



PLANNING COMMISSION
SPECIAL MEETING
THURSDAY, AUGUST 30, 2018
6:00 – 9:00 PM
COUNCIL CHAMBER
280 MADISON AVE N
BAINBRIDGE ISLAND, WA 98110

AGENDA

- 6:00 PM CALL TO ORDER
Call to Order, Agenda Review, Conflict Disclosure
- 6:05 PM SHORELINE MASTER PROGRAM (SMP) AMENDMENT
Critical Areas and Nonconforming Uses, Structures, and Lots
Study Session
Christy Carr, AICP, Long Range Senior Planner

Background materials include:

- May 24, 2018 public hearing draft with amendments related to critical areas
- June 6, 2018 Planning Commission comments and staff response to public hearing draft
- August 24, 2018 draft amendments related to nonconforming uses, structures, and lots (SMP Section 4.2.1)
- Existing SMP Section 4.2.1

- 7:40 PM SUBDIVISION DESIGN GUIDELINES AND STANDARDS
Study Session
Christy Carr, AICP, Long Range Senior Planner

- 8:55 PM NEW/OLD BUSINESS

- 9:00 PM ADJOURN

***** TIMES ARE ESTIMATES****

Public comment time at meeting may be limited to allow time for Commissioners to deliberate. To provide additional comment to the City outside of this meeting, e-mail us at pcd@bainbridgewa.gov or write us at Planning and Community Development, 280 Madison Avenue, Bainbridge Island, WA 98110

For special accommodations, please contact Jane Rasely, Planning & Community Development 206-780-3758 or at jrasely@bainbridgewa.gov

4.1.4.4 Regulations - General

1. Clearing and/or grading within shoreline jurisdiction shall require an approved clearing or grading permit in association with an existing legal use or a new permitted or allowed shoreline use or development. Such activities shall meet the mitigation and revegetation provisions in Section 4.1.2, Environmental Impacts and Section 4.1.3, Vegetation Management.
2. Upon completion of development, use or activity, the remaining cleared areas shall be replanted within the first applicable planting season.
3. All vegetation that is intended to be retained but may likely be disturbed by the clearing and grading activity shall be protected in accordance with the standards of BIMC Chapter 18.15.010, Landscaping, Screening, and Tree Retention, Protection and Replacement.
4. Land alteration (clearing, grading, and filling) shall be limited to the minimum extent necessary for the proposed development, use or activity. All land alteration must meet the standards of BIMC Chapter 15.20 Surface and Storm Water Management.

4.1.5 Critical Areas

4.1.5.1 Applicability

~~This section provides policies and regulations that apply to critical areas including critical saltwater and freshwater habitats as defined by WAC 173-26-221(2)(c)(iii) and (iv), including those portions of streams and wetlands, and flood plains or other flood prone areas within the shoreline jurisdiction. These policies and regulations apply in addition to the critical areas protection standards for fish and wildlife habitat conservation areas found in Appendix B. All shoreline uses and activities, including development which does not require a shoreline permit, must conform to these provisions. Shoreline development and activities associated with critical areas will be reviewed under the no net loss provisions of Section 4.1.2, Environmental Impacts, and may also be reviewed under Section 4.0, General (Island-wide) Policies and Regulations; Section 4.1.6, Water Quality and Stormwater Management; Section 4.1.3, Vegetation Management; and BIMC Chapter 15.18, Land Clearing, when applicable. Other portions of this Program may also apply.~~

This section applies to all development, uses and activities within areas or adjacent to areas designated as critical areas. No action shall be taken by any person, company, agency, governmental body (including the city), or applicant, which results in any alteration of a critical area except as consistent with the goals, policies, purposes, intent, requirements, and development standards of this section.

4.1.5.2 Goal

Comprehensively manage shoreline uses and activities to protect, enhance, and restore existing ecological functions and ecosystem-wide processes of critical areas by utilizing the most current, accurate, and complete scientific and technical information. By limiting adverse impacts to and alteration of critical areas, this section seeks to accomplish the following goals:

1. To conserve the biodiversity of plant and animal species, protect, maintain and restore healthy, functioning ecosystems through the protection of unique, fragile, and valuable elements of the environment, including, but not limited to, ground and surface waters, wetlands, fish and wildlife and their habitats;
2. Direct development, uses and activities to less environmentally sensitive sites and mitigate unavoidable impacts to critical areas by regulating alterations in and adjacent to critical areas;
3. Prevent cumulative adverse environmental impacts to water quality, water quantity, wetlands, and fish and wildlife habitat, and the overall net loss of wetlands, frequently flooded areas, aquifer recharge, and habitat conservation areas;
4. Protect members of the public and public resources and facilities from injury, loss of life, or property damage due to landslides and steep slope failures, erosion, seismic events, or flooding; and
5. Alert owners, potential purchasers, real estate agents, appraisers, lenders, builders, developers and other members of the public to natural conditions that pose a hazard or otherwise limit development.

4.1.5.3 Purpose and intent

1. The purpose of this section is to designate and classify ecologically sensitive and hazardous areas as critical areas and to protect, maintain and restore these areas and achieve no net loss of their functions and values and allow for reasonable use of public and private property.
2. This section is intended to implement the goals, policies, guidelines, and requirements of the city comprehensive plan and the Growth Management Act (Chapter 36.70A RCW).
3. Critical areas provide a variety of valuable and beneficial biological and physical functions that benefit the city and its residents. Critical areas may also pose a threat to human safety

or to public and private property. The beneficial functions and values provided by critical areas include, but are not limited to, water quality protection and enhancement, fish and wildlife habitat, food chain support, flood storage, conveyance and attenuation of flood waters, ground water recharge and discharge, erosion control, wave attenuation, and protection from hazards and the impacts of climate change. Groundwater recharge is of particular concern for the city because the Island's drinking water is supplied solely by groundwater.

4. This section is to be administered with flexibility and attention to site-specific characteristics. It is not the intent of this section to make a parcel of property unusable by denying its owner reasonable use of the property or to prevent the provision of public facilities and services necessary to support existing development.

4.1.5.4 Protection of Critical Areas

1. All proposed development, uses and activities subject to this section shall utilize mitigation sequencing pursuant to Section 4.1.2.6.
2. The precautionary principle shall be applied in the review of any action, taken or proposed, that does not conform to the requirements of this section. The burden of proof that the action will cause no net loss or harm to persons or property falls on the applicant or the property owner.

4.1.5.35 Policies

1. Provide a level of protection to critical areas that assures no net loss of shoreline ecological functions necessary to sustain shoreline natural resources.
- ~~1. Protect shoreline resource areas, including but not limited to critical areas, including:

 - a. ~~Critical Aquifer Recharge Areas~~
 - b. ~~Fish and Wildlife Habitat Conservation Areas~~
 - c. ~~Frequently Flooded Areas~~
 - d. ~~Geologically Hazardous Areas~~
 - e. ~~Wetlands~~
 - f. ~~Critical Saltwater and Freshwater Habitat Areas~~
 - g. ~~Critical Habitat~~~~
2. Encourage development proposals to include elements of preservation, conservation, restoration, or enhancement of critical areas, including saltwater habitat and fish and wildlife conservation areas, through incentives and ecosystem-wide restoration planning.

- ~~3. Locate, design, construction, and manage all shoreline uses and activities in ways that assure no net loss of shoreline ecological functions and ecosystem wide processes, and protect critical saltwater habitat, including fish and wildlife habitat conservation areas.~~
34. Locate and design shoreline uses, activities, and/or development to avoid risks to people and property. See also Section 3.0, Shoreline Designation Policies and Regulations, for additional provisions.
- ~~5. Ensure that proposed shoreline uses, activities and/or development proposed adjacent to critical areas or their buffers, will not adversely impact shoreline ecological functions and/or ecosystem wide process or critical areas, fish and wildlife habitat conservation areas and critical saltwater habitat.~~
46. Promote ~~and manage water-related~~ shoreline uses and activities, such as public access and recreation, that are compatible with critical areas, provided they do not result in a net loss of shoreline ecological function and process.
- ~~7. Monitor critical areas, including critical saltwater habitats, and fish and wildlife habitat conservation areas, to assure that these areas are not being adversely impacted by approved development or restoration projects.~~

4.1.5.46 Regulations – General

- ~~1. Development, uses, and activities proposed within shorelines of the state shall meet the requirements of the City's shoreline-specific Critical Areas Regulations as contained in Appendix B, in addition to the requirements found elsewhere in the Master Program.~~
- ~~2. Development, uses, and activities adjacent to critical areas, including critical saltwater habitats and fish and wildlife habitat conservation areas, proposed within shorelines of the state shall be monitored to assure that these areas are not being adversely impacted by approved development or restoration projects, consistent with Section 4.1.2 monitoring and mitigation requirements and the monitoring and mitigation requirements in Appendix B.~~
- ~~3. Special Reports. For development proposed on property with marine bluffs, steep slopes, erosion hazard areas and/or landslide hazard areas, a geotechnical report shall be required to assess potential hazards and propose measures to mitigate such hazards consistent with the requirements of this Master Program and attached appendices.~~
1. Any proposed development or activity within a critical area or its buffer or setback requiring review under this Program shall be reviewed based on the proposal's ability to comply with all of the following criteria:
 - a. The proposal minimizes the impact on critical areas in accordance with mitigation sequencing (SMP 4.1.2.6);
 - b. The proposal does not pose an unreasonable threat to the public health, safety, or welfare on or off the development proposal site;

- c. The proposal is consistent with the general purposes of this section and the public interest;
 - d. Any alterations permitted to the critical area are mitigated in accordance with mitigation requirements in SMP 4.1.2.6;
 - e. The proposal protects the critical area functions and values consistent with best available science and results in no net loss of critical area functions and values;
 - f. The proposal addresses cumulative impacts of the action; and
 - g. The proposal is consistent with other applicable regulations and standards.
2. The city may condition the proposed activity as necessary to mitigate impacts to critical areas and to conform to the standards required by this section.
3. Except as provided for by this section, any project that cannot adequately mitigate its impacts to critical areas in the sequencing order of preferences in SMP 4.1.2.6 shall be denied.
4. Support Information Requirements. Any application for proposed development or activity requiring review under this Program shall include the following:
- a. A site plan drawn to scale identifying locations of critical areas and their buffers, location of proposed development, uses and activities, location and estimated quantity of earthwork and vegetation clearing and location and type of drainage features or infrastructure.
 - b. Any critical area report or study required by this section. Such reports or studies shall be prepared by qualified professionals in the area of concern as defined in Section 8.0, Definitions, and in accordance with the requirements provided in Section 4.1.5.14 (Critical Areas Reports) as follows:
 - i. Aquifer recharge study: Hydrogeologist;
 - ii. Geological hazard assessment: Engineering geologist; geotechnical engineer, provided that:
 - i. An engineering geologist may provide a study, including interpretation, evaluation, analysis, and application of geological information and data and may predict potential or likely changes in types and rates of surficial geologic processes due to proposed changes to a location, provided it does not contain recommended methods for mitigating identified impacts, other than avoidance, structural impacts to, or suitability of civil works; and
 - ii. Engineering geologists may not provide engineering recommendations or design recommendations, but may contribute to a complete geotechnical report that is co-sealed by a geotechnical engineer.

- a. Stream buffer enhancement plan: Biologist with stream ecology expertise; fish or wildlife biologist; a civil engineer may provide studies for drainage, surface and subsurface hydrology, and water quality;
 - b. Wetland buffer enhancement plan, wetland critical area report, wetland mitigation plan: Wetlands specialist.
 - c. Habitat Management Plans: Wildlife biologist and/or fisheries biologist.
 - d. The director is authorized to retain experts at the applicant's expense and request review from other jurisdictional agencies to assist in the review of application materials; and
3. Any additional information determined as relevant by the director.

5. Notice on Title

- a. The owner of any property with field-verified presence of critical area or buffer on which a development proposal is submitted shall file for record with the Kitsap County auditor a notice approved by the director in a form substantially as set forth in Subsection 2 of this Section. Such notice shall provide notice in the public record of the presence of a critical area and buffer, the application of this section to the property, and that limitations on actions in or affecting such areas may exist. The applicant shall submit proof that the notice has been filed for record before the city shall approve any development proposal for such site. The notice shall run with the land and failure to provide such notice to any purchaser prior to transferring any interest in the property shall be in violation of this section.
- b. Form of Notice.

Critical Areas
and/or
Critical Areas Buffer Notice

Legal Description: _____

Present owner: _____

NOTICE: This property contains critical areas or their buffers as defined by the City of Bainbridge Island Ordinance No. _____ . The property

_____ was the subject of a development proposal for

(type of permit) application # _____ filed on _____ (date) ____ . Restrictions on use or alteration of the critical areas or their buffers may exist due to natural conditions of the property and resulting regulations. Review of such application has provided information on the location of critical areas or critical area buffers and restrictions on their use through setback areas. A copy of the plan showing such setback areas and other restrictions or required enhancements is attached hereto.

Signature of owner _____

STATE OF WASHINGTON)

COUNTY OF _____)

On this day personally appeared before me to me known to be the individual(s) described in and who executed the within and foregoing instrument and acknowledged that they signed the same as their free and voluntary act and deed for the uses and purposes therein stated.

Given under my hand and official seal this _____ day of _____, _____. NOTARY PUBLIC in and for the state of Washington, residing at _____.

4.1.5.57 Regulations – ~~Fish and Wildlife Habitat Conservation Areas and~~ Critical Saltwater Habitat

1. Water-dependent development and uses, including marinas, docks, piers, mooring areas, underwater parks, utility crossings, and shoreline modifications, shall not intrude into or be built over critical saltwater habitat unless:
 - a. The applicant can show that all of the following criteria can be met:
 - i. The use preferences of Section 4.1.1 shall be utilized for uses in Shorelines of State-wide Significance; and
 - ii. The need for such a structure is clearly demonstrated and an alternative alignment or location on the property that would avoid impacts to critical saltwater habitats is not feasible or would result in unreasonable and disproportionate cost to accomplish the same general purpose, as demonstrated through an alternatives analysis. The analysis should include in part, shoreline bathymetry, shoreline features at the site, and substrate composition;
 - iii. It can be demonstrated that the project is consistent with the state's interest in resource protection and species recovery; and
 - iv. Impacts to critical saltwater habitat functions and processes are mitigated to result in equal or better ecological function; or
 - b. The proposal is for private, non-commercial, residential docks for single use, community, or joint-use, which may be authorized, provided that:
 - i. Avoidance of impacts to critical saltwater habitats by an alternative alignment or location is not feasible; and
 - ii. The project, including any required mitigation, will result in no net loss of ecological functions and processes associated with critical saltwater habitat.
 - c. New or expanded overwater structures shall be located the greater or most protective of:

- i. A horizontal distance of 25 feet from the outside edge of the structure to native aquatic vegetation attached to or rooted in substrate;
 - ii. A horizontal distance equal to the maximum distance shade will be cast by the structure and vessel;
 - iii. A 4-foot vertical distance from eelgrass or relevant submerged aquatic vegetation;
 - iv. A distance the diameter of the turning circle, if the structure is to be utilized for motorized vessels. The turning circle is defined as 3.5 times the length of the longest vessel to use the structure.
 - v. Alternative measures that demonstrate no net loss of ecological functions.
 - d. For projects within WDFW documented Pacific herring spawning locations, in-water activities that would affect herring spawn should be restricted to WDFW's approved work window for Bainbridge Island (May 1 through January 14). For aquaculture projects, the City may consider alternative methods that are contained in federal and/or state aquaculture permits for reducing impacts to herring spawning habitat and other forage fish spawning habitat.
 - e. For projects other than commercial aquaculture within WDFW documented sand lance and surf smelt spawning locations, no activities should occur during spawning windows as identified by WDFW. For commercial aquaculture projects within WDFW documented sand lance and surf smelt spawning locations, no harvesting may occur during the surf smelt or sand lance spawning seasons until a spawning survey is conducted. If surf smelt or sand lance spawn are present in the growing area to be harvested or adjacent tidelands, then no harvest activities may occur until the eggs are hatched. Extreme caution should be taken to avoid impact and minimize disturbance of sand lance and surf smelt larvae that are present.
2. Aquatic herbicide treatments, mechanical removal of vegetation or aquatic pesticide treatments shall not be used on critical saltwater habitats, except for approved habitat restoration or enhancement measures that meet the provisions of Section 4.1.6, Water Quality and Stormwater Management.
 3. Sand, gravel or other materials shall not be added or removed from critical saltwater habitat, unless approved as part of a restoration effort or beach nourishment program or as allowed in 1, above.
 4. New outfalls (including stormwater and sewer outfalls) and discharge pipes shall not be located in critical saltwater habitats or areas where outfall or discharge will adversely affect critical saltwater habitat, unless the applicant can show that all of the following can be met:
 - a. There is no feasible alternative location for the outfall or pipe; and
 - b. The outfall or pipe is placed below the surface of the beach or bed of the water body; and
 - c. The discharge point(s) on the outfall or discharge pipe is located so the discharges, including nutrients and flow, do not adversely affect critical saltwater habitats; and

- d. For public sewage outfalls:
 - i. The outfall discharges waterward of the intertidal zone.
 - ii. The disturbed area will be revegetated with native vegetation.
- 5. The use of existing outfalls shall be maximized to limit the need for additional outfalls, provided the existing outfall meets the standards of this section, or unless an alternatives analysis demonstrates the dispersal is less impacting to the shoreline environment.
- ~~6. For activities adjacent to fish and wildlife habitat conservation areas the maximum prescribed buffer shall apply. These buffers can be modified on a case-by-case basis through a habitat management plan, pursuant to Section B-4 contained in Appendix B. In order to determine the need or extent of a buffer, a critical area report shall be required for all development in or adjacent to a habitat conservation area.~~
 - ~~a. In addition to the requirements in Appendix B, the Habitat Management Plan shall:

 - ~~i. Describe actions that will be implemented to ensure that buffer areas provide ecological functions and processes equivalent to a dense native plant community to the extent possible given the area that is feasibly available; and~~
 - ~~ii. Demonstrate that no net loss of ecological functions and processes in critical saltwater habitat and other critical areas will occur, as specified in WAC 173-26-201(3)(d) and WAC 173-26-221(2)(c)(iii).~~~~
- 7. Until an inventory of critical saltwater habitat is completed, all over water and near-shore development shall conduct an inventory of site and adjacent beach sections to assess the presence of critical saltwater habitat and/or functions and processes. The inventory shall occur prior to construction and the methods and extent of the inventory shall be consistent with accepted research methodology. New studies shall be required only when existing information is out dated or does not exist.

~~4.1.5.6 Regulations – Frequently Flooded Areas~~

- ~~1. All new development and new uses within the jurisdiction of this Master Program shall comply with the provisions of Section B-11, Frequently Flooded Areas located in Appendix B of this Master Program.~~

4.1.5.8 Aquifer Recharge Areas

- 1. Applicability. Aquifer recharge areas are areas that have a critical recharging effect on groundwater used for potable water supplies and/or that demonstrate a high level of susceptibility or vulnerability to groundwater contamination from land use activities. In accordance with WAC 365-190-100, the entirety of Bainbridge Island is classified as an

aquifer recharge area to preserve the volume of recharge available to the aquifer system and to protect groundwater from contamination.

2. Prohibited Activities and Uses. The following activities and uses are prohibited within critical aquifer recharge areas due to the probability or potential magnitude of their adverse effects on groundwater:

- a. Landfills. Landfills, including hazardous or dangerous waste, municipal solid waste, special waste, wood waste, and inert and demolition waste landfills;
- b. Underground Injection Wells. Class I, III, and IV wells and subclasses 5F01, 5D03, 5F04, 5W09, 5W10, 5W11, 5W31, 5X13, 5X14, 5X15, 5W20, 5X28, and 5N24 of Class V wells;
- c. Chemical wood preservation and/or treatment facilities;
- d. Storage, Processing, or Disposal of Radioactive Substances. Facilities that store (other than minor sources such as medicinal uses or industrial testing devices), process, or dispose of radioactive substances;
- e. Hazardous liquid transmission pipelines;
- f. Commercial mining and chemical washing of metals, hard rock, sand, and gravel;
- g. Hydrocarbon extraction, reprocessing, refinement, and storage;
- h. Electroplating/metal finishing;
- i. Facilities that treat, store, process, or dispose of hazardous waste; and
- j. Other Prohibited Uses or Activities.
 - i. Activities that would significantly reduce the recharge to aquifers currently or potentially used as a potable water source; and
 - ii. Activities that would significantly reduce the recharge to aquifers that are a source of significant baseflow to a stream.

3. Development standards – general

- a. No development, use or activity may exceed water quality standards or otherwise violate the anti-degradation requirements specified in WAC Chapter 173-200.
- b. Any development or activity that is not excluded in Section 4.1.5.8.4.a shall ensure sufficient groundwater recharge, defined as maintaining 100 percent of the annual average pre-

construction groundwater recharge volume for the site. The primary means to ensure sufficient groundwater recharge shall be through the designation of an Aquifer Recharge Protection Area in accordance with Section 4.1.5.8.4.

4. Development standards – Aquifer Recharge Protection Area (ARPA)

- a. Any proposed development or activity requiring a site assessment review (SAR) pursuant to BIMC 15.19 and 15.20 located within the R-0.4, R-1 or R-2 zoning designations requires designation of an ARPA; except, designation of an ARPA is not required for the following:
 - i. Removal of invasive species;
 - ii. Construction of public trails provided the standards set forth in Section 5.8 are met;
 - iii. Replacement of hard surfaces; and
 - iv. Development and activities located on properties protected in perpetuity by a legal instrument acceptable to the City Attorney wherein at least 65 percent of the site meets the development standards for aquifer recharge protection areas of this section.

5. ARPA general requirements

- a. The location and configuration of the ARPA shall be determined through completion of a Site Assessment Review (SAR) in accordance with BIMC 15.19. The city may require a professional forester, ISA-certified arborist or landscape architect to determine the location and configuration of the ARPA if needed to ensure the ARPA design standards set forth in Section 4.1.5.8.6.a through c. are met;
- b. The ARPA shall include all existing native vegetation on a site, up to a maximum of 65 percent of the total site area. A lower percentage is allowed if necessary to achieve a development area of at least 12,500 square feet on a parcel;
- c. The maximum area of the required ARPA may be reduced to 50 percent for public schools and public parks allowed in the underlying zoning district;
- d. The location and configuration of the ARPA may change over time; however, the total area required pursuant to b., above, shall be retained once established. Any alteration to the location or configuration of the ARPA shall be approved by the director and documented on a site plan included with a notice to title in accordance with Section 4.1.5.6. The city may require a ARPA stewardship plan prior to approving a change to the location and configuration of the ARPA.

6. ARPA design standards

- a. Healthy, existing trees and vegetation should be retained to the maximum extent possible. Healthy significant trees shall be priority trees for retention. Trees shall be retained in one or more stands or clusters.
 - b. The ARPA shall be delineated to include:
 - i. A low perimeter-to-area ratio;
 - ii. A minimum width of 12 feet; and
 - iii. The critical root zone of all significant trees.
 - c. The ARPA shall be contiguous with abutting, off-site areas of other ARPAs, open space or critical areas to the extent feasible.
 - d. The ARPA may include landscaping or open space requirements pursuant to BIMC 18.15.010.D and E and BIMC 17.12, respectively, and other critical areas and their buffers or setbacks pursuant to other provisions of this section.
4. ARPA use standards. The following developments and activities are allowed within a designated ARPA located outside the required shoreline buffer or Site-Specific Vegetation Management Area. Development and activities within any portion of an ARPA located within the required shoreline buffer or Site-Specific Vegetation Management Area is subject to applicable sections of this Program.
- a. Any structure or activity as long as the new structure or activity is shown to not negatively impact the amount of groundwater recharge on the site. Specifically, any structure or activity is allowed as long as the structure or activity (including mitigation measures, if any are needed) maintains 100 percent of the annual average groundwater recharge volume that existed on the site prior to the structure or activity as demonstrated by the 2012 Western Washington Hydrology Model (WWHM2012) recharge module, as amended.
 - b. Tree and vegetation activities specified in BIMC 16.20.090.B.4.
 - c. Installation of native plants.
 - d. Removal of invasive plant species.
 - e. Passive recreation, including pervious trails.
 - f. Potable water wells and well houses.
 - g. Low impact fencing or signs marking the ARPA boundary.

- h. On-site sewage drainfield facilities, if construction of the system will not require the use of heavy equipment or removal of significant trees.
 - i. Storm drainage facilities if the applicant can demonstrate that (a) the system meets the low impact design (LID) standards of BIMC 15.20, and (b) construction of the system will not require the use of heavy equipment or removal of significant trees.
 - j. Accessory solar panels, small wind energy generators, composting bins, rainwater harvesting barrels, and cisterns, as defined in BIMC 18.36.
 - k. Other structures or hard surfaces with a total footprint of no greater than 200 square feet.
 - l. Driveways may be allowed to pass through the ARPA if (a) siting of the driveway within the ARPA is determined by the director to be necessary to achieve greater native vegetation retention and use of non-structural low impact design practices, (b) site utilities are installed within the footprint of the driveway, (c) siting of the driveway avoids removal of significant trees to the maximum extent feasible and (d) the total area required pursuant to Section 4.1.5.8.5 is achieved, which may require replanting of areas comprised of non-native vegetation.
 - m. Removal of any significant tree, other than hazard tree removal, with City review and pre-approval of an Aquifer Recharge Protection Area stewardship plan prepared in accordance with Section 4.1.5.14.
5. ARPA protection
- a. The ARPA, including the critical root zone of significant trees, shall be protected during construction as provided in BIMC 18.15.010.C.4 or as specified by an ISA-certified arborist.
 - b. The ARPA shall be documented on a site plan included with a notice to title in accordance with Section 4.1.5.6.

4.1.5.9 Fish and Wildlife Habitat Conservation Areas

1. Fish and Wildlife Habitat Conservation Areas include:

- a. Streams. Within the city of Bainbridge Island, streams shall include those areas which meet the definitions in Section 8.0, Definitions. Streams shall be classified in accordance with the

Washington Department of Natural Resources water typing system (WAC 222-16-030), which is hereby adopted in its entirety by reference and summarized as follows:

- i. Type F: streams which contain fish habitat pursuant to Section 8.0 (Definitions);
- ii. Type Np: perennial non-fish habitat streams; and
- iii. Type Ns: seasonal non-fish habitat streams.

- b. Habitats recognized by federal or state agencies for federal- and/or state-listed endangered, threatened, sensitive and candidate/monitored species which presence is documented in maps or databases available to City of Bainbridge Island.

- c. Areas that contain habitats and species of local importance. Any person may nominate for designation a species or habitat of local importance. Nominations will be processed pursuant to definitions in Section 8.0, Definitions and nomination criteria developed by the director.

- d. Biodiversity areas and corridors as defined in the 2008 Washington Department of Fish and Wildlife Priority Habitat and Species List, or as amended.

- e. All areas within the city of Bainbridge Island meeting one or more of the preceding criteria in this Section, regardless of any formal identification or mapping, are hereby designated critical areas and are subject to the provisions of this section and shall be managed consistent with the best available science, such as the Washington Department of Fish and Wildlife's most recent Management Recommendations for Priority Habitat and Species.

2. Mapping

The location and extent of all mapped critical areas shown on the city of Bainbridge Island critical area maps are approximate and shall be used as a general guide only. The type, extent and boundaries shall be determined in the field by a qualified professional according to the requirements of this section. The critical area maps are adopted as part of this section and are incorporated herein by this reference. Washington Department of Natural Resource (DNR) and Washington Department of Fish and Wildlife maps are not the only source of data. Any request to change the city's existing map shall be accompanied by a report from a qualified professional that includes a description of the critical area and a summary of how it meets the definitions in Section 8.0, Definitions. The inventory 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 or altered critical areas are identified.

3. Development Standards – Streams

- a. All designated streams require a buffer pursuant to Table 4-4. Buffers shall remain as undisturbed or enhanced vegetation areas for the purpose of protecting the integrity, function, and value of stream resources. Any buffer modification proposed shall be through an approved

Buffer Enhancement Plan. No uses or activities shall be allowed within the buffer unless allowed by this Section. If the buffer has previously been disturbed, the director may require the disturbed buffer area be enhanced, including revegetation with native plant species, pursuant to an approved Buffer Enhancement Plan meeting the requirements of Section 4.1.5.14. No refuse, including but not limited to household trash, yard waste and commercial/industrial refuse, shall be placed in the buffer.

- b. The required minimum buffers listed in Table 4-4 are based on the assumption that the buffer is well vegetated with native species appropriate to the site. If the buffer does not consist of vegetation adequate to provide stream protection and buffer functions, the director may require that the buffer be planted to achieve such protection and function.

Table 4-4. Stream Buffers

<u>Stream Type</u>	<u>Buffer Width</u>
<u>F</u>	<u>200</u>
<u>Np</u>	<u>100</u>
<u>Ns (connected to F or Np)</u>	<u>75</u>
<u>Ns (not connected to F, Np)</u>	<u>50</u>

- c. Buffer distances shall be measured from the ordinary high water mark (OHWM) or from the top of each bank where the OHWM cannot be identified.
- d. The buffer width shall be increased to include streamside wetlands which provide overflow storage for stormwater, feed water back to the stream during low flow, or provide shelter and food for fish. In braided channels, the ordinary high water mark or top of bank shall be defined to include the entire stream feature.
- e. Streams in Ravines - Buffers. For streams in ravines outside the Mixed Use Town Center with ravine sides 10 feet or greater in height, the buffer width shall be the greater of:
- The buffer width required for the stream type; or
 - A buffer width which extends 25 feet beyond the top of the ravine.
- f. Increased buffer provisions. The director may increase buffer widths, up to 50 percent greater than the applicable buffer set in this section for critical areas with known locations of endangered, threatened, or state monitor or priority species for which a habitat management plan indicates a larger buffer is necessary to protect habitat values for such species. Such determination shall be based on site-specific and project-related conditions.
- g. Structure or hard surface setback. A structure or hard surface setback line of fifteen feet is required from the edge of any stream buffer. Minor structural or impervious surface intrusions

into the areas of the setback, such as but not limited to fire escapes, open/uncovered porches, landing places, outside walkways, outside stairways, retaining walls, fences and patios, may be permitted if the department determines upon review of an analysis of buffer functions submitted by the applicant, that construction and/or maintenance of such intrusions will not encroach into the stream buffer or adversely impact the stream. The functional analysis shall include a functional methodology supported by best available science. The setback shall be identified on a site plan and filed as an attachment to the notice on title as required by Section 4.1.5.6 (Notice on Title).

- h. Buffer Modification. Modification to buffer widths may be allowed provided the applicant demonstrates the need for modification through mitigation sequencing pursuant to Section 4.1.2.6.
- i. Buffer Width Averaging. The width of a required buffer may be averaged if the applicant can demonstrate that averaging can provide equal or greater functions and values as would be provided under the required buffer and all of the following conditions are met:
 - A. The total area of buffer after averaging is equal to the area required without averaging.
 - B. Averaging does not result in the any portion of the buffer being reduced more than 25 percent of its required width.
- ii. Any request for buffer modification outlined above shall be reviewed in conjunction with the underlying land use or construction permit. Requests for buffer reduction shall include a buffer enhancement plan prepared by a qualified consultant that meets the requirements of Section 8.0, Definitions.
- iii. The city may request technical review of a buffer enhancement plan from other agencies to ensure consistency with state, federal or tribal management recommendations.
- iv. Any other buffer modification, other than non-compensatory enhancement, requires a shoreline variance.

9. Development Standards – Other Fish and Wildlife Habitat Conservation Areas

- a. All development, uses and activities within known fish and wildlife habitat conservation areas require submittal and approval of a Habitat Management Plan (HMP) as specified in Section 4.1.5.14, Critical area reports. The HMP shall consider measures to retain and protect the fish and wildlife habitat and shall consider the effects of land use intensity, buffers, setbacks, impervious surfaces, erosion control and retention of existing native vegetation.
- b. In the case of bald eagles, the HMP shall comply with the federal Bald and Golden Eagle Protection Act (16 USC 668) to avoid impacting eagles and their habitat.

10. Standards for specific development, uses and activities. The following development, uses and activities may be allowed within fish and wildlife habitat conservation areas and their buffers. Any proposal for the following development shall comply with the standards of this Section and other applicable state, federal and local regulations. The director may waive the requirement for a HMP when project impacts are demonstrated to be de minimis through mitigation sequencing pursuant to Section 4.1.2.6.

- a. Stream Crossings. Any private or public road or driveway expansion or construction proposed to cross streams classified within this section shall comply with the following minimum development standards. All other state and local regulations regarding water crossing structures shall apply, and the use of the *Water Crossing Design Guidelines* (WDFW, 2013), or as amended, is encouraged.
 - i. Bridges or bottomless culverts shall be required for all Type F streams. Other alternatives may be allowed upon (i) submittal of a Habitat Management Plan which demonstrates that other alternatives would not result in significant impacts to the fish and wildlife conservation area and (ii) as determined through the Hydraulic Project Approval (HPA) process administered by the Washington Department of Fish and Wildlife. The plan must demonstrate that fish habitat will not be reduced in area or function.
 - ii. Crossings shall not occur in fish-bearing streams unless no other feasible crossing site exists. For new development proposals, if existing crossings are determined to adversely impact salmon spawning or passage areas, new or upgraded crossings shall be located as determined necessary through coordination with Washington Department of Fish and Wildlife;
 - iii. Bridge piers or abutments shall not be placed in either the floodway or between the ordinary high water marks unless no other feasible alternative placement exists;
 - iv. Crossings shall not diminish flood carrying capacity;
 - v. Crossings shall serve multiple properties whenever possible;
 - vi. Where there is no reasonable alternative to providing a conventional culvert, the culvert shall be the minimum length necessary to accommodate the permitted activity.
- b. Stream Relocations. Stream relocations may be allowed only for the purpose of flood protection and/or fisheries restoration and only when consistent with a Washington Department of Fish and Wildlife Hydraulic Project Approval (HPA) process and the following minimum performance standards:
 - vii. The channel, bank, and buffer areas are replanted with native or equivalent vegetation that replicates a natural, undisturbed riparian condition;
 - viii. For those waters designated as Frequently Flooded Areas pursuant to BIMC 15.16, a professional engineer licensed in the State of Washington provides information demonstrating that the equivalent base flood storage volume and function will be maintained; and

- ix. Relocated stream channels are designed to meet or exceed the functions and values of the stream to be relocated.
- c. Pesticides, Fertilizers and Herbicides. No pesticides, herbicides or fertilizers may be used in fish and wildlife conservation area or their buffers, except those approved by the U.S. Environmental Protection Agency (EPA) and approved under a Washington Department of Ecology Water Quality Modification Permit for use in fish and wildlife conservation area environments and applied by a licensed applicator in accordance with the safe application practices on the label.
- d. Land Divisions and Land Use Permits. All land divisions and land uses proposed on a site that includes Fish and Wildlife Habitat Conservation Areas shall comply with the following procedures and development standards:
 - i. The open water area of lakes, streams, and tidal lands shall not be permitted for use in calculating minimum lot area.
 - ii. Land division approvals shall be conditioned so that all required buffers are designated as an easement or covenant encumbering the buffer. Such easement or covenant shall be recorded together with the land division and represented on the final plat, short plat or binding site plan.
 - iii. In order to avoid the creation of non-conforming lots, each new lot shall contain at least one building site that meets the requirements of this section, including buffer requirements for fish and wildlife habitat conservation areas. Each lot must also have access and a sewage disposal system location that are suitable for development that do not adversely impact the fish and wildlife conservation area.
 - iv. After preliminary approval and prior to final land division approval, the director may require that the common boundary between a required buffer and the adjacent lands be identified using permanent signs. In lieu of signs, alternative methods of buffer identification may be approved when such methods are determined by the director to provide adequate protection to the aquatic buffer.
- e. Utilities. Placement of utilities within designated fish and wildlife conservation area may be allowed pursuant to the following standards:
 - i. Construction of utilities may be permitted in fish and wildlife conservation area or their buffers, only when no practicable or reasonable alternative location is available and the utility meets the requirements for installation, replacement of vegetation and maintenance outlined below.
 - ii. Sewer or on-site Sewage Utility. Construction of sewer lines or on-site sewage systems may be permitted in fish and wildlife conservation area or their buffers when the applicant demonstrates it is necessary to meet state and/or local health code requirements; there are no other practicable alternatives available; and construction meets the requirement of this Section. Joint use of the sewer utility may be allowed.

- iii. New utilities shall not be allowed in fish and wildlife conservation area with known locations of federal or state listed endangered, threatened or sensitive species, heron rookeries or nesting sites of raptors which are listed as state candidates except in those circumstances where an approved Habitat Management Plan indicates that the utility will not significantly impact the conservation area;
- iv. New Utility Construction. Utility construction and maintenance shall protect the environment of fish and wildlife conservation area and their buffers.
 - A. New utilities shall be aligned whenever possible to avoid cutting or root damage to trees greater than 12 inches in diameter at breast height (four and one-half feet) measured on the uphill side.
 - B. Any area of disturbance shall be revegetated with appropriate native or equivalent vegetation at not less than pre-construction vegetation densities or greater, immediately upon completion of construction or as soon thereafter as possible due to seasonal growing constraints. The utility or landowner responsible for installation shall ensure that such vegetation survives.
 - C. Any additional access for maintenance shall be provided wherever possible at specific points rather than by parallel roads. If parallel roads are necessary, they shall be of a minimum width but no greater than 15 feet; and shall be contiguous to the location of the utility corridor on the side away from the conservation area.
- v. Utility maintenance shall include the following measures to protect the environment of regulated fish and wildlife habitat conservation areas.
 - A. Utility towers shall not be sandblasted or spray-painted. Lead-based paint is prohibited.
 - B. Pesticides, fertilizers and herbicides: No pesticides or fertilizers may be used in fish and wildlife habitat conservation areas or their buffers, except those applied by a licensed applicator in accordance with the safe application practices on the label.
- f. Bank Stabilization.
 - i. A stream channel and bank may be stabilized when naturally occurring earth movement threatens existing structures (defined as requiring a building permit pursuant to the applicable building code), public improvements, unique natural resources, public health, safety or welfare, or the only feasible access to property, and, in the case of streams, when such stabilization results in maintenance of fish and wildlife habitat, flood control, and improved water quality.
 - ii. Where bank stabilization is determined to be necessary, bioengineering or other non-structural methods should be the first option for protection. Structural methods, or hard stabilization, may only be utilized where it can be demonstrated by a professional

- engineer licensed in the State of Washington that an existing primary residential structure or essential public facility cannot be safely maintained without such measures, and that the resulting hard stabilization is the minimum length necessary to provide a stable building area for the structure. The director may require that bank stabilization be designed by a professional engineer licensed in the State of Washington with demonstrated expertise in hydraulic actions of shorelines. Bank stabilization projects may also require a City of Bainbridge Island clearing or grading permit and Hydraulic Project Approval from the Washington Department of Fish and Wildlife.
- iii. Nonstructural streambank protective techniques are preferred to bulkheads or other types of streambank armoring. Nonstructural techniques include but are not limited to vegetation plantings and bioengineering.

4.1.5.710 Regulations – Geologically Hazardous Areas

- ~~1. All new development and new uses within the jurisdiction of this Master Program shall comply with regulations for Geologically Hazardous Areas as set forth in the shoreline-specific Critical Areas Regulations contained in Section B-9 of Appendix B of this Master Program.~~
- ~~2. Additional standards for marine bluffs (i.e., slopes greater than 40 percent that exceed a vertical height of 10 feet within the marine shorelines jurisdiction) are provided in section 4.1.5.8, Special Reports and Determination of Buffers, and 4.1.5.9, Regulations – Bluff Drainage, below.~~
1. Applicability. This section applies to all geologically hazardous areas classified pursuant to SMP 4.1.5.10.2.
2. Classification.
- a. Geologically hazardous areas include erosion hazard areas, landslide hazard areas, and seismic hazard areas (including fault and liquefaction hazard areas). Zone of influence areas are not considered geologically hazardous areas.
- b. Geologically hazardous areas shall be classified based upon landslide history and the presence of unstable soils, steepness of slopes, erosion potential, and seismic hazards. Areas in this category are a potential threat to public health, safety, and welfare when construction is allowed. While some potential risk due to construction can be reduced through engineering design, construction in these areas should be avoided when the potential risk cannot be reduced to a level comparable to the risk if the site were initially stable prior to construction. Classification and rating shall be based upon the risk to the environment and to development in geologically hazardous areas.

3. Review procedures. Applications for proposed activities in geologically hazardous areas shall include:
 - a. Indemnification. An indemnification or hold harmless agreement shall be required for all projects in geologically hazardous areas, except erosion hazard areas and landslide hazard area setbacks. The form of the agreement shall be approved by the city and executed prior to the commencement of construction or any land disturbing activity.
 - b. Notice. A notice of intent to construct on a landslide hazard area or reduce the standard setback in a landslide hazard area shall be given pursuant to BIMC 2.16.020.H.2. The notice of intent shall be issued within 14 days of a complete application pursuant to BIMC 2.16.020.K. The notice shall include a 21-day comment period and no permits or approval of reduced setbacks shall be issued before the end of the comment period.
 - c. Geological Hazards Assessment. A geological hazards assessment is required for all projects in geologically hazardous areas and landslide hazard area setbacks in accordance with Section 4.1.5.14, Critical area reports. To protect public health, safety and welfare, the director may require third party review of any geological hazards assessment or geotechnical report in cases where there may be potential for substantial damage to life, property or the environment should the proposed engineering solution fail. When a third-party review is required, costs incurred for a qualified third party geologist or geotechnical engineer to perform the review shall be borne by the applicant.
4. Regulations – General. The following development standards apply to all activities within any geologically hazardous area or associated landslide hazard area setback:
 - a. The proposed activity shall not create a net increase in geological instability, either on- or off-site, which is defined as follows:
 - i. The subject parcel shall not be less stable after the planned development than before; and
 - ii. The adjacent parcels shall not have greater risk or be less stable after the planned development than before.
 - b. The proposed activity shall not increase the risk of life safety due to geological hazards above professionally acceptable levels.
 - c. The proposed activity shall not increase the risk due to geological hazards above professionally acceptable levels for:

- i. Property loss of any habitable structures or their necessary supporting infrastructure on-site or;
 - ii. Risk to any off-site structures or property of any kind; and
 - d. Proposed buildings shall be constructed using appropriate engineering methods that respond to the geologic characteristics specific to the site in order to achieve a high standard of safety and meet professional practice standards and codes.
 - e. The proposed activity shall not further degrade the values and functions of the associated critical areas.
 - f. Unless allowed pursuant to Section 4.1.2 or Section 4.1.3 or as part of an approved building permit, removal of vegetation from an erosion or landslide hazard area or setback is prohibited.
5. Development Standards -- Landslide Hazard Areas. The following requirements shall apply to any land disturbing activity or construction within a landslide hazard area or its setback as described herein:
- a. Prohibited activities. Development of habitable structures and critical facilities is prohibited in landslide hazard areas and landslide hazard area setbacks.
 - b. Allowed activities. The following minor development may be allowed in landslide hazard areas on slopes forty (40) percent or greater and landslide hazard area setbacks if the development standards of this Section are met:
 - i. Surface water management, including outfalls
 - ii. Septic facilities, including drainfields
 - iii. Trails and stairs
 - iv. Cable lifts and trams
 - v. Public or private utilities or streets
 - vi. Seismic or other safety upgrades to protect existing habitable structures
 - vii. Other non-habitable structures
 - c. Any land disturbing activity or construction within a landslide hazard area or its setback shall meet the following requirements:
 - i. All development proposals shall be designed to avoid impacts to geologically hazardous areas. The development shall be designed to minimize the footprint of building in other disturbed areas, minimize removal of vegetation, minimize topographic change, and retain open space to the maximum extent practicable;

- ii. Development design shall utilize clustering, under-structure parking, multi-level construction, and tiered foundations to the extent feasible to minimize impervious lot coverage, slope disturbance, and changes to the natural topography;
 - iii. Access shall be in the least sensitive part of the site, and common access drives and utility corridors are required to the extent feasible;
 - iv. Roads, walkways and parking areas shall be designed to parallel the natural contours to the extent feasible;
 - v. Cut and fill slopes shall be prepared and maintained to control against erosion and instability; and
 - vi. Drainage and stormwater designs in zones of influence shall incorporate elements of low impact design, add examples to the extent feasible, and shall be designed in such a manner that stormwater outlet discharges do not create additional impacts.
- d. Factors of safety. Factors of safety in accordance with Table 4-5 are required. Analysis of dynamic conditions shall be based on the minimum horizontal acceleration for the probabilistic maximum considered earthquake as established by the currently adopted version of the International Building Code.

Table 4-5. Factors of safety and standard setbacks

<u>Structure, use or activity</u>	<u>Static factor of safety</u>	<u>Dynamic (seismic) factor of safety</u>	<u>Standard setback</u>
<u>Habitable structure</u>	<u>1.5</u>	<u>1.0</u>	<u>Top of slope: Height of slope up to maximum of 75 feet Bottom of slope: Height of slope</u>
<u>High-risk non-habitable structure</u>	<u>1.3</u>	<u>As determined by geological hazards assessment.</u>	<u>Top of slope: Height of slope up to maximum of 75 feet Bottom of slope: Height of slope</u>
<u>Lower-risk non-habitable structures</u>	<u>As determined by geological</u>	<u>As determined by geological</u>	<u>Height of slope up to 75 feet.</u>

	<u>hazards assessment.</u>	<u>hazards assessment.</u>	
<u>Other structure or use</u>	<u>As determined by geological hazards assessment.</u>	<u>As determined by geological hazards assessment.</u>	<u>Height of slope up to 75 feet.</u>
<u>Tree and vegetation activities in accordance with Section 4.1.3</u>	<u>n/a</u>	<u>n/a</u>	<u>25 feet only from top of slope.</u>

- e. Setback requirement. Setbacks from landslide hazard areas are required. A setback shall be established from all edges of a landslide hazard area as follows:
- i. A standard setback in accordance with Table 4-5; or
 - ii. A setback established by the findings of a geological hazards assessment prepared by a licensed geologist or geotechnical engineer that protects and minimizes the risk of property damage, death or injury resulting from a potential landslide impact. The geological hazards assessment shall require a third-party independent review by a qualified geologist or geotechnical engineer at the cost to the applicant;
 - iii. A setback less than 20 feet is prohibited for habitable structures;
 - iv. The setback for tree and vegetation activities in accordance with Section 4.1.3 is 25 feet only from the top of slope.
 - v. No setback is required for slopes forty (40) percent or greater with a vertical elevation change of up to twenty (20) feet, if compliance with development standards in Section 4.1.5.10.4 and 5 is documented by a geotechnical engineer licensed in the State of Washington;
 - vi. The setback may be increased beyond that specified in subsection (a) above if the director determines a larger setback is necessary to prevent risk of damage to proposed adjacent development and the associated critical areas.
- f. For the purposes of establishing the factors of safety and setback using Table 4-5, the following categories shall apply:
- i. Habitable structure: residences, accessory dwelling units, garages;
 - ii. High-risk non-habitable structure: decks, patios, pool/hot tub, driveways, trams, cable lifts, carports;

- iii. Lower-risk habitable structure: storage shed, boathouse, stairs, pathways, structures intended for short-term use;
 - iv. Other structures or uses: septic facilities including drainfields, drainage outfalls, bulkheads, landscape walls, other utilities; and
 - v. If a proposed structure, use or activity is not included in Section 4.1.5.10.5.f, the category shall be determined by the City Engineer.
- g. Zone of influence. A zone of influence shall be established 300 feet upslope from slopes greater than 40 percent and 200 feet upslope from slopes greater than 15 percent but less than 40 percent that are determined to be geologically hazardous areas to assess changes in land use and hydrology that may affect the stability of the geologically hazardous area.
- i. The applicant shall have the stormwater pollution prevention plan (erosion control plan) for the project reviewed by a geotechnical engineer to determine if there are any potentially adverse impacts to the landslide hazardous area. The report shall contain recommendations to avoid adverse impacts to the geologically hazardous area. Concentrated discharge of stormwater shall only be allowed where specifically recommended in the report and authorized by the City Engineer.
 - ii. If the geotechnical engineer or the City Engineer determines that there are potential adverse impacts, the applicant shall provide a geotechnical analysis containing information specified by the City Engineer which analyzes the potential impacts to the geological hazard from the proposed development in the zone of influence and meets the standards of this section.
- h. Field marking requirements. Proposed clearing and work limit lines and landslide hazard setbacks shall be marked in the field for inspection and approval by the city prior to start of any land disturbing activity. Field marking shall remain in place until construction is completed and final inspection is completed by the city.

4.1.5.8 — Special Reports and Determination of Buffers

- ~~1. Applicants proposing development adjacent to a marine bluff shall submit a geotechnical engineering report prepared in accordance with the requirements of this Master Program and the shoreline-specific Critical Areas regulations contained in Appendix B. In terms of this regulation, “adjacent” means development proposed either within 50 feet from the crest of a marine bluff or within a distance equal to the height of the slope from the crest (measured from the top), whichever is greater.~~
- ~~2. The geotechnical engineering report shall be prepared by a Washington State licensed professional civil engineer with a specialty in geotechnical engineering or an engineering~~

~~geologist with a Washington State specialty license in engineering geology as specified in RCW 18.220, Geologists. The report shall be based upon the most appropriate and current science, existing and proposed uses, risks of slope failure, and coastal erosion rates over at least 100 years, if applicable.~~

- ~~3. All proposed development on the face of a marine bluff or in the required buffer area shall be prohibited, except:~~
 - ~~a. Development may be allowed as specified in Appendix B; Subsection B-9(E)(3)(a)(i)(F) of this Master Program;~~
 - ~~b. Minor development for public access (e.g., public trails, stairs, or view points) may be allowed, provided that environmental impacts are mitigated and the development can meet the factor of safety in Appendix B; subsection B-9(E)(1); and~~
 - ~~c. Minor development permitted in the Shoreline Buffer and Site-specific Vegetation Management Area pursuant to Sections 4.1.3.8 through 4.1.3.11 such as boathouses, decks, stairs, ramps, piers, and docks except at the toe of unstabilized feeder bluffs and the development can meet the factor of safety in Appendix B; subsection B-9(E)(1).~~
- ~~4. All alterations to the vegetation within a geological hazardous area shall provide a Bluff Management Plan developed by qualified professional(s) to address vegetation management for slope stability and ecological functions and processes for a ten year period. The plan at a minimum shall include:~~
 - ~~a. A geotechnical analysis of slope stability as defined in B-9, Geologically Hazardous Areas of Appendix B.~~
 - ~~b. A site plan showing existing vegetation location and species.~~
 - ~~c. An analysis of identified vegetation appropriate for removal or alteration.~~
 - ~~d. An analysis of vegetation management strategies for slope stability.~~
 - ~~e. A mitigation plan developed according to Section 4.1.2, Environmental Impacts and Section 4.1.3, Vegetation Management.~~
 - ~~f. The Administrator may include additional conditions for a site-specific analysis and require a third party review by a qualified professional at the cost of the applicant.~~

4.1.5.911 Regulations – Bluff Drainage

1. Surface drainage shall be directed away from landslide hazard areas ~~marine bluffs~~. When no other solution is feasible, surface drainage piping may be located on the face of a steep slope when contained in a tight line (closed, non-leaking pipe) and in such a way that erosion will not be increase at the base of the bluff and provided that physical access along

the shoreline is not degraded. Furthermore, conditions may be applied to mitigate the aesthetic impacts of the proposed drainage systems as viewed from public areas.

4.1.5.102 Regulations – Wetlands

1. Applicability. This section applies to:

- a. All wetlands designated pursuant to Section 4.1.5.12.2.
- b. All wetland buffers as shown in the tables in Section 4.1.5.12.8.

2. Identification and designation.

- a. Identification of wetlands and delineation of their boundaries pursuant to this section shall be done in accordance with the federal wetland delineation manual and applicable regional supplements (as updated), as required by WAC 173-22-035. All areas within the city meeting the wetland designation criteria, regardless of any formal delineation, are hereby designated as wetlands and are subject to provisions of this section unless not included in the definition of wetland provided in Section 8.0, Definitions.
- b. Wetland delineations shall be conducted by a qualified professional, in accordance with Section 4.1.5.6.4.
- c. The wetland boundary shall be marked in the field and surveyed by a licensed surveyor. The surveyed wetlands shall be sized and mapped on a scaled site plan. The director may require the wetland delineation to be verified in the field by the Army Corps of Engineers or the Washington State Department of Ecology when there is uncertainty in the wetland boundary or there was unauthorized wetland disturbance. The requirement for a licensed surveyor to survey the wetland boundaries may be waived in limited circumstances, such as when there is no access to the wetland property or there is no proposed impact to the wetland and wetland buffer, with authorization from the director.
- d. Wetland delineations shall be valid for five years from the date of the delineation.
- e. A wetland delineation shall be required for any proposed development within 300 feet of a designated wetland. If any portion of the designated wetland is on a different site than the proposed development, the location of the wetland boundary may be determined using best professional judgement.

3. Wetland Categories. Wetlands shall be rated according to the Washington State Wetland Rating System for Western Washington – 2014 Update (Ecology Publication No. 14-06-029, October 2014), as revised. The wetland categories determined by the rating are as follows:

- a. Category I wetlands are:
 - i. Relatively undisturbed estuarine wetlands larger than one acre;
 - ii. Wetlands that are, or may be in the future, identified by scientists of the Washington Natural Heritage Program/Department of Natural Resources as wetlands of high conservation value;
 - iii. Bogs;
 - iv. Mature forested wetlands larger than one acre;
 - v. Wetlands in coastal lagoons; and
 - vi. Wetlands that perform many functions well and score 23 points or more in the wetland rating. These wetlands are those that represent a unique or rare wetland type, are more sensitive to disturbance than most wetlands, or are relatively undisturbed and contain ecological attributes that are impossible to replace within one human lifetime.
- b. Category II wetlands are:
 - i. Wetlands with a moderately high level of functions and score 20 to 22 points in the wetland rating.
 - ii. Estuarine wetlands smaller than one acre or disturbed estuarine wetlands larger than one acre.
- c. Category III wetlands are:
 - i. Wetlands with a moderate level of functions and score between 16 to 19 points in the wetland rating.
- d. Category IV wetlands are:
 - i. Wetlands with a low level of functions, scoring less than 16 points in the wetland rating.
- e. Date of Wetland Rating. The wetland rating categories in this Section shall be applied to wetland studies including but not limited to delineations, on or after the date of adoption of the ordinance codified in this section. The wetland rating shall be valid for five years unless the state rating system changes or the wetland and/or the wetland buffer have been altered since the rating.
- f. A wetland rating pursuant to Section 4.1.5.12.3 shall be required for any proposed development within 300 feet of a designated wetland. If any portion of the designated wetland is on a different site than the proposed development, the rating may be determined using best professional judgement.

- g. Illegal modifications. Wetland rating categories shall not change due to illegal modifications.

4. Mapping

The location and extent of all mapped critical areas shown on the City of Bainbridge Island critical area maps are approximate and shall be used as a general guide only. The type, extent and boundaries shall be determined in the field by a qualified professional according to the requirements of this section. The critical area maps are adopted as part of this section and are incorporated herein by this reference. In addition, the National Wetlands Inventory and Soil Maps produced by the U.S. Department of Agriculture, National Resources Conservation Service may be useful in helping to identify potential wetland areas. The inventory and cited resources are to be used as a guide for the city, project applicants, and property owners, and may be continuously updated as new or altered critical areas are identified.

5. Protection of Wetlands

- a. Any action taken pursuant to this section shall result in equivalent or greater functions and values of the wetlands and wetland buffers associated with the proposed action, as determined by the best available science. All actions and developments shall be designed and constructed in accordance with mitigation sequencing as described in Section 4.1.6 and WAC 197-11-768.
- b. Applicants must first demonstrate an inability to avoid or reduce impacts, before compensation of impacts will be allowed. No activity or use shall be allowed that results in a net loss of the functions or values of critical areas.
- c. Permanent protection of critical areas that are part of an approved mitigation plan or buffer enhancement plan shall be achieved through a Notice to Title recorded at the Kitsap County Auditor's Office, or similar means of protection in perpetuity.

6. Prohibited activities

- a. The following development, uses and activities are prohibited in all wetlands:
- i. Draining, excavation, placement of fill material and flooding not associated with an exempt or regulated use
 - ii. Forest Practices – Class IV General or Conversion Option Harvest Plan
 - iii. New or expanded agriculture
 - iv. On-site sewage facility
- b. The following development, uses and activities are prohibited in Category I and II wetlands:

- i. Fish hatchery
- ii. Golf course
- iii. Mineral extraction
- iv. Public facility
- v. Public communications tower
- vi. New public road/street
- vii. New private access road or driveway
- viii. Stormwater retention/detention facility
- ix. Primary utility

g. Standards for specific development, uses and activities. The following development, uses and activities may be allowed within wetlands and their required buffers. Any proposal for the following development shall comply with the standards of this Section and other applicable state, federal and local regulations.

a. Road/street repair and construction: Any private or public road or street repair, maintenance, expansion or construction may be allowed within a wetland or its required buffer only when all of the following conditions are met:

- i. No other reasonable or practicable alternative exists and the road or street crossing serves multiple properties whenever possible;
- ii. Publicly owned or maintained road or street crossings should provide for other purposes, such as utility crossings, pedestrian or bicycle easements, viewing points, etc.; and
- iii. The road or street repair and construction are the minimum necessary to provide safe roads and streets.
- iv. Mitigation shall be performed in accordance with specific project mitigation plan requirements.

b. Land Divisions and Land Use Permits. All land divisions and land uses proposed on a site that includes regulated wetlands shall comply with the procedures and standards listed below. When a parcel contains a wetland, city policy shall always be to primarily protect the functions and values of the wetland, while recognizing the value of the development rights provided to the property by its zoning.

i. Density Calculation

A. The actual density that will allowed to be built upon a parcel containing a wetland shall ultimately be determined during the site specific review of the parcel's planned development.

B. In determining the actual density of a parcel based on a specific site plan, the site plan shall locate all buildings outside of any wetland and its required buffers;

- C. The number of development rights allowed for any residentially-zoned parcel shall be its size in square feet divided by the number of square feet per home that is required by its zoning;
 - D. If the land can be subdivided such that all setbacks, buffers, and other zoning requirements can be observed, and no zoning variances are requested, the density from the wetland, except the area with permanent open water, can be transferred within the property;
 - E. To the extent that the number of allowable development rights cannot be used on-site, they may be sold, traded, or transferred by the property owner through the transfer of development rights program pursuant to Chapter 18.37 BIMC;
 - F. Property owners may voluntarily extinguish development rights that are provided by the underlying zoning, but the city shall not extinguish any of these rights outside the aforementioned transactions.
- ii. Land division approvals shall be conditioned to require that wetlands and wetland buffers be designated as an easement or covenant encumbering the wetland and wetland buffer. Such easement or covenant shall be recorded together with the land division and represented on the final plat or binding site plan, and title.
 - iii. In order to implement the goals and policies of this section, to accommodate innovation, creativity, and design flexibility, and to achieve a level of environmental protection that would not be possible by typical lot-by-lot development, the use of the clustered development or similar innovative site planning is strongly encouraged for projects with regulated wetlands on the site.
- c. Surface Water Management. Surface water structures or discharges from stormwater facilities may be allowed within wetlands and their required buffers only when the applicant has an approved Site Assessment Review (SAR) pursuant to the requirements of BIMC 15.20 and the proposal meets criteria in Appendix I-D, Guidelines for Wetlands when Managing Stormwater, from Washington State Department of Ecology's 2012 Stormwater Management Manual for Western Washington, as amended in 2014.
 - d. Utilities. Installation of utilities within wetlands or their required buffers may be allowed when the following standards are met:
 - i. Construction of new utilities outside the road right-of-way or an existing utility corridor may be permitted in wetlands or wetland buffers, only when no reasonable alternative location is available and the utility meets the requirements for installation, replacement of vegetation and maintenance outlined below, and as required in the filing and approval of applicable permits and special reports required by this section.
 - ii. Sewer or On-site Sewage Utility. Construction of sewer lines or on-site sewage systems may be permitted in wetland buffers only when:

- A. The applicant demonstrates it is necessary to meet state and/or local health code minimum design standards (not requiring a variance for either horizontal setback or vertical separation); and/or
 - B. There are no other practicable or reasonable alternatives available and construction meets all other applicable requirements of this Section. Joint use of the sewer utility corridor by other utilities may be allowed.
- iii. New utilities shall not be allowed when the wetland or buffer has known locations of federal or state listed endangered, threatened, monitored or sensitive species, heron rookeries or nesting sites of raptors which are listed as species of concern, except in those circumstances where an approved Habitat Management Plan indicates that the utility corridor will not significantly impact the wetland or wetland buffer;
 - iv. New utility construction and maintenance shall protect the wetland and buffer environment by utilizing the following methods:
 - A. New utilities shall be aligned to avoid tree removal to the greatest extent practicable.
 - B. Any area of disturbance resulting from installation of a utility shall be revegetated with appropriate native or equivalent vegetation at preconstruction densities or greater, immediately upon completion of construction, or as soon thereafter as possible, if due to seasonal growing constraints. The utility or landowner responsible for installation shall ensure that such vegetation survives.
 - C. Any access for maintenance shall be provided as much as possible at specific points, rather than by parallel roads. If parallel roads are necessary, they shall be of a minimum width but no greater than 15 feet; and shall be contiguous to the location of the utility corridor on the side away from the wetland. Mitigation will be required for any additional access through restoration of vegetation in disturbed areas.
 - D. The director may require additional mitigation measures.
 - E. Utility maintenance shall include the following measures to protect the wetland and buffer environment:
 - 1. Painting of utility equipment such as power towers shall not be sprayed or sandblasted. Lead-based paints are prohibited.
 - 2. No pesticides, herbicides or fertilizers may be used in wetland areas or their buffers except those approved by the U.S. Environmental Protection Agency (EPA) and Washington Department of Ecology and applied by a licensed applicator in accordance with the safe application practices on the label.

8. Wetland Buffers

- a. Buffers shall remain as undisturbed or enhanced vegetation areas for the purpose of protecting the integrity, function, and value of wetland resources. Any buffer modification proposed shall

- be through an approved Buffer Enhancement Plan meeting the requirements of Section 4.1.5.14. No uses or activities shall be allowed within the buffer unless allowed by this Section. If a buffer on a site subject to land use review or a building permit application has previously been disturbed, the director may require the disturbed buffer area be enhanced, including revegetation with native plant species, pursuant to an approved Buffer Enhancement Plan meeting the requirements of Section 4.1.5.14. No refuse, including but not limited to household trash, yard waste and commercial/industrial refuse, shall be placed in the buffer.
- b. All regulated wetlands shall be surrounded by a buffer, based upon Appendix 8-C, Section 8C.2.3 of Wetlands in Washington State – Volume 2: Guidance for Protecting and Managing Wetlands (Ecology Publication #05-06-008), as amended. Standard buffer widths are shown in Tables 1 through 4. If a wetland meets more than one of the criteria listed in each table, the buffer needed to protect the wetland is the widest one.
- c. Standard buffer widths are based on impact of land use, which is categorized as follows:
- i. High impact land use includes commercial development, industrial development, institutional development, residential (all residential zoning classifications other than R-0.4, R-1 and R-2) development, new agriculture (high-intensity such as dairies, nurseries, greenhouses, raising and harvesting crops requiring annual tilling, raising and maintaining animals), forestry activities, and high-intensity recreation such as golf courses and ballfields.
 - ii. Moderate impact land use includes residential development (R-0.4, R-1 and R-2 residential zoning classifications), new agriculture (moderate-intensity such as orchard and hay fields), paved trails, and construction of temporary logging roads.
 - iii. Low impact land use includes low-intensity open space such as passive recreation, natural resources preservation, and unpaved trails.
- d. The required minimum buffers listed in Tables 4-6 through 4-9 are based on the assumption that the buffer is well vegetated with native species appropriate to the site. If the buffer does not consist of vegetation adequate to provide wetland protection and buffer functions, the director may require that the buffer be planted to achieve such protection and function.

Table 4-6: Category I Wetlands - Buffers

<u>Wetland Characteristics</u>	<u>Impact of Land Use</u>	<u>Buffer Width</u>	<u>Other Protection</u>
<u>Natural Heritage Wetlands</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>125 ft</u> <u>190 ft</u> <u>250 ft</u>	<u>No additional discharge of surface water.</u> <u>No septic systems within 300 ft.</u> <u>Restore degraded parts of the buffer</u>
<u>Bogs</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>125 ft</u> <u>190 ft</u> <u>250 ft</u>	<u>No additional surface discharges.</u> <u>Restore degraded parts of the buffer.</u>

<u>Wetland Characteristics</u>	<u>Impact of Land Use</u>	<u>Buffer Width</u>	<u>Other Protection</u>
<u>Forested</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>125 ft</u> <u>190 ft</u> <u>250 ft</u>	<u>If forested wetland scores high for habitat, maintain connectivity to other natural areas.</u>
<u>Estuarine</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>100 ft</u> <u>150 ft</u> <u>200 ft</u>	<u>N/A</u>
<u>Wetlands in Coastal Lagoon</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>100 ft</u> <u>150 ft</u> <u>200 ft</u>	<u>N/A</u>
<u>High level of function for habitat (score for habitat is 8-9 pts.)</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>150 ft</u> <u>225 ft</u> <u>300 ft</u>	<u>Maintain connectivity to other natural areas.</u> <u>Restore degraded parts of the buffer.</u>
<u>Moderate level of function for habitat (score for habitat is 5-7pts.)</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>75 ft</u> <u>110 ft</u> <u>150 ft</u>	<u>N/A</u>
<u>High level of function for water quality improvement and low for habitat (score for water quality pts.; habitat less than 5 pts.)</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>50 ft</u> <u>75 ft</u> <u>100 ft</u>	<u>No additional discharges of untreated runoff.</u>
<u>Not meeting any of the above criteria.</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>50 ft</u> <u>75 ft</u> <u>100 ft</u>	<u>N/A</u>

Table 4-7: Category II Wetlands - Buffers

<u>Wetland Characteristics</u>	<u>Impact of Land Use</u>	<u>Buffer Width</u>	<u>Other Protection</u>
<u>High level of function for habitat (score for habitat is - 9 pts.)</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>150 ft</u> <u>225 ft</u> <u>300 ft</u>	<u>Maintain connectivity to other natural areas.</u>
<u>Moderate level of function for habitat (score for habitat is 5-7pts.)</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>75 ft</u> <u>110 ft</u> <u>150 ft</u>	<u>N/A</u>
<u>Estuarine</u>	<u>Low</u> <u>Moderate</u>	<u>75 ft</u> <u>110 ft</u>	<u>N/A</u>

	<u>High</u>	<u>115 ft</u>	
<u>Not meeting any of the above criteria</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>50 ft</u> <u>75 ft</u> <u>100 ft</u>	<u>N/A</u>

Table 4-8: Category III Wetlands - Buffers

<u>Wetland Characteristics</u>	<u>Impact of Land Use</u>	<u>Buffer Width</u>	<u>Other Protection</u>
<u>Moderate level of function for habitat (score for habitat is 5-7pts.)</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>75 ft</u> <u>110 ft</u> <u>150 ft</u>	<u>N/A</u>
<u>Not meeting above criterion</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>40 ft</u> <u>60 ft</u> <u>80 ft</u>	<u>N/A</u>

Table 4-9: Category IV Wetlands - Buffers

<u>Wetland Characteristics</u>	<u>Impact of Land Use</u>	<u>Buffer Width</u>	<u>Other Protection</u>
<u>All</u>	<u>Low</u> <u>Moderate</u> <u>High</u>	<u>25 ft</u> <u>40 ft</u> <u>50 ft</u>	<u>N/A</u>

9. Buffer Measurement. All buffers shall be measured on a horizontal plane from the delineated wetland edge as marked in the field a qualified professional.
10. Fencing and Signs. This section applies to those wetlands and their buffers that are within 200 feet of regulated development activities.
 - a. Wetland buffers shall be temporarily fenced or otherwise suitably marked between the area where the construction activity occurs and the buffer. Fences shall be made of a durable protective barrier and shall be highly visible. Silt fences and plastic construction fences may be used to prevent encroachment on wetlands or their buffers by construction. Temporary fencing shall be removed after the site work has been completed and the site is fully stabilized per city approval.
 - b. The director may require that permanent signs and/or fencing be placed on the common boundary between a wetland buffer and the adjacent land. Such signs will identify the

wetland buffer. The director may approve an alternate method of wetland and buffer identification, if it provides adequate protection to the wetland and buffer.

11. Structure or hard surface setback. A structure or hard surface setback line of fifteen feet is required from the edge of any wetland buffer. Minor structural or impervious surface intrusions into the areas of the setback, such as but not limited to fire escapes, open/uncovered porches, landing places, outside walkways, outside stairways, retaining walls, fences and patios, may be permitted if the department determines upon review of an analysis of buffer functions submitted by the applicant, that construction and/or maintenance of such intrusions will not encroach into the wetland buffer or adversely impact the wetland. The functional analysis shall include a functional methodology supported by best available science. The setback shall be identified on a site plan and filed as an attachment to the notice on title as required by Section 16.20.070 (Notice on Title).
12. Buffer Modification. Modifications to buffer widths may be allowed provided the applicant demonstrates the need for modification through mitigation sequencing pursuant to Section 4.1.2.6.
 - a. Buffer Width Averaging. The width of a required buffer may be averaged if the applicant can demonstrate that averaging can provide equal or greater functions and values as would be provided under the required buffer and all of the following conditions are met:
 - i. The total area of buffer after averaging is equal to the area required without averaging.
 - ii. Averaging cannot result in the any portion of the buffer being reduced more than 25 percent of its required width.
 - b. The required buffer widths for proposed land uses with high-intensity impacts to wetlands may be reduced to those required for moderate-intensity impacts under the following conditions:
 - i. For wetlands that score moderate or high for habitat (5 points or more for the habitat function), the width of the buffer may be reduced if both of the following criteria are met:
 - ii. A relatively undisturbed, vegetated corridor at least 100-feet wide is provided if the wetland contains any priority habitats as defined by the Washington Department of Fish and Wildlife. “Relatively undisturbed” and “vegetated corridor” are defined in the Western Washington Wetland Rating System. The corridor must be protected for the entire distance between the wetland and the priority habitat by some type of legal protection, such as a Notice to Title.
 - iii. Measures to minimize the impacts of different land uses on wetlands, such as the examples in Table 5, are applied.

- iv. For wetlands that score less than 5 points for habitat, the buffer width may be reduced to that required for moderate land use impacts by applying measures to minimize the impacts of different land uses on wetlands, such as the examples in Table 4-10.
- c. Any request for buffer modification outlined above shall be reviewed in conjunction with the underlying land use or construction permit. Requests for buffer averaging or buffer reduction shall include a Buffer Enhancement Plan prepared by a qualified professional that meets the requirements of Section 4.1.5.14. Buffer enhancement plans shall be reviewed pursuant to the criteria in Section 4.1.5.6.
- d. Any other buffer modification resulting in a reduced buffer area, other than non-compensatory enhancement, requires a shoreline variance.

Table 4-10: Examples of measures to minimize impacts to wetlands from different types of activities.

<u>Examples of Disturbance</u>	<u>Examples of Measures to Minimize Impacts</u>	<u>Activities that Cause the Disturbance</u>
<u>Lights</u>	• <u>Direct lights away from wetland.</u>	<u>Parking lots, warehouses, manufacturing, residential</u>
<u>Noise</u>	• <u>Locate activity that generates noise away from wetland.</u> • <u>If warranted, enhance existing buffer with native vegetation plantings adjacent to noise source.</u> • <u>For activities that generate relatively continuous, potentially disruptive noise, such as heavy industry or manufacturing, establish an additional 10-foot heavily vegetated buffer strip immediately adjacent to the outer wetland buffer.</u>	<u>Manufacturing, residential</u>
<u>Toxic runoff*</u>	• <u>Route all new runoff away from wetland.</u> • <u>Establish covenants limiting use of pesticides within 150 feet of wetland.</u> • <u>Apply integrated pest management.</u>	<u>Parking lots, roads, manufacturing, residential areas, application of agricultural</u>

		<u>pesticides, landscaping</u>
<u>Stormwater runoff</u>	• <u>Retrofit stormwater detention and treatment for roads and existing adjacent development.</u> • <u>Prevent channelized flow from lawns that directly enters the buffer.</u> • <u>Use Low Impact Development techniques consistent with BIMC 15.20.</u>	<u>Parking lots, roads, manufacturing, residential areas, landscaping</u>
<u>Change in water regime</u>	<u>Infiltrate or treat, detain, and disperse new runoff into buffer.</u>	<u>Impermeable surfaces, lawns, tilling</u>
<u>Pets and human disturbance</u>	• <u>Plant buffer with dense, impenetrable native vegetation appropriate for region.</u> • <u>Install low impact fencing at buffer perimeter.</u> • <u>Place wetland and its buffer in separate open space tract or protect with conservation easement.</u>	<u>Residential areas</u>
<u>Dust</u>	<u>Utilize best management practices to control dust.</u>	<u>Tilled fields</u>
* <u>These examples are not necessarily adequate to meet the rules for minimizing toxic runoff if threatened or endangered species are present at the site.</u>		

13. Wetland mitigation requirements

- a. Mitigation sequencing. All development, uses and activities proposed to impact wetlands shall be mitigated according to this Section and the mitigation sequencing steps outlined in Section 4.1.2.6. The applicant shall demonstrate to the satisfaction of the director that each step of mitigation sequencing has been adequately addressed prior to approval of impacts to wetlands.
- b. Compensatory mitigation shall be required for development, uses or activities that result in the loss of wetland acreage or in the reduction of wetland functions or values.
- c. Mitigation report. Where mitigation is required under the sequencing in subsection (1), a mitigation plan is a required component of a critical areas report meeting the requirements in Section 4.1.5.14, Critical area reports.

d. Wetland replacement

- i. The ratios shown in Table 4-11 shall be used to determine the required amount of wetland mitigation. The first number specifies the amount of wetland area to be restored, rehabilitated, created or enhanced, and the second number specifies the amount of wetland area lost. The director may decrease these ratios when there are findings of special studies coordinated with agencies with expertise which demonstrate that no net loss of wetland function or value is attained under the decreased ratio.
- ii. 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: Final Report (Ecology Publication #10-06-011, March 2012), or as revised) consistent with Table 4-11.

Table 4-11: Replacement Ratios for Wetlands

<u>Category and Type</u>	<u>Re-establishment or Creation</u>	<u>Rehabilitation</u>	<u>1:1 Re-establishment or Creation (R/C) and Enhancement (E)</u>	<u>Enhancement Only</u>
<u>I – Mature Forested</u>	<u>6:1</u>	<u>12:1</u>	<u>1:1 R/C and 10:1 E</u>	<u>24:1</u>
<u>I – Based on functions</u>	<u>4:1</u>	<u>8:1</u>	<u>1:1 R/C and 6:1 E</u>	<u>16:1</u>
<u>I – Bog or Natural Heritage Site</u>	<u>Not considered possible</u>	<u>6:1</u>	<u>Case by Case</u>	<u>Case by Case</u>
<u>II</u>	<u>3:1</u>	<u>6:1</u>	<u>1:1 R/C and 4:1 E</u>	<u>12:1</u>
<u>III</u>	<u>2:1</u>	<u>4:1</u>	<u>1:1 R/C and 2:1 E</u>	<u>8:1</u>
<u>IV</u>	<u>1.5:1</u>	<u>3:1</u>	<u>1:1 R/C and 2:1 E</u>	<u>6:1</u>

e. Approaches to compensatory mitigation.

- i. Compensatory mitigation may occur at the site of the allowed impacts or at an off-site location. Considerations for determining whether off-site mitigation is preferable include, but are not limited to one or more of the following:
 - A. On-site conditions do not favor mitigation success due to soil conditions, hydrology or adverse impacts of adjacent land uses;
 - B. On-site conditions are isolated from other aquatic or riparian habitats;
 - C. An off-site location is beneficial to larger ecosystem or watershed functions;
 - D. An off-site location has greater likelihood of success or will provide greater functional benefits;
 - E. The proposal for an off-site location uses a watershed approach consistent with Selecting Wetland Mitigation Sites Using a Watershed Approach (Western Washington) (Ecology Publication #09-06-32, December 2009).
 - ii. Off-site compensatory mitigation may include the use of a wetland mitigation bank or an in-lieu fee program, if such instruments are available within the city limits.
 - iii. Advanced mitigation. Compensatory mitigation in advance of proposed impacts may be allowed on a case-by-case basis for projects with pre-identified impacts consistent with Interagency Regulatory Guide: Advance Permittee-Responsible Mitigation (Ecology Publication #12-06-015, December 2012).
-
- ~~1.—All development, development proposals and alterations that are located within or adjacent to shoreline jurisdictional wetlands or their buffers, or that are likely to significantly impact shoreline jurisdictional wetlands shall prepare a wetland analysis pursuant to Subsection B-4.7-10 of Appendix B, of this Master Program. The wetland analysis shall include the wetland rating (using the Washington State Wetland Rating System for Western Washington (2006) or as revised by Ecology), a functional assessment of potential buffers (based on Ecology’s best available science for wetlands), and noting of any water features and other critical areas and their related buffers in the proximity of the proposed development.~~
 - ~~2.—Wetlands will be delineated using the Regional Supplement to the Army Corps of Engineers Wetland Delineation Manual: Western Mountains, Valleys, and Coast Region or the current Washington State Department of Ecology methodology. The wetland buffer for shoreline wetlands shall be established pursuant to the provisions of Subsection B-10 in Appendix B of this Master Program.~~
 - ~~3.—Alteration of wetlands and their buffers is prohibited, unless:~~
 - ~~a.—Such a prohibition is deemed a violation of constitutional or statutory limitations on regulations of private property; or~~
 - ~~b.—The proponent can conclusively demonstrate to the satisfaction of the Administrator that the impacts are unavoidable.~~

- ~~4. In either case of subsection 3.a or 3.b, above, the proponent shall provide mitigation to achieve no net loss of wetland functions and values, according to an approved mitigation plan prepared consistent with this Master Program, including Section B-4 and B-6 of Appendix B, shoreline specific Critical Areas Regulations.~~

4.1.5.13 The Winslow Ravine – Special Rules in Mixed Use Town Center

A portion of the “Winslow Ravine” which contains a ravine, a Type F stream, and several wetlands, is located in the Mixed Use Town Center (MUTC) zoning designation. In order to accommodate more dense development within the MUTC, and recognizing the significant distance from the top of the ravine to the stream and its adjacent wetlands, in lieu of the buffer and setback rules provided for streams (Section 4.1.5.10) and wetlands (Section 4.1.5.12), an applicant may select the prescriptive option or the mitigated option with respect to the Winslow Ravine within the MUTC as described below:

Table 4-12. “Option A” - Prescriptive Standards

<u>CATEGORIES</u>	<u>BUFFER WIDTH STANDARD</u>	<u>MINIMUM STRUCTURE AND HARD SURFACE SETBACK</u>	<u>OTHER DEVELOPMENT STANDARDS</u>
<u>Streams and wetlands associated with the Winslow Ravine within the MUTC</u>	<u>50 feet measured from the top of the Winslow Ravine</u>	<u>15 feet beyond the buffer</u>	<u>No development, uses or activities are allowed within the buffer. Refuse, including but not limited to household trash, yard waste and commercial/industrial refuse, shall not be located in the buffer and shall be removed if present.</u>

Table 4-13. “Option B” - Mitigated Standards. The applicant shall demonstrate by submittal of necessary studies and proposed mitigation, that measures can and will be taken to ensure that the functions and values provided by the buffers prescribed under “Option A” are retained or improved.

<u>CATEGORIES</u>	<u>BUFFER WIDTH STANDARD</u>	<u>MINIMUM STRUCTURE AND HARD SURFACE SETBACK</u>	<u>OTHER DEVELOPMENT STANDARDS</u>
<u>Streams and wetlands associated with the Winslow Ravine within the MUTC</u>	<u>25 feet measured from the top of the Winslow Ravine</u>	<u>15 feet beyond the buffer</u>	<u>No development, uses or activities are allowed within the buffer other than for public access meeting the standards in Section 5.8. If the buffer has previously been disturbed, the disturbed buffer area shall be revegetated pursuant to an approved Buffer Enhancement Plan meeting the requirements of Section 4.1.5.14. Refuse, including but not limited to household trash, yard waste and commercial/industrial refuse, shall not be located in the buffer and shall be removed if present.</u>

4.1.5.14 Critical area reports

A. Aquifer recharge areas hydrogeological site assessment.

1. The hydrogeological site assessment shall include:
 - a. A site map drawn to scale which indicates the location of known or geologically representative wells (abandoned and active), springs, and surface water features within 1,000 feet of the project property boundary;
 - b. A description of the site-specific hydrogeological characteristics. At a minimum this will include a description of the lithology, depth and static water level of known underlying aquifer(s) and depiction of groundwater flow direction and patterns on the site map;
 - c. A description of the proposed land use and activities specifically detailing water consumption; an inventory of all chemical use, storage, transportation, production (including process wastewater), and disposal; and any potential pollutant identified by the U.S. EPA as a potential source of drinking water contamination (Appendix A of the Washington State

- Critical Aquifer Recharge Area Guidance Document) or known to be deleterious to the environment or human health; and
- d. A general discussion of surface and groundwater quality and quantity in the area and the identification of the potential adverse quality and quantity impacts to groundwater and surface water features within 1,000 feet of the project.
2. In-depth Site Assessment Elements. The required elements of the in-depth site assessment for a given development or re-development will be based on the initial site assessment review by the city, the Kitsap Public Health District, affected Tribes, and affected public water purveyors.

One or more of the elements listed below may be required based upon the proposed project activity, complexity of underlying hydrogeological conditions, and the perceived potential to adversely impact groundwater or surface water quality or quantity. One or more of these elements may also be required if the applicant chooses to demonstrate that mitigation measures are not necessary to protect the quantity or quality of groundwater or surface water or that the project does not pose a risk of detriment to groundwater or surface water. Additional in-depth site assessment elements may include:

- a. Lithologic characteristics and stratigraphic relationships of the affected aquifer(s) and overlying geologic units and soil types including thickness, horizontal and vertical extent, permeability, and infiltration rates of surface soils.
- b. Delineation of identified structural features such as faults, fractures, and fissures.
- c. Aquifer characteristics including determination of recharge and discharge areas, transmissivity, storage coefficient, hydraulic conductivity, porosity, and estimate of groundwater flow direction, velocity and patterns for the affected aquifer(s).
- d. Estimate of precipitation and evapotranspiration rates for the project area.
- e. Preparation of appropriate hydrogeological cross sections depicting underlying lithology and stratigraphy, aquifer(s), and potential or probable contaminant pathways to both surface and groundwater from a chemical release.
- f. Determination of background or existing groundwater quality underlying the project area and water quality of surface water bodies.
- g. Contaminant fate and transport including probable migration pathways and travel time of potential contaminant release(s) from the site through the unsaturated zone to the aquifer(s) and through the aquifer(s), and how the contaminant(s) may be attenuated within the unsaturated zone and the aquifer(s) with consideration to advection, dispersion, and diffusion of contaminants in the groundwater.
- h. Delineation of areas potentially affected by contaminant migration on the ground surface and/or through potentially affected aquifer(s).
- i. Determination of the degree of continuity between groundwater and nearby surface water including potential impacts to baseflow in streams from proposed groundwater withdrawals, and potential impacts to surface water quality from site runoff or contaminated groundwater discharge.

- j. Assessment of the potential for pumping-induced seawater intrusion.
- k. Nitrate Loading Assessment. For projects that have the potential to adversely impact groundwater quality by nitrate loading, the applicant shall test existing wells and/or required test wells for nitrate as nitrogen and calculate the current and projected future groundwater nitrate concentrations at full project build-out, at appropriate point(s) of compliance, as determined by project characteristics, and in a methodology approved by the city. If the calculated nitrate loading in the intended water supply equals or exceeds 5 milligrams per liter nitrate as nitrogen, the applicant shall develop a mitigation plan with the point(s) of compliance determined based on project characteristics.
- l. Multiple-stage (or phased) development must consider impacts of the total build-out of the project to allow for an assessment of the cumulative impacts of the entire development on critical aquifer recharge areas.

B. Aquifer Recharge Mitigation Plan.

For proposals requiring aquifer recharge area impact mitigations, the applicant shall develop for approval by the city a mitigation plan for the proposed development. Affected public water purveyors (Group A & B), affected Tribes, and the Kitsap Public Health District will be notified and invited to comment on all mitigation plans. The city will consider all recommendations submitted by these entities when developing appropriate permit conditions.

The city may, based on performance criteria and monitoring results, require additional amendments to the plan. The city reserves the right to submit mitigation plans for a third-party review at the applicant's expense and to reject any proposed land use or activity that poses significant risk to groundwater or surface water quality or quantity that cannot be satisfactorily mitigated.

- 1. The mitigation plan shall contain the project's permit conditions and, as applicable:
 - a. A description of the mitigation measures to be taken, how they will be implemented, and performance criteria.
 - b. A groundwater and surface water monitoring program to measure potential impacts of the development to underlying aquifer(s) and surface water. The monitoring plan will describe monitoring, maintenance, and reporting requirements.
 - c. A contingency plan describing spill response and corrective actions to be taken if a release of a pollutant occurs or monitoring results indicate that mitigation measures are not effectively protecting groundwater and surface water resources and human health. The city shall have the authority to impose additional required corrective actions where such measures are necessary to protect groundwater and surface water resources or human health. Where appropriate contingencies are not feasible and result in an activity posing unacceptable risk to groundwater or surface water resources or human health, the city shall deny the proposal.

- d. Multiple-stage (or phased) development must consider mitigation for each phase of development as well as the total build-out of the project to allow for an assessment of the cumulative impacts of the entire development on critical aquifer recharge areas.
 - e. Conditions that would arise that warrant ceasing the project operation altogether.
 - f. Wellhead Protection Mitigation. Where a wellhead protection plan addressing the project area exists, the city shall use the recommendations contained in the wellhead protection plan as a basis for formulating required mitigation measures. In the absence of such a mitigation plan, the city shall contact the owner of the public water system (Group A and B) impacted by the proposed project and jointly develop mitigation measures, a summary of which shall be signed by the applicant and recorded with the applicant's property title.
 - g. Nitrate Loading Mitigation.
 - i. General Requirements. If a calculated nitrate loading concentration for a project at the designated point(s) of compliance is equal to or greater than 5 milligrams per liter nitrate as nitrogen, then the applicant shall be required to place a notification on the documents of title for the property affected. A monitoring plan shall be developed to monitor the nitrate level and include a contingency plan to be implemented if the nitrate level exceeds 10 milligrams per liter nitrate as nitrogen.
 - ii. Land Divisions. If the calculated nitrate loading concentration for a land division at the designated point(s) of compliance is equal to or greater than 5 milligrams per liter nitrate as nitrogen, then the applicant shall:
 - (A) Develop a mitigation plan to minimize the nitrate loading rate; and
 - (B) Develop a contingency plan to be implemented if the nitrate concentration exceeds 10 milligrams per liter nitrate as nitrogen; and
 - (C) Submit the contingency plan with the final plat application. The contingency plan must be approved by the city, and then recorded with the Kitsap County Auditor as part of the final plat. Conditions of the contingency plan shall be listed on the face of the plat.
2. Recording of Mitigation Plan Summaries.
- a. General Requirements. The city may require that the applicant record a city-approved summary of the mitigation plan on the property title. A copy of the recorded summary shall be provided to the city in hard copy and electronic format. If a property owner can demonstrate, to the satisfaction of the city, that mitigation measures are no longer necessary, the city shall approve the addition of language on the title for the property nullifying the mitigation requirements.

- b. Land Divisions. The mitigation plan must be approved by the city, and then recorded with the Kitsap County Auditor as part of the final plat. Conditions of the mitigation plan shall be listed on the face of the plat.
3. Performance Surety. The director may require that the applicant provide a performance surety to ensure conformance with mitigation requirements of the Aquifer Recharge Mitigation Plan pursuant to Section 4.1.5.14.

C. Habitat management plan.

1. A habitat management plan (HMP) is a detailed report that outlines and documents the location of fish and wildlife conservation areas, any planned incursions or habitat impacts and a strategy for limiting impacts.
2. HMP review. All HMPs shall be submitted to the Washington State Department of Fish and Wildlife habitat biologist and to the Suquamish Tribe for review and comment within 14 days of a complete application pursuant to BIMC 2.16.030. If the HMP recommends mitigation involving federally listed threatened or endangered species, migratory waterfowl or wetlands, the U.S. Fish and Wildlife Service shall receive a copy of the draft HMP. Within that same time frame, the city's Environmental Technical Advisory Committee shall be asked to review the HMP and provide comments.
3. Map. The HMP shall contain a map prepared at an easily readable scale, showing:
 - a. The location of the proposed development site;
 - b. Property boundaries;
 - c. The relationship of the site to surrounding topographic and aquatic features and any connectivity to other wildlife habitat and corridors;
 - d. Proposed building locations;
 - e. A legend which includes acreage of the parcel, scale, north arrow, and date of map revision.
4. Report. The HMP shall contain a report that includes:
 - a. A description of the nature and intensity of the proposed development
 - b. Identification of existing habitat functions and values;
 - c. An analysis of the effect of the proposed development, activity or land use change upon the wildlife species and habitat features and processes identified for protection;
 - d. Any review comments received from a habitat biologist from the Washington State Department of Fish and Wildlife, and the Suquamish Tribe and U.S. Fish and Wildlife Service;
 - e. Demonstration of consistency with current Washington State Department of Fish and Wildlife Habitat Management Recommendations for the applicable habitat or species. If the

- recommendations are not followed, the HMP report should identify the best available science guidance that is being followed or applied;
- f. A description of proposed seasonal activity restrictions in accordance with the Washington State Department of Fish and Wildlife Habitat Management Recommendations;
 - g. An analysis of the feasibility to maintain wildlife corridors and connectivity, if applicable;
 - h. A plan identifying proposed measures to mitigate any adverse impacts to wildlife habitats created by the proposed development. Proposed mitigation measures shall be specific to the affected habitat or species; and
 - i. A schedule for periodic monitoring, and a contingency plan with corrective actions if conservation or mitigation actions do not lead to the desired outcome.
5. HMP adequacy. If there is a disagreement between the director and the applicant as to the adequacy of the HMP, the issue of plan adequacy shall be resolved by consulting with the Washington Department of Fish and Wildlife. If the Washington Department of Fish and Wildlife is not available to review the HMP in a timely manner, the applicant may choose to have the city refer the HMP to a third party consultant at the expense of the applicant. After consultation with such State departments or third party consultant, the director shall make a final decision on the adequacy of the HMP.
6. Timing. An HMP must be developed and approved prior to issuance of a building permit or underlying land use application and must be implemented before the city grants a certificate of occupancy, as applicable.
7. Performance Surety. The director may require that the applicant provide a performance surety to ensure conformance with mitigation requirements of the habitat management plan pursuant to Section 4.1.2.7.

D. Buffer Enhancement Plan

1. As part of a buffer modification request, the applicant shall submit a buffer enhancement plan that assesses the functions and values of the buffer and the effects of the proposed modification on those functions and values.
2. The buffer enhancement plan shall clearly demonstrate that equal or greater protection of the functions and values of critical areas and their buffers can be achieved through the buffer modification than could be achieved through providing the required buffer using an appropriate function assessment methodology.
3. The buffer enhancement plan shall identify how the applicant proposes to mitigate any adverse impacts to the critical area or buffer created by the proposed development.

4. The buffer enhancement plan shall be prepared in accordance with the applicable requirements of Section 4.1.5.14, Critical areas reports.

E. Geological Hazards Assessment

1. A geological hazards assessment shall contain the following site- and proposal-related information at a minimum:
 - a. Site and Construction Plans. The report shall include a copy of the site plans for the proposal showing:
 - i. The type and extent of geologic hazard areas, any other critical areas, and buffers on, adjacent to, or within a zone or distance of potential significant influence as determined by a professional engineer/ geologist;
 - ii. Proposed development, including the location of existing and proposed structures, fill, storage of materials, and drainage facilities, with dimensions indicating distances to the floodplain, if available;
 - iii. The topography, as determined by a professional engineer or geologist, of the project area and all hazard areas addressed in the report; and
 - iv. Clearing limits.
 - b. 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:
 - i. A description of the surface and subsurface geology, including complexes, hydrology, soils, and vegetation found in the project area and in all hazard areas addressed in the report;
 - ii. A detailed overview of the field investigations, published data, and references; data and conclusions from past assessments of the site; and site specific measurements, test, investigations, or studies that support the identification of geologically hazardous areas; and
 - iii. A description of the vulnerability of the site to seismic and other geologic events.
 - c. 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 hazard area, the subject property, and affected adjacent properties.

- d. Minimum Buffer and Building Setback. The report shall make a recommendation for the minimum no-disturbance buffer and minimum building setback from any geologic hazard based upon the geotechnical analysis. Where the recommended buffers are less than the standard setbacks set forth in Section 4.1.5.10, the rationale and basis for the reduced buffer shall be clearly articulated and demonstrate that the protection standard set forth in that section has been met.
- e. A review of, and recommendations relating to, the low impact development (LID) infeasibility criteria in the 2014 Stormwater Management Manual for Western Washington, as amended, demonstrating reasonable consideration of all applicable LID practices.
- 2. Landslide Hazard and Erosion Hazard Areas. In addition to the basic geologic hazards assessment, an assessment for an erosion hazard or landslide hazard area shall include the following information at a minimum:
 - a. Erosion Control. An erosion control plan prepared by a civil engineer shall be submitted to the city prior to the issuance of a building permit.
 - b. The applicant shall provide a geotechnical analysis containing the following information:
 - i. Site Plan. The critical area report shall include a copy of the site plan for the proposal showing:
 - A. The height of slope, slope gradient, and cross-section of the project area;
 - B. The location of springs, seeps, or other surface expressions of ground water on or a zone or distance of potential significant influence as determined by a professional engineer/ geologist; and
 - C. The location and description of surface water run-off features.
 - c. Hazards Analysis. The hazards analysis component of the critical areas report shall specifically include:
 - i. A description of the extent and type of vegetative cover;
 - ii. A description of subsurface conditions based on data from site-specific explorations;
 - iii. Descriptions of surface and ground water conditions, public and private sewage disposal systems, fills and excavations, and all structural improvements;
 - iv. An estimate of slope stability and the effect construction and placement of structures will have on the slope over the estimated life of the structure;
 - v. An estimate of the bluff retreat rate that recognizes and reflects potential catastrophic events such as seismic activity or a one hundred-year storm event;
 - vi. Consideration of the run-out hazard of landslide debris and/or the impacts of landslide run-out on down slope properties;
 - vii. A study of slope stability including an analysis of proposed cuts, fills, and other site grading;
 - viii. Recommendations for building siting limitations; and

- ix. An analysis of proposed surface and subsurface drainage, and the vulnerability of the site to erosion; and
 - x. A description of the potential modes of failure.
3. Geotechnical Engineering Report. The technical information for a project within a landslide hazard area shall include a geotechnical engineering report prepared by a licensed engineer that presents engineering recommendations for the following:
- a. 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;
 - b. Recommendations for drainage and subdrainage improvements;
 - c. 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
 - d. Mitigation of adverse site conditions including slope stabilization measures for seismically unstable soils, surface water management, location and methods of erosion control, a vegetation management and/or replanting plan, and/or other means for maintaining long-term soil stability if appropriate.
4. Seismic Hazards Areas. In addition basic geologic hazards assessment, an assessment for a seismic hazard area shall also meet the following requirements:
- a. Fault Hazard. The applicant shall provide a geologic/geotechnical analysis containing information specified by the City Engineer that documents the presence or absence of any surface deformation on the site in areas mapped by the city. If deformation is located, the applicant shall provide a geotechnical analysis containing information specified by the City Engineer, which concludes that the development proposal as mitigated meets the standards of this section.
 - b. Liquefaction Hazard. The applicant shall provide a geotechnical analysis containing information specified by the City Engineer that meets the standards of this section (as mitigated).
 - c. Seismic Landslide Hazard. The applicant shall provide the same analysis and plan as required for landslide hazard areas.
5. Tsunami Hazards. The city shall provide applicants for development in low lying shoreline areas and other areas where flood elevation is controlled by tide level with information on tsunami hazards.

F. Wetland critical areas report.

A wetland critical areas report shall include, but not necessarily be limited to, the following:

1. A site plan showing the following:

- a. Surveyed wetland boundaries based upon a delineation by a wetland specialist or wetland boundaries recorded using a differential global positioning system, based upon a delineation by a wetland specialist.
- b. Location of required buffers pursuant to Section 4.1.5.11 or as proposed through buffer modification.
- c. Site boundary property lines and roads;
- d. Internal property lines, rights-of-way and easements;
- e. Existing physical conditions of the site, including buildings, fences and other structures, existing hard surfaces, utilities, etc.
- f. Contours at the smallest readily available intervals;
- g. Hydrologic mapping showing patterns of surface water movement and known subsurface water movement into, through, and out of the site;
- h. Location of all test holes and vegetation sample sites, numbered to correspond with flagging in the field and field data sheets; and
- i. An aerial photograph with overlays displaying the site boundaries and wetland delineation.

2. A report including the following:

- a. Vicinity map
- b. Location information (parcel number and address)
- c. General site conditions including topography, size and surface area of all wetlands identified and water bodies within one-quarter mile of the site
- d. Analysis of functional values of existing wetlands
- e. Summary of proposed development, use or activities and potential impacts to wetlands
- f. Copies of rating forms and maps from the Wetland Rating System for Western Washington – Revised (2014) or as amended.
- g. Required buffers pursuant to Section 4.1.5.11.
- h. Complete U.S. Army Corps of Engineers wetland determination data forms
- i. National Wetland Inventory map
- j. Wetland mitigation plan, if compensatory mitigation is required.

G. Wetland mitigation plan.

- 1. Compensatory mitigation plans shall be consistent with Wetland Mitigation in Washington State – Part 2: Developing Mitigation Plans – Version 1 (Ecology Publication #06-06-011b, March 2006), as revised, and, if applicable, Selecting Wetland Mitigation Sites Using a Watershed Approach (Western Washington)(Ecology Publication 09-06-032, December 2009) and meet the following standards:

- a. All critical area restoration, creation and/or enhancement projects required pursuant to this section either as a permit condition or as a result of an enforcement action shall follow a mitigation plan prepared by an expert approved by the director. The applicant or violator shall receive written approval of the mitigation plan by the director prior to commencement. Compensatory mitigation is not required for allowed activities which utilize best management practices to protect the functions and values of regulated critical areas.
 - b. Purpose of Mitigation Plan. The mitigation plan shall provide information on land acquisition, construction, maintenance and monitoring of the replaced critical area. The mitigation plan shall recreate as nearly as possible the original critical area in terms of its acreage, function, geographic location and setting.
 - c. Mitigation Plan Submittal Requirements. A complete mitigation plan shall consist of plot plans, a written report, and performance bonds, as required below. The plot plans and written report shall be prepared by qualified professionals approved by the director.
2. Plot Plan Requirements. The following information shall be submitted on one or more plot plans (as determined by the director):
- a. A legal description and a survey (boundary and topography) prepared by a licensed surveyor of the proposed development site, compensation site, and location of existing critical area(s) on each. This shall include wetland delineation and existing wetland acreage.
 - b. Scaled plot plan(s) indicating:
 - i. Proposed construction;
 - A. Zoning setback and critical area buffer requirements;
 - B. Construction phasing and sequence of construction;
 - C. Site cross-sections, percent slope, existing and finished grade elevations;
 - D. Soil and substrate conditions;
 - E. Grading and excavation plan, including erosion and sediment control plans needed for construction and long-term survival; substrate stockpiling locations and techniques, and source controls needed for critical area construction and maintenance;
 - F. Landscape plans indicating species, types, quantities, locations, size, spacing or density of planting; planting season or timing; planting instructions, watering schedule and nutrient requirements; source of plant materials or seeds; and, where appropriate, measures to protect plants from destruction or predation; and
 - G. Water control structures and water-level maintenance practices needed to achieve the necessary hydrocycle/hydroperiod characteristics, etc.
3. Written Report Requirements. A written report shall accompany the plot plan(s) and shall provide the additional information required below. In addition, the report should be used as needed to clarify or explain elements of the plot plan(s).

- a. Baseline Information.
 - i. Wetland delineation and existing wetland acreage;
 - ii. Vegetative, faunal and hydrologic characteristics;
 - iii. Soil and substrate conditions;
 - iv. Relationship within watershed and to existing streams, wetlands, ponds, or saltwater;
 - v. Existing and proposed adjacent site conditions; and
 - vi. Existing and proposed ownership.
- b. Environmental Goals and Objectives. The report shall contain a description of the environmental goals and objectives to be met by the compensation plan. The goals and objectives shall be related to the functions and values of the original critical area or, if out-of-kind wetland mitigation, the type of wetland to be emulated. This analysis shall include, but is not limited to the following:
- c. Site selection criteria;
 - i. Identification of compensation goals;
 - ii. Identification of functions and values;
 - iii. Dates for beginning and completion of the project and compensation plan;
 - iv. A complete description of the relationship between and among structures and functions sought;
 - v. Review of available literature and/or known like-projects to date in restoring or creating the type of critical area proposed;
 - vi. Likelihood of success of the proposed compensation project at duplicating the original critical area. This shall be based on experiences of comparable projects identified in the literature review or existing projects, if any; and
 - vii. Likelihood of the ability of the created or restored critical area to provide the functions and values of the original critical area. This shall be based on such factors as surface water and groundwater supply and flow patterns; dynamics of the ecosystem; sediment or pollutant influx and/or erosion, periodic flooding and drought, etc.; presence of invasive flora or fauna; potential human or animal disturbance; and previous comparable projects, if any.
- d. Performance Standards. Specific criteria shall be provided for evaluating whether or not the goals and objectives of the project are met and for beginning remedial action or contingency measures. Such criteria may include water quality standards, survival rates of planted vegetation, species abundance, and diversity targets, habitat diversity indices, or other ecological, geological or hydrological criteria.
- e. Detailed Specifications. Written specifications and descriptions of compensation techniques shall be provided. These shall include, but not be limited to, items in Subsection C.2 of this Section.
- f. Monitoring Program. A program outlining the approach for monitoring construction of the compensation project and for assessing a completed project shall be provided. Monitoring may include, but is not limited to:
 - i. Establishing vegetation plots to track changes in plant species composition and density over time;

- ii. Using photo stations to evaluate vegetation community response;
 - iii. Sampling surface and subsurface waters to determine pollutant loading, and changes from the natural variability of background conditions (pH, nutrients, heavy metals);
 - iv. Measuring base flow rates and storm water runoff to model and evaluate water quality predictions, if appropriate;
 - v. Measuring sedimentation rates, if applicable; and
 - vi. Sampling fish and wildlife populations to determine habitat utilization, species abundance and diversity.
 - vii. A protocol shall be included outlining how the monitoring data will be evaluated by agencies that are tracking the progress of the compensation project. A monitoring report shall be submitted annually, at a minimum, documenting milestones, successes, problems, and contingency actions of the compensation project. The compensation project shall be monitored for a period necessary to establish that performance standards have been met, but not for a period less than seven years.
 - viii. Contingency Plan. Identification of potential courses of action, and any corrective measures to be taken when monitoring or evaluation indicates project performance standards are not being met.
 - A. Performance and Maintenance Surety and Demonstration of Competence. A demonstration of financial resources, administrative, supervisory, and technical competence and scientific expertise to successfully execute the compensation project shall be provided. A compensation project manager shall be named and the qualifications of each team member involved in preparing the mitigation plan and implementing and supervising the project shall be provided, including educational background and areas of expertise, training and experience with comparable projects. In addition, a surety ensuring fulfillment of the compensation project, monitoring program, and any contingency measure shall be posted pursuant to Section 4.1.2.7.
4. City Consultation. The city may consult with and solicit comments from any federal, state, regional, or local agency, including tribes, having any special expertise with respect to any environmental impact prior to approving a mitigation proposal which includes critical areas compensation. The compensation project proponents should provide sufficient information on plan design and implementation in order for such agencies to comment on the overall adequacy of the mitigation proposal.
5. Permit Conditions. Any compensation project prepared pursuant to this section and approved by the director shall become part of the application for the permit.

H. Aquifer Recharge Protection Area (ARPA) Stewardship Plan.

- 1. An ARPA stewardship plan may be completed by the property owner. The city may request additional information or technical review from qualified professionals or other agencies at the applicant's expense to ensure no net loss in critical area functions and values.

2. The basic components of an ARPA stewardship plan are a site plan and narrative report:

- a. The site plan shall include:
 - i. Location and dimensions of proposed development within ARPA
 - ii. Limits of construction and existing and proposed grade changes
 - iii. Location of trees and critical root zones of all trees within the limits of construction and area of grade changes
 - iv. Location and species of tree(s) proposed for removal and replanting, if required.
- b. The narrative report shall include:
 - i. Project narrative (Step 2 from the SAR Guidesheet, revised as needed)
 - ii. Description of measures taken to avoid, minimize and reduce adverse impacts to the ARPA
 - iii. Description of proposed development within ARPA including any decrease in native vegetative area and increase in hard surfaces
 - iv. Assessment of any potential damage to tree(s) whose critical root zone is within the limits of construction and area of grade changes (e.g., windthrow, root damage)
 - v. Description of tree(s) and vegetation proposed for removal and replanting, if required, including size, species and condition
 - vi. Description of protection measures for trees and vegetation to be retained
 - vii. Description of measures to preserve forest litter and surface topography to most closely mimic natural hydrology
 - viii. Planting plan including location, species and size of trees and vegetation to be replanted, if required.
 - ix. Description of performance standards and monitoring actions (e.g., plant survival count, percent canopy coverage estimate) sufficient to document success of any required replanting.

4.1.6 Water Quality and Stormwater Management

4.1.6.1 Principles

Water quality is affected in numerous ways by human activity. Impervious surfaces that accompanies development increases surface water runoff; which causes scouring and erosion of stream banks. Erosion increases suspended solid levels and a greater amount of stormwater carries heavy metals, household wastes, and excess nutrients into the waters of the state. Increased nutrient enrichment depresses dissolved oxygen levels. Degradation of water quality adversely impacts wildlife habitat and public health. The purpose of these provisions is to minimize water quality impacts of shoreline uses and activities. Shoreline master programs shall, as stated in RCW 90.58.020, protect against adverse impacts to the public health, to the land and its vegetation and wildlife, and to the waters of the state and their aquatic life, through implementation of the following principles:

8.0 DEFINITIONS

Abutting –Bordering or touching, such as by sharing a common lot line. Lots that are separated by a street or right-of-way are not abutting.

Accessory Structure or Building – A subordinate building or structure that is incidental to the primary or principal building or structure on the same lot, or an abutting lot that meets the requirements in BIMC Section 18.09.030(I)(14)(c). Accessory structures include, but are not limited to, solar panels, small wind devices, barns and sheds. Accessory dwelling units are not considered accessory buildings or structures.

Accessory Dwelling Unit – Accessory dwelling unit means separate living quarters containing kitchen facilities, where the living quarters are contained within or detached from a single-family dwelling on a single lot.

Accessory Development – Any development incidental to and subordinate to a principal use of a shoreline site and located on adjacent thereto.

Accessory Use – A use that is customarily incidental and related to the principal use on the same lot. Accessory dwelling units are not considered accessory uses.

Accretion – The growth, expansion, build up, or deposit of material associated with a natural fluid flow process.

Accretion Beach – A place where sediment, usually sand, falls out or accumulates, causing the beach to widen. These sinks are usually, but not always, at the terminal end of littoral drift cell.

Accretion Shoreform – The growth of a beach by the addition of material transported by wind and/or water. A shoreline with a relatively stable berg and backshore that has been built up by long term deposition of sand and gravel transported by wind and/or water from a feeder bluff or other material source. Examples of accretion shoreforms includes shoreline features such as barrier beaches, accretion beaches, points, sand spits, hooks, and tombolos.

Act – The Shoreline Management Act of 1971, Chapter 90.58 RCW, or its successor [WAC 173-26-020(1), or its successor].

Activity – Human activity associated with the use of land or resources.

Adjacent –That which is near or close; for example, a property located across the road or highway shall be considered as adjacent.

Adjacent Lands – Lands adjacent to the shorelines of the state (outside of shoreline jurisdiction).

Adjoining – Immediately abutting or separated only by a street right-of-way.

Administrator – Director of the Department of Planning and Community Development, or designee, charged with responsibility for administering the Shoreline Master Program.

Anthropogenic – Landscape alteration relating to, or from human development, use, action or activity.

Adverse Impact – An impact that can be measured or is tangible and has a reasonable likelihood of causing moderate or greater harm to ecological functions or processes or other elements of the shoreline environment.

Agricultural Land – Land primarily devoted to agricultural operations.

Agriculture Operations – Any facility or activity for the production for production for commercial or family use purposes of dairy, apiary, livestock, camelids, ratites, vegetable or animal products, and crop products including, but not limited to, ornamental crops. Incidental vegetable gardening, landscaping and keeping common pets are not defined as agriculture. Agriculture operations include upland fish farms which are self-contained, meaning they do not connect with waters of the state such as: natural or channelized stream, tributary, wetland, or marine water body.

Agricultural Activities – 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 because the land is enrolled in a local, state, or federal conservation program, or the land is 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.

Alteration – Any human induced change in an existing condition of a shoreline, critical area and/or its buffer. Alterations include, but are not limited to grading, filling, channelizing, dredging, clearing (vegetation), draining, construction, compaction, excavation, or any other activity that changes the character of the area.

Alteration, structure -- a change, modification or adjustment.

Anadromous Fish – Species such as salmon, which are born in freshwater, spend most of their life cycle in saltwater, and return to freshwater to reproduce.

Applicant – An individual, partnership, corporation, association, organization, cooperative, public or municipal corporation, or agency, or the state or local governmental unit, however designated [RCW 90.58.030(1)(d) or its successor].

Appurtenance – A structure or development which is necessarily connected to the use and enjoyment of a single-family residence and is located landward of the OHWM and/or the perimeter of a wetland. An appurtenance can include a garage, boat house, deck, driveway, utilities, fences, and grading which does not exceed two hundred fifty (250) cubic yards (except to construct a conventional drainfield) [WAC 173-27-040(2)(g), or its successor].

Appurtenance, Primary – A structure or development connected to a single-family residence and considered essential to the principal residential use when protecting the appurtenant structure from danger from active shoreline erosion. An attached garage or one detached garage and a septic drainfield are primary residential appurtenances. [WAC 173-26-231(3)(a)(ii), or its successor].

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. Upland finfish rearing facilities are included in the definition of agriculture and are not considered aquaculture for the purpose of this SMP. Aquaculture activities include, but are not limited to, the hatching, cultivating, planting, feeding, raising, and harvesting of aquatic plants and animals, and the maintenance and construction of necessary equipment and buildings. Cultivation methods include, but are not limited to, fish pens, shellfish rafts, racks and long lines, seaweed floats and nets, and the planting and harvesting of clams and oysters.

Aquaculture, Shellfish Garden – The cultivation, harvesting, and incidental preparation of shellfish for personal human use and consumption on public and private tidelands

Aquaculture Practices – Any activity 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 commercial or industrial uses such as wholesale and retail sales, or final processing and freezing.

Aquaculture Processing – A commercial or industrial activity that involves preparing, fish or shellfish for human use or consumption by packaging, canning, freezing or other means of final wholesale or retail production.

Aquifer recharge protection area -- A portion of a development site comprised of native or equivalent vegetation in which existing vegetation, topography and supporting soils are free of development, uses or activities detrimental to the aquifer recharge of the total site area.

Arborist -- An individual engaged in the profession of arboriculture who, through experience, education, and related training, possesses the competence to provide for or supervise the management of trees and other woody plants. Must be concurrently an International Society of Arboriculture (ISA) Certified Arborist to perform any role required of a Certified Arborist.

Arborist, ISA Certified -- An arborist holding a current International Society of Arboriculture (ISA) Certified Arborist credential.

Arborist, Tree Risk Assessment Qualified (TRAQ) -- An arborist who has successfully completed the International Society of Arboriculture (ISA) TRAQ training course and assessment and holds a valid ISA TRAQ credential.

Archaeological – Having to do with the scientific study of material remains of past human life and activities.

Archeological Resource – Any material remains of human life or activities which are at least fifty (50) years old and which have potential to provide new information in the fields of history and archaeology. This shall include all sites, objects, structures, artifacts, implements and locations of prehistoric or archeological interest. This shall include but not be limited to burial grounds, campsites, dwellings, and implements, such as projectile points, basketry, grinding stones or pestles, carvings and paintings. This shall include material remains of human life or activities from historic periods that are located at least partially below the ground surface necessitating the use of archeological methods for study or recovery. “Significant” is that quality in American history, architecture, archaeology, engineering, and culture that is present in districts, sites, buildings, structures, and objects that possess integrity of location, design, setting, materials, workmanship, feeling, and association, and;

- a. That are associated with events that have made a significant contribution to the broad patterns of our history; or
- b. That are associated with the lives of significant persons in our past; or
- c. That embody the distinctive characteristics of a type, period or method of construction, or that represent the work of a master, or that possess high artistic value, or that represent a significant and distinguishable entity whose components may lack individual distinction; or
- d. That have yielded or may be likely to yield, information in history or prehistory.

Archaeologist, Professional – A person who meets the minimum qualifications of the secretary of the interior’s standards for a professional archaeologist [WAC 27.53.030, or its successor] and the following: who has designed and executed an archaeological study as evidenced by a thesis or dissertation and has been awarded an advanced degree such as an M.A., M.S., or Ph.D. from an accredited institution of higher education in archaeology, anthropology, or history or other germane discipline with a specialization in archaeology; has a minimum of one (1) year of field experience with at least twenty-four (24) weeks of field work under the supervision of a professional archaeologist, including no less than twelve (12) weeks of survey or reconnaissance work, and at least eight (8) weeks of supervised laboratory experience. Twenty (20) weeks of field work in a supervisory capacity must be documentable with a report produced by the individual on the field work.

Architectural Element – Aesthetic components of a primary building or structure that accents the overall design of the structure. A chimney may be considered an architectural element.

Associated Wetlands – Wetlands that are in proximity to tidal water, lakes, rivers or streams that are subject to the Shoreline Management Act and either influence or are influenced by such waters. Factors used to determine proximity and influence include, but are not limited to: location contiguous to a shoreline water body, formation by tidally influenced geo-hydraulic

processes, presence of a surface connection including through a culvert or tide gate, location in part or whole within the one hundred (100) -year floodplain of a shoreline, periodic inundation, and/or hydraulic continuity.

Aquatic – Those areas waterward of the ordinary high water mark.

Average Grade Level – The average of the natural or existing topography of the portion of the lot, parcel, or tract of real property which will be directly under the proposed building or structure, provided that, in case of structures to be built over water, average grade level shall be the elevation of ordinary high water. Calculation of the average grade level shall be made by averaging the elevations at the center of all exterior walls of the proposed building or structure [WAC 173-27-030(3) or its successor]. Note: This definition of “average grade level” differs from the definition in the City of Bainbridge Island Zoning Code (Chapter 18 of the City of Bainbridge Island Municipal Code). Structures within shoreline jurisdiction shall comply with the definition contained herein.

Backshore – The accretion or erosion zone, located landward of the line of ordinary high water, which is normally wetted only by storm tides. A backshore may take the form of a more or less narrow storm berg (ridge of wave-heaped sand and/or gravel) under a bluff, or it may constitute a broader complex of berms, marshes, meadows, or dunes landward of the line of ordinary high water. It is part of the littoral drift process along its waterward boundary.

Backshore Marina – See Marina

Bank stabilization -- Modification used for the purpose of preventing erosion, protecting channels, and retaining uplands.

Barrier Beach – A linear ridge of sand or gravel extending above high tide, built by wave action and sediment deposition seaward of the original coast line; includes a variety of depositional coastal landforms.

Barrier Estuary – estuary isolated from open bodies of water by a barrier, with tidal exchange occurring through a narrow entrance channel. Usually but not always associated with a significant fresh water source.

Barrier Lagoon – barrier built lagoons that lack significant freshwater source, only coincidentally associated with streams of significant upland catchment areas. See Lagoon and Tidal Lagoon.

Bathymetry – Depth of a water body relative to sea level, may include underwater features and shapes.

Beach – The zone of unconsolidated material that is moved by waves, wind, and tidal currents, extending landward to the coastline.

Beach Face – The steep part of the beach profile below the berg, which is normally exposed to the swash of waves and generally composed of gravel, although it can contain sand or boulders.

Beach Enhancement – The alteration of terrestrial, tidal shorelines or submerged shorelines for the purposes of habitat improvement, creation, recreational enhancement, or soft-treatment stabilization. The materials used depend upon the intended use. The following are examples of materials which may be used in enhancement projects:

- a) Various grades of clean sand or pea gravel to create a beach for recreational purposes.
- b) A combination of a rock matrix and sand or other materials to restore or recreate a shore feature or an underwater aquatic environment (e.g. a reef).
- c) Use of native vegetation to restore marine riparian habitat functions native vegetation.

Beach Nourishment – The process of replenishing a beach by artificial means; e.g., by delivery of selected materials excavated from elsewhere and depositing it at one or several locations in the updrift portion of a drift cell. The material is then naturally transported by waves or currents downdrift to stabilize or restore accretion shoreforms and other berms, which may be eroding due to artificial obstructions in the shore process corridor.

Beach Profile – A vertical cross section of a beach measured perpendicular to the shoreline.

Beach Restoration – The alteration of terrestrial and tidal shorelines or submerged shorelines for the purposes of aquatic habitat, re-establishing ecological function and ecosystem wide processes such that the ecosystem is self-sustaining.

Beach Scarp – A steep slope formed in response to the lowering of the beach profile and landward expansion of the beach face into the backshore as a result of wave erosion. A beach scarp is normally associated with a beach berg.

Bedlands – Those submerged lands below the line of extreme low water in marine waters.

Benthic Community – A grouping of benthic organisms that live in and on the bottom of the ocean floor.

Benthic Organisms – Organisms that live in or on the bottom of a body of water.

Berm (Beach Berm) – The nearly horizontal portion at the beach or backshore formed by the deposition of sediments by waves. Some beaches have more than one berm at slightly different levels, separated by a scarp. A berm is also, a soft-treatment form of shoreline stabilization or a linear mound used to screen an adjacent activity, such as a parking lot, from transmitting excess noise and glare.

Best Available Technology – The most effective method, technique, or product available which is generally accepted in the field, and which is demonstrated to be reliable, effective, and (preferably) low maintenance.

Best available science (BAS) -- Scientifically valid information derived in accordance with WAC 365-195-900 through 925, or as amended, that is used to develop and implement critical areas policies or regulations.

Best Management Practice (BMP) – Industry-established guidelines that are advised to reduce or eliminate anticipated adverse impacts to the environment from construction, development or other human activity.

BIMC – Bainbridge Island Municipal Code.

Biocide – See pesticide

Biodiversity areas and corridors -- Areas of habitat that are relatively important to various species of native fish and wildlife.

- a. Biodiversity areas.
 - i. The area has been identified as biologically diverse through a scientifically based assessment conducted over a landscape scale (e.g., ecoregion, county- or city-wide, watershed, etc.). Examples include but are not limited to WDFW Local Habitat Assessments, Pierce County Biodiversity Network, and Spokane County’s Wildlife Corridors and Landscape Linkages; or
 - ii. The area is within a city or an urban growth area (UGA) and contains valuable fish or wildlife habitat and is mostly comprised of native vegetation. Relative to other vegetated areas in the same city or UGA, the mapped area is vertically diverse (e.g., multiple canopy layers, snags, or downed wood), horizontally diverse (e.g., contains a mosaic of native habitats), or supports a diverse community of species as identified by a qualified professional who has a degree in biology or closely related field and professional experience related to the habitats or species occurring in the biodiversity area. These areas may have more limited wildlife functions than other priority habitat areas due to the general nature and constraints of these sites in that they are often isolated or surrounded by highly urbanized lands.
- b. Corridors. Corridors are areas of relatively undisturbed and unbroken tracts of vegetation that connect fish and wildlife habitat conservation areas, priority habitats, areas identified as biologically diverse, or valuable habitats within the city.

Biofiltration System – A stormwater or other drainage treatment system that utilizes as a primary feature the ability of plant life to screen out and metabolize sediment and pollutants. Typically, biofiltration systems are designed to include grassy swales, retention ponds, and other vegetative features.

Biological Diversity; Biodiversity – The range of physical (habitat) and biological (species, communities) components, the ways that species interact with the physical environment, and the processes necessary to maintain these interactions through time.

Bioengineering – See Shoreline Stabilization, Bioengineered

Biophysical – Physics of biological functions and ecosystem-wide processes.

Biota –The animals and plants that live in a particular location or region.

Bluff, Marine – A high, steep bank or cliff.

BMP – See Best Management Practices.

Boat House – A building used primarily for boat storage.

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

Boat Lift – An in-water structure used for the dry berthing of vessels above the water level and lowering of vessels into the water. A boat lift as herein defined is used to berth and launch a single vessel, suspended over the water's surface. A boat lift is a manufactured unit without a canopy cover and may be placed in the water adjacent to a dock, attached to the dock, or as stand-alone structure. A boat lift may be designed either for boats or personal watercraft. A boat lift with a canopy cover shall be considered moorage for the purposes of this Program.

Boating Facilities – Includes marinas, boat launch facilities, dry storage facilities, marine travel lifts, and fixed marine railways serving commercial, industrial uses or serving five or more single-family residences.

Boat Storage Deck – A deck used for the storage of boats.

Bog – A low-nutrient, acidic wetland with organic soils and characteristic bog plants, as described in Washington State Wetland Rating System for Western Washington: 2014 Update (Ecology Publication #14-06-29, October 2014).

Breakwater – Offshore structure, usually aligned parallel to shore, sometimes shore-connected, that provides protection from waves. The primary purpose is to protect harbors, moorages and navigation activity from wave and wind action by creating stillwater areas along shore. A secondary purpose is to protect shorelines from wave caused erosion.

Buffer – An area of land that is designed and designated to permanently remain vegetated in a predominantly undisturbed and natural condition and/or an area that may need to be enhanced to support ecological processes, or ecosystem-wide functions and to protect an adjacent aquatic or wetland area from upland impacts and to provide habitat for wildlife. Buffer widths vary depending on the relative quality and sensitivity of the area being protected. The “Shoreline Buffer” is a buffer protecting the ecology and resources of and along the Puget Sound. A buffer may be used to protect any sensitive area, including geological hazardous areas.

Building – Any structure having a roof, designated for shelter of persons, animals or property.

Bulkhead – A wall erected generally parallel to and located at or close to the ordinary high water mark for the purpose of containing and preventing the loss of soil due to shoreline erosion caused by tidal action, current or waves. Bulkheads are usually constructed of hard materials and may be built of concrete, large rocks (riprap), or other materials. See also Seawall.

Canopy Area – See canopy coverage.

Canopy Coverage – The crown area of native shrubs and trees as measured from plan view.

Central Puget Lowland – The low areas between the Olympic and Cascade Mountain ranges extending from Admiralty Inlet and the Tacoma Narrows.

Channel – An open conduit for water either naturally or artificially created, but not including artificially created irrigation, return flow, or stock watering channels. [WAC 173-22-030(8b) or its successor]. See also Stream.

Channel Migration Zone (CMZ) – The area along a river within which the channel(s) can be reasonably predicted to migrate over time as a result of natural and normally occurring hydrological and related processes when considered with the characteristics of the river and its surroundings.

City – The City of Bainbridge Island.

Clean Water Act – The primary federal law providing water pollution prevention and control. This was previously known as the Federal Water Pollution Control Act. (See 33 USC 1251 et seq.)

Clearing – Clearing means the destruction or removal of vegetation or plant cover including, but not limited to, root material removal by manual, mechanical, or chemical means. Clearing includes, but is not limited to, actions such as cutting, felling, thinning, flooding, killing, poisoning, girdling, or uprooting.

Coastal Dune – A transitional zone between the marine and the continental processes and are a part of the sand sharing system between the dune, the beach, and the offshore bars.

Coastal Landform, Depositional – See accretion shoreform.

Coastal Processes – Collective term including the action of natural forces on the shoreline, and the nearshore seabed.

Coastline – The line where terrestrial processes give way to marine processes – tidal currents, wind waves, etc.

Commercial Development – Those developments whose principal use is for retail, personal and professional service or other commercial business activities. Included in this definition are developments such as hotels, motels, shops, restaurants, banks, professional offices, grocery stores, and laundromats. Not included, marinas, home occupations, utilities, and related utility development.

Commercial Fish – Those species of fish that are classified under the Washington Department of Fish and Wildlife Food Fish Classification as commercial fish (WAC 220-12-010).

Community Structure – A building, dock, or other structure which is intended for the common use of the residents of a particular subdivision or community. It is not intended to serve as a public facility.

Community or Joint-use Dock – A structure or structures which consists of a system of piers, buoys, or floats that is intended for the common use of the residents of adjoining parcels or subdivision, short subdivision or community located on adjacent uplands. A community dock is

not a commercial endeavor or for the purpose of serving the public. If a community or joint-use dock is designed to accommodate six (6) or more vessels, it is no longer considered a community or joint-use dock, and it shall be considered a marina.

Compensatory Mitigation – A project for the purpose of mitigating, at an equivalent or greater level, unavoidable impacts that remain after all appropriate and practicable avoidance and minimization measures have been implemented. Compensatory mitigation includes, but is not limited to, wetland creation, restoration, enhancement, and preservation; stream restoration and relocation, rehabilitation; and buffer enhancement.

Conditional Use – A use or the expansion of a use permitted on shorelines which, because of certain characteristics, requires a special degree of review and consideration, and may require special conditions to assure that it is consistent with the intent and provisions of the Act and these regulations, and compatible with other uses permitted on shorelines.

Conditional Use Permit – A permit for a use, development or substantial development listed in the regulations as being permitted only as a conditional use, or not classified in this Program. Conditional uses are subject to review and approval pursuant to the provisions of BIMC Section 2.16.165(H), regardless of whether or not the proposal requires a substantial development permit.

Conservation Easement – A legal agreement that the property owner enters into to restrict uses of the land for purposes of natural resources conservation. The easement is recorded on a property deed, runs with the land, and is legally binding on all present and future owners of the property.

Construction Limit Line – In Eagle Harbor, defined on U.S. Army Corps of Engineers, Drawing, File No. E-8-5-6, dated December 22, 1939, approved by the Secretary of War, July 2, 1940. Used in the Master Program for local regulatory purposes.

Contaminant – Any chemical, physical biological, or radiological substance that does not occur naturally in ground water, air, or soil or that occurs at concentrations greater than those in the natural levels [WAC 173-200-020(7)].

Coppicing – Managing of strongly-regenerative species of trees and shrubs by an initial heading cut (leaving a stump) and allowing new shoots to grow to maintain live roots. Shoots may be reduced to their point of origin at appropriate intervals of time without disturbing the resulting coppice head (stump).

Council – Legislative body of the City of Bainbridge Island.

Covered Moorage – A roofed floating or fixed offshore structure with or without walls, for boat moorage or moorage of other water craft or float planes, designed to protect a vessel or vessels.

Critical Aquifer Recharge Area – Areas designated by WAC 365-190-080(2) that are determined to have critical recharging effect on aquifers (i.e., maintain the quality and quantity of water) use for portable water as defined by WAC 365-196-485(1)(d).

Critical Areas – The following areas are designated as critical areas:

- a. Critical Aquifer Recharge Areas
- b. Fish and Wildlife Habitat Conservation Areas
- c. Frequently Flooded Areas
- d. Geologically Hazardous Areas
- e. Wetlands
- f. Critical Saltwater and Freshwater Habitat Areas
- g. Critical Habitat

Critical facilities – Facilities that are essential to the health and welfare of the community, including services that protect life and property. Such facilities include, but are not limited to, hospitals, emergency clinics, police and fire stations, emergency vehicle and equipment storage facilities, emergency operations centers, aviation control centers, and utility facilities such as sewage treatment plants and electric transmission substations.

Critical Habitat – Habitat areas identified by U.S. Fish and Wildlife Service or the National Marine Fisheries Service as habitat necessary for survival of endangered or threatened species.

Critical Saltwater Habitat - Critical saltwater habitats include all kelp beds, eelgrass beds, spawning and holding areas for forage fish, such as herring, smelt and sand lance; subsistence, commercial and recreational shellfish beds; mudflats, intertidal habitats with vascular plants, and areas with which priority species have a primary association [WAC 173-26-221(2)(c)(iii)].

Cultural Resource – Evidence of human occupation or activity that is important in the history, architecture, archaeology or culture of a community or region. Cultural resources include, but are not limited to, the following:

- a. Archaeological resources. Physical evidence of ruins of human occupation or activity that are located on or below the surface of the ground and are at least 50 years old.
 - i. Archaeological resources include, but are not limited to, the remains of houses, villages, camp and fishing sites, and cave shelters; rock art such as petroglyphs and pictographs; artifacts such as arrowheads, utensils, tools, fragments of tools and utensils, obsidian flakes or other material by-products from tool and utensil-making activities; and graves, human remains, and associated artifacts.
- b. Historic buildings and structures. Standing or above-ground buildings and structures that are at least 50 years old.
 - i. Historic buildings and structures include, but are not limited to, log cabins, barns, canals, flumes, pipelines, highways, and tunnels.

- c. Traditional cultural properties. Locations, buildings, structures, and objects that are associated with cultural beliefs, customs, or practices of a living community that are rooted in that community's history and are important in maintaining the continuing cultural identity of the community.
 - i. Traditional cultural properties include, but are not limited to, a location associated with the traditional beliefs of a Native American group about its origins or its cultural history; a location where a community has traditionally carried out artistic or other cultural practices important in maintaining its historical identity; and a location where Native American religious practitioners have historically gone, and go today, to perform ceremonial activities. Objects may include petroglyphs, pictographs, rock cairns or other rock structures, trees, and rock outcrops.

Cumulative Effects – The combined environmental impacts that accrue over time and space from a series of similar or related individual actions, contaminants, or projects. Although each action may seem to have negligible effect, the combined effect can be significant.

Cutting, vegetation – The removal of the main trunk or stem of a small tree for the purposes of controlling aggressive or weedy species.

Dam – A barrier across a stream or river to confine or regulate flow or raise water levels for purposes such as flood or irrigation water storage, erosion control, power generation, or collection of sediment or debris.

Davit – A fixed crane intended to lift boats or cargo.

Degrade – To scale down in desirability or salability, to impair in respect to some physical property, or to reduce in structure or function.

Department – The city's Department of Planning and Community Development.

De Minimis – Minor or trivial impact which cannot be measured or is not quantifiable.

Deposition – The deposit of sediment in an area though natural means such as wave action or currents; may also be done through mechanical means by humans.

Development – A use consisting of the construction or exterior alteration of structures; dredging; drilling; dumping; filling; removal of any sand, gravel, or materials; bulkheading; pile driving; 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 the Act at any state of water level, subject to RCW Chapter 90.58 or its successor [RCW 90.58.030(3)(d) or its successor]. This term may include activities related to subdivisions and short subdivisions; clearing activity; land modification (grade and fill work); building or construction; and activities that are exempt from the substantial development permit process or that require a shoreline variance or conditional use.

Development Area – the ~~area of land disturbing activity on a site. approved portion of a project site that is developed, including the building pad and all graded slopes, all structures, landscaped areas, driveway and parking areas.~~

Development Regulations – The controls placed on development or land uses by the City, including, but not limited to, zoning ordinances, critical areas ordinances, all portions of a shoreline master program other than goals and policies approved or adopted under RCW Chapter 90.58 , and subdivision ordinances together with any amendments thereto.

Dike – an artificial embankment placed at a stream mouth or delta area to hold back sea water for purposes of creating and/or protecting land from flooding.

Director – The director of the ~~department~~ city's Planning and Community Development Department or his/her designee.

Dock – A fixed platform structure anchored in and floating upon a water body that abuts the shore intended to provide landing which may include a ramp, pier, and float; generally used as a landing for water-dependent recreation or moorage for commercial and/or pleasure craft. Excluded are boat launch or boat ramps.

Dock, Joint or Community – A dock, pier and/or float for pleasure craft moorage or water recreation for exclusive personal use of multiple waterfront lot owners.

Downdrift – The direction of predominant alongshore sediment transport.

Dredge – To excavate or deepen a water body by removing aquatic substrate material. Also mechanical or hydraulic equipment used for excavation.

Dredge Spoil – The material removed by dredging. Same as dredge material.

Dredged Material Disposal – Depositing of dredged materials on land or into water bodies.

Dredging – Removal or displacement of earth or sediments such as gravel, sand, mud or silt, and/or other materials or debris from any stream, river, lake or marine water body, and associated shorelines and wetlands. Dredging is normally done for specific purposes or uses such as constructing and maintaining navigation channels, turning basins, harbors and marinas; installing submarine pipelines or cable crossing; or repairing and maintaining dikes or drainage systems. Dredging can be accomplished with mechanical or hydraulic machines. Most dredging is done to maintain channel depths or berths for navigational purposes; other dredging is for shellfish harvesting or cleanup of polluted sediments.

Drift Cell or Drift Sector – Drift cell, drift sector or littoral cell means a particular segment or reach of marine shore in which littoral sediment movement or drift may occur without significant interruption, and which contains any and all natural sources of such drift as well as any shoreform(s) accreted by such drift. Each normal drift cell contains these shore process elements: a feed source that supplies the sediments (feeder bluff or estuary), a driftway, along which the sediment can move, and accretion terminal where the drift material is deposited (accretion shoreform).

Drift Sills – Small groins which hold sediments in place without blocking longshore drift.

Driftway – That portion of the shore process corridor, primarily that lower backshore and the upper intertidal area, through which sand and gravel are transported by the littoral drift process. It is the critical link between the feeder bluff and the accretion shoreform.

Dune – A hill or ridge of sand piled up by the wind and/or wave action.

Ecologically Intact – Those shoreline areas that retain the majority of their natural processes as evidenced by the shoreline configuration and the presence of vegetation or retain the ability to support vegetation. These areas may be partially developed.

Ecological functions or shoreline functions – The work performed or 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 Section 173-26-201(2)(c). Functions include, but are not limited to, habitat diversity and food chain support for fish and wildlife, ground water recharge and discharge, high primary productivity, low flow stream water contribution, sediment stabilization and erosion control, storm and water quality enhancement through biofiltration and retention of sediments, nutrients, and toxicants. These beneficial roles are not listed in order of priority.

Ecology (Washington State Department of Ecology) – Use of “Ecology” or “Washington State Department of Ecology”.

Ecosystem-wide processes – The suite of naturally occurring physical and geologic processes of erosion, transport, and deposition; and specific chemical processes that shape landforms within a specific shoreline ecosystem and determine both the types of habitat and the associated ecological functions.

Educational or scientific activities – Controlled and/or supervised scientific activities or educational activities that are associated with an educational or scientific program that result in no adverse impacts to critical areas or their buffers.

Embankment – An artificial bank such as a mound or dike, generally built to hold back water or carry a roadway.

Embayment - A broad term for an inlet or indentation in the coastline. In this Program, it is restricted to features partly isolated from the rest of Puget Sound by their configuration and sufficiently small to limit wave action and beach processes. Also included are wetlands or other back-barrier water bodies isolated from direct tidal influence (surface exchange). Embayments include barrier estuaries and lagoons and may include some stream mouths and the heads of small bays.

Emergency – An unanticipated and imminent threat to public health, safety, or the environment which requires immediate action within a timer too short to allow full compliance with the Master Program. Emergency construction is construed narrowly as that which is necessary to protect property from the elements and 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, pursuant to the Master Program and RCW 90.58.030(3)(e)(iii); WAC 173-27-040(2)(d), or its successor. As a general matter, flooding or other seasonal events that can be anticipated and may occur but that are not imminent are not considered an emergency.

Engineering geologist – A practicing engineering geologist who has at least four years of professional employment as an engineering geologist with experience in landslide evaluation, and a Washington State specialty license in engineering geology as specified in Chapter 18.220 RCW.

Enhancement – An action or alteration performed within an existing degraded shoreline, critical area, habitat and/or buffer to intentionally improve, increase or augment one or more functions or values of the existing area without degrading other functions. Enhancement actions include, but are not limited to, increasing plant diversity and cover, increasing wildlife habitat and structural complexity (snags, woody debris), installing environmentally compatible erosion controls, or removing non-indigenous plant or animal species. Enhancements are to be distinguished from wetland/habitat creation or restoration projects by the need for on-going assistance to maintain the improved function.

Envelope – The enclosing shell of a building's volume.

Erosion – The wearing away of land by the action of natural forces, such as wind, rain, water and other natural agents that mobilize, transport, and deposit soil particles; On a beach, the carrying away of beach material by wave actions, tidal currents, or littoral currents.

Erosion Hazard Area – A landform or soil type subject to being worn away by the action of water, wind, freeze-thaw, or ice, including areas rated in the Soil Survey of Kitsap County Area, Washington, USDA (1980), as having severe hazard of water erosion; areas classified in the Department of Ecology Coastal Zone Atlas as Class 3, unstable, Class 3, unstable old slides, or Class 5, unstable recent slide; soils identified by the U.S. Department of Agriculture Natural Resource Conservation Service (NCRS) as having "severe" or "very severe" erosion hazards; and/or soils subject to impacts from shoreline retreat.

Estuary – A semi-enclosed coastal body of water in which fresh water and salt water mingle and affect the ~~total~~ land and water habitat. See also Pocket Estuary.

Estuary, Pocket – see Pocket Estuary

Essential Public Facility – Essential public facilities include those facilities that are typically difficult to site, such as airports, state education facilities and state or regional transportation facilities as defined in RCW 47.06.140; regional transit authority facilities as defined in RCW 81.112.020; state and local correctional facilities, solid waste handling facilities, and inpatient facilities including substance abuse facilities, mental health facilities, group homes, and secure community transition facilities as defined in RCW 71.09.020.[RCW 36.70A.200, or its successor]

Essential Single-Family Residential Accessory Structure – An accessory structure that contains a use or is intended for a use that is essential to a single-family residential principal use. The following structures shall be considered an essential residential structure: a garage or carport, one septic system (including one tank and one on-site septic drainfield), one well house and associated well head, and existing decks attached to the primary structure.

Estuarine, wetland – A vegetated wetland that is predominantly tidal, as described in Washington State Wetland Rating System for Western Washington: 2014 Update (Ecology Publication #14-06-29, October 2014).

Estuarine Zone, Estuary – The zero-gradient sector of a stream where it flows into a standing body of water, together with associated wetlands. Tidal flows reverse flow in this zone twice daily, determining its upstream limit. It is characterized by low bank channels branching off the main streamway to form a broad, near-level delta. The bank, bed, and delta materials are typically silt and clay. Banks are stable with vegetation ranging from marsh to forest, and the water is usually brackish due to daily mixing and layering of fresh and salt water. Estuarine shores are rich in aquatic and other bird and animal life, and in their natural condition are the most productive of all shoreline habitats in terms of the marine food chain.

Excavation – The disturbance, displacement and/or disposal of unconsolidated earth material such as silt, sand, gravel, soil, rock or other material from all areas landward of OHWM.

Exemption or Exempt Development – Certain developments as listed in WAC 173-27-040 and Chapter 90.58 RCW are exempt from the definition of substantial developments and, therefore, are exempt from the substantial development permit process of the Shoreline Management Act. An activity that is exempt from the substantial development provisions of the Shoreline Management Act must still be carried out in compliance with policies and standards of the Act and the local master program. Conditional use and/or variance permits may also be required even though the activity does not need a substantial development permit. [RCW 90.58.030(3)(e) or its successor; WAC 173-27-030(7) and WAC 173-27-040, or its successor].

Existing Development – Legally established structures which do not conform to the provisions in the 1996 Shoreline Master Program, as amended by ordinance 2013- on xx xx, 2013.

Extreme High Tide – The highest tide level reached in a nineteen (19) year tidal cycle.

Extreme Low Tide – The lowest line on the land reached by a receding tide [RCW 90.58.030(2)(a) or its successor]. For the purposes of the Shoreline Master Program, it is the contour 4.5 feet below Mean Lower Low Water (datum Plane 0.0) [WAC 332-30-106 (18), or its successor].

Fair Market Value – The expected price at which the development can be sold to a willing buyer. For developments which involve nonstructural operations such as dredging, drilling, dumping, or filling, the fair market value is the expected cost of hiring a contractor to perform the operation, or where no such value can be calculated, the total of labor, equipment use,

transportation, and other costs incurred for the duration of the permitted project [WAC 173-27-030(8), or its successor].

Feasible – When an action, such as a development project, mitigation, or preservation requirement, 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 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.

Feasible Location – A location that accommodates a development in a manner that achieves its intended purpose consistent with the constraints of the applicable land use regulations and characteristics of the property, including but not limited to lot size, configuration, presence/absence of critical areas and compatibility with adjacent land use/development. Feasibility shall take into account both short and long-term monetary and non-monetary costs and benefits.

Feeder Bluff, Erosional Bluff – Any bluff (or cliff) experiencing periodic erosion from waves, sliding, or slumping, whose eroded earth, sand, or gravel material is naturally transported (littoral drift) via a driftway to an accretion shoreform. These natural sources of beach material are limited and vital for the long-term stability of driftways and accretion shoreforms.

Fetch – The distance over unobstructed open water on which waves are generated by a wind having constant direction and speed.

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

Fill Material – Any solid or semi-solid material, including rock, sand, soil, clay, plastics, construction debris, wood chips, overburden from mining or other excavation activities, and materials used to create any structure or infrastructure that, when placed, changes the grade or elevation of the receiving site.

Fish – Species of the vertebrate taxonomic groups *Cephalospidomorphi* and *Osteichthyes*

Fish and Wildlife Habitat Conservation Areas – Areas that serve a critical role in sustaining needed habitats and species for the functional integrity of the ecosystem, and which, if altered, may reduce the likelihood that the species will persist over the long term. These areas may include, but are not limited to, rare or vulnerable ecological systems, communities, and habitat or habitat elements including seasonal ranges, breeding habitat, winter range, and movement corridors; and areas with high relative population density or species richness. Fish and wildlife habitat conservation areas" does not include such artificial features or constructs as irrigation delivery systems, irrigation infrastructure, irrigation

~~canals, or drainage ditches that lie within the boundaries of, and are maintained by, a port district or an irrigation district or company. A seasonal range or habitat element with which a given species has a primary association, and which, if altered, may reduce the likelihood that the species will maintain and reproduce over the long term. These include areas of relative density or species richness, breeding habitat, winter range, and movement corridors. These also include habitats of limited availability or high vulnerability to alteration, such as cliffs, streams and wetlands.~~

Fish habitat – Habitat which is used by any fish at any life stage at any time of the year, including potential habitat likely to be used by fish which could be recovered by restoration or management and includes off-channel habitat.

Fisheries – All species of fish and shellfish commonly or regularly originating or harvested commercially or for sport in Puget Sound and its tributary freshwater bodies, together with the aquatic plants and animals and habitat needed for continued propagation and growth of such species.

Fisheries biologist – A person with experience and training in fisheries who is able to submit substantially correct reports on fish population surveys, stream surveys and other related data analyses of fisheries resources. “Substantially correct” means that technical or scientific errors, if any, are minor and do not delay or affect the site plan review process. Qualifications of a fisheries biologist include:

- a. Either:
 - i. Certification by the American Fisheries Society, or;
 - ii. Bachelor of Science degree in fisheries or the biological sciences from an accredited institution and five years of professional fisheries experience; and
- b. The prior successful completion of at least three habitat management plans.

Fisheries Enhancement – Actions taken to rehabilitate, maintain or create fisheries habitat, including but not limited to hatcheries, spawning channels, lake rehabilitation, planting of fisheries stocks. Fisheries Enhancement differs from Aquaculture in that the increase in fisheries stocks eventually becomes available for public harvest.

Float – A floating platform that moves vertically with a tide and is anchored or attached to a fixed or anchored overwater structure or an anchoring system.

Float, Recreational – A float used primarily for swimming, diving, water skiing, or other recreational purpose and not for the moorage of watercraft.

Floating Aquaculture Facility – Open water aquaculture facility which is consists of a mooring system and/or floats.

Floating house - any floating structure that is designed, or has been substantially and structurally remodeled or redesigned, to serve primarily as a residence. "Floating houses" include house boats, house barges, or any floating structures that serve primarily as a residence and do not qualify as a vessel as provided in subsection (74) of this section. A floating structure that is used

as a residence and is capable of navigation, but is not designed primarily for navigation, nor normally is capable of self propulsion and use as a means of transportation is a floating house, not a vessel.

Flood or Flooding, Coastal – A general and temporary condition of partial or complete inundation of normally dry land areas from the overflow of inland waters and/or the unusual and rapid accumulation of runoff of surface waters from any source.

Flood Protection Measures – All development on water bodies, usually rivers and streams, designed to retard bank erosion, to reduce flooding of adjacent lands, to control or divert stream flow, or to create a reservoir, including but not limited to revetments, dikes, levees, channelization, dams, vegetative stabilization, weirs, flood and tidal gates. Excluded are water pump apparatus.

Flood Hazard; Flood Hazard Management – A long term program or major project carried out on a single parcel or coordinated on a series of parcels for the primary purpose of preventing or mitigating damage to life and property and to minimize public expenses due to flooding through a comprehensive system of planning development regulations, building standards, structural works, and monitoring and warning systems. Flood hazard management projects or programs may employ physical and/or regulatory controls.

Floodplain – Synonymous with one hundred-year floodplain, this is the land area susceptible to being inundated by stream-derived waters with a one percent chance of being equaled or exceeded in any given year. The limits of this area are based on flood regulation and ordinance maps or a reasonable method that meets the objectives of the Shoreline Management Act [WAC 173-26-020(17) or its successor].

Floodway – Those areas or portions of the areas as identified in the Master Program that are either (a) established in federal emergency management agency flood insurance rate maps or floodway maps or (b) those portions of a river valley lying streamward from the outer limits of a watercourse, and upon which flood waters are carried during periods of flooding that occur with reasonable regularity, through not necessarily annually. The floodway is identified, under normal conditions, by changes in surface soil conditions, or changes in types or quality of vegetative ground cover conditions. The floodway does not include lands that can reasonably be expected to be protected from flood waters by flood control devices maintained by or under license from the federal government, the state, or a political subdivision of the state. The limits of the floodway are based on flood regulation ordinance maps or by a reasonable method which meets the objectives of the Shoreline Management Act. [RCW 90.58.030(2)(g) or its successor].

Foreshore – In general terms, the intertidal area between mean higher high water and mean lower low water.

Foreshore Marina – See Marina.

Forest Practice – Any activity conducted on, or directly related to, forest land and relating to growing, harvesting, or processing timber. This includes (1) site preparation and regeneration, (2) protection from insects, fire, and disease, (3) silvicultural practices such as thinning,

fertilization, and release from competing vegetation, and (4) harvesting. Forest practices do not include log storage. (See industrial use.) These activities include, but are not limited to, road and trail construction, final and intermediate harvesting, pre-commercial thinning, reforestation, fertilization, prevention and suppression of disease and insects, salvage of trees, and brush control. See WAC 222-16-010 or its successor.

Forest Land – All land which is capable of supporting a merchantable stand of timber and is not being actively used in a way which is incompatible with timber growing [WAC 222-16-010 or its successor].

Frequently Flooded Areas – Lands subject to a one percent or greater chance of flooding in any given year, as determined by the Federal Emergency Management Agency. These areas include, but are not limited to, floodplains adjacent to streams, lakes, coastal areas, and wetlands. (Also see BIMC Chapter 15.16, Flood Damage Prevention.)

Functional Grating – A floor or decking material which is permeable.

Functions and values – The natural processes and beneficial roles performed or provided by critical areas including, but not limited to, water quality and quantity protection and enhancement, providing fish and wildlife habitat, supporting terrestrial and aquatic food chains, providing flood storage, conveyance and attenuation, groundwater recharge and discharge, erosion control, wave attenuation, protecting aesthetic value, and providing recreational and educational opportunities. These roles are not listed in order of priority.

Gabions – Structures composed of masses of rocks, rubble, or masonry held tightly together, usually by wire mesh, to form blocks or walls. Sometimes used on heavy erosion areas to retard wave action, or as foundations for breakwaters or jetties.

Geologically Hazardous Areas – Areas susceptible to significant erosion, sliding, or other geological events. They pose a threat to the health and safety of citizens when used as sites for incompatible commercial, residential or industrial development. Geologically hazardous areas include erosion hazard areas, landslide hazard areas, and seismic hazard areas.

Geomorphology – The shape or form of a natural surface or object. Also, the study of the forms of the land surface and the processes producing them.

Geotechnical Engineer – Practicing geotechnical/civil engineer who has a valid Washington State engineering license and a valid certificate of registration in civil engineering, at least four years of professional employment as a geotechnical engineer with experience in landslide evaluation, and appropriate training and experience as specified in RCW Chapter 18.43.

Geotechnical report or geotechnical 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 land form 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-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 – An activity associated with land modification or maintenance; grading means the physical 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.

Grassy Swale – A vegetated drainage channel that is designed to remove various pollutants from stormwater runoff through biofiltration.

Groins – This is a rigid, barrier-type structure extending on an angle waterward from the shore into the intertidal zone. Their purpose is to build or preserve an accretion shoreform or berm on their updrift side by trapping littoral drift to protect a shoreline and adjacent upland by influencing the movement of water and/or deposition of materials. Groins are relatively narrow in width but vary greatly in length. Groins are sometimes built in series as a system, and may be permeable or impermeable, high or low, and fixed or adjustable.

Growth Management Act – RCW 36.70A, as amended

Guidelines – Those standards adopted by the Washington State Department of Ecology under WAC 173-26, intended to implement the policy of the Shoreline Management Act, RCW Chapter 90.58, for regulation of use of the shorelines of the state prior to adoption of master programs. Such standards provide criteria for local governments and the Department of Ecology in developing and amending master programs.

Habitat – The place or type of site where a plant or animal naturally or normally lives and grows.

Habitat Function – The use and benefits of physical and biological factors to associated biological communities of organisms.

Habitat Management Plan (HMP) – A report prepared by a professional wildlife biologist or fisheries biologist which discusses and evaluates critical fish and wildlife habitat functions and identifies and evaluates measures necessary to maintain, enhance and improve terrestrial and/or aquatic habitat on a proposed development site.

Habitat of local importance – An area representing either high quality habitat for native terrestrial or aquatic species or habitat which is of limited availability, highly vulnerable to alteration, or provides landscape connectivity which contributes to the integrity of the surrounding landscape and which is not adequately protected by other city, state or federal policies, laws, regulations, or non-regulatory tools that prevent degradation of the habitat or its associated species. These may include areas of high relative density or species richness, breeding habitat, winter range, and movement corridors such as breeding areas or human-made ponds.

Harbor Area – The area of navigable tidal waters as determined in Section 1 of Article 15 of the Washington State Constitution, which is forever reserved for landings, wharves, streets, and other

Harbor Structure Limit Line – A line defined in a harbor to demarcate the limits of overwater structures in aquatic areas and maintain navigation, as recommended by the Harbor Commission and approved by the City of Bainbridge Island City Council.

Hazard Tree – A tree that has significant structural defects that are likely to lead to failure and possibly cause injury or damage as identified in a report from an International Society of Arboriculture (ISA) Tree Risk Assessment Qualified (TRAQ) arborist with structural defects likely to cause failure of all or part of the tree, which could strike a “target.” A target can be a building or a place where people gather such as a park bench, picnic table, street, or backyard. In the case of steep slopes, a hazard tree can also be a tree that is a hazard to the stability of the slope, as determined by a geotechnical engineer.

Hazardous Materials – Any substance containing such elements or compounds which, when discharged in any quantity in shorelines, present to imminent and/or substantial danger to public health or welfare; including but not limited to: fish, shellfish, wildlife, water quality, and other shoreline features and property.

Hazardous Substance – Any liquid, solid, gas, or sludge, including any material, substance, product, commodity, or waste, regardless of quantity, that exhibits any of the physical, chemical or biological properties described in WAC 173-303-090 or 173-303-100.

Hedge – A line of closely-spaced trees and/or shrubs intentionally planted and/or maintained along a property boundary or landscape border for privacy, screening, safety, or similar function, which typically requires ongoing pruning or shearing to maintain its intended function and/or reasonable use of nearby developed areas.

Height – The distance measured from the average grade level to the highest point of a structure. Television antennas, chimneys, and similar structures or appurtenances shall not be used in calculating height except where they obstruct the view of residences adjoining such shorelines. Temporary construction equipment is excluded in this calculation [WAC 173-27-030(9) or its successor]. For all over-water structures, height shall be measured from ordinary high water mark.

High Bluff – An area with slope greater than 40%; height greater than fifteen feet (15'), often unstable or with visible face sediment source often from backshore. This term is used to identify geomorphic classes for the 2004 Nearshore Assessment completed by Battelle for the City.

Hook – A spit or narrow cape of sand or gravel which turns landward at its outer end.

HPA – Hydraulic Project Approval. The permit issued by the Washington State Department of Fish and Wildlife pursuant to the State Hydraulic Code Revised Code of Washington Chapter 75.20, or its successor.

Hydric Soils – Soils which are, saturated flooded, or ponded long enough during the growing season to develop anaerobic conditions in the upper part or have had a history of being, wet long enough to periodically produce anaerobic conditions, thereby influencing the growth of plants [WAC 173-22-030(5) or its successor]. The presence of hydric soil shall be determined following methods identified by the Department of Ecology.

Hydrogeologist – A practicing hydrogeologist who has at least four years of professional employment as a hydrogeologist with experience in the specific subject area in which they are providing a report, and a Washington specialty license in hydrogeology as specified in RCW Chapter 18.220.

Hydrophytes – Those plants capable of growing in water or on a substrate that is at least periodically deficient in oxygen as a result of excessive water content. The presence of hydrophytic vegetation shall be determined following methods identified by the Department of Ecology.

Infeasible – not feasible, see feasible

Impact – An action producing a significant causal effect of the whole or part of a given area.

Impoundment – The retention or trapping of sediment in a location, either by natural or structural means.

Industrial Development – Facilities for processing, manufacturing, fabrication or storage of goods or materials, including but not limited to oil, metal or mineral product refining, power generating facilities, including hydropower, ship building and major repair, storage and repair of large trucks and other large vehicles or heavy equipment, related storage of fuels, commercial storage and repair of fishing gear, warehousing construction contractors' offices and material/equipment storage yards, wholesale trade or storage, and log storage on land or water, together with necessary accessory uses such as parking, loading, and waste storage and treatment. Excluded from this definition are mining, including on-site processing of raw materials, and off-site utility, solid waste, road or railway development, and methane digesters that are accessory to an agricultural use.

Industrial Use – Uses intended primarily to provide for heavy commercial water-dependent uses such as ship and boat building, haul out and repair and related uses serving boating needs.

In-kind Compensation – To replace wetlands, biota, or other organisms with substitute flora or fauna whose characteristics closely match those destroyed, displaced, or degraded by an activity.

Inshore – The zone of the beach profile extending waterward from the foreshore to just beyond the breaker.

Intertidal – The substream area exposed at low tides and inundated at high tides, situated from the extreme low water of spring tides (mean lower-low water, MLLW) to the upper limit of spray or influence of ocean-driven salts (mean higher-high water, MHHW).

Invasive Species – 1) non-native (or alien) to the ecosystem under consideration and 2) whose introduction causes or is likely to cause economic or environmental harm or harm to human health, or as amended by the United States Department of Agriculture National Invasive Species Information Center (NISIC). A species that is (1) non-native (or alien) to the Puget Sound or the Central Puget Lowland region and (2) whose introduction causes or is likely to cause economic or environmental harm, or harm to human health. Invasive species can be plants, animals, and other organisms (e.g., microbes). Human actions are the primary means of invasive introductions.

Jetty – A structure that is generally perpendicular to shore extending through or past the intertidal zone. It is built at harbor entrances or river mouths mainly to prevent shoaling or accretion from littoral drift in entrance channels, which may or may not be dredged. A jetty also serves to protect a channel from storm waves or cross currents, and stabilize inlets through barrier beaches. On the West Coast and in this region, most jetties are riprap mound construction.

Lagoon – A shallow body of water, such as a pond or a lake, isolated from Puget Sound by a barrier beach or other narrow body of land. Lagoons may or may not have a permanent tidal connection to the sea. See also Tidal Lagoon and Barrier Lagoon.

Land disturbing activity – Any activity that results in a change in the existing soil cover (both vegetative and nonvegetative) and/or the existing soil topography. Land disturbing activities include, but are not limited to, clearing, grading, filling and excavation. Compaction that is associated with stabilization of structures and road construction shall also be considered a land disturbing activity. Vegetation maintenance practices are not considered land disturbing activity. Stormwater facility maintenance is not considered land disturbing activity if conducted according to established standards and procedures.

Land divisions – Any division of land subject to the city’s subdivision design standards (BIMC Chapter 17.12).

Landfill – The placement of soil, sand, rock, gravel, existing sediment or other material (excluding solid waste) in upland areas, landward of OHWM, generally to raise the elevation.

Landslide – A general term covering a wide variety of mass movement landforms and processes involving the downslope transport, under gravitational influence of soil and rock material en masse; included are debris flows, debris avalanches, earthflows, mudflows, slumps, mudslides, rock slides, and rock falls.

Landslide Hazard Areas – ~~Areas that, due to a combination of site conditions like slope inclination and relative soil permeability, are susceptible to mass wasting, as designated in Appendix B-1(28).~~ Areas

which are at risk of mass movement due to a combination of geologic, topographic, and hydrologic factors. Landslide hazard areas include the following:

- a. Areas characterized by slopes greater than 15 percent having springs or groundwater seepage and having impermeable soils (typically silt and clay) overlain or frequently interbedded with permeable granular soils (predominantly sand and gravel);
- b. Any area potentially unstable due to rapid stream incision or stream bank erosion;
- c. Any area located on an alluvial fan, debris flow deposit, or in a debris flowpath, presently or potentially subject to impacts or inundation by debris flows or deposition of stream-transported sediments;
- d. Any area with a slope of 40 percent or greater and with a vertical relief of 10 or more feet except areas composed of competent consolidated rock;
- e. Any area designated or mapped as class U, UOS, or URS by the Department of Ecology Coastal Zone Atlas and/or mapped as a landslide or scarp on the USGS Surface Geology Map of Bainbridge Island (Haugerud, 2001).

Landslide hazard area setback – An area contiguous to a landslide hazard area sufficient in depth to meet the development standards set forth in Section 4.1.5.10 as determined by a geological hazards assessment prepared in accordance with Section 4.1.5.14, Critical area reports.

Land Use – The development or activities that occur or are allowed to occur on a particular property.

Landward – In a direction toward shoreland areas.

Launch – see boat launch

Large Woody Debris (LWD) – Generally naturally occurring material that is recruited from during storms from downed trees in rivers, streams or other waters.

Levee – A large dike or embankment, often having an access road along the top, which is designed as part of a system to protect land from floods.

Limited Utility Extension – The extension of natural gas, electricity, telephone, water, or sewer service where all of the following are met: (1) the extension is categorically exempt under the Washington State Environmental Policy Act (SEPA) (See WAC 197-11-800 (24 or its successor) for the utility improvements which are categorically exempt under SEPA), (2) the extension will serve existing uses that are in compliance with the Shoreline Management Act, and (3) the project does not involve the construction of more than twenty-five hundred (2,500) linear feet of utility lines or pipes within shoreline jurisdiction.

Liquefaction – A process in which a water-saturated soil, upon shaking, suddenly loses strength and behaves as a fluid.

Littoral – of or pertaining to the shore.

Littoral Cell – See Drift Cell.

Littoral Drift – The natural process of sediment movement, particularly sand and gravel along the shoreline in the nearshore zone by waves and currents (see also Drift Cell and Driftway).

Littoral Transport – see Longshore Transport

Live-aboard Vessel – A vessel licensed and designed for use as a mobile structure with adequate self-propulsion and steering equipment to be operated as a vessel, but which is principally used as an over-water residence. Principal use as an over-water residence means essentially full-time occupancy within the City’s jurisdiction for a total of more than sixty (60) days, whether or not consecutive, in any calendar year.

Longshore Current – The littoral current in the breaker zone moving essentially parallel to the shore.

Longshore Transport – Transport of sedimentary material parallel to the shore.

Low Bank – An area with a slope often greater than fifteen percent (15%) and less than ~~fourty~~ percent (40%), height fifteen feet (15’) or less, generally narrow beach with high water line at or on the bank. Bedrock terrace considered low bank if characterized by a sand and gravel beach; backed by low scarp. This term is used to identify geomorphic classes for the 2004 Nearshore Assessment completed by Battelle for the City.

Low Impact Development (LID) – A stormwater and land use management strategy that strives to mimic predisturbance hydrologic processes of infiltration, filtration, storage, evaporation and transpiration by emphasizing conservation, use of on-site natural features, site planning, and distributed stormwater management practices that are integrated into a project design.

~~A stormwater management strategy that emphasizes conservation and use of existing natural site features integrated with distributed, small-scale stormwater controls to more closely mimic natural hydrologic patterns in residential, commercial, and industrial settings. LID employs principles such as preserving and recreating natural landscape features and minimizing impervious surfaces to create functional and appealing site drainage that treat stormwater as a resource rather than a waste product. Practices that adhere to these LID principles include bioretention facilities, rain gardens, vegetated rooftops, rainwater harvesting (rain barrels and cisterns), and permeable pavements.~~

Low impact development best management practices (LID BMPs) – Distributed stormwater management practices, integrated into a project design, that emphasize predisturbance hydrologic processes of infiltration, filtration, storage, evaporation and transpiration. LID BMPs include, but are not limited to: bioretention, rain gardens, permeable pavements, roof downspout controls, dispersion, soil quality and depth, minimal excavation foundations, vegetated roofs, and water reuse.

Maintenance – See Normal Maintenance and Normal Repair.

Marina – A facility with the primary purpose of providing moorage for six (6) or more vessels, which consists of a system of piers, docks, buoys, or floats. Foreshore marinas are located landward of OHWM. There are two common types of backshore marinas, one with wet moorage

that is dredged out of the land to artificially create a basin, and the other, dry moorage, which has upland storage with a hoist, marine travel lift, or ramp for water access. Open water marinas, including open water moorage and anchorage areas, are generally located in the center of a water body to provide moorage in addition to any marinas and docks along the edge of the water body.

Marine Bluffs – see Bluff, Marine

Marine Travel Lift – A mechanical device that can hoist vessels off trailers and transport them into the water. Often associated with dry land moorage.

Marine Railway – A fixed set of rails running from the upland area into the water upon which a cart or dolly can carry a boat to be launched.

Marine Riparian Zone – The transition zone between the nearshore and terrestrial ecotones. See also Riparian Vegetation.

Marshes, Bogs, and Swamps – Lands transitional between terrestrial and aquatic systems where saturation with water is the dominant factor determining plant and animal communities and soil development. Such lands must have one or more of the following attributes: a) at least periodically, the land predominately supports hydrophytes, and/or 2) the substrate is predominantly undrained hydric soil. [WAC 173-22-030(10) or its successor]. See Hydrophyte, Hydric Soil.

Marsh/Lagoon – Protected embayment often fluvial sediment sources, substrate is composed of fines, diagnostic salt marsh vegetation, lagoons may empty completely at low tide (extensive tide flats) and may have a residual basin that holds water at low tide. This term is used to identify geomorphic classes for the 2004 Nearshore Assessment completed by Battelle for the City.

Mean Higher-High Water (MHHW) – The plane of the arithmetic mean of the higher of two (2) daily high tides calculated from the most recent 19-year tidal cycle.

Mean Low Water (MLW) – The plane of the arithmetic mean of all low tides calculated from the most recent 19-year tidal cycle.

Mean Lower-Low Water (MLLW) – The plane of arithmetic mean of the lower of two (2) daily low tides calculated from the most recent 19-year tidal cycle (datum plane 0.0).

Mean Sea Level – The average height of the surface of the sea for all stages of the tide over a 19-year period, usually determined from hourly height readings.

Midden – An ancient refuse heap. Often a source of archaeological material.

Mining – Removal and primary processing of naturally occurring materials from the earth for economic use. “Processing” includes screening, crushing, stockpiling – all of which utilize materials removed from the site where the processing activity is located. Processing does not include the manufacture of molded or cast concrete, or asphalt products, asphalt mixing operations, or concrete batching operations.

Mitigation – Measures used to avoid, minimize or alleviate adverse impacts of development on ecological functions or ecosystem-wide processes. Mitigation must follow mitigation sequencing requirements of WAC 173-26-201(2)(e) and includes:

- a. Avoiding, minimizing or compensating for adverse impacts, in the following order of preference:
 - i. Avoiding the impact altogether by not taking a certain action or parts of an action.
 - ii. 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;
 - iii. Rectifying the impacts by repairing, rehabilitating or restoring the affected environment;
 - iv. Reducing or eliminating the impact over time by preservation and maintenance operations during the life of the action;
 - v. Compensating for the impact by replacing, enhancing, or providing substitute resources or environments; and
 - vi. Monitoring the impact and the compensation project and taking appropriate corrective measures. Mitigation for individual action may include a combination of the above measures; and
- b. The following specific categories:
 - i. Mitigation, compensatory: replacing project-induced critical area losses or impacts, including, but not limited to, establishment, re-establishment, rehabilitation or enhancement.
 - ii. Mitigation, establishment: mitigation performed to intentionally establish a critical area (e.g., wetland) at a site where it does not currently exist.
 - iii. Mitigation, re-establishment: the manipulation of the physical, chemical, or biological characteristics of a site with the goal of returning natural or historic functions to a former critical area.
 - iv. Mitigation, rehabilitation: the manipulation of the physical, chemical, or biological characteristics of a site with the goal of repairing natural of historic functions and processes to a degraded critical area.
 - v. Mitigation, enhancement: the manipulation of the physical, chemical, or biological characteristics of a biological wetland to heighten, intensify or improve specific function(s) or to change for specific purposes such as water quality improvement, flood water retention, or wildlife habitat.

Mitigation Sequence – Individual action that may include a combination of the following measures, listed in order of preference:

- a. Avoiding the impact altogether by not taking a certain action or parts of actions;
- b. Minimizing impacts by limiting the degree of magnitude of an action and its implementation;
- c. Rectifying impacts by repairing, rehabilitating, or restoring the affected environment;
- d. Reducing or eliminating an impact over time by preservation and maintenance operations;
- e. Compensating for an impact by replacing enhancing, or providing substitute resources or environments; and
- f. Monitoring the impact and compensation projects and taking appropriate corrective measures when necessary.

Mitigation Plan – A detailed plan indicating actions necessary to mitigate adverse impacts of development.

Monitoring – Evaluating the impacts of development proposals over time on the biological, hydrological, pedological, and geological elements of ecosystem functions and processes and/or assessing the performance of required mitigation measures through the collection and analysis of data by various methods for the purpose of understanding and documenting changes in natural ecosystems and features compared to a baseline or pre-project conditions and/or reference sites.

Mooring Buoy – A floating object anchored to the bottom of a water body that provided tie-up capabilities for vessels.

Muds – Sediments in which the size of the particles is smaller than 0.0625mm.

Mudflat – Low, unvegetated mud substrate that is flooded at high tide and uncovered at low tide.

Multi-family Dwelling or Residence – A building containing two or more dwelling units or more than one dwelling unit on one lot, including, but not limited to, duplexes, apartments, and condominiums.

Natural Riparian Habitat Corridor – The waterside environment maintained in its natural state, primarily for fisheries and wildlife habitat, and water quality improvements, and, secondarily, for flood control works, while allowing controlled access to avoid damage to the resource.

Native Vegetation – Plant species typically found on an undeveloped marine shoreline that are indigenous to the Central Puget Lowland eco-region and suitable to the specific site conditions.

Native Vegetation Equivalent – Plant species that are equivalent in providing the same site-specific functional arrays as would a native species. Functional arrays may include forage, floodwater restraint, hiding habitat, or other physical or biologic roles in the ecosystem, that individually or in combination correspond to those of the native species. As with natives, the

role and mix of an alternative species may vary depending on the site and its surrounding ecosystem. Invasive/exotic species shall not be considered equivalent species.

Nearshore or Nearshore Zone – The area of marine and estuarine shoreline, generally extending from the top of the shoreline bank or bluff to the depth offshore where light penetrating the water falls below a level supporting plant growth, and upstream in estuaries to the head of the tidal influence. It includes bluffs, beaches, mudflats, kelp and eelgrass beds, salt marshes, gravel spits, and estuaries.

Not Net Loss – As a public policy goal, the maintenance of the aggregate total of the City’s shoreline ecological functions at its current level of environmental resource productivity. As a development and/or mitigation standard, no net loss requires that the impacts of a particular shoreline development and/or use, whether permitted or exempt, be identified and prevented or mitigated, such that it has no resulting adverse impacts on shoreline ecological functions or ecosystem-wide processes. Each project shall be evaluated based on its ability to meet the no net loss standard commensurate with its scale and character.

Nonconforming Development – A shoreline use or structure which was lawfully constructed or established prior the effective date of the applicable Shoreline Management Act/SMP provision, and which no longer conforms to the applicable shoreline provisions [WAC 173-27-080(1), or its successor].

Nonwater-oriented – Nonwater-oriented uses serve to describe those uses which have little or no relationship to the shoreline and are not water-dependent, water-related, or water-enjoyment, or considered priority uses under the Shoreline Management Act. Nonwater-oriented uses, means those uses that are not water-dependent, water-related, or water-enjoyment. Nonwater-oriented use examples include professional offices, automobile sales or repair shops, storage facilities, and automobile gas stations.

Normal Appurtenance – See Appurtenance.

Normal Maintenance – Those usual acts to prevent a decline, lapse, or cessation from a lawfully established condition. [WAC 173-27-040(2)(b), or its successor]. (See Normal Repair.) Normal maintenance does not include:

- a. Use of fertilizer or pesticide application in wetlands, fish and wildlife habitat conservation areas, or their buffers;
- b. Re-digging ditches in wetlands or their buffers to expand the depth or width beyond the original ditch dimensions;
- c. Re-digging existing drainage ditches to drain wetlands on lands not classified as existing and ongoing agriculture under BIMC 16.20.040 (Exemptions).

Normal Repair – To restore a structure or development to a lawfully established state comparable to its original condition within a reasonable period after decay or partial destruction, except where repair involves total replacement which is not common practice, or causes substantial adverse effects to the shoreline resource or environment. This does not include any

activities that change the character, scope or size of the original structure or development beyond the original design. [WAC 173-27-040(2)(b), or its successor]. (See Normal Maintenance).

Normal Protective Bulkhead – See Bulkhead.

Obligate Vegetation – The sum total of macrophytic plant life that occurs in areas where the frequency (>99% of the time in wetlands) and duration of inundation or soil saturation produce permanently or periodically saturated soils of sufficient duration to exert a controlling influence on the plant species present. USACE 1987 Wetland Delineation Manual.

OHWM, Ordinary High Water Mark – That mark that will be formed 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, that the soil has a character distinct from that of the abutting upland in respect to vegetation as that condition existed on June 1, 1971, as it may naturally change thereafter, or as it may change thereafter in accordance with permits issued by the City or Washington State Department of Ecology, provided that in any area where the ordinary high water mark cannot be found, the ordinary high water mark adjoining salt water shall be the line of mean higher high water and the ordinary high water mark adjoining fresh water shall be the line of mean high water. [See RCW 90.58.030(2)(b), or its successor and WAC 173-22-030(6), or its successor].

Offshore – The area waterward of the breaker zone, extending in a direction waterward from the shore.

Oil/Water Separator – Specialized catch basins that are designed to trap oil and other materials lighter than water in the basin while allowing the water to escape through the drainage system.

Open Coastal Inlets - These describe inlets or estuaries whose size or configuration precludes significant wave action, but where the inlet itself is not significantly enclosed by a barrier or other restriction.

Open Space – See BIMC Title 18.

Open Water Moorage and Anchorage Area – A designated area of state-owned aquatic lands leased for the moorage and anchorage of vessels that does not abut uplands and does not include a built connection to the uplands. Open water moorage and anchorage areas are leased only by municipalities in accordance with WAC 332-30-139 and subject to the restrictions therein.

Outfall – A structure extending into a body of water for the purpose of discharging an effluent (sewage, storm runoff, cooling water).

Overwash - The flow of marine waters and associated sediment over the top of a barrier beach, usually when storms coincide with high tides. Leads to deposition of sediment in backshore areas and the gradual shifting of a barrier beach landward.

Overwater structures – Human-made structures that extend over all or part of the surface of a body of water, such as a pier.

Parking – The temporary storage of automobiles or other motorized vehicles.

Periodic – Occurring at regular intervals.

Person(s) – Includes organizations and corporations.

Pier – A platform structure or anchored device that is fixed above the water extending waterward from ordinary high water, and which is generally used as a landing or moorage place for industrial, commercial, and/or pleasure craft; including but not limited to ; wharves and quays.

Plant Community – Association of plants in a given area or region in which various species are more or less dependent upon each other.

Pocket Beach – An isolated beach, existing usually, without benefit of littoral drift from sources elsewhere. Pocket beaches are produced by erosion of immediately adjacent bluffs or banks and are relatively scarce and therefore valuable shoreforms on the Island; they are most common between rock headlands and may or may not have a backshore.

Pocket Estuary – Term used in the Puget Sound region to describe small estuaries and lagoons, partially isolated by their configuration from the main body of Puget Sound.

Point – A low profile shoreline Promontory of more or less triangular shape, the top of which extends waterward.

Primary Structure – A structure that includes the principal use of a property, or is intended to be occupied with the principal use of the property.

Priority Habitat – A habitat type with unique or significant value to one or more species. An area classified and mapped as priority habitat must have one or more of the following attributes:

- a. Comparatively high fish or wildlife density;
- b. Comparatively high fish or wildlife species diversity;
- c. Fish spawning habitat;
- d. Important wildlife habitat;
- e. Important fish or wildlife range;
- f. Important fish or wildlife movement corridor;
- g. Rearing and foraging habitat;
- h. Important marine mammal haul-out;
- i. Refugia habitat;
- j. Limited availability;
- k. High vulnerability to habitat alteration;
- l. Unique or dependent species; or
- m. Shellfish bed.

A priority habitat may be described by a unique vegetation type or by a dominant plant species that is of primary importance to fish and wildlife (such as oak woodlands or eelgrass meadows).

A priority habitat may also be described by a successional stage (such as, old growth and mature forests). Alternatively, a priority habitat may consist of a specific habitat element (such as a consolidated marine/estuarine shoreline, talus slopes, caves, snags) of key value to fish and wildlife. A priority habitat may contain priority and/or non-priority fish and wildlife.

Priority Species –Species requiring protective measures and/or management guidelines to ensure their persistence at genetically viable population levels. Priority species are those that meet any of the criteria listed below.

- a. Criterion 1. State-listed or state proposed species. State-listed species are those native fish and wildlife species legally designated as endangered (WAC 232-12-014, or its successor), threatened (WAC 232-12-011, or its successor), or sensitive (WAC 232-12-011, or its successor). State proposed species are those fish and wildlife species that will be reviewed by the Department of Fish and Wildlife (POL-M-6001) for possible listing as endangered, threatened, or sensitive according to the process and criteria defined in WAC 232-12-297.
- b. Criterion 2. Vulnerable aggregations. Vulnerable aggregations include those species or groups of animals susceptible to significant population declines, within a specific area or state-wide, by virtue of their inclination to congregate. Examples include heron colonies, seabird concentrations, and marine mammal congregations.
- c. Criterion 3. Species of recreational, commercial, and/or tribal importance. Native and nonnative fish, shellfish, and wildlife species of recreational or commercial importance and recognized species used for tribal ceremonial and subsistence purposes that are vulnerable to habitat loss or degradation.
- d. Criterion 4. Species listed under the federal Endangered Species Act as either proposed, threatened, or endangered.

Pruning – The selective removal of plant parts to achieve defined objectives.

Pruning amount – The quantity of plant parts removed at one pruning, expressed in terms of a number of branches or other parts removed, and/or percentage of the crown or buds removed on an entire tree or specific branches.

Public Access – The public’s right to get to and use the state’s public waters, both saltwater and freshwater, the water/land interface and associated shoreline area. It includes physical access that is either lateral (areas paralleling the shore) or perpendicular (an easement or public corridor to the shore), and/or visual access facilitated by means such as scenic roads and overlooks, viewing platforms, decks or towers and other public sites or facilities.

Public Interest – The interest shared by the citizens of the state or community at large in the affairs of government, or some interest by which their rights or liabilities are affected including,

but not limited to , an effect on public property or on health, safety, or general welfare resulting from adverse effects of a use or development.

Puget Lowland, Central – The low area between the Olympic and Cascade Mountain ranges.

Puget Sound – All marine water contained south and east of Admiralty Inlet and Deception Pass.

Qualified Professional or Qualified Consultant – A person with experience and training with expertise appropriate for the relevant critical area subject in accordance with WAC 365-195-905(4). A qualified professional must possess the required education and experience stipulated for that profession pursuant to this Program and/or BIMC 16.20.020 for the following:

- a. Fisheries Biologist (BIMC 16.20.020(17);
- b. Geotechnical Engineer (BIMC 16.20.020(21);
- c. Hydrogeologist (BIMC 16.20.020(27);
- d. Wetland Specialist (BIMC 16.20.020(56);
- e. Wetland Biologist (BIMC 16.20.020(57);
- f. Professional Archeologist (RCW 27.53.030(11), or successor)
- g. Certified Arborist (BIMC 16.20)

RCW – Revised Code of Washington.

Ravine – A V-shaped landform generally having little to no floodplain and normally containing steep slopes, which is deeper than 10 vertical feet as measured from the centerline of the ravine to the top of the slope. Ravines are typically created by the wearing action of streams. The top of the slope is determined where there is a significant change in the slope to generally less than a 15 percent slope.

Recharge – The process involved in the absorption and addition of water from the unsaturated zone to ground water.

Recreation – An experience or activity in which an individual engages for personal enjoyment and satisfaction through forms of play, sports, relaxation, amusement or contemplation, Most shore-based recreation included outdoor recreation such as: fishing, hunting, clamming, beach combing, and rock climbing; various forms of boating, swimming, hiking, bicycling, horseback riding, camping, picnicking, watching or recording activities such as photography, painting, bird watching or viewing or water or shorelines, nature study and related activities.

Recreational Development, Active – activities that generally require the use of constructed facilities such as playgrounds, athletic fields, boat ramps, and marinas, and/or the use of specialized equipment.

Recreational Development, Passive – activities that require a minimum of facilities such as swimming, picnicking, hiking, canoeing and fishing, and other low impact activities.

Recreational Fishing –Fishing for personal use as allowed by Personal Fishery Chapter 220-56 WAC.

- a. Hand Line or Angling - shall be identical in meaning and, except as provided in WAC 220-56-115, shall be defined as the use of not more than one line with three hooks attached to a pole held in hand while landing fish, or the use of a hand operated line without rod or reel, to which may be attached not more than three hooks. When fishing for bottom fish, "angling" and "jigging" shall be identical in meaning [WAC 220-56-100(17), or its successor].
- b. Spear Fishing - means an effort to take fish or shellfish by impaling the fish or shellfish on a shaft, arrow or other device [WAC 220-56-100(29), or its successor].
- c. Bow and Arrow Fishing - any method of taking, or attempting to take, fish by the use of an arrow equipped with a barbed head and a line attached, and propelled by a bow, as in the sport of archery, while the fisher is above the surface of the water [WAC 220-56-100(6), or its successor]

Redevelopment – On a site that is already substantially developed (i.e., has 35 percent or more of existing impervious surface coverage), the creation or addition of impervious surfaces; the expansion of a building footprint or addition or replacement of a structure; construction, installation or expansion of a building or other structure; replacement of impervious surface that is not part of a routine maintenance activity; and land disturbing activities.

Removal, vegetation – To eliminate the presence or hazard of unwanted vegetation.

Repair – See “Normal Repair”

Residential Development – Construction or alteration, earth modification, subdivision and use of land primarily for human residence; including but not limited to single-family residences and multifamily dwellings, accessory uses, and structures normally associated with residential uses and structures. Residential development includes land divisions, including short plats, of residentially zoned land. It also includes all modifications to land and vegetation associated with construction, preparation, or maintenance of residential structures or accessory structures.

Restoration or Ecological Restoration – To revitalize, reestablish or upgrade ecological shoreline functions and/or natural processes of a degraded shoreline resource to a condition that sustains the ecological functions and process at a state of equilibrium.

This may be accomplished through measures including, but not limited to, revegetation, removal of intrusive shoreline structures, and removal or treatment of toxic materials.

Retaining Wall – A built structure designed to retain an earth bank from sliding or to resist the lateral pressure of soil when there is a desired change in ground elevation.

Revetment – A sloping structure built to protect a scarp, embankment, or shore against erosion by waves or currents. Usually built of riprap, with heavy armor layer, one or more filter layers

of smaller rock or filter cloth, and “toe” protection. A revetment slopes shoreward and has a rough or jagged facing. Its sloping face absorbs wave energy and differentiates it from a bulkhead, which is a vertical structure.

Riparian – Of, pertaining to, or situated or living on the banks of a river or other body of water, including tidewater.

Riparian Management Zone – The area adjacent to a water body (stream, lake or marine water) that contains vegetation that influences the aquatic ecosystem, nearshore area and/or fish and wildlife habitat. The zone include terrestrial habitat and riparian vegetation.

Riparian Vegetation – Vegetation that tolerates and/or requires moist conditions and periodic free flowing water thus creating a transitional zone between aquatic and terrestrial habitats which provides cover, shade and food sources for aquatic and terrestrial insects for fish species. Riparian vegetation and their root systems stabilizes banks, attenuates high water flows, provide wildlife habitat and travel corridors, and provide a source of limbs and other woody debris to terrestrial and aquatic ecosystems.

Riprap – A layer, facing, or protective mound of stones placed to prevent erosion, scouring, or sloughing of a structure or embankment.

Rock Weir – See Groin.

Runoff – Water that is not absorbed into the soil, but rather flows along the ground surface following the topography.

Salish Sea – Broadly defined as the confined water body inland from Cape Flattery, including Puget Sound, the Strait of Juan de Fuca and the Strait of Georgia.

Salmon and Steelhead Habitats – Gravel bottom streams, creeks, and rivers used for spawning; streams, creeks, rivers, side channels, ponds, lakes, and wetlands used for rearing, feeding, cover and refuge from predators and high water; streams creeks, rivers, estuaries, and shallow areas of saltwater bodies used as migration corridors; and salt water bodies used for rearing, feeding, and refuge from predators and currents.

Salt Tolerant Vegetation – Vegetation which is tolerant of interstitial soil salinities greater than or equal to 0.5 parts per thousand. [WAC 173-22, or its successor].

Seawall – Structure separating land and water areas primarily to prevent erosion and other damage by wave action. Generally more massive and capable of resisting greater wave forces than a bulkhead or revetment.

Sediment – The material, such as sand, silt, or clay, suspended in or settled on the bottom of a water body, generally deposited by erosion, water or wind.

Sediment Transport – The movement of sediment along a current pathway.

Seismic Hazard Areas – Areas that are subject to severe risk of damage as a result of earthquake-induced ground shaking, or surface faulting. While ground shaking is the principal

risk because the entire island will shake significantly, severe damage will occur where slope failure, liquefaction, and settlement are induced by the shaking and surface rupture is created by fault movement. The following areas are considered seismic hazard areas:

- a. Seismic Landslide Hazard Areas. Slopes which are stable in non-earthquake periods, but fail and slide during ground shaking;
- b. Liquefaction Hazard Areas. Areas of non-cohesive, loose or soft, saturated soils of low density in association with a shallow groundwater table that are subject to settlement and/or liquefaction from ground shaking; or
- c. Fault Hazard Areas. Areas of known surface rupture or significant surface deformation as a result of an active fault movement, including fifty feet (50') on either side.

Sensitive Areas – See Critical Areas

Sensitive Land – See Critical Areas

Setback – The required space that is left open and unoccupied between the nearest projection of a structure and the property line of the lot on which the structure is located, and that are required to remain unobstructed from the ground to the sky except for modification to setbacks and height specifically allowed by code.

Shall – A mandate; the action that must be done.

Shared Moorage – Moorage for pleasure craft and/or landing for water sports for use in common by shoreline residents of a certain subdivision or community within shoreline jurisdiction or for use by patrons of a public park or quasi-public recreation area, including rental of non-powered craft. If a shared moorage provides commercial services of six or more slips, it shall be considered a marina.

Shellfish – Invertebrates of the phyla Arthropoda (class Crustacea), Mollusca (class Pelecypoda) and Echinodermata.

Shellfish Habitat Conservation Area – All public and private tidelands suitable for shellfish, as identified by the Washington Department of Health classification of commercial growing areas, and those recreational harvest areas as identified by the Washington Department of Ecology are designated as Shellfish Habitat Conservation Protection District created under RCW 90.72 is also a Shellfish Habitat Conservation Area.

Shoreland Areas – 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 wetlands, including river deltas associated with streams, rivers and tidal waters which are subject to the provisions of this chapter; the same to be designated as to location by the Department of Ecology.

Shorelands – See “Shoreland areas.”

Shoreline Armoring – Structural protection from erosion caused by tidal action, current or waves, including but not limited to, revetments, bulkheads, sea walls, gabions.

Shoreline Designation – The categories of shorelines established by the Shoreline Master Programs in order to provide a uniform basis for applying policies and use regulations within distinctively different shoreline areas. [WAC 173-16-040(4), or its successor].

Shoreline Jurisdiction (Associated Wetlands [Jurisdictional]) – The proper term describing all of the geographic areas covered by the Shoreline Management Act, related rules, and the applicable master program. Those lands extending landward for two hundred feet (200') in all directions, as measured on a horizontal plane from the ordinary high water mark; floodways and contiguous floodplain areas landward two hundred (200) feet from such floodways; and all marshes, bogs, swamps and deltas associated with the streams, lakes, and tidal waters subject to the Shoreline Management Act. See RCW 90.58.030(2)(f), or its successor; WAC 173-16-030(17), or its successor; and WAC 173-22-030(10), or its successor. Also, such areas within a specified local government's authority. See definitions of shorelines, shorelands, shorelines of the state, and Shorelines of State-wide Significance, and wetlands, jurisdictional.

Shoreline Management Act – The Shoreline Management Act of 1971, RCW Chapter 90.58, as amended.

Shoreline Master Program or Master Program – The comprehensive use plan for a described area, and the use regulations together with 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 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 Permit – A substantial Development, Conditional Use, Revision, Variance, or any combination thereof [WAC 173-27-030(13), or its successor].

Shoreline Stabilization and Flood Protection – Structural or non-structural modifications to the existing shoreline intended to reduce or prevent erosion impacts to property and dwellings, businesses, or structures of upland beaches or reduce adverse impacts caused by natural processes, such as current, flood, tides, wake, wind, or wave action. These are generally located parallel to the shoreline at or near the OHWM. Examples of specific structural and nonstructural shoreline modification activities include revetments, riprap, bulkheads, and bank stabilization.

Shoreline Stabilization, Bioengineered – Biostructural and biotechnical alternatives to hardened structures (bulkheads, walls) for protecting slopes or other erosive features including soft – treatment techniques. Bioengineered stabilization uses Vegetation Reinforced Soil Slopes

(VRSS), which uses vegetation arranged embedded in the ground to prevent shallow mass-movements and surficial erosion.

Shoreline Stabilization, Hard structure – Shore erosion control practices using hardened structures that armor and stabilize the shoreline landward of the structure from further erosion.

Shoreline Stabilization, Hybrid structure – An approach to erosion control that combines soft-treatment shoreline treatment placed waterward of more conventional structural shoreline stabilization elements. The soft treatment preserves natural beach contours and mimics habitat structure in order to preserve ecological functions. The hard structure provides long-term stability to the upland site, but is located sufficiently landward of the OHWM as not to impair ecological processes.

Shoreline Stabilization, New – Placement of shoreline stabilization where no such structure previously existed, including additions to or increases in size of existing shoreline stabilization measures are considered new structures.

Shoreline Stabilization, Non-structural – This is a soft treatment which does not use driftwood, logs, geotextile fabric, or other organic or non-organic structural materials. Examples include:

- a. Addressing upland drainage issues;
- b. Planting stabilization vegetation without fill, grading, or use of non-biodegradable geotextile fabric, gabions other stabilizing structures to provide temporary erosion control;

Shoreline Stabilization, Replacement – The construction of a new structure to perform a shoreline stabilization function of an existing legally-established shoreline stabilization structure which can no longer adequately serve its purpose.

Shoreline Stabilization, Soft-treatment – Shore erosion control and restoration practices using only plantings or organic materials to restore, protect or enhance the natural shoreline environment. This technique mimics natural conditions for ecological functions and ecosystem-wide processes. When used organic/biodegradable structural components are to be place to avoid significant disruption of sediment recruitment, transportation, and accretion. Examples include:

- a. Bioengineered Shoreline Stabilization;
- b. Beach Nourishment/Replenishment;
- c. Vegetated Soil Stabilization Retention Methods;
- d. Driftwood;
- e. Coir fiber logs or other natural materials;
- f. Nonstructural Shoreline Stabilization.
- g. Beach Berm.

Shoreline Stabilization, Structural – Shoreline stabilization which includes a footing, foundation, or anchors. Materials are typically hardened structures which armoring the shoreline. See also Shoreline Stabilization, Hard structure and Shoreline Stabilization, Hybrid structure.

Shoreline Substantial Development Permit – A mechanism through which the City determines whether a proposed development or activity complies with the State of Washington Shoreline Management Act (RCW Chapter 90.58, or its successor) and the Master Program.

Shorelines – All of the water areas of the state, including reservoirs and their associated wetlands, together with the lands underlying them, except those areas excluded under RCW 90.58.030(2)(d) or its successor and shorelines of state-wide significance.

Shorelines Hearings Board (SHB) – A quasi-judicial body which hears appeals by any aggrieved party on the issuance of a shoreline permit and appeals by local government on Washington State Department of Ecology approval of master programs, rules, regulations, guidelines, or designations under the Shoreline Management Act. [RCW 90.58.170, or its successor; RCW 90.58.180, or its successor; and WAC 173-04-01, or its successor].

Shorelines of State-wide Significance – A select category of shorelines of the state, defined in RCW 90.58.030(2)(e) or its successor, where special preservation policies apply and where greater planning authority is granted by the Shoreline Management Act [RCW 90.58.020 or its successor]. Within the City's jurisdiction all those areas lying seaward from the line of extreme low tide are shorelines of state-wide significance [RCW 90.58.030(1)(e)(iii) or its successor].

Shorelines of the State – Shorelines and shorelines of state-wide significance.

Shoreward – See landward

Should – A particular action is required unless there is demonstrated, compelling reason, based on policy of the Shoreline Management Act and this Program, against taking the action.

Shrub – A woody perennial plant, usually with several stems that may be erect or close to the ground, generally smaller than a tree.

Sign – Any letter, figure, design, symbol, trademark or other device which is intended to attract attention to any activity, service, place, political office, subject, firm, corporation or merchandise, except traffic signs or signals, public or court notices, signs not visible from the public right-of-way or adjacent properties, signs on moving vehicles, newspapers, leaflets or other printed materials intended for individual use or individual distribution to members of the public, government flags, flags and buntings exhibited to commemorate national patriotic holidays and temporary banners announcing charitable or civic events.

Significant Removal of Vegetation – The removal or alteration of trees, shrubs, and/or ground cover by clearing, grading, cutting, burning, chemical means, or other activity that causes significant ecological impacts to functions provided by such vegetation. The removal of invasive or noxious weeds does not constitute significant vegetation removal. The approved removal of trees determined to be hazardous does not apply. Tree pruning, not including tree topping, where

it does not affect ecological functions, does not contribute significant vegetation removal in the Washington State Shoreline Master Program Guidelines, Chapter 173-26 WAC 99 of 100.

Single-family Residence (SFR) – A detached dwelling designed for and occupied by one family, including those structures and developments within a contiguous ownership which are normal appurtenance [WAC 173-27-040(2)(g), or its successor].

Site – The entire lot, series of lots, or parcels on which a development is located or proposed to be located, including all contiguous undeveloped lots or parcels under common ownership.

Soil Bioengineering – An applied science that combines structure, biological, and ecological concepts to construct living structures that stabilize the soil to control erosion, sedimentation, and flooding using live plant materials as a main structural component.

Solid Waste Disposal – Discharge, deposit, injection, dumping, spilling, leaking or placing of any solid waste, including hazardous waste, on land or in the water.

Solid Waste – Solid and semi – solid wastes, including garbage, rubbish, ashes, industrial wastes, wood wastes, and sortyard wastes associated with commercial logging activities, swill, demolition and construction wastes, abandoned vehicles and parts of vehicles, household appliances, and other discarded commodities. Solid waste does not include wastewater, dredge material, agricultural, or other commercial logging wastes not specifically listed above. See landfill and dredging material.

Species of local importance – Those species that are of local concern due to their population status or their sensitivity to habitat alteration.

Spit – An accretion shoreform which extends seaward from and parallel to the shoreline. They are usually characterized by a wave-built berg on the windward side and more gently sloping, muddy, or marshy shore on the leeward side. A curved spit is normally called a hook.

Spit/Barrier/Backshore – An area with a wide beach face and slope of less than fifteen percent (15%), distinguishable backshore. This term is used to identify geomorphic classes for the 2004 Nearshore Assessment completed by Battelle for the City.

Spur Dock – See Groin.

SSDP – Shoreline Substantial Development Permit.

Starvation – See Impoundment

Statement of Exemption or Letter of Exemption – A written statement by the Administrator that a particular development proposal is exempt from the substantial development permit requirement and is generally consistent with this Program including the policy of the Act [RCW 90.58.020, or its successor].

Steep Slope – A forty percent (40%) or greater slope. See also Landslide Hazard

Storm Surge – A rise above normal water level on the open coast due to the action of wind forces on the water surface or to atmospheric pressure reduction.

Stormwater Management – The control of stormwater drainage through a systematic design that performs a particular function, or multiple functions, and includes but not limited to, pipes, swales, ditches, culverts, street gutters, detention basins, retention basins, constructed wetlands, infiltration devices, catch basins, oil/water separators, sediment basins and modular pavement.

Streams – Those areas in the City of Bainbridge Island where the surface water flows are sufficient to produce a defined channel or bed. A defined channel or bed is an area which demonstrates clear evidence of the passage of water and includes but is not limited to bedrock channels, gravel beds, sand and silt beds, and defined-channel swales. The channel or bed need not contain water year-round. This definition is not meant to include irrigation ditches, canals, storm or surface water runoff devices, or other artificial watercourses unless they are used by fish or used to convey streams naturally occurring prior to construction.

Stream Types – A stream classification system based on fish usage and perennial or seasonal water regime as found in WAC 222-16-030 and meeting the standards listed below.

- a. “Type F Stream” means a stream that has fish habitat. Waters having the following characteristics are presumed to meet the physical criteria for fish use: Stream segments having a defined channel of 2 feet or greater within the bankfull width and having a gradient of 16 percent or less. Also, stream segments having a defined channel of 2 feet or greater within the bankfull width and having a gradient greater than 16 percent and less than or equal to 20 percent, and having greater than 50 acres in contributing basin size based on hydrographic boundaries.
- b. “Type Np” means all segments of natural waters within the bankfull width of defined channels that are perennial nonfish habitat streams. Perennial streams are waters that do not go dry any time of a year of normal rainfall. However, for the purpose of water typing, Type Np Waters include the intermittent dry portions of the perennial channel below the uppermost point of perennial flow.
- c. “Type Ns” means all segments of natural waters within the bankfull width of the defined channels that are not Type S, F, or Np Waters. These are seasonal, nonfish habitat streams in which surface flow is not present for at least some portion of a year of normal rainfall and are not located downstream from any stream reach that is a Type Np Water. Ns Waters must be physically connected by an above-ground channel system to marine waters, Type F, or Np Waters.

Structure – A permanent or temporary edifice or building, or any piece of work artificially built or composed of parts joined together in some definite manner, whether installed on, above, or below the surface of the ground or water, except for vessels. [WAC 173-27-030(15) or its successor].

Subdivision – The division or redivision of land, including short subdivisions, for the purpose of sale, lease, or conveyance.

Substantial Development – Any development of which the total cost or fair market value exceeds the amount specified in WAC 173-26-040(2)(a); or any development which materially

interferes with the normal public use of the water or shorelines of the state, except as specifically exempted pursuant to RCW 90.58.030(3)(e), or its successor, and WAC 173-27-040, or its successor. See definitions for Development and Exemption.

Substantial Progress – Substantial progress toward completion of a permitted activity includes all of the following, where applicable: the making of contracts, signing of notice to proceed, completion of grading and excavation and the laying of major utilities; or, where no construction is involved, commencement of the activity [WAC 173-27-090, or its successor].

Subtidal – The area of the marine environment below extreme low tide.

Sub-estuary – See Pocket Estuary

Sustainable Development – Development which maintains a balance between the health of the natural environment and the needs of the human community which lives within it.

Surface Water – Water that travels across the surface of the ground, rather than infiltrating.

Swell – Wind-generated waves that have traveled out of their generating area. Swell characteristically exhibits a more regular and longer period and has flatter crests than waves with their fetch.

Terrestrial – Of or relating to land as distinct from air or water.

Tidal Inlet – A shore feature subject to the daily influence of the tides, whose mouth is narrower than its length. The inlet is considered to be all lands and waters seaward of the ordinary high water mark, and extending to its mouth. Within tidal inlets, specific areas that constitute critical habitat are designated for special protection under the Master Program.

Tidal Flats – Marshy or muddy areas of the seabed which are covered and uncovered by the rise and fall of tidal water.

Tidal Lagoon – A body of saline water (salinity greater than 0.5 parts per thousand) with a constricted or subsurface outlet that is subject to the periodic, but not necessarily daily, exchange of water with Puget Sound or a tidal inlet. The exchange may occur seasonally, during storms, or during the highest spring tides. The connection between the sea and the lagoon does not necessarily have to be on the surface; the connection can be subsurface through permeable gravel and sand berms.

Tidal Range – The difference in height between consecutive high and low water.

Tidal Water – Includes marine and estuarine water bounded by the ordinary high water mark. Where a stream enters the tidal water, the tidal water is bounded by the extension of the elevation of the marine ordinary high water mark within the stream [WAC 173-22-030(9), or its successor].

Tidelands – Land on the shore of marine water bodies between the line of ordinary high water and the line of extreme low tide.

Toxic Material – Any material damaging to marine life including, but not limited to, paints, varnishes, anti-fouling agents, bleaches, petroleum, and contaminated bilge waste water.

Transient Moorage – Moorage for a stay of less than two (2) weeks.

Transportation Facilities – 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, ferry terminals, float plane terminals, heliports, and other related facilities.

Tree – A woody perennial plant with a single or multiple trunks, which typically develop a mature size of over several inches diameter, and ten (10) or more feet in height.

Unavoidable – Adverse impacts that remain after all appropriate avoidance and minimization measures have been implemented.

Updrift – In the direction opposite of dominant alongshore sediment transport.

Upland – Generally described as the area above and landward of the OHWM.

Upland Finfish Rearing Facilities – Those private facilities not located within waters of the state where finfish are hatched, fed, nurtured, held, maintained, or reared to reach the size for commercial market sale. This shall include fish hatcheries, rearing ponds, spawning channels, and other similarly constructed or fabricated facilities.

Utilities, Accessory – Small scale distribution systems directly serving a permitted shoreline use. These include power, telephone, cable, water, sewer, septic, and stormwater lines.

Utilities, Primary – Facilities that produce, transmit, carry, store, distribute, or process electric power, gas, water, sewage, or information. Primary utilities include solid waste handling and disposal facilities, wastewater treatment facilities, utility lines, electrical power generating or transfer facilities, radio, wireless telephone and microwave tower, and gas distribution and storage facilities.

Variance – A means to grant relief from the specific bulk, dimensional, or performance standards specified in the applicable Master Program. Variance permits must be specifically approved, approved with conditions, or denied by the Washington State Department of Ecology. (See WAC 173-14-150, or its successor).

Vascular Plant – Any plant that has a specialized conducting system consisting mostly of phloem (food-conducting tissue) and xylem (water-conducting tissue), collectively called vascular tissue. These plants have true stems, leaves, and roots, modifications of which enable species of vascular plants to survive in a variety of habitats under diverse, even extreme, environmental conditions.

Vegetative Stabilization – Planting of vegetation to retain soil and retard erosion, reduce wave action, and retain bottom material, It also means utilization of temporary structures or netting to enable plants to establish themselves in unstable areas.

Vessel – A floating structure that is designed primarily for transportation, is normally capable of self propulsion and navigation, and meets all applicable laws and regulations pertaining to navigation and safety equipment on vessels, including, but not limited to, registration as a vessel by an appropriate government agency, and does not interfere with normal public use of the water. [WAC 173-27-030(18), or its successor].

View Corridor – An area free of buildings and other view-blocking structures which provides visual access to water and/or the shoreline.

WAC – Washington Administrative Code.

Water-dependent Use – A use or a portion of a use which cannot exist in a location that is not adjacent to the water which is dependent on the water by reason or the intrinsic nature of its operation. Examples of water-dependent uses may include ship cargo terminal loading areas, ferry and passenger terminals, barge loading facilities, ship building and dry docking, marinas, aquaculture, float plane facilities, and sewer outfalls.

Water-enjoyment Use – A recreational use, or other use facilitating 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 general characteristic of the use and which through the location, design, and operation ensure 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 foster shoreline enjoyment. Primary water-enjoyment uses may include, but are not limited to, parks, piers, and other improvements facilitating public access to shorelines of the state. General water-enjoyment uses may include, but not limited to, restaurants, museums, aquariums, educational/scientific reserves, resorts, and mixed use commercial, provided that such uses conform to the above water-enjoyment specifications and the provisions of the Master Program.

Water-oriented Use – Refers to any combination of water-dependent, water-related and/or water-enjoyment uses and serves as an all-encompassing definition for priority uses under the Shoreline Management Act.

Waterward – To, toward, or continuing into the water body.

Water Quality – The physical characteristics of water within shoreline jurisdiction, including water quality, hydrological, physical, chemical, aesthetic, recreation-related, and biological characteristics. Where used in this chapter, the term “water quantity” refers only to development and uses regulated under this chapter and affecting water quantity, such as impermeable surfaces and stormwater handling practices. Water quantity, for purposes of this chapter, does not mean the withdrawal of ground water or diversion of surface water pursuant to RCW 90.3.250 through 90.03.340.

Water-related – A use or portion of a use which is not intrinsically dependent on a waterfront location, but whose economic viability is dependent upon a waterfront location because:

- a. Of 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 commercial activities and the proximity of the use to its customers makes its services less expensive and/or more convenient.

Examples include: (1) manufacturers of ship parts large enough that transportation becomes a significant factor in the product(s) cost, (2) professional services serving primarily water-dependent activities, and (3) storage of water-transported foods. Examples of water-related uses may include warehousing of goods transported by water, seafood processing plants, hydroelectric generating plants, gravel storage when transported by barge, oil refineries where transport is by tanker, and log storage.

Wave Direction – The direction from which waves approach an observer.

WDFW – Washington State Department of Fish and Wildlife.

Washington State Department of Ecology – See Ecology.

Weir – A structure in a stream or river for measuring or regulating stream flow.

Wetlands – Areas that are inundated or saturated by surface water or groundwater at a frequency and duration sufficient to support a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include, but are not limited to, swamps, estuaries, marshes, bogs, ponds less than twenty acres, including their submerged aquatic beds and similar areas. Wetlands do not include those artificial wetlands intentionally created from non-wetland sites, including, but not limited to, irrigation and drainage ditches, grass-lined swales, canals, stormwater 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 include those legally established artificial wetlands intentionally created from non-wetland areas to mitigate the conversion of wetlands. ~~Areas that are inundated or saturated by surface water or ground water at a frequency and duration sufficient to support, a prevalence of vegetation typically adapted for life in saturated soil conditions. Wetlands generally include swamps, marshes, bogs and similar areas, including associated wetlands. Wetlands do not include those artificial wetlands intentionally created from non-wetland 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 that were 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 non-wetland areas to mitigate the conversion of wetlands. [WAC 173-22-030(10) and (11), or their successors]~~

Wetland boundary – The boundary or outer edge of a wetland as delineated in accordance with the federal wetland delineation manual and applicable regional supplements (as updated), as required by WAC 173-22-035.

Wetland category – Category as defined in Washington State Wetland Rating System for Western Washington – 2014 Update (Ecology Publication No. 14-06-029, October 2014), or as revised and adopted by the department.

Wetlands specialist – A person with experience and training in wetland issues who is able to submit substantially correct reports on wetland delineations, classifications, functional assessments and mitigation plans. “Substantially correct” means that errors, if any, are minor and do not delay or affect the site plan review process. Qualifications of a wetlands specialist include:

- a. Either:
 - i. Certification as a Professional Wetland Scientist (PWS) or Wetland Professional in Training (WPIT) through the Society of Wetland Scientists, or;
 - ii. Bachelor of science degree in the biological sciences from an accredited institution and five years of professional field experience; and
- b. The prior successful completion of at least three wetland reports.

Wetlands, Jurisdictional – See “shoreland areas.”

Wildlife biologist – A person with experience and training in the principles of wildlife management and with practical knowledge in the habits, distribution and environmental management of wildlife. Qualifications include:

- a. Either:
 - i. Certification as a professional wildlife biologist through The Wildlife Society, or;
 - ii. Bachelor of science or bachelor of arts degree in wildlife management, wildlife biology, ecology, zoology, or a related field, from an accredited institution and five years of professional field experience; and
- b. The prior successful completion of at least three habitat managements plans.

Wildlife habitat – A seasonal range or habitat element with which a given species has a primary association, and which, if altered, may reduce the likelihood that the species will maintain and reproduce over the long-term. These include areas of relative density or species richness, breeding habitat, winter range, and movement corridors. These also include habitats of limited availability or high vulnerability to alteration, such as cliffs, streams and wetlands.

Zone of Impact –The area of the subject property where the incident wave energy is distributed, in relation to the primary structure and primary appurtenances and the angle of the incident wave.

Zone of Influence – The zone of influence means an area usually upslope from a geologically hazardous area, where changes in land use and hydrology can affect the stability of the geologically hazardous area. The zone of influence is defined as 300 feet upslope from slopes

greater than forty percent (40%), and two hundred feet (200') upslope from slopes greater than 15 percent but less than 40 percent that are determined to be geologically hazardous areas.

Zoning – To designate by ordinance, including maps, areas of land reserved and regulated for specific land uses.

Comments from Commissioner Osmond on proposed amendments to SMP Chapter 4.1.5 Critical Areas, integrating the Critical Areas Ordinance (CAO) into the SMP. The referenced SMP page numbers come from the Public Comment version of the proposed SMP amendments that was posted for the May 24, 2018 Planning Commission public hearing.

Revisions to respond to comments in blue.

Staff notes in red.

1. SMP pg. 107, Section 4.1.5.1. First sentence, proposed addition at the end of the sentence: ~~“unless identified as exempt in BIMC 16.20.040 (CAO)”~~, **“unless listed as an allowed activity in Section 4.1.5.6, Section 4.1.5.9.10, or Section 4.1.5.12.7”** to make clear that if an area is exempt from being a critical area under the CAO, it is also exempt from being a critical area under the SMP. If this is not correct, it would be helpful to provide an explanation as to why the critical area exemptions under the CAO would not be the same under the SMP.

Staff recommends adding a section titled, “Allowed Activities within Critical Areas” after Policies (would be Section 4.1.5.6, subsequent sections would be renumbered). This section would include a subset of the exemptions listed in BIMC 16.20.040 (CAO). Activities that are listed exemptions in WAC 173-27-040 will not be included, since that is redundant. Section would read:

The following activities are allowed within critical areas and do not require review for compliance with critical area regulations. Any activity not subject to critical areas regulations that constitutes development pursuant to Section 8, Definitions, is subject to applicable review under this Program.

Exempt activities in BIMC 16.20.040 would be listed (see page 6).

2. SMP pg. 109, Section 4.1.5.5 Policies. I believe these policies should be CAO policies, and not general SMP policies, since Section 4.1.5 is the Critical Areas section of the SMP. The first policy would then read “Provide a level of protection to critical areas that protects, maintains and restores these areas, achieves no net loss of their functions and values and allows for reasonable use of public and private property.” This is consistent with CAO policy at BIMC 16.20.010 (A), Purpose and Intent. The 3rd policy on SMP pg. 110 does not pertain to critical areas and should be deleted. The 4th policy on SMP pg. 110 should replace the words “shoreline ecological function and process” with “critical area ecological functions and values.”

4.1.5.35 Policies

1. Provide a level of protection to critical areas that **protects, maintains and restores these areas, achieves no net loss of their functions and values and allows for reasonable use of public and private property** assures no net loss of shoreline ecological functions necessary to sustain shoreline natural resources.

1. Protect shoreline resource areas, including but not limited to critical areas, including:

a. Critical Aquifer Recharge Areas

b. Fish and Wildlife Habitat Conservation Areas

c. Frequently Flooded Areas

d. Geologically Hazardous Areas

e. Wetlands

f. Critical Saltwater and Freshwater Habitat Areas

g. Critical Habitat

2. Encourage development proposals to include elements of preservation, conservation, restoration, or enhancement of critical areas, including saltwater habitat and fish and wildlife conservation areas, through incentives and ecosystem-wide restoration planning.
3. Locate, design, construction, and manage all shoreline uses and activities in ways that assure no net loss of shoreline ecological functions and ecosystem-wide processes, and protect critical saltwater habitat, including fish and wildlife habitat conservation areas.
34. Locate and design shoreline uses, activities, and/or development to avoid risks to people and property. See also Section 3.0, Shoreline Designation Policies and Regulations, for additional provisions.
5. Ensure that proposed shoreline uses, activities and/or development proposed adjacent to critical areas or their buffers, will not adversely impact shoreline ecological functions and/or ecosystem-wide process or critical areas, fish and wildlife habitat conservation areas and critical saltwater habitat.
346. Promote and manage water-related shoreline uses and activities, such as public access and recreation, that are compatible with critical areas, provided they do not result in a net loss of critical area ecological functions and values shoreline ecological function and process. adversely impact ecological function.
7. Monitor critical areas, including critical saltwater habitats, and fish and wildlife habitat conservation areas, to assure that these areas are not being adversely impacted by approved development or restoration projects.

3. SMP pg. 116, Subsection 3. Development Standards-General (b) – do we need to add critical areas exemptions in the CAO here, for the reasons discussion in (1) above? **See (1), above.**

5. SMP pg. 122 – do we need to add CAO Section 16.20.110(E)(8)(b), regarding buffer width reductions, following the discussion of Buffer Modifications, to make the SMP consistent with the CAO?

Department of Ecology staff indicated that outright buffer reduction is not consistent with the SMA, so this provision was not included in the SMP. Ecology has determined that you cannot achieve the no net loss standard with straight buffer reduction.

6. SMP pg. 126 – do we need to add CAO Section 16.20.110(G) (9-11), regarding fencing and signs, forest practices and road and street repair and constructions, to make the SMP consistent with the CAO?

Additions to Section 4.1.5.9.10:

- g. Fencing and Signs. Prior to approval or issuance of permits for land divisions or other new development, the director may require that the common boundary between a required buffer and the

adjacent lands be identified using fencing or permanent signs. In lieu of fencing or signs, alternative methods of buffer identification may be approved when such methods are determined by the director to provide adequate protection to the buffer.

- h. Forest Practice, Class IV General and Conversion Option Harvest Plans (COHPs). All timber harvesting and associated development activity, such as construction of roads, shall comply with the provisions of this chapter, and the Stormwater Management standards in Chapters 15.20 and 15.21 BIMC, including the maintenance of buffers, where required.
- i. Road/Street Repair and Construction. Any private or public road or street expansion or construction which may be allowed in a Fish and Wildlife Habitat Conservation Area or its buffer shall comply with the following minimum development standards:
 - i. No other reasonable or practicable alternative exists and the road or street crossing serves multiple properties whenever possible;
 - ii. Expansion or construction of any private or public road shall only be allowed when adverse impacts can be avoided;
 - iii. Public and private roads should provide for other purposes, such as utility crossings, pedestrian or bicycle easements, viewing points, etc.; and
 - iv. The road or street construction is the minimum necessary, as required by the Department of Public Works, and shall comply with the Department of Public Works' guidelines to provide public safety and mitigated stormwater impacts.
 - v. Construction time limits shall be determined in consultation with Washington Department of Fish and Wildlife in order to ensure habitat protection.

7. SMP pg. 126 – do we need to add CAO Section 16.20.120 Frequently Flooded Areas to the SMP?

No. The CAO references BIMC 15.16, Flood Damage Prevention. The SMA does not require local SMPs to have a section on frequently flooded areas.

8. SMP pg. 127 – I suggest changing Paragraph 4 Regulations- General to Development Standards-General to make it consistent with the rest of the SMP.

4. Regulations – Development Standards General. The following development standards apply to all activities within any geologically hazardous area or associated landslide hazard area setback:

9. SMP pg. 132 Section 4.1.5 Regulations – Bluff Drainage – I suggest removing this as a separate section and including the text in the Development Standards-Landslide Hazard Areas section.

This section was left as-is (as a separate section) because it will most likely be revised when Section 4.1.6, Water Quality and Stormwater Management, is revised in the Phase 2 SMP Amendment. If this section moves to Section 4.1.6, it will be easier to move it if it is a separate section and not embedded within the landslide hazard areas section.

10. SMP pg. 137 – after c. Surface Water Management, do we need to add CAO Section 16.20.140(H)(4) regarding trails and trail related facilities, to make the SMP consistent with the CAO?

Additions to Section 4.1.5.12.7:

- d. Trails and Trail-Related Facilities. Construction of public and private trails and trail-related facilities, such as benches and viewing platforms, are allowed in wetlands or wetland buffers only when the following standards are met:
 - i. Trails and related facilities shall be placed on existing road grades, utility corridors, or any other previously disturbed areas if present at the site and consistent with trail planning objectives.
 - ii. Trails and related facilities shall be planned to minimize removal of trees, soil disturbance, and maintain existing hydrological characteristics, shrubs, snags, and important wildlife habitat.
 - iii. Viewing platforms and benches, and access to them, shall be designed and located to minimize disturbance of wildlife habitat and/or critical characteristics of the affected wetland. Viewing platforms shall be limited to one hundred (100) square feet in size, unless demonstrated through a wetland critical areas report and mitigation plan that a larger structure will not result in a net loss of wetland functions.
 - iv. Trail planning shall utilize mitigation sequencing in Section 4.1.2.6.1 to first avoid siting trail and trail-related facilities within wetlands and their required buffers. Trails and trail-related facilities are allowed within wetlands or wetland buffers if there are no reasonable alternatives for meeting an applicant's trail planning objectives and it is demonstrated through a wetland critical areas report and mitigation plan that the proposal will not result in a net loss of wetland functions.
 - v. Trails shall be limited to non-motorized use. Trail width shall not exceed six feet unless there is a demonstrated need, subject to review and approval by the director. Trails shall be constructed with pervious materials unless otherwise approved by the director.

11. SMP pg. 138 – prior to the Wetland Buffers section, do we need to add CAO Section 16.20.140(H)(6) regarding parks, to make the SMP consistent with the CAO?

Additions to Section 4.1.5.12.7:

- e. Parks. Development of public park and recreation facilities may be allowed; provided, that no alteration of wetlands or wetland buffers is allowed except as allowed in Section 4.1.5.6 (Allowed Activities within Critical Areas) and Section 4.1.5.12.7 (Allowed Activities within Wetlands).

12. SMP pg. 142 – do we need to add CAO Section 16.20.140(I)(8) regarding buffer width reduction, to make the SMP consistent with the CAO?

Department of Ecology staff indicated that outright buffer reduction is not consistent with the SMA, so this provision was not included in the SMP. Ecology has determined that you cannot achieve the no net loss standard with straight buffer reduction.

13. SMP pg. 146 – do we need to add CAO Section 16.20.140(J)(6) regarding monitoring to make the SMP consistent with the CAO?

No. Monitoring requirements for critical areas within the shoreline will use the SMP monitoring requirements, provided in Section 4.1.2.8, which was revised to reference critical area reports in

Section 4.1.5.14. There is no reason to have distinct monitoring requirements for critical areas vs. shoreline areas.

14. SMP pg. 148 – following the table, do we need to add CAO Section 16.20.160, regarding performance and maintenance sureties and compliance and enforcement, to the SMP to make it consistent with the CAO?

No. Performance and maintenance sureties, compliance, and enforcement for critical areas within the shoreline will use the SMP requirements, provided in Section 4.1.2.7 and Section 7.0, respectively. There is no reason to have distinct requirements for critical areas vs. shoreline areas.

Language in the fish and wildlife habitat conservation area and wetlands sections should be revised to clarify that some activities are allowed, but must follow certain standards. The CAO requires a minor critical area permit for these under the “standards for specific development, uses and activities” in each section. Since a critical area permit cannot be required in the shoreline jurisdiction, clarifying language is needed to allow these activities pursuant to these standards.

Proposed revised language for SMP Section 4.1.5.12.7:

Allowed activities within wetlands ~~Standards for specific development, uses and activities.~~ The following development, uses and activities may be allowed within wetlands and their required buffers. Any proposal for the following development shall comply with the standards **below of this Section** and other applicable state, federal and local regulations.

Proposed revised language for SMP Section 4.1.5.9.10:

Allowed activities within fish and wildlife habitat conservation areas. ~~Standards for specific development, uses and activities.~~ The following development, uses and activities may be allowed within fish and wildlife habitat conservation areas and their buffers. Any proposal for the following development shall comply with the standards **below of this Section** and other applicable state, federal and local regulations. The director may waive the requirement for a HMP when project impacts are demonstrated to be de minimis through mitigation sequencing pursuant to Section 4.1.2.6.

The following activities are allowed within critical areas and do not require review for compliance with critical area regulations. Any activity not subject to critical areas regulations that constitutes development pursuant to Section 8, Definitions, is subject to applicable review under this Program.

Existing BIMC 16.20.040, Exemptions, shown below. Strikethrough activities will not be included in the SMP because they are already listed exemptions per WAC 173-26-040.

1. ~~Emergency activities necessary to prevent an unanticipated and immediate threat to public health, safety or welfare or an immediate risk of danger to property which requires action within a time frame too short to allow compliance with this chapter. The person or agency undertaking such action shall notify the director within one working day following commencement of the emergency activity. Within 30 days, the director shall determine if the action taken was within the scope of the emergency actions allowed in this subsection. If the director determines that the action taken, or any part of the action taken, was beyond the scope of an allowed emergency action, then enforcement provisions of BIMC 16.20.170 shall apply.~~

~~After the emergency, the landowner shall fully fund and conduct necessary restoration and/or mitigation for any impacts to the critical area and buffers resulting from the emergency action in accordance with an approved critical areas report and mitigation plan. Restoration and/or mitigation activities must be initiated within one year of the date of the emergency and completed in a timely manner.~~

2. ~~Existing and ongoing agricultural activities. For the purpose of this chapter, "existing and ongoing" means the activity has been conducted and/or maintained within the past five years under a farm management plan or other best management practices not resulting in a net loss of critical area functions and values. New or expanded agricultural uses, activities, and accessory structures are not considered "existing and ongoing," unless specifically intended for animal manure management and located to avoid adverse impacts to critical areas and their buffers. Existing, ongoing agricultural activities shall comply with applicable water quality regulations set forth in BIMC 15.20 and utilize best management practices to protect and enhance water quality.~~
3. ~~Normal and routine repair and maintenance of existing structures that will not further impact or alter critical areas or buffers.~~
4. Normal and routine yard and garden activities including, but not limited to, cutting and mowing lawns, weeding, removal of noxious and invasive species, harvesting and replanting of garden plants and crops, incidental vegetable gardening, and pruning and planting of noninvasive ornamental vegetation, intended to maintain the general condition and extent of such areas; provided, that such activities are limited to legally existing yard and garden areas, do not further expand into critical areas or associated buffers, do not significantly alter topography, and do not diminish water quality or quantity. Normal and routine activities cannot result in a change to the location, size at the ground level or configuration of existing yard and garden areas. ~~Normal and routine activities do not include tree and vegetation activities pursuant to BIMC 16.20.090.B that require a critical area permit and city pre-approval.~~
5. ~~Normal and routine repair, maintenance and operation of existing retention/detention facilities, biofilters and other stormwater management facilities, irrigation and drainage ditches, and fish~~

~~ponds; provided, that such activities shall not involve conversion of any wetland not currently being used for such activity. Any maintenance of ponds located in fish and wildlife habitat conservation areas shall require approval from the Washington Department of Fish and Wildlife.~~

- ~~6. Normal and routine repair and maintenance of existing utility structures within a right-of-way or existing utility corridor or easement, including the cutting, removal and/or mowing of vegetation above the ground that utilizes best management practices and does not expand the use, activity or structure further into any critical area.~~
7. Class I, II and III forest practices regulated pursuant to Chapter 76.09 RCW.
8. Minor site investigative work. Work necessary for land use review submittals, such as surveys, soil logs, percolation tests, and other related activities, where such activities do not require a critical area clearing permit pursuant to BIMC 16.20.090 Section 4.1.3 or construction of new roads. In every case, impacts to the critical area shall be minimized and disturbed areas shall be immediately restored. Minor site investigative work may include educational and scientific research activities.
9. Activities within the improved right-of-way. Replacement, modification, installation, or construction of utility facilities, lines, pipes, mains, equipment, or appurtenances, when such facilities are located within the improved portion of the public right-of-way or easement of a private street, except those activities that alter a wetland or watercourse, such as culverts or bridges, or result in the transport of sediment or increased stormwater.
10. The installation of low impact fencing within critical area buffers provided the location does not result in restricting wildlife movement, the location and installation is the least impactful to the critical area and buffer as possible, and there is no alternative to fencing to achieve the purpose of the fence.
11. Signs for marking critical area boundaries, interpretive signs and survey markers or property boundaries.
12. Development, uses or activities within critical aquifer recharge areas that do not have the potential to generate a pollutant identified as a potential source of drinking water contamination pursuant to BIMC 16.20.100.B.3.b and are outside an Aquifer Recharge Protection Area (ARPA) if one has been designated pursuant to BIMC 16.20.100.E and any other critical area or its buffer or setback.

~~B. The following uses and activities qualify as exempt activities only after review and authorization by the city. These exempt activities do not require a critical area permit. Review and authorization may occur over the counter and will require a written letter of approval.~~

1. Activities within a portion of a wetland buffer or fish and wildlife habitat conservation area buffer separated from the critical area by an existing permanent substantial development, use or activity which serves to eliminate or greatly reduce the impact of the proposed activity on the critical area are exempt from establishing the full required buffer width; provided, that impacts to the critical area do not increase. The director shall review the proposal to determine the likelihood of associated impacts and may require the applicant to provide a critical areas report

prepared by a qualified professional that demonstrates through a site assessment or functional analysis that the interrupted buffer area is functionally isolated from the critical area. The director shall consider the hydrologic, geologic, and/or biological habitat connection potential and the extent and permanence of the physical separation.

- ~~2. Fish, Wildlife and Wetland Restoration Activities. Fish, wildlife, and/or wetland restoration or enhancement activities not required as project mitigation; provided, that the project is approved by the jurisdictional agency (Washington State Department of Fish and Wildlife, U.S. Army Corps of Engineers, or other appropriate local, state, federal, or tribal jurisdiction) or is consistent with the intent and purpose of this Chapter provided in BIMC 16.20.010.~~

NOTE: TRACK CHANGES REFLECT REVISIONS SINCE PLANNING COMMISSION'S LAST DISCUSSION BASED ON CONSULTATION WITH THE DEPARTMENT OF ECOLOGY, SOME REORGANIZATION AND CLARIFICATION FOR BETTER READABILITY, AND COMPLETION OF PROPOSED AMENDMENTS PER PLANNING COMMISSION'S INPUT.

4.2 General Use

4.2.1 Nonconforming Uses, Non-Conforming Lots, and Nonconforming Structures~~Existing Development~~

4.2.1.1 Applicability

This section applies to shoreline uses, lots, and ~~for~~ structures that were lawfully established or constructed prior to the effective date of the initial adoption of the ~~Master~~ this Program (November 26, 1996) or ~~its~~ amendments thereto, ~~but~~ and which do not conform to ~~present~~ current regulations or standards of ~~the Master~~ this Program. **This section does not apply to shoreline modification or shoreline stabilization.**

Nonconforming uses, lots and structures ~~Existing structures and uses that do not conform to this Program~~ are not required to meet this Program's ~~its~~ requirements, **unless new development or changes to a use, lot or structure** ~~or use~~ that would require review under this Program are proposed.

4.2.1.2 Definitions

A. Nonconforming Use. A nonconforming use means an existing shoreline use that was lawfully established prior to the effective date of this Program (November 26, 1996), ~~as amended~~, but which does not conform to present use regulations due to subsequent changes to the Program.

B. Nonconforming Lot. A nonconforming lot means a lot that met dimensional requirements of the applicable SMP at the time of its establishment (November 26, 1996), ~~as amended~~, but now contains less than the required width, depth or area due to subsequent changes in the Program.

C. Nonconforming Structures. A nonconforming structure means an existing structure that was lawfully constructed prior to the effective date of this Program (November 26, 1996), ~~as amended~~, but is no longer fully consistent with present regulations such as setbacks, buffers or yards; area; bulk; height or density standards due to subsequent changes to the Program.

4.2.1.3 Goal

It is the purpose of this ~~program~~ section to recognize legally established uses, lots, and structures ~~primary residential structures~~, and to allow them to be maintained, repaired, remodeled, replaced, and in some cases expanded, **in conformance with Section 4.2.1.5 through 4.2.1.8** of this Program with due regard to unique site conditions and property rights.

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It is further the purpose of this program A further goal is to ultimately, over time, have uses and commercial structures conform to the provisions current regulations and standards of this pProgram. Over time, uses and commercial structures that do not conform to the current regulations and standards of this pProgram should be phased out as uses cease or redevelopment of structures occurs.

1. Lawfully constructed commercial and industrial structures shall be allowed to be repaired, maintained, and remodeled provided that the alteration does not increase the nonconformity.
2. Once discontinued, reestablishment of nonconforming uses and nonconforming commercial structures located in the shoreline jurisdiction should be restricted or phased out over time.
4. Lawfully constructed residential structures may be expanded in some circumstances, provided the expansion will not result in adverse impacts to shoreline ecological functions and processes, and mitigation is provided.
4. 8. Provisions for reconstruction of a lawfully constructed residential house shall allow certain expansions of the existing structure when it can be demonstrated that the expansion will not result in adverse impacts to shoreline ecological functions and shoreline processes are mitigated or restored.
5. Redevelopment of nonconforming public rights-of-way and associated existing transportation structures may be permitted for purposes of facilitating essential public access, development of public trails and/or public shoreline access.

Commented [KM1]: I'm not sure of the value of this – what are we trying to say here?

4.2.1.5 Regulations – General

1. Nothing in this section shall be construed to prohibit any person from reconstructing, altering, or expanding any nonconforming structure, use, or activity in accordance with the provisions of this section.
2. Nonconforming uses shall not be altered or expanded in any way that increases the nonconformity. The reconstruction shall not cause adverse impacts to shoreline ecological functions and processes.
3. Nonconforming structures shall not be reconstructed, altered, or expanded in any way that increases the nonconformity.

4.2.1.6 Regulations - Nonconforming Uses

1. Nonconforming uses shall not be altered or expanded in any way that increases the nonconformity. The reconstruction shall not cause adverse impacts to shoreline ecological functions and processes.
2. Nonconforming uses shall not be altered or expanded in any way that increases the nonconformity.
3. A nonconforming use cannot be changed to another nonconforming use.
4. Change of ownership, tenancy, or management of a nonconforming use shall not affect its nonconforming status, provided that all provisions are met.

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4.2.1.7 Regulations – ~~Nonconforming Structures~~Existing Development

4.2.1.7.1 General Provisions – Nonconforming Structures

1. ~~All~~ Nonconforming structures may be maintained, repaired, renovated, remodeled, ~~expanded, or rebuilt, or, in some cases, expanded,~~ subject to the specific provisions of this Program.
2. ~~Changes to a structure that would alter or increase the nonconformity are not permitted. Nonconforming structures shall not be reconstructed, altered, or expanded in any way that increases the nonconformity.~~
3. No further encroachment into the shoreline buffer established in accordance with Section 4.1.3 is allowed unless permitted by this Program.
4. Any nonconforming structure that is relocated ~~relocation of a structure~~ must conform to regulations of this Program.
5. The enlargement or replacement of a structure shall not warrant new shoreline stabilization for the life of the new structure; and
6. A replacement structure, or portion thereof, must meet geologically hazardous provisions in Section 4.1.5.
7. A complete application for any reconstruction under this section must be submitted within two (2) years of the date of damage or removal and must include documentation of site conditions and building configuration existing immediately prior to the time the structure was demolished or destroyed. ~~Upon~~ approval of the application, redevelopment must be completed within one (1) year of the commencement of reconstruction. A one (1) year extension may be granted, provided that a written request is submitted no later than twenty-one (21) days prior to either deadline and provided that the owner is not responsible for the delay.

4.2.1.7.32 ~~Nonconforming Existing~~ Structures – Residential Single-Family: Primary Structures

1. ~~If a nonconforming primary residential structure is damaged or destroyed may be altered, expanded, or rebuilt pursuant to Section 4.2.1.7.2.2.~~
1. A nonconforming ~~a-existing~~ primary residential structure located within the shoreline buffer may be altered, expanded, or rebuilt, provided:
 - a. If an existing primary residential structure is damaged or destroyed by any means, it may be reconstructed to the same configuration and bulk dimensions existing immediately prior to the demolition or destruction.
 - b. Any enlargement or expansion of the building footprint configuration, including any new impervious surfaces, shall be located landward of the existing or original building footprint.
 - c. No enlargement or expansion shall be located within Zone 1 of the shoreline buffer.

- d. For structures not within the Point Monroe District or an encumbered lot, enlargement or expansion may be allowed as follows:
 - A. ~~Up~~ If the total footprint of any remaining portion of the existing primary structure, the proposed additional footprint, and any existing and proposed hard surfaces is less than or equal to four thousand square feet expansion is allowed with mitigation as required in the Single Family Shoreline Mitigation Manual.
 - B. If the total footprint of any remaining portion of the existing primary structure, the proposed additional footprint, and any existing and proposed hard surfaces is Ggreater than four thousand square feet ~~(including the existing structure and any new impervious surfaces)~~ expansion is allowed with submittal of a site-specific impact analysis and approval of a shoreline conditional use permit.
- ~~e. —Any enlargement or expansion shall not result in more than:~~
 - ~~i. —The allowed building area for Point Monroe District, Section 5.9.6(2).~~
 - ~~ii. —The allowed building area for encumbered lots, Section 4.2.1.7.~~
- f. No exceptional trees as defined in BIMC 16.18 ~~significant trees~~ shall be removed to accommodate the enlargement or expansion.
- ~~g. No significant trees shall be removed to accommodate the enlargement or expansion unless the Administrator determines all of the following are met:~~
 - ~~A. The healthy trees remaining on the property are able to maintain existing shoreline ecological function and processes.~~
 - ~~B. Reasonable and feasible alternatives that would allow for the preservation of the tree are not available.~~
 - ~~C. The use of mitigation sequencing pursuant to Section 4.1.2.6 is demonstrated prior to removal of the tree.~~
- h. Permitted expansion of a nonconforming structure shall not substantially impact the existing views of the water from primary residences or public rights-of-way to any greater degree than a fully conforming structure in accordance with Section 4.1.3.11.
- i. All other applicable standards and provisions are met, including regulations of this Program, the Bainbridge Island Municipal Code, the septic system requirements of the Kitsap Health District, and any state and federal laws.

4.2.1.7.53 ~~Nonconforming Existing~~ Structures – Residential: Accessory Structures

1. A nonconforming residential accessory structure or portion thereof may be reconstructed or altered in conformance with the ~~present~~ current regulations and standards of ~~the Master~~ this Program.

2. A ~~If a~~ nonconforming residential essential accessory structure or portion thereof is damaged or destroyed by any means, ~~it~~ may be reconstructed to the bulk dimensions existing immediately prior to the demolition or destruction.
3. ~~Shoreline modifications shall conform to Section 6.1, General Shoreline Modification Provisions, and Section 6.2, Shoreline Stabilization.~~

4.2.1.84 Regulations — ~~Nonconforming Existing Structures — Existing Residential and Commercial Structures; Aquatic Structures and Accessory Aquatic Overwater Structures~~

1. Existing docks, piers, floats, and buoys may be repaired and replaced in the same footprint and shall comply with this Program's requirements for materials and standards, to the extent practicable.
2. ~~Except that as a conditional use, an existing dock~~ Existing docks, piers, floats, and buoys may be modified, reoriented or altered within the same general location without a substantial development permit if the resulting structure is to be more consistent with the provisions of this Program's requirements for materials and standards.
2. ~~Except for docks and floats, repair and replacement up to 50% of the footprint of any existing aquatic structures, including shoreline modifications, or buildings or portions thereof within the Aquatic or Priority Aquatic designations, shall only be done once within any five year period. Such replacements shall comply with this Program's requirements for materials and standards to the extent practicable. If the structure is composed of several components, then the 50% shall be calculated independently for each component.~~

4.2.1.7.45 Nonconforming Existing Structures — Multifamily Residential: Primary Structures

1. A nonconforming primary multifamily residential structure, or any portion thereof, may be reconstructed, ~~altered, or expanded~~ only in conformance with the current regulations and standards of this Program, including provisions for public access (Section 4.2.4.6) and residential development (Section 5.9).
2. ~~If a~~ A nonconforming primary multifamily residential structure, or any portion thereof, that is damaged or destroyed by a natural catastrophic event, ~~it~~ may be reconstructed to the footprint and building height bulk dimension existing immediately prior to the catastrophic event, ~~including building height and footprint of the structure.~~

4.2.1.7.26 Nonconforming Existing Structures — Commercial and Industrial (Primary and Accessory)

1. ~~Reconstruction of a~~ Nonconforming existing commercial and industrial structures, or any portion thereof, demolished or destroyed by any means may be reconstructed only in conformance ~~shall be in conformance~~ with the current regulations and all standards of this Program; except, nonconforming commercial structures utilized

wholly for water-oriented uses may be reconstructed to the bulk dimension existing immediately prior to destruction by catastrophic event or intentional demolition.

4.2.1.87 ~~Regulations— Nonconforming Structures – Public Facilities & Transportation~~

1. Nonconforming public facilities shall be allowed to continue and to be repaired, maintained, or remodeled.
2. Redevelopment of nonconforming public rights-of-way and associated transportation structures are allowed for purposes of facilitating essential public access, development of public trails, and/or public shoreline access, provided that no other alternative is feasible and redevelopment shall be otherwise consistent with the provisions of this Program, including but not limited to the provisions for public access and no net loss of shoreline ecological functions and processes.

4.2.1.78 Regulations – Encumbered and ~~Encumbered and~~ Nonconforming Lots

1. Single-family development and redevelopment, except in the Point Monroe District, that is proposed on a nonconforming lot or proposed for a shoreline property that is significantly encumbered by critical areas, critical areas buffers or setbacks, or shoreline buffers ~~shoreline or critical area buffers~~, may be allowed without a shoreline variance when the following criteria are met:
 - a. If a lot contains a building area of 2,500 square feet or more that is unrestricted by critical areas, critical areas buffers or setbacks, or shoreline buffers, development of a single-family residence and normal appurtenances shall occur within that unrestricted building development area and comply with the provisions of this Program. The building development area means the entire area that will be disturbed to construct the home, normal appurtenances (except drainfields), and landscaping.
 - b. If a lot does not contain a building area of 2,500 square feet or more available for a single-family residence and normal appurtenances that is unrestricted by critical areas, critical areas buffers or setbacks, or shoreline buffers shoreline or critical area buffers, development shall meet the following provisions:
 - i. Landslide hazard provisions of Section 4.1.5, Critical Areas, ~~and Appendix B~~ and provide the maximum buffer dimension feasible for critical areas; and
 - ii. Provide a building development not to exceed 2,500 square feet with maximum lot coverage of 1,200 square feet. The building development area shall be located on the portion of the lot providing the maximum shoreline buffer dimension with consideration given to view; and
 - iii. All single-family residential development approved under this section shall meet the shoreline structure view setback provisions in Section 4.1.3.11, Regulations – Shoreline Structure Setback View Requirement; and

- c. The area between the structure and the shoreline and/or critical area shall comply with revegetation standards in Section 4.1.2.5(3), the vegetation conservation standards of Section 4.1.3, Vegetation Management, and provisions of Section 4.1.5 Critical Areas, ~~and Appendix B~~; and
- d. Development may not take place waterward of the ordinary high water mark; and
- e. Facilities such as a conventional drainfield system may be allowed outside of the ~~building development area~~ specified above, and allowed within buffer areas, except wetlands buffers. Such facilities shall ~~not be~~ located ~~closer than a minimum of 75ft feet to OHWM from the ordinary high water mark~~; and shall be subject to regulations of Section 4.1.5, Critical Areas.

Other sections related to nonconforming proposed for revisions based on public comment:

1.3.5.2 – Applicability of Bainbridge Island Shoreline Master Program

2. The provisions of ~~the~~ this Program apply to both existing and new development, uses, lots, and activities and are not retroactive. Development, uses, lots, and activities lawfully occurring, established or constructed prior to the effective date of the initial adoption of the Master Program (November 26, 1996) ~~shall not be subject to the provisions of the Master Program and are not required to meet the Master Program's~~ requirements, unless new development or changes to a development, use, lot or structure or use that would require review under this Program are proposed. All existing legally constructed single-family residences and accessory structures, including lawns, landscaping and recreation areas, which do not meet the adopted standards of this Shoreline Master Program are allowed to continue, and may be maintained, repaired, and remodeled if destroyed or damaged by natural causes as provided in Section 4.2.1 Nonconforming Uses, Nonconforming Lots, and Existing Development. Residences may be expanded, provided the expansion meets the provisions of this Program, including addressing environmental impacts and meeting the standard for no net loss of ecological functions and ecosystem-wide processes as provided in Section 4.1.2, Environmental Impacts. All proposed uses and development occurring within shoreline jurisdiction must conform to Chapter 90.58 RCW, the Shoreline Management Act and this Shoreline Master Program. All uses, even those not meeting the definition of development, are subject to the provisions and development regulations of this Shoreline Master Program, even though a permit may not be required.

4.0.1. – Regulations, General

7. Where provisions of this Master Program or other provision in BIMC conflict, the more restrictive provisions shall apply unless specifically stated otherwise.

Proposed language:

Where provisions of this Master Program or other provision in BIMC conflict, liberal construction pursuant to RCW 90.58.900 shall apply to give full effect to the objectives and purposes of the Act.

4.2 General Use

4.2.1 Nonconforming Uses, Non-Conforming Lots, and Existing Development

4.2.1.1 Applicability

This section applies to shoreline uses and/or structures that were lawfully established or constructed prior to the effective date of the initial adoption of the Master Program (November 26, 1996) or its amendments, but which do not conform to present regulations or standards of the Master Program.

4.2.1.2 Goal

It is the purpose of this program to recognize legally established primary residential structures, and to allow them to be maintained, repaired, remodeled, replaced and in some cases expanded in conformance with these rules. Residential structures that do not conform to this program should, over time, as the owner proposes changes to the structure, conform as completely as possible to this program, with due regard to unique site conditions and property rights.

It is further the purpose of this program to ultimately, over time, have uses and commercial structures conform to the provisions of this program. Over time, uses and commercial structures that do not conform to the standards of this program should be phased out as uses cease or redevelopment of structures occurs.

Note: Existing structures and uses that do not conform to this Program are not required to meet its requirements, unless the owner proposes changes to a structure or use that would require review under this Program.

4.2.1.3 Policies

1. Lawfully constructed commercial and industrial structures shall be allowed to be repaired, maintained, and remodeled provided that the alteration does not increase the nonconformity.
2. Lawfully constructed structures, established uses, public facilities, transportation structures, and/or lots of record located within the shoreline jurisdiction prior to the effective date of the Master Program but which do not conform to the present policies, regulations or standards, shall be allowed to continue and be repaired and maintained.
3. Lawfully constructed residential structures may be repaired, maintained and remodeled provided the alteration meets the goals and provisions of this program.
4. Lawfully constructed residential structures may be expanded in some circumstances, provided the expansion will not result in adverse impacts to shoreline ecological functions and processes, and mitigation is provided.
5. Once discontinued, re-establishment of nonconforming uses located in the shoreline jurisdiction shall be restricted.
6. Lawfully constructed commercial structures that are located in the shoreline jurisdiction are to be phased out over time. Depending on the extent and intensity of the

nonconformity, a primary residential structure and primary appurtenance, may be allowed certain alteration or expansion, provided that adverse impacts to shoreline ecological functions and shoreline processes are mitigated or restored.

7. Lawfully constructed structures that are destroyed by fire, explosion, flood, or other casualty may be restored or replaced without increasing or expanding the nonconformity, and are encouraged to decrease nonconformity. Legally established overwater structures that are destroyed may be reconstructed to the same size, but the configuration may be altered to reduce the impact to the shoreline environment provided the size of the nonconformity is not increased. Such redevelopments may be permitted provided that impacts to shoreline functions and processes are mitigated or restored, and the reconstruction application is submitted within two years of the date of destruction.
8. Provisions for reconstruction of a lawfully constructed residential house shall allow certain expansions of the existing structure when it can be demonstrated that the expansion will not result in adverse impacts to shoreline ecological functions and shoreline processes are mitigated or restored.
9. Legally created nonconforming lots of record may be developed provided that adverse impacts to shoreline ecological functions and shoreline processes are mitigated or restored.
10. Redevelopment of nonconforming public rights-of-way and associated existing transportation structures may be permitted for purposes of facilitating essential public access, development of public trails and/or public shoreline access.

4.2.1.4 Regulations – General

1. Nonconforming uses and developments and/or existing buildings and structures that were lawfully constructed or existed prior to the effective date of initial adoption of this Program (November 26, 1996), or its amendments, but which do not meet the specific standards of this Program, may be continued subject to the provisions of this section; provided that shoreline modifications shall conform to Section 6.1, General Shoreline Modification Provisions, and Section 6.2, Shoreline Stabilization.
2. A complete application for any reconstruction under this section must be submitted within two (2) years of the date of damage or removal, and upon approval of the application, redevelopment must be completed within one (1) year of the commencement of reconstruction. A one (1) year extension may be granted, provided that a written request is submitted no later than twenty-one (21) days prior to either deadline and provided that the owner is not responsible for the delay.
3. An existing use designated by the adoption of an applicable amendment hereto as a conditional use that lawfully existed prior to the adoption of the Program or the adoption of an applicable amendment hereto and which has not obtained a conditional use permit, shall be considered a legal nonconforming use and may be continued subject to the provisions of this section without obtaining a conditional use permit.
4. A structure for which a variance has been issued but which does not comply with applicable requirements of this Program as amended shall be considered a legal existing structure and the requirements of this section shall apply.

5. Any permitted remodel or expansion shall not cause adverse impacts to shoreline ecological functions and/or processes.

4.2.1.5 Regulations - Nonconforming Uses

1. Nonconforming uses shall not be altered or expanded in any way that increases the nonconformity.
2. If a nonconforming use is discontinued for twelve (12) consecutive months, any subsequent use shall be conforming; except that if a nonconforming use is operated within a nonconforming structure that is accidentally damaged or destroyed and reconstruction is proposed under Section 4.2.1.6.1(3), then the use may be re-established within the same time period as the reconstruction for the nonconforming structure pursuant to Section 4.2.1.4(2)
3. A nonconforming use cannot be changed to another nonconforming use.
4. Change of ownership, tenancy, or management of a nonconforming use shall not affect its nonconforming status, provided that all provisions are met.

4.2.1.6 Regulations – Existing Development

4.2.1.6.1 General Provisions – Nonconforming Structures

1. Existing structures may be maintained, repaired, renovated, or remodeled provided all the following is met:
 - a. Changes to the structure that would alter or increase the nonconformity are not permitted;
 - i. Any vertical or horizontal extension of a wall must meet the provisions of this program.
 - ii. Adding to the footprint of an existing structure is permitted as long as the addition meets the requirements of this program.
 - b. There is no further encroachment into the buffers unless allowed by this program or through an approved variance;
 - c. Renovations or remodels are entirely contained within the building;
 - d. If moved, the structure shall be made to conform to regulations of this program.
2. If an existing primary structure is damaged or destroyed by fire, explosion, earthquake, flooding or other casualty, it may be reconstructed to the bulk dimension existing immediately prior to the catastrophic event, provided the use is conforming or meets the provisions of Section 4.2.1.4, Regulations-General, and 4.2.1.5, Regulations – Nonconforming Uses, above.

- a. This provision shall not apply to structures that are destroyed due to a criminal act initiated by the property owner; and
- b. The replacement structure shall not warrant new shoreline stabilization for the life of the new structure.
- c. The replacement structure meets geologically hazard provision for existing development in Section 4.1.5, Regulations – [Nonconforming Uses](#), and Appendix B.

4.2.1.6.2 Existing Structures – Commercial and Industrial (Primary and Accessory)

1. Existing commercial structures shall not be altered or expanded in any way that increases the nonconformity without first obtaining a variance.
2. Reconstruction of existing commercial structures and buildings intentionally demolished or destroyed in any other manner than described in Section 4.2.1.6.1(2), shall be in conformance with all standards of the Program.

4.2.1.6.3 Existing Structures – Residential Single-Family: Primary Structures

1. If an existing primary residential structure is damaged or destroyed as described in Section 4.2.1.6.1(2), the existing primary residential structure configuration may be altered or expanded pursuant to subsections 4.2.1.6.3(2-4).
2. An existing primary residential structure may be altered or expanded to the extent allowed by this Program, provided:
 - a. Enlargement or expansion of the building configuration, including any new impervious surfaces located within the Shoreline Buffer shall be located landward of the existing or original building footprint, only one such expansion may occur within the lifetime of the development, and the expansion shall not exceed:
 - i. The allowed building area for Point Monroe District, Section 5.9.6(2).
 - ii. The allowed building area for encumbered lots, Section 4.2.1.7.
 - iii. For structures not meeting i or ii; twenty five percent (25%) of the existing building footprint.
 - b. Any vertical expansion must meet height requirements of this Program;
 - c. Remnant foundation and/or impervious surfaces located within the Shoreline Buffer shall be removed;
 - d. Mitigation of the shoreline buffer is provided in accordance with Section 4.1.2, Environmental Impacts;
 - e. The remodel or expansion shall not cause adverse impacts to shoreline ecological functions and/or processes; and
 - f. All other applicable standards and provisions are met, including regulations of this Program, the Bainbridge Island Municipal Code, the septic system requirements of the Kitsap Health District, and any state and federal laws.

3. Permitted expansion of an existing structure shall not substantially impact the existing views of the water from primary waterfront residences or public rights-of-way to any greater degree than a fully conforming structure.
4. Increases in structure footprint outside of the Shoreline Buffer shall be allowed, even if all or a portion of the existing footprint is within the Shoreline Buffer. In such case, the addition or enlargement shall be treated as a separate building or structure in determining conformity to all of the requirements of this Program.

4.2.1.6.4 *Existing Structures – Multifamily Residential: Primary Structures*

1. If an existing primary multifamily residential structure is damaged or destroyed by fire, explosion, earthquake, flooding or other casualty, it may be reconstructed to the bulk dimension existing immediately prior to the catastrophic event, including building height and footprint of the structure.
 - a. This provision shall not apply to structures that are destroyed due to a criminal act involving the property owner; and
 - b. The replacement structure shall not warrant new shoreline armoring for the life of the new structure; and
 - c. The reconstruction shall not cause adverse impacts to shoreline ecological functions and processes.
 - d. The replacement structure meets geologically hazard provision for existing development in Section 4.1.5, Critical Areas, and Appendix B.
2. An existing primary multifamily residential structure or portion thereof may be reconstructed, altered, or expanded, including the footprint and/or the height increased, to the extent allowed by this Program, if the following are met:
 - a. Public access is provided pursuant to Section 4.2.4.6, Regulations – Public Access Design and Location Standards; and
 - b. Mitigation of the shoreline buffer is provided to meet no net loss, as detailed in Section 4.1.2, Environmental Impacts, including revegetation standards in Section 4.1.2.5(3).

4.2.1.6.5 *Existing Structures – Residential: Accessory Structures*

1. If an existing residential accessory structure is damaged, destroyed or intentionally demolished, the reconstruction shall be in conformance with all standards of the Program, except:
 - a. An existing essential single family residential accessory structure may be reconstructed as follows:
 - b. Replacement structure is the same bulk dimension as the existing structure.
 - c. Replacement structure may be located within Zone 2 provided mitigation occurs in accordance with 4.1.2.5, Regulations – Revegetation Standards.

- d. Attached decks essential to a single family residence may be replaced in the same location.
- e.. All other applicable standards and provisions are met, including regulations of this Program, the Bainbridge Island Municipal Code, the septic system requirements of the Kitsap Health District, and any state and federal laws.

4.2.1.7 Regulations – Encumbered and Nonconforming Lots

1. Single-family development and redevelopment, except in the Point Monroe District, that is proposed on a legal nonconforming lot located in the shoreline jurisdiction or proposed for a shoreline property that is significantly encumbered by shoreline or critical area buffers, may be allowed without a shoreline variance when the following criteria are met:
 - a. A lot contains a building area of 2,500 square feet or more available for a single-family residence and normal appurtenances and unrestricted by buffers from shorelines or critical areas shall comply with the provisions of this Program. The building area means the entire area that will be disturbed to construct the home, normal appurtenances (except drainfields), and landscaping; or
 - b. A lot that does not meet the requirement of subsection 1.a above, shall meet the following:
 - i. Landslide hazard provisions of Section 4.1.5, Critical Areas, and Appendix B and provide the maximum buffer dimension feasible for critical areas; and
 - ii. Provide a building area not to exceed 2,500 square feet with maximum lot coverage of 1,200 square feet. The building area shall be located on the portion of the lot providing the maximum Shoreline Buffer dimension with consideration given to view; and
 - iii. All single-family residential development approved under this section shall meet the shoreline structure view setback provisions in Section 4.1.3.11, Regulations – Shoreline Structure Setback View Requirement; and
 - c. The area between the structure and the shoreline and/or critical area shall comply with revegetation standards in Section 4.1.2.5(3), the vegetation conservation standards of Section 4.1.3, Vegetation Management, and provisions of Section 4.1.5 Critical Areas, and Appendix B; and
 - d. Development may not take place waterward of the ordinary high water mark; and
 - e. Facilities such as a conventional drainfield system may be allowed outside of the building area specified above, and allowed within buffer areas, except wetlands buffers. Such facilities shall not be located closer than 75ft to OHWM; and shall be subject to regulations of Section 4.1.5, Critical Areas.

4.2.1.8 Regulations – Nonconforming Public Facilities & Transportation

1. Nonconforming public facilities shall be allowed to continue and to be repaired, maintained, or remodeled.

2. Redevelopment of nonconforming public rights-of-way and associated transportation structures are allowed for purposes of facilitating essential public access, development of public trails, and/or public shoreline access, provided that no other alternative is feasible and redevelopment shall be otherwise consistent with the provisions of this Program, including but not limited to the provisions for public access and no net loss of shoreline ecological functions and processes.

4.2.1.8 Regulations - Existing Residential and Commercial: Aquatic Structures and Accessory Aquatic Structures

1. Existing docks floats, and buoys may be repaired and replaced in the same foot print and shall comply with this Program's requirements for materials and standards, to the extent practicable.
 - a. Except that as a conditional use, an existing dock may be modified, reoriented or altered within the same general location to be more consistent with the provisions of this Program.
2. Except for docks and floats, repair and replacement up to 50% of the footprint of any existing aquatic structures, including shoreline modifications, or buildings or portions thereof within the Aquatic or Priority Aquatic designations, shall only be done once within any five year period. Such replacements shall comply with this Program's requirements for materials and standards to the extent practicable. If the structure is composed of several components, then the 50% shall be calculated independently for each component.
3. The replacement shall meet Section 4.1.2, Environmental Impacts, including the mitigation sequencing standards of Section 4.1.2.6, Regulations-Mitigation, to meet the standard of no net loss of shoreline ecological functions and/or processes. Shoreline stabilization shall also meet the alternative analysis provision of Section 6.2.8(1).

DESIGN GUIDELINES FOR RESIDENTIAL SUBDIVISIONS – August 30, 2018

Topic	Design Guideline
	Words/phrases in bold will have a definition in Title 17.
Island Character	Intent: Preserve and maintain Island character. Guideline: Subdivisions should reflect the special character of the island which includes downtown Winslow's small town atmosphere and function, neighborhood centers, historic buildings, extensive forested areas, meadows, farms, marine views and access, and scenic and winding roads supporting all forms of transportation.
Neighborhood Context	Intent: To reflect and/or enhance the context provided by existing roadway character and neighboring properties. Guideline: Site design should support the purpose of the zoning district in which the development is located, complement the existing character of specific neighborhoods, provide continuity with adjoining properties and, where necessary, provide transition between land uses and protect privacy of residents on adjacent properties.
Natural Area	Intent: To incorporate forested and/or other natural areas into site design in such a way that ecological and aesthetic integrity, qualities, and values are preserved or restored. Guideline: The required natural area shall be treated as a feature intrinsic to the subdivision design in order to maintain existing on- and off-site ecological processes and provide an asset of value to subdivision residents.
Natural Site Conditions	Intent: To preserve and integrate existing natural site patterns and features throughout the site. Guideline: Site development should be designed to preserve and integrate the natural conditions of the site, including existing topography, native trees and vegetation, drainage patterns, and ecological features based on an inventory and analysis of existing conditions. Homesite and infrastructure placement should complement natural topography and retain native vegetation to the maximum extent feasible.
Historic and Cultural Resources	Intent: To preserve important historic and cultural resources. Guideline: Site design should maximize opportunities for preserving historic and cultural structures, and retain historic landscape features and connections.
Stormwater	Intent: Integrate stormwater facilities in site design with emphasis on infiltration and dispersion practices. Guideline: Stormwater facilities shall utilize existing drainage patterns and be designed as a site amenity, where feasible. Low impact development practices shall be used throughout the site to minimize the size of ponds or vaults. Open stormwater facilities (ponds and bioswales) shall provide a natural appearance through layout, design and landscape treatment, including shallow side slopes, curvilinear configuration, and use of native vegetation.
Septic Systems	Intent: To minimize impact of septic facilities. Guideline: Design and locate sewage facilities to minimize site disturbance and native vegetation removal and utilize shared systems where feasible.

Topic	Design Guideline
Water Conservation	Intent: To protect the Island’s finite groundwater resources and adapt to the impacts of a changing climate. Guideline: Water conservation measures shall be considered in site design including use of native and drought tolerant vegetation, rainwater capture, and water reuse.
Community Space	Intent: To promote a shared sense of community. Guideline: Community spaces should function as an integral part of the development and be located adjacent to as many homesites as is feasible.
Cluster Homesites	Intent: To promote interaction within the community and facilitate the efficient use of land by reducing disturbed areas, impervious surfaces, utility extensions and roadways. Guideline: Homesites shall be located in cluster groupings and, to the extent feasible, the efficient location of infrastructure shall be used to maximize the undeveloped area.
Solar Access	Intent: To provide solar access for wellbeing and energy production. Guideline: Site design, including street, lot, and homesite layout and orientation, should allow for passive and active solar access. Massing of buildings, tree retention, and introduced vegetation should take into account the effects of shade.
Access and Circulation	Intent: To provide a practical and pleasant network of multi-modal circulation. Guideline: Adequate provisions for pathways and other pedestrian/bicycle amenities connecting various parts of the development, the surrounding road or trail network, and adjacent parcels should be included in site design.
Motor Vehicles	Intent: To minimize the prominence of motor vehicle use and storage. Guideline: Site design and features related to motor vehicle use and storage should be minimized. Site design shall consider shared driveways, minimum road widths, traffic calming measures such as Woonerfs and chicanes, and shared or clustered parking areas or structures.
Homesite Design	Intent: To efficiently configure building footprint(s) and allowed uses within a homesite. Guideline: Homesite configuration should consider compact and energy-efficient home and site design with massive houses on small lots strongly discouraged.
Diversity in House Design	Intent: To provide a range of home sizes and designs to achieve diversity in visual appearance and affordability. Guideline: House designs should be varied in size, massing, and frontage character using methods such as varied floor plans, staggered front yard setbacks, building modulation, and changes in exterior materials. Houses should display shared architectural features to establish continuity and harmony.
Facing Public Streets	Intent: To reinforce neighborliness of homes along a public street. Guideline: Houses along interior public streets should orient the entry toward the street and avoid the use of solid walls and fences. Garages along the front façade should be de-emphasized by recessing vehicular entrances or locating the garage behind or on the side of the house.

RED TEXT: PROPOSED CHANGES

BLACK TEXT: EXISTING LANGUAGE TO BE RETAINED

17.12.040 General residential subdivision standards.

All residential short, long, and large lot subdivisions shall comply with the following standards.

Standards to be included in dimensional standards table (some standards will vary by zoning district):

Percent natural area

Percent community space

Shared parking (size of structure, maximum number of cars)

Maximum impervious surface coverage

Home size (MUTC only)

Setbacks

Lot areas

Homesite area

Homesite separation

Architectural diversity

A. All subdivisions shall comply with BIMC 17.12.040 Table 1, Subdivision Dimensional Standards and applicable sections of BIMC Titles 16 and 18. Compliance with BIMC Titles 16 and 18 and RCW Title 58. Lot areas, dimensions, and other characteristics shall comply with the requirements of BIMC Title 18 applicable to the zone district where the land is located, including landscaping and/or vegetated buffers. In addition, each subdivision plat shall comply with all applicable provisions of RCW Title 58 (Boundaries and Plats) or its successors. Subdivisions including sensitive areas or their required buffers shall also comply with the provisions of BIMC 17.12.060.

B. Natural Area Required. All residential subdivisions shall provide natural area consistent with BIMC 17.28, Definitions, BIMC 17.12.040 Table 1, Subdivision Dimensional Standards, Preferred Natural Area Table, and the following standards:

Insert.

C. Community Space Required. All residential subdivisions shall provide natural area consistent with BIMC 17.28, Definitions, BIMC 17.12.040 Table 1, Subdivision Dimensional Standards, and the following standards:

Insert.

D. Homesites Required. All single-family residential subdivisions require homesites located and designed consistent with BIMC 17.28, Definitions, and BIMC 17.12.040 Table 1, Subdivision Dimensional Standards, and the following standards:

1. Homesite Clustering. The purpose of clustering is to facilitate the efficient use of land by reducing disturbed areas, impervious surfaces, utility extensions and roadways. Homesites shall be located in cluster groupings and the efficient location of infrastructure shall be used to maximize the undeveloped area.

a. Four or more homesites shall constitute a cluster grouping in a long subdivision, and two or more homesites shall constitute a cluster grouping in a short subdivision.

b. All homesites in a cluster grouping shall adjoin or be located the maximum distance apart from another homesite provided in 17.12.040 Table 1, Subdivision Dimensional Standards.

c. The city encourages design of homesite cluster groups that create open areas large enough to accommodate crop agriculture, when such areas are created. The applicant shall record covenants making it clear to lot buyers that crop agriculture may take place on the open areas.

d. Homesite cluster groups shall be located to minimize adverse impacts to adjacent, previously existing residential development.

e. The location of homesite cluster groups is not required to be located near any existing home on the property.

2. Homesite Area.

a. The homesite area shall include the primary residential dwelling, accessory buildings, and on-site parking, if provided for each lot within the subdivision.

b. Other allowed uses and structures include residential landscaping, pathways, and turf; individual water, stormwater, and septic infrastructure; and fences.

c. Homesites shall not contain any critical areas or their buffers or setbacks, shoreline buffers, or any portion of required natural areas.

~~B. Homesites. Residential homesites shall be located consistent with the design standards of BIMC Title 17 and Chapter 18.12 BIMC.~~

E. Water Supply Systems. Locations of individual or community water supply systems and associated wellhead protection areas required by the ~~Kitsap Public Health District health district~~ shall comply with all applicable standards established by the health district.

F. Septic Systems. Locations of individual or community drainfields and associated reserve drainfields shall comply with all applicable standards established by the ~~Kitsap Public Health District health district~~ or Washington Department of Health. Reserve drainfield areas shall remain undisturbed until such time their use is required. This standard shall be noted on the face of the preliminary and final plat.

G. Stormwater Systems.

Prohibit standard ponds in natural area/community space.
Stormwater ponds (shape, slope)

H. ~~Roads Streets and Pedestrian Vehicle~~ Access.

1. Subdivisions shall comply with all applicable standards of the "City of Bainbridge Island Design and Construction Standards and Specifications," unless modified within this subsection or by the City Engineer.

2. Public and private streets within subdivisions with 20 or fewer lots shall meet the requirements of Table 7.2 "Optional Suburban Street Requirements" of the "City of Bainbridge Island Design and Construction Standards and Specifications," unless modified within this subsection or by the City Engineer or Fire Marshal.

3. Public streets within subdivisions with more than 20 lots shall meet the requirements of Table 7.1 "Street Requirements" of the "City of Bainbridge Island Design and Construction Standards and Specifications," unless modified within this subsection or by the City Engineer or Fire Marshal.

4. Each lot in a residential subdivision shall have direct access to a public or private street, except for those with shared driveways or alternative lot designs that provide shared or clustered parking outside of individual lots.

5. Deviations from the “City of Bainbridge Island Design and Construction Standards and Specifications” may be granted by the City Engineer upon evidence that such deviations are in the public interest and that they are based on sound engineering principles and practices. All requirements for safety, function, appearance and maintainability must be fully met. Desired deviations must be requested during the pre-application phase of the project.

6. The street system of proposed subdivisions shall be designed to connect with existing, proposed, and planned streets outside of the subdivision. Wherever a proposed development abuts unplatted land or other land with the capability of being further subdivided, street stubs shall be provided to allow access to future abutting subdivisions if deemed practicable by the City Engineer.

7. Interior street layout shall be oriented on the east/west axis, if feasible, to maximize active and passive solar access.

8. To minimize impervious surfaces, public rights-of-way, access easements, private streets, and driveways shall not be greater than the minimum dimensions required to meet standards.

9. Street names and traffic regulatory signs shall be provided, and their locations shall be indicated on the plat/plan. The location of mailboxes and traffic regulatory signs is only required to be indicated on the plat/plan when other public improvements are required.

10. Transit stops shall be provided as recommended by Kitsap Transit.

I. Parking and Garages.

1. Parking shall be provided consistent with BIMC 18.15.010.XX and BIMC 17.12.040 Table 1, Subdivision Dimensional Standards except as modified by this subsection.

2. Parking may be located outside of individual homesites in individual or shared garages. Parking located outside of homesites is limited to five spaces.

3. Garages located on individual homesites facing a public street are limited to two vehicles.

J. Multi-Modal Access.

1. ~~Pedestrian and bicycle~~ Multi-modal circulation and access within a subdivision and onto the site shall be provided through walkways, paths, sidewalks, or trails. Special emphasis shall be placed on providing ~~pedestrian~~ non-vehicular access to proposed natural areas and/or community spaces.

2. Multi-modal facilities shall be consistent with the applicable standards of the “City of Bainbridge Island Design and Construction Standards and Specifications.”

3. Subdivision layout shall consider providing dedicated access easements if one or more “trail connection zones” are located on the site as shown on Map C and D (Non-Motorized System Plan) of the Island-Wide Transportation Plan.

4. Pursuant to RCW 58.17.110(1) sidewalks shall be provided, where necessary, to assure safe walking conditions for students who walk to and from school. Special emphasis shall be placed on providing pedestrian access to proposed recreational and/or open space areas.

K. Fencing.

1. Solid board fencing is prohibited at the exterior boundary of a subdivision along a public right of way.

2. Fencing at the exterior boundary of a subdivision along a public right of way shall not exceed 3 feet, 6 inches in height.

3. Fencing around surface stormwater ponds shall not exceed 3 feet, 6 inches in height unless required by the city engineer for safety reasons.

K. Landscaping.

Minimum amount of native vegetation in homesite or lot landscaping, maximum amount of turf allowed, native vegetation requirement in roadside and perimeter buffers.

Roadside buffer required.

Perimeter buffer required.

L. Architectural Diversity.

F. No City Maintenance of Streets in Short Subdivisions. Streets within a short subdivision shall not be maintained by the city unless such streets have been dedicated as a right-of-way, improved to current city standards, and accepted as part of the approved short subdivision. Therefore, unless accepted, the responsibility for maintenance shall lie with the owners of the lots.

G. Improvements.

1. Where the buildout of a subdivision is divided into phases, land dedications and infrastructure development will be required on a pro rata basis as each phase is developed unless the applicant negotiates an alternative phasing schedule with the city. This will be required to be documented on a plat note.
2. On any approved large lot, no further lot divisions shall be approved until the required improvements are installed by the applicant and approved by the city.
3. All large lot subdivisions shall have the following improvements developed and/or installed prior to recording:
 - a. Streets shall be cleared, grubbed, and rocked or graveled to provide adequate year-round passage.
 - b. Appropriate drainage, including erosion control, facilities shall be provided consistent with a plan approved by the city engineer prior to clearing and construction of any plat improvements. (Ord. 2017-02 § 20, 2017; Ord. 2011-02 § 2 (Exh. A), 2011)

Chapter 17.28

DEFINITIONS

****All existing text****

Sections:

17.28.010 Rules of construction.

17.28.020 Definitions.

17.28.010 Rules of construction.

Rules of construction shall be those listed in BIMC 18.36.010. (Ord. 2011-02 § 2 (Exh. A), 2011)

17.28.020 Definitions.

1. “Arterial” means a major thoroughfare used mainly for through traffic rather than access to nearby property. Arterials have greater traffic-carrying capacity than collector or local streets and are designed for continuously moving traffic.
2. “Block” means a group of lots, tracts or parcels within well defined and fixed boundaries.
3. “Buffer” means as defined in Chapter 18.36 BIMC.
4. “Circle template” means as defined in Chapter 18.36 BIMC.
5. “Cluster development” means a group of adjoining homesite areas situated in a suitable area of a property, designed in such a manner that facilitates the efficient use of land by reducing disturbed areas, impervious surfaces, utility extensions and roadways, while providing for the protection of valued open space features.
6. “Cluster grouping” means a grouping of two or more homesite areas for short subdivisions and a grouping of four or more homesites for long subdivisions regulated by BIMC 17.12.030.B.
7. “Code” means the City of Bainbridge Island Municipal Code.
8. “Collector” means a collector road as defined in the city of Bainbridge Island comprehensive plan.
9. “Comprehensive plan” means as defined in Chapter 18.36 BIMC.
10. “Contiguous land” means land adjoining and touching other land regardless of whether or not portions of the parcels have separate tax numbers, or were purchased at different times, in different sections, are in different government lots or are separated from each other by public or private easement or right-of-way.
11. “Critical areas,” as used in this title, means critical areas and their protective buffers as described by Chapter 16.20 BIMC.
12. “Dedication” means the deliberate assignment of land by an owner for any general and public uses, reserving to the owner no other rights than such as are compatible with the full exercise and enjoyment of the public uses to which the property has been devoted. The intention to dedicate shall be evidenced by the owner by the presentment for filing of a final plat of a short or long subdivision, a large lot subdivision, or a nonresidential or multifamily subdivision showing the dedication. Acceptance of the filing shall be by approval of the final plat by the city.
13. “Department” means as defined in Chapter 18.36 BIMC.
14. “Director” means as defined in Chapter 18.36 BIMC.

15. “Division” means a portion of property within an approved preliminary subdivision that is authorized to be recorded separately by the specific terms and conditions of the preliminary and/or final subdivision approval.
16. “Easement” means a right of use granted by a property owner to specific persons or to the public for use of land for a specific purpose.
17. “Farms” and “farmland” mean land used for crop agriculture or livestock agriculture, as those terms are defined in Chapter 18.36 BIMC.
18. “Final subdivision” or “final plat” means the final drawing of the subdivision and dedication prepared for filing for record with the county auditor and containing all elements and requirements set forth in Chapter 58.17 RCW or its successors and the Bainbridge Island Municipal Code.
19. “Flexible lot design” is the design process the city uses that permits flexibility in lot development and encourages a more creative approach than traditional lot-by-lot subdivision. The flexible lot design process includes lot design standards for the placement of buildings, use of open spaces and circulation that best addresses site characteristics. This design process permits clustering of lots, with a variety of lot sizes, to provide open space, maintain Island character and protect the island’s natural systems.
20. “Footprint” means a building footprint as defined in BIMC 18.12.050.
21. “Greenway” means a system composed of land areas and connector links. The land areas include, but are not limited to: large open areas, public lands, farmlands, critical areas, forests, shoreline areas, and parks. The features of the connector links include trail systems, riparian areas, visual or scenic views of ridgelines, wildlife corridors or any combination of these.
22. “Health district” means the Kitsap County health district.
23. “Hearing examiner” means the official designated as the hearing examiner for the city pursuant to BIMC Title 2.
24. “Homesite area” means the area of a lot depicted on the face of a plat that is intended for development of the primary residential dwelling and accessory buildings and necessary infrastructure within a cluster subdivision.
25. “Island character” is the term used to describe the special character of the island – winding, narrow and vegetated roadways and forested areas, meadows, farms, areas that contain much of the island’s wetlands and streams, aquifer recharge areas and fish and wildlife habitat areas. For the purposes of this title, it does not refer to a level of service, or type of development, or measure of development intensity.
26. Large Lot Subdivision. A “large lot subdivision” means the division or redivision of land into two or more lots for the purpose of sale, lease or transfer of ownership where each lot is not smaller than five acres or 1/128th of a section (whichever is smaller); provided, that this shall not include division or redivision of land where all parcels are greater than 20 acres or 1/32nd of a section.
27. “Laws of descent” means the rules of inheritance law established by the state of Washington and the federal government that apply in cases where there is no will naming the persons to receive the possessions of a person who has died.
28. “Long subdivision” means the division or redivision of land into five or more lots, tracts (except tracts specifically reserved as open space), parcels, sites or divisions for the purpose of sale, lease or transfer of ownership, but shall not include a short subdivision.
29. “Lot” means a lot as defined in Chapter 18.36 BIMC.
30. “Low-impact fencing” means a fence designed to preserve views into an area and wildlife access to and from the area while providing a physical barrier to prevent livestock or humans from easily or inadvertently entering the area. Low-impact fencing includes without limitation two- or three-tier split-rail or horse-rail fencing not exceeding five feet in height, four-inch by four-inch wooden posts with two or three strands of cable in between, or other fencing with similar visual, barrier, and access characteristics as determined by the director.

31. "Mature vegetation on ridgelines" means as defined in Chapter 18.36 BIMC.
32. "Meadow" means an open, nonforested area formed by the land's natural features and events of nature.
33. "Native forest" means established forest areas primarily consisting of native trees and plants.
34. "Native vegetation" means as defined in Chapter 18.36 BIMC.
35. "Off-site views" or "views from off site" means as defined in Chapter 18.36 BIMC.
36. "Open space" means any area of land that is predominantly undeveloped and that provides physical and/or visual relief from the developed environment in perpetuity, that is generally unimproved and set aside, designated or reserved for public use or enjoyment, or used for the private use and enjoyment of property owners. Open space may consist of undeveloped areas, such as pastures and farmlands, woodlands, greenbelts, critical areas, pedestrian corridors and other natural areas that provide recreational opportunity and visual relief from developed areas. Open space excludes tidelands, areas occupied by buildings, and any other developed areas such as driveways, all rights-of-way and any other impervious surfaces not incidental to open space purposes.
37. "Open space sign" means a sign used to delineate the boundaries of designated open space, critical areas, and/or their buffers. Open space/critical areas signs shall be made of metal or similar durable material and shall be between 64 and 144 square inches in size.
38. "Orchard" means as defined in Chapter 18.36 BIMC.
39. "Pasture" means land used for grazing.
40. "Phasing" means the use of limits on construction, permitting or occupancy to reduce the immediacy or severity of impacts of the subdivision on the environment or to better achieve the requirements of state law for the concurrence of the facilities and services with the needs generated by development.
41. "Plat" is a map or representation of a subdivision, showing thereon the division of a tract or parcel of land into lots, blocks, streets and alleys, or other divisions and dedications.
42. "Planning commission" means the Bainbridge Island planning commission, as described in BIMC 2.14.020.
43. "Platted lot" means a fractional part of divided lands having fixed boundaries, being of sufficient area and dimension to meet minimum zoning requirements for width and area and the flexible lot development standards contained within this title. The term includes tracts or parcels.
44. "Preliminary plat" is a drawing of a proposed subdivision showing the general layout of streets and alleys, lots, blocks, and other elements of a subdivision consistent with the requirements of this title. The preliminary plat shall be the basis for the approval or disapproval of the layout of a subdivision.
45. "Public way" means a dedicated street, easement allowing public access, and other forms of access open to the public.
46. "Right-of-way" means land in which the state, county, city or other governmental entity owns the fee simple title or has an easement dedicated or required for a transportation or utility use. The right-of-way is the right to pass over the property of another. It refers to a strip of land legally established for the use of pedestrians, vehicles or utilities.
47. "Road" means as defined in Chapter 12.38 BIMC.
48. "Short plat" means the map or representation of a short subdivision.
49. "Short subdivision" is the division or redivision of land into four or fewer lots, tracts (except tracts specifically reserved as open space), parcels or sites, for the purpose of sale, lease or transfer of ownership, except that the division or redivision of two or more existing lots into up to nine lots consistent with the procedures and standards

contained in BIMC 17.12.030.A shall constitute a short subdivision if an applicant dedicates additional open space area pursuant to BIMC 17.12.030.A.5.

50. “Significant tree” shall have the meaning defined in Chapter 18.36 BIMC.

51. “Stormwater” shall have the meaning defined in Chapter 15.20 BIMC.

52. “Street” shall have the meaning defined in Chapter 18.36 BIMC.

53. “Testamentary provisions” means provisions of a last will or testament of a person who has died concerning land or property owned or controlled by that person, which provisions are generally carried out by an executor appointed by a court or public official on behalf of the deceased.

54. “Wetland” shall have the meaning defined in Chapter 16.20 BIMC. (Ord. 2017-02 § 21, 2017; Ord. 2011-02 § 2 (Exh. A), 2011)

Revision to Table 18.12.020 - Dimensional Standards for Residential Zone Districts

revised 7-5-18

Zone		R 0.4	R 1	R 2	R 2.9	R 3.5	R 4.3	R 5	R 8	R 14	NC 6	MUTC 6
Site Area per Home	minimum	100,000 sf	40,000 sf	20,000 sf	15,000 sf	12,500 sf	10,000 sf	8,500 sf	5,400 sf	3,100 sf	8,500 sf	See FAR table
Natural Space	minimum - percent of site	25%	25%	25%	25%	25%	20%	15%	10%	5%	15%	5%
Community Space 1	minimum - percent of site	5%	7.5%	10%	15%	15%	15%	15%	15%	10%	15%	10%
Homesite	maximum	15,000 sf	7,500 sf	7,000sf	5,500 sf	4,500 sf	3,500 sf	3,500 sf	3,000 sf	2,250 sf	3,500 sf	2,250 sf
Home Site Separation 2	maximum		25 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft
Home Sideyards 3,6	Net Bldg sf: attached, min/combined min/combined 1,600sf or less 1,601sf or more	0 ft, 5/10 ft 15/50 ft	0 ft, 5/10 ft 15/25 ft	0 ft, 5/10 ft 10/20 ft	0 ft, 5/10 ft 10/20 ft	0 ft, 5/10 ft 10/20 ft	0 ft, 5/10 ft 5/15 ft	0 ft, 3/10 ft 5/15 ft	0 ft, 3/10 ft 5/10 ft	0 ft, 3/10 ft 5/10 ft	0 ft, 3/10 ft	0 ft, 3/10 ft
Home to Street 4	minimum	10 ft	10 ft	10 ft	10 ft	10 ft	5 ft	5 ft	5 ft	5 ft	5 ft	5 ft
Home to Community Space, Trail	minimum	10 ft	10 ft	10 ft	10 ft	10 ft	5 ft	5 ft	5 ft	5 ft	10 ft	5 ft
Home to Exterior Plat Boundary Line 6	Net Bldg sf: 1,600sf or less 1,601sf or more	25 ft 25 ft	15 ft 25 ft	15 ft 25 ft	10 ft 25 ft	10 ft 25 ft	5 ft 10 ft	5 ft 10 ft	5 ft 10 ft	5 ft 10 ft	5 ft	5 ft
Building to SR 305 ROW	minimum	75 ft	75 ft	75 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft	25 ft
Home to Arterial and ROW	minimum	25 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft
Garage to Alley 5	minimum	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft	0 ft
Shared Garage Sideyard	minimum	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft	10 ft
Shared Garage Size	maximum length	60 ft all zones										
Home Size 6	maximum								1,600 sf	1,600 sf	1,600 sf	1,600 sf
Building Height		Height requirements for standard lots apply										

FOOTNOTES:
1 Not required for 3 lots or less
2 May be modified by staff based on merits of design.
3 Attached not allowed if home size exceeds 1600sf
4 Setbacks do not replace lesser requirements within MUTC
5 Applies to garage only.
6 1,600sf maximum home size in Designated Centers