific development proposed within the Planned Action Area was contemplated as a Planned Action Project and has had its environmental impacts evaluated in the Planned Action EIS:

(1) Qualifying Land Uses.

(a) Planned Action Categories: A land use can qualify as a Planned Action Project land use when:

i. it is within the Planned Action Area as shown in Exhibit C of this Ordinance;

ii. it is within one or more of the land use categories studied in the EIS: residential (multi-family), retail, office, entertainment, and open space; and

iii. it is listed in development regulations applicable to the zoning classifications applied to properties within the Planned Action Area.

A Planned Action Project may be a single Planned Action land use or a combination of Planned Action land uses together in a mixed-use development. Planned Action land uses may include accessory uses.

(b) Public Services: The following public services, infrastructure, and utilities can also qualify as Planned Actions: roads designed for the Planned Action, stormwater, utilities, parks, trails, and similar facilities developed consistent with the Planned Action EIS mitigation measures, City and special district design standards, critical area regulations, and the Shoreline Municipal Code.



(2) Development Thresholds:

(a) Land Use: The following thresholds of new land uses are contemplated by the Planned Action:

Feature	Alternative 3
Residential Units	1,000
Retail – Square Feet	250,000
Office – Square Feet	250,000

(b) Shifting development amounts between land uses in identified in Subsection 3(C)(2)(a) may be permitted when the total build-out is less than the aggregate amount of development reviewed in the Planned Action EIS; the traffic trips for the preferred alternative are not exceeded; and, the development impacts identified in the Planned Action EIS are mitigated consistent with Exhibit A of this Ordinance.

(c) Further environmental review may be required pursuant to WAC 197-11-172, if any individual Planned Action Project or combination of Planned Action Projects exceeds the development thresholds specified in this Ordinance and/or alter the assumptions and analysis in the Planned Action EIS.

(3) Transportation Thresholds:

(a) Trip Ranges and Thresholds. The number of new PM Peak hour and daily trips anticipated within the Planned Action Area and reviewed in the FEIS for 2035 are as follows:

	Phased Alternative 3	Net Trips Alternative 3
Inbound Trips	1,313	760
Outbound	1,581	844
Trips		
Total Trips	2,894	1,605

(b) Concurrency. All Planned Action Projects shall meet the transportation concurrency requirements and the Level of Service (LOS) thresholds established in SMC 20.60.140 Adequate Streets and 20.60.150 Adequate Access. Applicants shall be required to provide documentation that the project meets concurrency standards.

(c) Access and Circulation. All Planned Action Projects shall meet access and circulation standards established in SMC 20.60.150 Adequate Access. All Planned



Action Projects shall provide frontage improvements for public roadways and shall provide for a coordinated onsite circulation system per Exhibit A.

(d) The responsible City official shall require documentation by Planned Action Project applicants demonstrating that the total trips identified in Subsection 3(C)(3)(a) are not exceeded, that the project meets the concurrency and intersection standards of Subsection 3(C)(3)(b), and that the project has mitigated impacts consistent with Subsection 3(C)(3)(c).

(e) Discretion.

i. The responsible City official shall have discretion to determine incremental and total trip generation, consistent with the Institute of Traffic Engineers (ITE) Trip Generation Manual (latest edition) or an alternative manual accepted by the City's Public Works Director at his or her sole discretion, for each project permit application proposed under this Planned Action.

ii. The responsible City official shall have discretion to condition Planned Action Project applications to meet the provisions of this Planned Action Ordinance and the Shoreline Municipal Code.

iii. The responsible City official shall have the discretion to adjust the allocation of responsibility for required improvements between individual Planned Action Projects based upon their identified impacts.

(4) Elements of the Environment and Degree of Impacts. A proposed project that would result in a significant change in the type or degree of adverse impacts to any element(s) of the environment analyzed in the Planned Action EIS would not qualify as a Planned Action Project.

(5) Changed Conditions. Should environmental conditions change significantly from those analyzed in the Planned Action EIS, the City's SEPA Responsible Official may determine that the Planned Action Project designation is no longer applicable until supplemental environmental review is conducted.

D. Planned Action Project Review Criteria.

(1) The City's SEPA Responsible Official, or authorized representative, may designate as a Planned Action Project, pursuant to RCW 43.21C.440, a project application that meets ALL of the following conditions:

(a) the project is located within the Planned Action Area identified in Exhibit C of this Ordinance;

(b) the proposed uses and activities are consistent with those described in the Planned Action EIS and Subsection 3(C) of this Ordinance;



(c) the project is within the Planned Action thresholds and other criteria of Subsection 3(C) of this Ordinance;

(d) the project is consistent with the Shoreline Comprehensive Plan, the Aurora Square CRA Plan, and the Shoreline Municipal Code;

(e) the project's significant adverse environmental impacts have been identified in the Planned Action EIS;

(f) the project's significant impacts have been mitigated by application of the measures identified in Exhibit A of this Ordinance and other applicable City regulations, together with any conditions, modifications, variances, or special permits that may be required;

(g) the project complies with all applicable local, state and/or federal laws and regulations and the SEPA Responsible Official determines that these constitute adequate mitigation; and

(h) the project is not an essential public facility as defined by RCW 36.70A.200, unless the essential public facility is accessory to or part of a development that is designated as a Planned Action Project under this Ordinance.

(2) The City shall base its decision to qualify a project as a Planned Action Project on review of a standard SEPA Environmental Checklist form, unless the City later elects to develop a specialized form for this Planned Action, and review of the Planned Action Project submittal and supporting documentation, provided on City required forms.

E. Effect of Planned Action Designation.

(1) Designation as a Planned Action Project by the City's SEPA Responsible Official means that a qualifying project application has been reviewed in accordance with this Ordinance and found to be consistent with the development parameters and thresholds established herein and with the environmental analysis contained in the Planned Action EIS.

(2) Upon determination by the City's SEPA Responsible Official that the project application meets the criteria of Subsection 3(C) and 3(D) and qualifies as a Planned Action Project, the project shall not require a SEPA threshold determination, preparation of an EIS, or be subject to further review pursuant to SEPA. Planned Action Projects shall still be subject to all other applicable City, state, and federal regulatory requirements. The Planned Action Project designation shall not excuse a project from meeting the City's code and ordinance requirements apart from the SEPA process.

F. **Planned Action Project Permit Process.** Applications submitted for qualification as a Planned Action Project shall be reviewed pursuant to the following process:



(1) Development applications shall meet all applicable requirements of this Ordinance and the Shoreline Municipal Code in place at the time of the Planned Action Project application. Planned Action Projects shall not vest to regulations required to protect public health and safety.

(2) Applications for Planned Action Projects shall:

(a) be made on forms provided by the City;

(b) include a SEPA Environmental Checklist;

(c) include a conceptual site plan pursuant to SMC 20.30.315 Site Development Permit; and

(d) meet all applicable requirements of the Shoreline Municipal Code and this Ordinance.

(3) The City's SEPA Responsible Official shall determine whether the application is complete and shall review the application to determine if it is consistent with and meets all of the criteria for qualification as a Planned Action Project as set forth in this Ordinance.

(4) (a) If the City's SEPA Responsible Official determines that a proposed project qualifies as a Planned Action Project, he/she shall issue a "Determination of Consistency" and shall mail or otherwise verifiably deliver said Determination to the applicant; the owner of the property as listed on the application; and federally recognized tribal governments and agencies with jurisdiction over the Planned Action Project, pursuant to RCW 43.21C.440.

(b) Upon issuance of the Determination of Consistency, the review of the underlying project permit(s) shall proceed in accordance with the applicable permit review procedures specified in SMC Chapter 20.30 Procedures and Administration, except that no SEPA threshold determination, EIS, or additional SEPA review shall be required.

(c) The Determination of Consistency shall remain valid and in effect as long as the underlying project application approval is also in effect.

(d) Public notice and review for qualified Planned Action Projects shall be tied to the underlying project permit(s). If notice is otherwise required for the underlying permit(s), the notice shall state that the project qualifies as a Planned Action Project. If notice is not otherwise required for the underlying project permit(s), no special notice is required by this Ordinance.

(5) (a) If the City's SEPA Responsible Official determines that a proposed project does not qualify as a Planned Action Project, he/she shall issue a "Determination of Inconsistency" and shall mail or otherwise verifiably deliver said Determination to the applicant; the owner of



the property as listed on the application; and federally recognized tribal governments and agencies with jurisdiction over the Planned Action Project, pursuant to RCW 43.21C.440.

(b) The Determination of Inconsistency shall describe the elements of the Planned Action Project application that result in failure to qualify as a Planned Action Project.

(c) Upon issuance of the Determination of Inconsistency, the City's SEPA Responsible Official shall prescribe a SEPA review procedure for the non-qualifying project that is consistent with the City's SEPA regulations and the requirements of state law.

(d) A project that fails to qualify as a Planned Action Project may incorporate or otherwise use relevant elements of the Planned Action EIS, as well as other relevant SEPA documents, to meet the non-qualifying project's SEPA requirements. The City's SEPA Responsible Official may limit the scope of SEPA review for the non-qualifying project to those issues and environmental impacts not previously addressed in the Planned Action EIS.

(6) To provide additional certainty about applicable requirements, the City or applicant may request consideration and execution of a development agreement for a Planned Action Project, consistent with RCW 36.70B.170 et seq.

(7) A Determination of Consistency or Inconsistency is a Type A land use decision and may be appealed pursuant to the procedures established in Chapter 20.30 SMC. An appeal of a Determination of Consistency shall be consolidation with any pre-decision or appeal hearing on the underlying project application.

Section 4. <u>Mitigation Measures for the Aurora Square CRA Planned Action</u>. Any proposed project within the Planned Action Area must be consistent with the City's Unified Development Code, Title 20 and the mitigation measures set forth in Exhibit A, attached hereto.

Section 5. <u>Monitoring and Review of Planned Action</u>.

- A. The City shall monitor the progress of development in the Aurora Square CRA Planned Action area to ensure that it is consistent with the assumptions of this Ordinance, the Aurora Square CRA Plan, and the Planned Action EIS regarding the type and amount of development and associated impacts, and with the mitigation measures and improvements planned for the Aurora Square CRA.
- B. The Planned Action shall be reviewed by the SEPA Responsible Official no later than six (6) years from the effective date of this ordinance and every six (6) years thereafter. The reviews shall determine the continuing relevance of the Planned Action assumptions and findings with respect to environmental conditions in the Planned Action Area, the



impacts of development, and the effectiveness of required mitigation measures. Based upon this review, the City may propose amendments to this Planned Action or may supplement of review the Planned Action EIS.

Section 6. <u>Conflict.</u> In the event of a conflict between this Ordinance and any mitigation measures imposed thereto, any ordinance or regulation of the City, the provisions of this Ordinance shall control.

Section 7. <u>Severability</u>. Should any section, subsection, paragraph, sentence, clause, or phrase of this ordinance or its application to any person or situation be declared unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of this ordinance or its application to any other person or situation.

Section 8. <u>Effective Date of Publication</u>. A summary of this ordinance consisting of the title shall be published in the official newspaper and the ordinance shall take effect five (5) days after publication.

Section 9. <u>Expiration Date.</u> This Ordinance shall expire twenty (20) years from the date of adoption unless otherwise repealed or readopted by the City Council following a report from the Director of Planning and Community Development and a public hearing.

PASSED BY THE CITY COUNCIL ON AUGUST 10, 2015.

Mayor

ATTEST?

Jessica Simulcik Smith City Clerk

Date of Publication:	August	13,	2015
Effective Date:	August	18,	2015

APPROVED AS TO FORM:

Margaret King

City Attorney



EXHIBIT A

Planned Action Ordinance Mitigation Document Mitigation Required for Development Applications

1.0 MITIGATION MEASURES

The Planned Action EIS has identified significant beneficial and adverse impacts that are anticipated to occur with the future development of the Planned Action Area, together with a number of possible measures to mitigate those significant adverse impacts. Please see Final EIS Chapter 1 Summary for a description of impacts, mitigation measures, and significant unavoidable adverse impacts.

A Mitigation Document is provided in this **Exhibit A** to establish specific mitigation measures based upon significant adverse impacts identified in the Planned Action EIS. The mitigation measures in this **Exhibit A** shall apply to Planned Action Project applications that are consistent with the Preferred Alternative . range reviewed in the Planned Action EIS and which are located within the Planned Action Area (see **Exhibit C**).

Where a mitigation measure includes the words "shall" or "will," inclusion of that measure in Planned Action Project application plans is mandatory in order to qualify as a Planned Action Project. Where "should" or "would" appear, the mitigation measure may be considered by the project applicant as a source of additional mitigation, as feasible or necessary, to ensure that a project qualifies as a Planned Action Project. Unless stated specifically otherwise, the mitigation measures that require preparation of plans, conduct of studies, construction of improvements, conduct of maintenance activities, etc., are the responsibility of the applicant or designee to fund and/or perform.

Any and all references to decisions to be made or actions to be taken by the City's SEPA Responsible Official may also be performed by the City's SEPA Responsible Official's authorized designee.

1.1 Land Use/Light and Glare

As part of land use permit review, the City shall evaluate site development permits to consider the siting, design, and orientation of new uses relative to existing surrounding land uses in R-4, R-6 or R-8 zones, and may condition proposals to direct uses with the potential for producing noise away from sensitive receptors in those zones. The Planning and Community Development Director or designee may consider the maximum environment noise levels found in WAC 173-60-040 and application of the City's General Development Standards in Chapter 20.50 to condition proposals.



1.2 Transportation

Frontage Improvements

When a property redevelops and applies for permits, frontage improvements (or in-lieu contributions) and right-of-way dedications if needed are required by the City of Shoreline Municipal Code (SMC 20.70). If right-of-way (or an easement) is needed, it also would be required/dedicated by the development to the City. The City has developed specific cross sections for City streets describing the travel lanes, sidewalk widths, bicycle facilities, and on-street parking. As part of the Aurora Square Planned Action EIS, customized designs were developed for 160th Street, Westminster Way N, N 155th Street, and Aurora Avenue N (see Draft EIS Appendix B and staff reports to City Council regarding Westminster Way). The Aurora Square CRA frontage improvements are described in detail under Draft EIS Section 3.3. Other frontage improvements would follow the City's standard designs (e.g. west and south borders with Dayton, Fremont, and 155th along WSDOT area). The projects are identified in Table A-1 and Figure A-1.

Planned Action applicants may request and the City may consider a fee-in-lieu for some or all of the frontage improvements that are the responsibility of the property owner through the execution of a voluntary agreement (pursuant to RCW 82.02.020) or other instrument deemed acceptable to the City and applicant. The City may approve the fee-in-lieu agreement if the City finds the fee in lieu approach to be in the public interest, such as having the frontage completed in a more consistent or complete manner in combination with other properties at a later date.

As part of a voluntary agreement (pursuant to RCW 82.02.020) or other instrument deemed acceptable to the planned action applicant or City, the City may reduce the share of cost of the frontage improvements otherwise due to a Planned Action property, such as if Planned Action applicants implement high priority street improvements in place of lower priority improvements, either along their frontage, or offsite, as described in Table A-1 and illustrated in Figure A-1, or implement a greater length of a lower priority project, or meet other objectives that advance the CRA.

Table A-1. Renewal Priority of Aurora Square CRA Transportation Improvements

The Shoreline City Council designated the 70+ acre Aurora Square area as a Community Renewal Area (CRA) where economic renewal would clearly deliver multifaceted public benefits. Now that the CRA and Renewal Plan is established, the City is empowered to partner with private enterprise to encourage 21st century renewal. Master planning identified a number of projects that the City of Shoreline can accomplish on its own or in partnership with developers. The transportation improvements identified through the Planned Action EIS process are prioritized below to reflect the value of these improvements for economic renewal of the Aurora Square CRA.

No.	Project	Limits	Renewal Priority	Description
1	Rechannelization of N 160th St bordering CRA	Dayton Ave N to Aurora Ave N	High	Planned restriping to a 3-lane section with bicycle lanes in 2015 is high priority and will create better access to Aurora Square by vehicles, pedestrians, and cyclists.
2	N 160th St Intersection	Midblock on N 160th St	High	Improvements would provide a gateway entrance on N 160th St for Aurora Square and a midblock pedestrian crossing. Most effectively done when the Sears property redevelops and only if traffic volumes warrant. Note requirement for traffic study.



No.	Project	Limits	Renewal Priority	Description
3	Aurora Avenue N	Aurora Interurban Bridge to N 160th St	High	Provide a cycle connection from the Interurban Trail to the new N 160th St bike lane along the section of Westminster Way N vacated after the N 157th St road connection is constructed.
4	Westminster Way N (North)	N 155th St to N 160th St	High	Envisioned as a project in the Aurora Square CRA Renewal Plan, reworking Westminster Way N in this section provides a more pedestrian and bicycle friendly section with street parking that can help unite the small triangle property to the rest of Aurora Square. Most effectively completed with the redevelopment of the triangle property.
5	Construct N 157th St	Westminster Way N to Aurora Ave N	High	New street connection makes Westminster between 155th and 157th pedestrian and cycle- friendly, creates a better entrance to Aurora Square, connects the triangle property to the rest of Aurora Square, and provides on street parking for future retail. Most effectively completed with the redevelopment of the triangle property.
6	Intersection at N 155th St and Westminster Way N	Westminster Way N to Aurora Ave N	High	Improves the main vehicle intersection and increases safety for pedestrians. Includes improvements to the section of N 155th St between Westminster Way N and Aurora Ave N. Most effectively done at one time and in conjunction with the redevelopment of the Sears property.
7	Westminster Way N (South)	N 155th St to Fremont Ave N	Low	Frontage improvements provide little support of renewal efforts in this location.
8	Fremont Ave N	Westminster Way N to N 155th St	Low	Frontage improvements provide little support of renewal efforts in this location.
9	N 155th St (West)	Fremont Ave N to Dayton Ave N	Low	Frontage improvements provide little support of renewal efforts in this location.
10	Dayton Ave N	N 155th St to N 160th St	Low	Frontage improvements provide little support of renewal efforts in this location.
11	Cycle Track along N 160th St bordering CRA	Dayton Ave N to Aurora Ave N	Low	The cycle track proposed for improved connectivity between the Interurban Trail and Shoreline Community College ideally will be completed in conjunction with improvements to the West N 160th St project. The cycle track will likely require the City to secure matching grants and the property owners to dedicate ROW.



Figure A-1. CRA Transportation Project Priorities Map

Attachment A ORIGINAL



N 160th St Intersection Access Improvements

Preliminary CRA plans include a new north/south internal street that will form the primary connection between Westminster Way N and N 160th Street. This north/south internal street would add a new intersection at N 160th Street. Planned Action applicants shall analyze the traffic operations of the new intersection and may be required by the City to construct a signal at the new intersection if signal warrants are met. The methods and approach to the analysis shall be consistent with SMC 20.60.140 Adequate Streets.

Parking Management

Planned Action applicants shall prepare and submit a parking management plan to the city for review and approval prior to approval of necessary land use and building permits.

Said parking management plan shall be in place prior to the occupancy of the development.

The plan shall:

- 1. Describe relationship of the parking management plan to the overall center plan, including how the proposed parking fits into the overall access and mobility plans for the center.
- 2. Address parking comprehensively for the range of users and times of day:
 - A. Encourage shared parking among neighboring businesses and document shared parking agreements and conditions consistent with the Shoreline Municipal Code.
 - B. Demonstrate the requested supply of parking for the mix and range of uses will meet the demand for parking at different times and for different events consistent with the Shoreline Municipal Code.
 - C. Take into account the parking patterns for different user groups in the center —employees, customers, and residents throughout the course of the day.
 - D. Address freight and truck access and parking.
 - E. Be attentive to workers, customers and visitors traveling to the center by modes other than automobile, such as bicycle and transit.
 - F. Design parking facilities to accommodate pedestrian movement, including safety and security.
 - G. Take into account any traffic control management programs, such as parking restrictions during peak commuting periods.
 - H. Develop parking strategies for special events or for infrequent peak demands.
- **3.** Establish goals and objectives for parking to support short-term and long-term development plans for the center, during construction and post-construction.
- 4. Include measures to ensure parking is shared, reduce drive alone commute trips, and prevent parking from being used by commuters to other adjacent sites or as an unsanctioned park and ride lot. Such measures could include:
 - A. Establishing a parking manager to manage site parking
 - B. Charging for daytime parking



- C. Validating parking
- D. Providing a segmented parking garage or facility so that some parking is reserved for certain uses at certain times of day
- E. Reserve areas for short-term parking by customers and visitors
- F. Allow non-peak shared parking (e.g. office parking used for retail parking on nights and weekends)
- 5. Identify wayfinding measures, such as signage directing visitors and customers to parking facilities, electronic signage with parking availability information, mobile phone applications, or other measures.
- 6. Provide contingency measures such as monitoring, enforcement, and other adaptive management techniques to promote access to parking onsite and avoid parking encroachment into adjacent neighborhoods.

1.3 Stormwater

The City shall apply the stormwater management manual in effect at the time of proposal application. As of 2015, the City of Shoreline is evaluating options for regional flow control facilities in the vicinity of the study area. Creating a downstream regional flow control facility to serve the study area, if pursued by the City, would require additional study and analysis to verify feasibility, preparation of regional facility basin plan for review by Ecology, environmental analysis and permitting, and final design and construction. If a regional flow control facility is approved by the City, an applicant may request or the City may condition development to pay a fee based on the area of new and replaced impervious surface subject to Minimum Requirement 7 in the 2012 stormwater management manual for Western Washington published by the Washington Department of Ecology or equivalent requirement in place at the time of application.

1.4 Sewer and Water

Sewer

The sewer service provider agency may assume control of private sewer mains larger than 6 inches that are proposed or required to be replaced, upgraded, or relocated within the Aurora Square CRA.

Water

The current water system infrastructure and supply are able to meet the additional residential and employment need. The water mains inside the study area are owned privately, and there would need to be coordination if the privately owned water mains need to be extended, replaced, or altered. The water service provider or the City of Shoreline may require extension, replacement, upgrade, or relocation of water mains to serve proposals to meet adopted standards of service.

1.5 Schools and Parks

Parks

The City's commercial site design standards at SMC 20.50.240 Site Design, Subsection F, require public places within commercial portions of development. Applicants may propose or the City may require

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consolidation or reconfiguration of required public space to advance the adopted Aurora Square CRA Renewal Plan or in order to optimize the provisions of SMC 20.50.240 Site design where mixed commercial and residential uses are proposed.

To redirect a portion of the onsite open space towards a more centrally located public space within or adjacent to the Aurora Square property, the City may allow up to fifty percent (50%) of the private recreation space required in SMC 20.50.240 to be: 1) accomplished offsite as approved by the Planning and Community Development Director; or 2) a fee-in-lieu (proportionate to the cost of the space if it were built onsite) through a negotiated voluntary agreement.

Schools

As of 2015, the City of Shoreline does not charge school impact fees. The Shoreline School District is preparing a Capital Facilities Plan as of 2015, which may be the basis for charging impact fees in the future. The City shall apply regulations in place at the time of application, including subsequently adopted impact fees, where applicable.

2.0 CODE REQUIREMENTS – ADVISORY NOTES

The EIS identifies specific regulations that act as mitigation measures. These are summarized below by EIS topic. All applicable federal, state, and local regulations shall apply to Planned Actions. Planned Action applicants shall comply with all adopted regulations where applicable including those listed in the EIS and those not included in the EIS.

2.1 Land Use

- All new development of specific parcels will be subject to SMC Chapter 20.40 which sets forth the permitted uses and activities for the zoning district in which the CRA is located.
- SMC 20.50.020: Contains design guidelines, development dimensions, standards, and conditions for development within areas covered by the MB zoning designation. These design guidelines and development standards include site coverage and height as well as setback requirements.
- SMC 20.50.021: Addresses transition standards where development within MB zones abuts single family districts. Development standards include additional setbacks, building offsets, and heights.
- SMC 20.50.180: Addresses building orientation and scale.
- SMC 20.50.205: Addresses light standards including avoiding light trespass.
- SMC 20.50.240: Contains commercial site design guidelines including site frontage, rights-of-way lighting, corner sites, site walkways, public places, multifamily open space, outdoor lighting, service areas, and mechanical equipment.

2.2 Light and Glare

- SMC 20.50.021: Addresses transition standards where development within MB zones abuts single family districts. Development standards include additional setbacks, building offsets, and heights.
- SMC 20.50.180: Addresses building orientation and scale.



- SMC 20.50.205: Addresses light standards including avoiding light trespass. For example, a lamp or bulb light source installed on commercial property and visible from any residential property must be shielded such that the light source is no longer directly visible. This provision also excludes certain types of lighting (e.g. search lights, laser lights, strobe lights, etc.).
- SMC 20.50.240(H): Contains commercial guidelines for outdoor lighting including pole heights for parking and pedestrian lights and shielding of fixtures to prevent direct light from entering neighboring property.
- SMC 20.50.250: Addresses commercial building design including building articulation, materials, modulation, and facade treatments.
- SMC 20.50.540(G): Addresses sign area, heights, types, illumination, and number of maximum allowable signs.

Development in the analysis area would be subject to the City's existing design review process and would be required to comply with all applicable urban design principles.

In addition to design review and the application of design guidelines, development in the MB zone would be required to comply with all applicable development regulations contained in the Shoreline Zoning Code.

2.3 Transportation

Frontage Improvements

When a property redevelops and applies for permits, frontage improvements (or in-lieu contributions) and right-of-way dedications if needed are required by the City of Shoreline Municipal Code (SMC 20.70). If right-of-way (or an easement) is needed, it also would be required/dedicated by the development to the City. See Section 2.0 for mitigation measure requirements on how the City's specific frontage proposals are to be implemented in the Aurora Square CRA.

Concurrency

Future proposals would meet the transportation concurrency requirements and the Level of Service (LOS) thresholds established in SMC 20.60.140 Adequate Streets.

Impact Fees

The City of Shoreline adopted Transportation Impact Fees effective January 1, 2015 per Shoreline Municipal Code (SMC) Chapter 12.40. Payment of the Transportation Impact Fees is designed to mitigate city-wide transportation impacts that will result from residential and non-residential growth within Shoreline. As new development occurs within the CRA, each development would be assessed a per trip fee based on the number of new trips added to the street network.

Commute Trip Reduction

The City has adopted a Commute Trips Reduction Program (SMC 14.10) consistent with State Requirements under RCW 70.94.527.



Internal Pedestrian Access

Chapter 20.60.150 of the SMC requires new development to provide pedestrian facilities that connect street right-of-way to building entrances, safe access to parking areas, and connections connecting commercial developments. As part of its development review process, the City will ensure the implementation of these requirements to encourage walking and transit use.

2.4 Stormwater

- Stormwater management is regulated by federal, state, and local laws and ordinances. This section provides an overview of the key regulations and policies that relate to stormwater management and stormwater impacts.
- The Federal Clean Water Act governs the discharge of pollutants into the waters of the United States and regulates water quality standards for surface water. The discharge of any pollutant from a point source into navigable waters without a proper permit is unlawful, under the act; therefore, the NPDES permit program controls these discharges. Ecology, under RCW 90.48 is the permitting agency for NPDES permits in the state of Washington.
- Under Federal Law, Section 401, any activity requiring a Section 404 permit (placement of fill or dredging within waters of the United States) or a Section 10 permit (placing a structure within the waters of the United States) which may result in any discharge into the navigable waters of the United States must obtain a certification from the state certifying that such discharge will comply with the applicable provisions of the Clean Water Act. Ecology, under chapter RCW 90.48, is the certifying agency for Section 401 permits.
- Ecology is responsible for implementing and enforcing surface water quality regulations in Washington State. The current water quality standards are established in state regulations (WAC 173-201A). General requirements for stormwater management are contained in the NPDES Phase II Western Washington Municipal Stormwater Permit. Specific guidance for achieving stormwater management standards for development and redevelopment projects is provided by Ecology in the Stormwater Management Manual for Western Washington (SMMWW). The SMMWW identifies minimum requirements for development and redevelopment projects of all sizes and provides guidance on implementation of BMPs to achieve these requirements. As part of compliance with the NPDES Phase II Western Washington Municipal Stormwater Permit, Ecology's regulations require local agencies to adopt stormwater treatment regulations. Many local agencies, including the City of Shoreline, have chosen to adopt the SMMWW rather than develop a similar but unique set of regulations.
- The SMMWW includes requirements and recommended BMPs for managing stormwater runoff during the construction phase. However, if project construction would disturb more than 1 acre of ground and would discharge stormwater to surface waters, redevelopment projects within the study area would require coverage under the *NPDES Construction Stormwater General Permit*. Coverage under this general permit requires submitting an application to Ecology. The permit requires implementing BMPs and performing monitoring activities to minimize construction-related impacts to water quality.
- Local laws require stormwater discharges to meet water quality and flow control standards. Through Shoreline Municipal Code (SMC) 13.10, the City has adopted the most recent version of the



SMMWW published by the Washington State Department of Ecology. The most recent version of the SMMWW was published in August 2012.

2.5 Water and Sewer

- SPU design standards indicate that fire flow is determined based on the City's Fire Code and considered when issuing Water Availability Certificates. SPU will determine availability of services at the time of development (i.e. Certificates of Availability).
- Shoreline implements Chapter 20.60 SMC, Adequacy of Public Facilities, and requires adequate sewer systems, water supply and fire protection. Shoreline also implements Chapter 13.05 SMC, Water and Sewer Systems Code, and applies King County codes and standards.
- Currently, new development is required to pay a general facilities fee by the wastewater facility provider. Fees in place at the time of application will apply.

2.6 Parks

- In SMC 20.50.240 Site Design, Subsection G, the City requires multifamily open space at a rate of 50 square feet per dwelling unit and a minimum of 800 square feet.
- The City's commercial site design standards at SMC 20.50.240 Site Design, Subsection F, require public places within commercial portions of development at a rate of four square feet of public place per 20 square feet of net commercial floor area up to a public place maximum of 5,000 square feet.

2.7 Hazardous Materials

• New development will be subject to City codes for handling hazardous materials, including but not limited to applicable provisions of SMC 13.14 and SMC 15.05. New development will also be subject to State and Federal hazardous materials regulations. Based on applicable laws, applicants shall provide the City with an Environmental Assessment in regards to hazardous soils, substances, and materials on site.

3.0 PUBLIC AGENCY ACTIONS AND COMMITMENTS

Under some elements of the Planned Action EIS, specific City or other agency actions are identified. Generally, incorporation of these actions is intended to provide for implementing regulations and infrastructure investments in order to document pending City actions; to establish a protocol for longterm measures to provide for coordination with other agencies; or to identify optional actions that the City may take to reduce impacts. These actions are listed below in Table A-2.

Actions identified as "Proposed Concurrent Actions" refer to legislative actions proposed for adoption together with the Preferred Alternative. Longer term and other agency actions will occur in the future, depending on need. The projected timeframe and responsible departments are identified and will be used in monitoring the implementation of this Ordinance.

Table A-2 will be used in the monitoring process established in Section 5 of this Ordinance.

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Fublic Agency Wittgation Weasures						
Mitigation Measures	Proposed Synchronous Amendments	Short Term: Next Comp Plan Amendment Cycle or within 5 years	Long Term	Other Agency	Estimated Year of Implementation and Responsible Department	
Municipal Code Amendments; Sign Code and Noise Standards (time of day).	x			City	2015	
Evaluation of Other Potential Mitigation for Transportation: Consultation and coordination with CRA property owners on additional left-turn capacity for northbound traffic on Aurora Avenue N (see DEIS page 2-65) and integration into Comprehensive Plan and/or CRA Planned Action.		x		City	Monitor. Consider implementation strategies with next Comprehensive Plan Update (approximately 2037) or within 5 years (2020).	
Integration of Roadway and Stormwater Capital Projects into City Capital Facility Plan and Capital Improvement Program		x		City	2015 concurrent with budget; or next annual amendment process.	
School District Capital Facility Plan		x		Shoreline School District	Process is underway in 2015. City may address in future Comprehensive Plan amendment cycle. District and City to consider impact fees as appropriate.	

 Table A-2

 Public Agency Mitigation Measures



ORDINANCE NO. 712 - Exhibit A

Sign Code Development Regulations – Aurora Square CRA

SMC 20.50.532 Permit required.

E. Applications for property located within the Aurora Square Community Renewal Area, as defined by Resolution 333, shall be subject to SMC 20.50.620.

SMC 20.50.620 Aurora Square Community Renewal Area Sign Standards.

A. Purpose. The purposes of this subsection are:

<u>1. To provide standards for the effective use of signs as a means of business</u> identification that enhances the aesthetics of business properties and economic viability.

2. To provide a cohesive and attractive public image of the Aurora Square Community Renewal Area lifestyle center.

<u>3. To protect the public interest and safety by minimizing the possible adverse effects of signs.</u>

4. To establish regulations for the type, number, location, size, and lighting of signs that are complementary with the building use and compatible with their surroundings.

B. Location Where Applicable. Map 20.50.620.B illustrates the Aurora Square CRA where the Sign Standards defined in this subsection apply.

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Map 20.50.620.B—Aurora Square CRA



<u>C.</u> Definitions. The following definitions apply to this subsection:

CRA	Aurora Square Community Renewal Area, as defined by Resolution 333, the Aurora Square Community Renewal Area Plan, and SMC 20.50.620.B Map.
<u>CRA Building-</u> <u>Mounted Sign</u>	<u>A sign permanently attached to a building, including flush-</u> mounted, projecting, awning, canopy, or marguee signs. <u>Under-awning or blade signs are regulated separately.</u>
<u>CRA Monument</u> <u>Sign</u>	<u>A freestanding sign with a solid-appearing base under at</u> <u>least 75 percent of sign width from the ground to the base of</u> <u>the sign or the sign itself may start at grade. Monument</u> <u>signs may also consist of cabinet or channel letters mounted</u>

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	on a fence, freestanding wall, or retaining wall where the total height of the structure meets the limitations of this code.
CRA Pylon Sign	A freestanding sign with a visible support structure or with the support structure enclosed with a pole cover.
<u>CRA Lifestyle</u> <u>Center</u>	That portion of the Aurora Square CRA envisioned in the CRA Renewal Plan as inter-related retail, service, and residential use.
<u>CRA Lifestyle</u> <u>Frontage</u>	That sections of the streets that directly serves and abuts the CRA Lifestyle Center. The three CRA Lifestyle Frontages are on portions of N 160 th St, Westminster Way N, and Aurora Ave N.
<u>CRA Signage</u> <u>Design</u> <u>Guidelines</u>	The set of design standards adopted by the City that specifies the common name, logo, taglines, fonts, colors, and sign standards used throughout the CRA Lifestyle Center.
<u>CRA Under-</u> Awning Sign	<u>A sign suspended below a canopy, awning or other</u> overhanging feature of a building.
<u>CRA Way-</u> finding Sign Post	A sign with multiple individual panels acting as directional pointers that are suspended from a freestanding post.
<u>Electronic</u> <u>Message Center</u> (EMC)	A sign with a programmable, changeable digital message.
Portable Sign	A sign that is readily capable of being moved or removed, whether attached or affixed to the ground or any structure that is typically intended for temporary display.
Temporary Sign	A sign that is only permitted to be displayed for a limited period of time, after which it must be removed.
<u>Window Sign</u>	A sign applied to a window or mounted or suspended directly behind a window.



D. Permit Required.

<u>1. Except as provided in this subsection, no permanent sign may be constructed, installed, posted, displayed or modified without first obtaining a sign permit approving the proposed sign's size, design, location, display, and, where applicable, adherence to the CRA Signage Design Guidelines.</u>

2. No permit is required for normal and ordinary maintenance and repair, and changes to the graphics, symbols, or copy of a sign, without affecting the size, structural design or height. Exempt changes to the graphics, symbols or copy of a sign must meet the standards defined herein.

<u>3. All CRA pylon, CRA monument, and CRA wayfinding signs shall conform to</u> the CRA Signage Design Guidelines. For all other types of signs, if an applicant seeks to depart from the standards of this subsection, the applicant must receive an administrative design review approval under SMC 20.30.297.

<u>4. The City reserves the right to withhold sign permits and to assess the property</u> owner up to one hundred dollars per day for failure to install the signs indicated herein by September 1, 2017.

E. Sign Design.

<u>1. Sight Distance. No sign shall be located or designed to interfere with visibility</u> required by the City of Shoreline for the safe movement of pedestrians, bicycles, and vehicles.

2. Private Signs on City Right-of-Way. No private signs shall be located partially or completely in a public right-of-way unless a right-of-way permit has been approved consistent with Chapter 12.15 SMC and is allowed under SMC 20.50.540 through 20.50.610.

3. Sign Copy Area. Calculation of sign area shall use rectangular areas that enclose each portion of the signage such as words, logos, graphics, and symbols other than non-illuminated background. Sign area for signs that project out from a building or are perpendicular to street frontage are measured on one side even though both sides can have copy.

<u>4. Building Addresses. Building addresses should be installed on all buildings</u> consistent with SMC 20.70.250(C) and will not be counted as sign copy area.

<u>5. Materials and Design. All signs, except temporary signs, must be constructed</u> of durable, maintainable materials. Signs that are made of materials that deteriorate

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<u>quickly or that feature impermanent construction are not permitted for permanent</u> <u>signage. For example, plywood or plastic sheets without a sign face overlay or without a</u> <u>frame to protect exposed edges are not permitted for permanent signage.</u>

6. CRA Signage Design Guidelines. Design and content of the CRA Pylon, CRA Monument, and CRA Wayfinding Sign Posts shall conform to the CRA Signage Design Guidelines. In addition, all other permanent or temporary signage or advertising displaying the common name, logo, colors, taglines, or fonts of the CRA Lifestyle Center shall comply with the CRA Signage Design Guidelines.

7. Illumination. Where illumination is permitted per Table 20.50.620.E7 the following standards must be met:

a. Channel lettering or individual backlit letters mounted on a wall, or individual letters placed on a raceway, where light only shines through the copy.

b. Opaque cabinet signs where light only shines through copy openings.

c. Shadow lighting, where letters are backlit, but light only shines through the edges of the copy.

d. Neon signs.

e. All external light sources illuminating signs shall be less than six feet from the sign and shielded to prevent direct lighting from entering adjacent property.

f. EMC messages shall be monochromatic. EMCs shall be equipped with technology that automatically dims the EMC according to light conditions, ensuring that EMCs do not exceed 0.3 foot-candles over ambient lighting conditions when measured at the International Sign Association's recommended distance, based on the EMC size. EMC message hold time shall be ten (10) seconds with dissolve transitions. 10% of each hour shall advertise civic, community, educational, or cultural events.

g. Building perimeter/outline lighting is allowed for theaters only.

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Individual backlit letters (left image), opaque signs where only the light shines through the copy (center image), and neon signs (right image).

8. Sign Specifications.

Table 20.50.620.E.8 Sign Dimensions			
CRA MONUMENT SIGNS			
Maximum Sign Copy Area	100 square feet. The Monument Sign must be double- sided if the back of the sign is visible from the street.		
Maximum Structure Height	Eight (8) feet.		
<u>Maximum Number</u> <u>Permitted</u>	Two (2) per driveway.		
<u>Sign Content</u>	At least 50% of the Sign Copy Area shall be used to identify the CRA Lifestyle Center. Individual business names, if shown, shall not include logos and shall be a single common color conforming to the CRA Signage Design Guidelines.		
Location	At any driveway to a CRA Lifestyle Frontage.		
Illumination	Permitted.		
Mandatory Installation	At least one (1) monument sign shall be installed at each of three (3) vehicle entries to the CRA Lifestyle Center by September 1, 2017. An extension of up to one (1) year can be granted by the City Manager to accommodate active or planned construction at or near the vehicle entrance.		
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CRA WAY-FINDING SIGN POSTS			
Maximum Sign Copy Area	Two (2) square feet per business name; no limit on number of businesses displayed.		
Maximum Structure Height	<u>Ten (10) feet.</u>		
<u>Maximum Number</u> <u>Permitted</u>	<u>No limit.</u>		
<u>Sign Content</u>	Individual business names shall not include logos and shall be in a single common color conforming to the CRA Signage Design Guidelines.		
Location	Anywhere in the CRA Lifestyle Center.		
Illumination	Not permitted.		
Mandatory Installation	At least twelve (12) CRA Way-finding Sign Posts shall be installed in the CRA Lifestyle Center by September 1, 2017. An extension of up to one (1) year can be granted by the City Manager to accommodate active or planned construction within the center.		
	CRA PYLON SIGN		
Maximum Sign Copy Area	300 square feet.		
Maximum Structure Height	<u>25 feet.</u>		
<u>Maximum Number</u> <u>Permitted</u>	Three (3) pylon signs are allowed.		
<u>Sign Content</u>	At least 25% of the Sign Copy Area shall be used for identification of the CRA Lifestyle Center. Up to 50% of the Sign Copy Area may be used for a monochromatic Electronic Message Center (EMC). Individual business names, if shown, shall not include logos but may include any color.		
<u>Location</u>	One sign can be located on each of the CRA Lifestyle Frontages that are directly across from properties with Mixed Business (MB) zoning.		

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Illumination	Permitted.		
Mandatory Installation	Three (3) CRA Pylon Signs shall be installed by July 1, 2017. An extension of up to one (1) year can be granted by the City Manager to accommodate active or planned construction at or near the pylon locations.		
CRA BUILDING-MOUNTED SIGN			
Maximum Sign Copy Area	Maximum sign area shall not exceed 15% of the tenant fascia or a maximum of 500 square feet, whichever is less.		
Maximum Structure Height	Not limited. Projecting, awning, canopy, and marquee signs (above awnings) shall clear sidewalk by nine feet and not project beyond the awning extension or eight feet, whichever is less. These signs may project into public rights-of-way, subject to City approval.		
Number Permitted	The sign area per business may be distributed into multiple signs provided that the aggregate sign area is equal to or less than the maximum allowed sign area. Maximum of one projecting sign per tenant, per fascia. Maximum sign area of projecting shall not exceed 10 percent of tenant's allotted wall sign area.		
Illumination	Permitted.		
CRA UNDER-AWNING SIGNS			
Maximum Sign Copy Area	12 square feet.		
<u>Minimum Clearance from</u> <u>Grade</u>	<u>Eight (8) feet.</u>		
Maximum Structure Height	Not to extend above or beyond awning, canopy, or other overhanging feature of a building under which the sign is suspended. Signs may project into the public right-of-way subject to City approval.		
Number Permitted	One (1) per business entrance.		
Illumination	External only.		



<u>9. Window Signs. Window signs are permitted to occupy maximum 25 percent of the total window area. Window signs are exempt from permit if non-illuminated and do not require a permit under the building code.</u>

<u>10. A-Frame Signs. A-frame, or sandwich board, signs are exempt from permit</u> <u>but subject to the following standards:</u>

a. Maximum two signs per business;

<u>b. Must contain the business' name and may be located on the City right-of-way in any of the CRA Lifestyle Frontages;</u>

c. Cannot be located within the required clearance for sidewalks and internal walkways as defined for the specific street classification or internal circulation requirements;

d. Shall not be placed in landscaping, within two feet of the street curb where there is on-street parking, public walkways, or crosswalk ramps;

e. Maximum two feet wide and three feet tall, not to exceed six square feet in area;

f. No lighting of signs is permitted;

g. All signs shall be removed from display when the business closes each day; and

h. A-frame/sandwich board signs are not considered structures.

F. Prohibited Signs.

<u>1. Spinning devices; flashing lights; searchlights, or reader board signs.</u> Traditional barber pole signs allowed.

2. Portable signs, except A-frame signs as allowed by SMC 20.50.660(I).

3. Outdoor off-premises advertising signs (billboards).

4. Signs mounted on the roof.

5. Inflatables.

6. Signs mounted on vehicles.



G. Nonconforming Signs.

<u>1. All pylon signs in the CRA Lifestyle Center existing at the time of adoption of this subsection are considered nonconforming and shall be removed by September 1, 2017. The City reserves the right to assess the property owner up to one hundred dollars per day for failure to remove nonconforming signs as indicated.</u>

2. Nonconforming signs shall not be altered in size, shape, height, location, or structural components without being brought to compliance with the requirements of this Code. Repair and maintenance are allowable, but may require a sign permit if structural components require repair or replacement.

3. Electronic changing message (EMC) or reader boards may not be installed in existing, nonconforming signs without bringing the sign into compliance with the requirements of this code.

H. Temporary Signs.

<u>1. General Requirements. Certain temporary signs not exempted by SMC</u> <u>20.50.610 shall be allowable under the conditions listed below. All signs shall be</u> <u>nonilluminated. Any of the signs or objects included in this section are illegal if they are</u> <u>not securely attached, create a traffic hazard, or are not maintained in good condition.</u> <u>No temporary signs shall be posted or placed upon public property unless explicitly</u> <u>allowed or approved by the City through the applicable right-of-way permit. Except as</u> <u>otherwise described under this section, no permit is necessary for allowed temporary</u> <u>signs.</u>

2. Temporary On-Premises Business Signs. Temporary banners are permitted to announce sales or special events such as grand openings, or prior to the installation of permanent business signs. Such temporary business signs shall:

<u>a. Be limited to one sign for businesses under 10,000sf, two signs for</u> <u>businesses larger than 10,000sf but smaller than 40,000sf, and three signs for</u> <u>businesses larger than 40,000sf;</u>

b. Be limited to 100 square feet in area;

<u>c. Not be displayed for a period to exceed a total of 60 calendar days</u> <u>effective from the date of installation and not more than four such 60-day periods</u> <u>are allowed in any 12-month period; and</u>

d. Be removed immediately upon conclusion of the sale, event or installation of the permanent business signage.



3. Construction Signs. Banner or rigid signs (such as plywood or plastic) identifying the architects, engineers, contractors or other individuals or firms involved with the construction of a building or announcing purpose for which the building is intended. Total signage area for both new construction and remodeling shall be a maximum of 32 square feet. Signs shall be installed only upon City approval of the development permit, new construction or tenant improvement permit and shall be removed within seven days of final inspection or expiration of the building permit.

<u>4. Feather flags and pennants when used to advertise city-sponsored or CRA</u> <u>Lifestyle Center community events.</u>

5. Pole banner signs that identify the CRA Lifestyle Center.

6. Temporary signs not allowed under this section and which are not explicitly prohibited may be considered for approval under a temporary use permit under SMC 20.30.295 or as part of administrative design review for a comprehensive signage plan for the site.

I. Exempt Signs. The following are exempt from the provisions of this chapter, except that all exempt signs must comply with SMC 20.50.540(A), Sight Distance, and SMC 20.50.540(B), Private Signs on City Right-of-Way:

1. Historic site markers or plaques and gravestones.

2. Signs required by law, including but not limited to:

a. Official or legal notices issued and posted by any public agency or court; or

b. Traffic directional or warning signs.

3. Plaques, tablets or inscriptions indicating the name of a building, date of erection, or other commemorative information, which are an integral part of the building structure or are attached flat to the face of the building, not illuminated, and do not exceed four square feet in surface area.

<u>4. Incidental signs, which shall not exceed two square feet in surface area;</u> provided, that said size limitation shall not apply to signs providing directions, warnings or information when established and maintained by a public agency.

5. State or Federal flags.

6. Religious symbols.



7. The flag of a commercial institution, provided no more than one flag is permitted per business; and further provided, the flag does not exceed 20 square feet in surface area.

8. Neighborhood identification signs with approved placement and design by the <u>City.</u>

<u>9. Neighborhood and business block watch signs with approved placement of standardized signs acquired through the City of Shoreline Police Department.</u>

<u>10. Plaques, signs or markers for landmark tree designation with approved</u> placement and design by the City.

<u>11. Real estate signs not exceeding 24 square feet and seven feet in height, not on City right-of-way. A single fixed sign may be located on the property to be sold, rented or leased, and shall be removed within seven days from the completion of the sale, lease or rental transaction.</u>

12. City-sponsored or community-wide event signs.

<u>13. Parks signs constructed in compliance with the Parks Sign Design Guidelines</u> and Installation Details as approved by the Parks Board and the Director. Departures from these approved guidelines may be reviewed as departures through the administrative design review process and may require a sign permit for installation.

<u>14. Garage sale signs not exceeding four square feet per sign face and not advertising for a period longer than 48 hours.</u>

15. City land-use public notification signs.

16. Menu signs used only in conjunction with drive-through windows, and which contains a price list of items for sale at that drive-through establishment. Menu signs cannot be used to advertise the business to passersby: text and logos must be of a size that can only be read by drive-through customers. A building permit may be required for menu signs based on the size of the structure proposed.

<u>17. Campaign signs that comply with size, location and duration limits provided</u> in Shoreline Administrative Rules.







Addendum

Addendum to: City of Shoreline, Aurora Square Planned Action Draft Environmental Impact Statement (December 12, 2014) and Final Environmental Impact Statement (July 24, 2015).

Date Issued: March 8, 2019

Introduction

This document addends the City of Shoreline, Aurora Square Planned Action Draft Environmental Impact Statement (EIS) and Final Environmental Impact Statement.

The Draft EIS is available at this website:

http://www.shorelinewa.gov/Home/ShowDocument?id=19087

The Final EIS is available at this website:

http://www.shorelinewa.gov/Home/ShowDocument?id=21489

Consistent with the State Environmental Policy Act (SEPA), this addendum has been prepared to correct a reporting error in the trip generation numbers of the Draft EIS and the Final EIS. The trip generation numbers were reported incorrectly in the documents and have been corrected to match the trip generation numbers used in the analysis. There is no change to the analysis of alternatives, significant impacts, or mitigation measures. A notice of this Addendum has been circulated to those receiving the Final EIS.

Discussion

Table 0-1. PM Peak Hour Trip Generation by Alternative				
	No Action Phased Growth		Planned Growth	
	Alternative 1	Alternative 2	Alternative 3	
Inbound Trips	553	933	1,313	
Outbound Trips	737	1,159	1,581	
Total Trips	1,289	2,092	2,894	

The Draft EIS identified the PM peak hour trips generated for each of the three alternatives in Chapter 3.3, Table 3-13 on page 3-51.

Table 3-13 (above) shows the trip generation numbers without a reduction for trips occurring within a site that has multiple land uses. The *National Cooperative Highway Research Program (NCHRP) Report 684* methodology estimates the number of trips between land uses within the site



(internal capture), which decreases the total vehicle trips external to the site. The transportation analysis in the EIS used trip generation numbers with a reduction for internal capture to evaluate traffic operations for the alternatives. The data in the Table 3-13 incorrectly reports the trip generation numbers without the internal caputure reduction.

EIS Corrections

Based on the above review, make the following changes to the Draft EIS and the Final EIS.

1. In the Draft EIS, amend Table 3-13 on page 3-51 as corrected below:

Table 0-1. PM Peak Hour Trip Generation by Alternative				
			Planned	
	No Action	Phased Growth	Growth	
	Alternative 1	Alternative 2	Alternative 3	
Inbound Trips	553 <u>453</u>	933 <u>633</u>	1,313 <u>817</u>	
Outbound Trip	os 737 <u>594</u>	1,159 <u>812</u>	1,581 <u>1,038</u>	
Total Trips	1,289 <u>1,047</u>	2,092 <u>1,445</u>	2,894 <u>1,855</u>	
Source: KPG 20142	019			

2. In the Draft EIS, amend Appendix D: Draft Planned Action Ordinance, Section III D (3) (a) Trip Ranges & Thresholds on page 4 as corrected below:

Peak Hour inbound and Outbound trips during the PM Peak Hour by Alternative					
	No Action Alternative 1	Phased Growth Alternative 2	Alternative 2 Net Trips	Planned Growth Alternative 3	Alternative : Net Trips
Inbound Trips	553	933 <u>633</u>	380 <u>180</u>	1,313 <u>817</u>	760 <u>364</u>
Outbound Trips	737 <u>594</u>	1,159 <u>812</u>	4 22 <u>218</u>	1,581 <u>1,038</u>	844 <u>444</u>

2,092 1,445

803 398

Peak Hour Inhound and Outhound trins during the PM Peak Hour by Alternative

Source: KPG 20142019

Total Trips

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1,289 <u>1,047</u>

1,605 808

2,894 <u>1,855</u>



3. In the Final EIS, amend Appendix B: Proposed Planned Action Ordinance, Section 3 C (3) Transportation Thresholds as corrected below:

(a) Trip Ranges and Thresholds. The number of new PM Peak hour and daily trips anticipated within the Planned Action Area and reviewed in the FEIS for 2035 are as follows:

	No Action Alternative 1	Phased <u>Growth</u> Alternative 2	Net Trips Alternative 2	PhasedPlannedGrowthAlternative 3	Net Trips Alternative 3
Inbound Trips	553 <u>453</u>	933 <u>633</u>	380 <u>180</u>	1,313 <u>817</u>	760 <u>364</u>
Outbound Trips	7 3 7 <u>594</u>	1,159 <u>812</u>	<u>422 218</u>	1,581<u>1,038</u>	8 44 <u>444</u>
Total Trips	1,289 <u>1,047</u>	2,092 <u>1,445</u>	803 <u>398</u>	2,894 <u>1,855</u>	1,605 <u>808</u>

ORDINANCE NO. 863

AN ORDINANCE OF THE CITY OF SHORELINE AMENDING THE AURORA SQUARE COMMUNITY RENEWAL AREA PLANNED ACTION ORDINANCE AS ADOPTED BY ORDINANCE NO. 705.

WHEREAS, on August 10, 2015, the City Council adopted Ordinance No. 705, designating the Aurora Square Community Renewal Area as a Planned Action; and

WHEREAS, Section 3(C)(3)(a) of Ordinance No. 705 sets forth the new PM Peak hour and daily trips anticipated within the Planned Action Area for the purpose of establishing transportation thresholds; and

WHEREAS, it was recently determined that the trip generation numbers were reported incorrectly in the environmental documents that informed Section 3(C)(3)(a) because the numbers do not reflect a reduction in trips occurring within a site that has multiple land uses; and

WHEREAS, under the State Environmental Policy Act (SEPA), RCW 43.21C and its implementing regulations, WAC 197-11, the City prepared an Addendum to the Aurora Square Planned Action Environmental Impact Statement to correct these numbers; the City issued the SEPA Addendum on March 8, 2019; and

WHEREAS, Section 3(C)(3)(a) needs to be amended to accurately reflect the trip generation numbers as set forth in the SEPA Addendum; and

WHEREAS, the Planning Commission, after required public notice, on June 6, 2019 held a public hearing on the proposed amendment to Section 3(C)(3)(a) and made a recommendation to the City Council; and

WHEREAS, the City Council, after required public notice, held a study session on the proposed amendment and considered the Planning Commission's recommendations on June 17, 2019; and

WHEREAS, the City Council has determined that Section 3(C)(3)(a) should be amended to accurately report the trip generation numbers expected to be generated so that the correct transportation thresholds are being utilized under the Planned Action;

NOW, THEREFORE, THE CITY COUNCIL OF THE CITY OF SHORELINE, WASHINGTON DO ORDAIN AS FOLLOWS:

Section 1. Amendment. Section 3(C)(3)(a) of Ordinance No. 705 is amended as follows

(3) Transportation Thresholds:

(a) Trip Ranges and Thresholds. The number of new PM Peak hour and daily trips anticipated within the Planned Action Area and reviewed in the FEIS for 2035 are as follows:

	Phased	Net Trips	
	Alternative 3	Alternative 3	
Inbound Trips	1,313 817	760 364	
Outbound	1,581 1,038	844 444	
Trips			
Total Trips	2,894 1,855	1,605 808	

Section 2. SEPA Addendum. The Addendum to the Aurora Square Planned Action environmental documents, issued March 8, 2019, and attached hereto is incorporated into this Ordinance.

Section 3. Corrections by City Clerk or Code Reviser. Upon approval of the City Attorney, the City Clerk and/or the Code Reviser are authorized to make necessary corrections to this ordinance, including the corrections of scrivener or clerical errors; references to other local, state, or federal laws, codes, rules, or regulations; or ordinance numbering and section/subsection numbering and references.

Section 4. Severability. Should any section, subsection, paragraph, sentence, clause, or phrase of this ordinance or its application to any person or situation be declared unconstitutional or invalid for any reason, such decision shall not affect the validity of the remaining portions of this ordinance or its application to any person or situation.

Section 5. Publication and Effective Date. A summary of this Ordinance consisting of the title shall be published in the official newspaper. This Ordinance shall take effect five days after publication.

PASSED BY THE CITY COUNCIL ON JULY 22, 2019.

Mayor Will Hall

ATTEST:

APPROVED AS TO FORM:

Jessica Simulcik-Smith City Clerk Margaret King City Attorney

Date of Publication: , 2019

Effective Date: , 2019