

ATTACHMENT A

NEW LANGUAGE

SHORELINE MASTER PROGRAM

SECTION _____

SHORELINE ONSITE WASTEWATER TREATMENT SYSTEMS

x.1 Operative Standards

The development standard for all development within the shoreline is no net loss of shoreline ecological functions.

x.2 Location Standards

1. As required under WAC 246-272A-0025 and subject to the applicable concurrency requirements of Title 13 of the Spokane County Code, where the property to be developed is within the UGA and within 200 feet of a public sewer system, the property shall connect to public sewer and septic drainfields are prohibited.
2. Where new residential lots are created that include property within the shoreline jurisdiction of this Shoreline Master Program, such lots shall be configured so that all septic drainfields are located outside of shoreline jurisdiction except as provided for in Subsection (4) below.
3. Where new development is proposed on a lot of record within shoreline jurisdiction that includes property outside of the shoreline jurisdiction, the septic drainfield shall be located outside of the shoreline jurisdiction except as provided for in Subsection (4) below.
4. Where site, lot or other physical constraints combined with the requirements of sections (2) or (3) would prohibit all reasonable use of the property, a septic drainfield may be located within the shoreline jurisdiction, provided the following minimum standards shall be met:
 - a. The owner shall have a special report prepared by a licensed professional engineer that incorporates one or more of the tools from Table 5.3.8 (4) below, that are necessary and appropriate to demonstrate a minimum phosphorous effluent reduction or phosphorus discharge concentration limit of 1 mg/liter or less for the projected flow from the structure over the life of the system.
 - b. The report shall include the site development plan required under Section 4.1.3 and identify a combination of physical and locational constraints and the onsite wastewater treatment system operation, monitoring, performance, and maintenance program that is designed to achieve the phosphorus effluent discharge concentration limit of 1 mg/liter or less through the life of the system. The onsite wastewater treatment system

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Table 5.3.8 (4) Options for new on-site wastewater treatment systems in shoreline areas and for systems subject to provisions of Location Standards (5)

- shall become part of the building/septic design and any shoreline permits required for the development of the site.
- c. The drainfield setback shall be landward of the residence and the farthest feasible distance from the shoreline but not less than 100 feet measured horizontally landward from the line of ordinary high water.
 - d. The report shall identify a monitoring program at a point that this compliance point is "immediately downstream of the engineered media discharge point and before the drain field consistent with the following requirements:
 - i. Monthly monitoring upon installation until the 1 mg/liter total phosphorus concentration threshold is met.
 - ii. Once tests show the system is working as planned, annual monitoring program to show the system is functioning and being properly maintained.
 - iii. In the event of an exceedance over the 1mg/liter phosphorus concentration in any report, another sample will be tested again within the next 30 days. If the second laboratory analysis detects a total phosphorus concentration greater than 1.0 mg/L, the homeowner shall present a plan to the Building and Planning Department within 30 days to correct the exceedance and upon approval shall implement the plan at the earliest opportunity (weather permitting), within one year after the date of the plan approval.
 - iv. Reports shall be maintained with the Building and Planning Department, which shall maintain a log of reports and shall monitor reports for both timely submission and compliance with the 1 mg/liter standard.
 - v. Water quality tests shall be conducted at an Ecology accredited laboratory, which will provide the reports to the County Building and Planning Department no less than 30 days from date of the laboratory analysis.
 - vi. The County Building and Planning Department shall notify both Ecology and any homeowner if a report is not timely filed or has any evidence that the system is not functioning as required, and shall have the authority to require additional water quality testing at the homeowner's expense if any report is more than 90 days late.

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- vii. Failure to properly maintain an onsite wastewater treatment system in the shoreline area of Spokane County under the terms of this section shall be grounds for declaring the system a failed system under Section 8.2 of the master program with *authority to declare the system out of compliance with County requirements and take such steps to assure continued violations do not occur*.
5. Where an existing lot of record is developed with a septic drainfield system that does not meet the specifications of this section and new development or redevelopment (including remodels) with a cost or fair market value (whichever is more) of 50% of the assessed value of the improvements on the property or increases the number of bedrooms and/or bathrooms on the property, the requirements of section x.2.4.a-c shall be a condition of any permit issued for such work.
6. Onsite wastewater treatment systems serving allowed uses in conformance with the SCSMP must also be in compliance with regulations administered by the Spokane Regional Health District.
7. The County will revisit the effectiveness of Section XX Shoreline Onsite Wastewater Treatment Systems and the best available affordable technology for phosphate removal that meets the requirements of no net loss at its next SMP update.

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Element	Description
<i>P Removal Technology specifications</i>	Requirements for Soil Absorption System (SAS) or Advanced Treatment System (ATS) which includes filtering with enhanced medium (e.g., Limestone, tire chips).
	Requirements for specific SAS design configurations (e.g., long/narrow trenches or shallow SAS designs).
<i>Site conditions</i>	Groundwater/watershed boundary within the 200 foot buffer zone that prevents effluent within the buffer from reaching the nearby water body (immediately).
	Establish a minimum vertical separation distance (e.g., no less than 10 feet) to maximum site groundwater elevation to maximize phosphorus adsorption.
	Construct Onsite Wastewater Treatment System (OWTS) on the most topographically upgradient property boundary perpendicular to groundwater flow to allow for the maximum possible adsorption of phosphorus.
<i>Operations and Maintenance</i>	Requirements for periodic Septic Tank "pump-outs" to reduce the build-up of solid-phase phosphorus concentrations and subsequent aqueous phase effluent concentrations.
	Require regular (annual) OWTS inspections to ensure proper system operation.
	Requirements for the period replacement and off-site disposal of ATS media. Off-site disposal and off-site re-use areas for spent treatment media. (e.g., acid mine drainages, forestry applications horticulture)
<i>Monitoring</i>	Requirements for initial and ongoing testing of ATS systems (e.g., periodic total phosphorus and pH testing) to ensure performance requirements are being met.
	Requirements for the installation of groundwater piezometers to enable periodic testing of phosphorus concentrations in groundwater over the first ten years of operation.
<i>Existing OWTS Systems</i>	Requirements for monitoring of existing OWTS within the 200 foot shoreline buffer zone to determine total phosphorus discharge concentrations.