



To Protect and Promote the Health and the Environment of the People of Kittitas County

05-17-2010

Leslie and Velma Harmon  
1540 Hidden Valley Road  
Cle Elum, WA 98922

RE: Harmon Short Plat (SP-10-00007) submission fee received (\$380.00)

Dear Applicant:

We have received the application for your proposed Short Plat (located in Section 31 and 32, Township 20, Range 17, off of Hidden Valley Road).

Enclosed is a checklist and more detailed instructions for meeting Kittitas County Public Health Department's requirements for providing adequate supply of potable water and providing adequate sewage disposal for platting.

***Please note: We will not recommend approval of your plat application until the enclosed requirements are met. Some requirements must be satisfied prior to recommendation for preliminary approval.***

Once we have received and reviewed the required information, we will notify Community Development Services that the Public Health Department requirements have been satisfactorily addressed.

If you have any questions or concerns, please feel free to contact our office at (509) 962-7515.

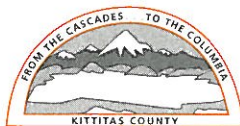
Sincerely,

A handwritten signature in black ink that reads "Catherine Bambrick".

Catherine Bambrick, Administrator  
Kittitas County Public Health Department

Enclosures: (3)

cc: Kittitas County Community Development Services; Allen Lang P.E.



## Checklist

**Prior to recommending final approval** of the above listed plat you must meet RCW 58.17.150, RCW 58.17.110, KCC Title 16, Chapter 16.12.150 and WAC 246-272A-0320 by:

(\*\*More detailed instructions are provided in the 'Instructions for Completing Requirements for Public Health' enclosed)

### 1. Proving there is an adequate supply of potable water

Choose and follow instructions for **one** of the five following options:

**Group "A" Public Water System**

Provide written approval from Washington State Department of Health.

**Group "B" Public Water System**

Schedule a well site inspection with the Public Health Department and contact a Satellite Management Agency as the **first step** toward approval of a Group B Public Water System. The Group B Public Water System must be approved or bonded for completion of the well house construction prior to recommendation for final plat approval.

**Individual Wells**

For preliminary approval to be recommended, provide a well log or hydrogeological report to prove adequate ground water exists for the proposed number of potable water wells. For final approval to be recommended, all wells must be drilled, flow capacity known, water storage mitigations resolved and bacteriological and nitrate tests must be performed and satisfactory. Final mylars must have well head protection zone(s) established.

**Shared Two-Party Well**

For preliminary approval to be recommended, provide a well log or hydrogeological report to prove adequate ground water exists for the proposed potable water well. For final approval, submit:

- Well log or a 4 hour pump test
- Signed, notarized and recorded two party shared well water user's agreement
- Water storage mitigations (if required)
- Passing bacteriological and nitrate tests

Final mylars must have well head protection zone(s) established.

**Public Utility Water Supply**

Submit a signed letter of agreement from a public utility official and the developer/owner, granting sewer potable water services for the entire development.

## **AND**

### 2. Proving satisfactory sewage disposal

Choose and follow instructions for **one** of the two following options:

**On-site Sewage**

A soil analysis of each proposed lot on the subdivision must be completed prior to receiving a recommendation for **preliminary plat approval**. Schedule a soil log inspection with KCPHD and prepare each proposed lot by digging one test hole per lot.

**Public Utility Sewer**

Submit a signed letter of agreement from the public utility official and the developer/owner, granting sewer services for the entire development.

# Instructions for Completing Public Health Requirements

## I. ADEQUATE POTABLE WATER SUPPLY:

### **PUBLIC UTILITY WATER SUPPLY APPLICANTS**

Submit a signed letter of agreement with the responsible public utility official and the developer/owner, granting delivery of potable water for the entire development.

### **WELL SET BACK REQUIREMENTS**

Prior to drilling a well, a well site review must be conducted by KCPHD. All wells must be located 50 feet from a property lines and have a 100 foot well head protection zone established. For individual wells, the setbacks are 50 feet from septic tank and 100 feet from a drain field and reserve area. For public water systems, the setbacks are 100 foot from a septic tank, drain field and reserve area (Title 17, Chapter 17A.08.025, WAC 246-272A-0320, WAC 246-272A-0210).

### **PUBLIC WATER SYSTEMS**

All Public Water System applicants must contact a Satellite Management Agency (SMA) before initiating the application process. Evergreen Valley Utilities (509) 674-9642, Lookout Mountain Utilities Management (509) 674-6789 and Valley Water Services (509)575-3999 are the current SMAs.

#### **PUBLIC GROUP “A” WATER SYSTEMS**

If you have an existing well and a Department of Ecology issued a “water right” for potable usage of the well, Washington State Department of Health (DOH) is the regulatory authority for approving Group A systems. We require written verification that DOH has approved the system prior to final plat approval (see contact information below). If you have not secured a water right for potable use you must contact the Washington State Department of Ecology (Central Region Office) located in Yakima, Washington to begin the process of obtaining a water right. Their contact number is: (509) 575-2800.

#### **PUBLIC WATER SYSTEMS SERVING 3-14 CONNECTIONS**

Washington State Department of Health and Kittitas County Public Health Department share the regulatory authority for approving Public Water Systems from 3 to 14 connections in Kittitas County. The process for approval includes a source site inspection to approve the location of the proposed well or if the well exists to ensure that it meets the criteria for approval; drilling of the well and/or ensure that the well is located within the subdivision boundaries; completion of the well infrastructure, the workbook and all related documentation including testing and satisfactory results.

**\*\*All Public Water System (Group B) applications with 3-9 connections should be submitted to Kittitas County Public Health Department; all Public Water System (Group A) applications with 10-14 connections should be submitted to Washington State Department of Health at the addresses provided below.**

Kittitas County Public Health Department  
Environmental Health Division  
507 N Nanum Street, Suite 102  
Ellensburg, WA 98926  
(509) 933-8261

Washington State Department of Health  
16201 E. Indiana Ave., Suite 1500  
Spokane, WA 99216  
(509) 329-2116  
ATTN: Scott Torpie, Regional Engineer

After all of the aforementioned information is submitted, reviewed, and approved by Washington State DOH, final issuance of the well ID number completes the requirement.

## **INDIVIDUAL WELLS**

***For preliminary plat approval***, the number of wells and which parcels will be served by each well must be identified by the applicant. If individual wells are proposed for the parcels and there is an existing well located on the plat, a well log from the State of Washington, Department of Ecology (Ecology) and a recent passing bacteriological and nitrate test will meet the water availability requirement.

If there is not currently an existing well located on the plat, the applicant must demonstrate evidence of the water supply type that they intend on making available to the proposed lots and that adequacy will be achieved. This requirement can be achieved by submitting a hydrogeological report prepared by a licensed Professional Engineer or Hydrogeologist or by conducting a well survey of proximate wells. Such a survey shall include current information regarding capacity and a recent passing bacteriological and nitrate tests from proximate wells.

In either case, current information that identifies or estimates anticipated capacity of the existing or planned wells must demonstrate that the wells will provide sufficient water to the number of residences that may be connected to them.

***Final approval*** will be conditioned upon the conditions of preliminary approval, and all wells must be drilled, flow capacity known (minimum of a 4 hour pump test), water storage mitigations resolved and bacteriological and nitrate tests must be performed and satisfactory to be used for domestic use. Final mylars must have well head protection zone(s) established before final approval can be recommended.

## **WATER BUDGET NEUTRALITY**

**In upper Kittitas County**, if the property owner **has not already put the well or wells in question to beneficial use**, a determination of water neutrality from Washington State Department of Ecology will be required to satisfy the water availability requirement for individual wells and Public Water Systems serving 3-14 connections. This requirement may be waived at the final approval stage if Ecology has modified the Upper Kittitas County Ground Water Rule (Chapter 173-539A WAC) in such a way that a determination is no longer required and the applicant has met all requirements of the modified rule.

**PLAT NOTES**

All applicants for subdivision (short and long plats) utilizing wells shall have a note placed on the face of the final mylars that states:

*“The approval of this division of land includes no guarantee that there is a legal right to withdraw groundwater within the land division. The approval of this division of land provides no guarantee that use of water under the ground water exemption (RCW 90.44.050) for this plat or any portion thereof will not be subject to curtailment by the Department of Ecology or a court of law. “*

***AND, in upper Kittitas County only:***

*“Metering will be required on all new residential well connections and metering results shall be recorded in a manner consistent with Kittitas County and Washington State Department of Ecology requirements.”*

**II. SATISFACTORY SEWAGE DISPOSAL**

**PUBLIC UTILITY SEWER**

Submit a signed letter of agreement between the responsible public utility official and the developer/owner or other documentation that provides proof of connection to public sewer.

**ON SITE SEWAGE**

Soil logs must be completed on each proposed lot to determine the suitability of the soil and minimal lot size required to support an onsite sewage system. **Soil logs must occur prior to recommendation for preliminary plat approval.** The developer/owner shall provide soil test holes on each lot as per WAC 246-272A-0320 or as amended (see attached soil log instruction sheet). The information obtained will be recorded and placed in the plat file for future reference. The information obtained from these soil logs is for plat approval purposes only and does not constitute a site evaluation in conjunction with the issuance of a permit for any specific lot.



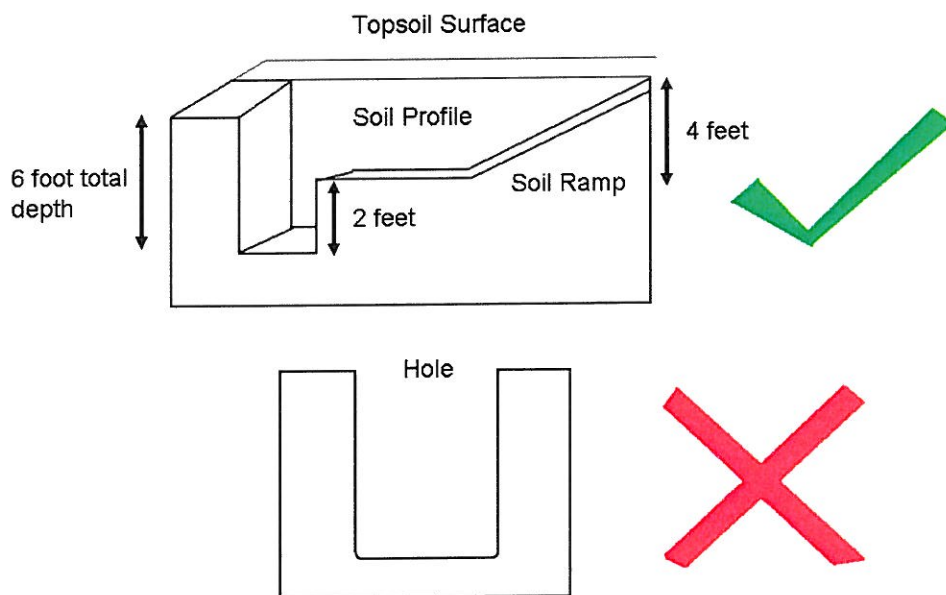
## Soil Log Requirements for Land Division

**Purpose:** The purpose of a soil log is to ensure that future property owners can be assured that they will be able to install a septic system on the property. A soil log is performed to ensure that suitable depth and type of soil is present on the property prior to final plat approval.

Since the type of soil and water source supplying the property can ultimately determine the minimum lot size, soil logs are required before a recommendation for preliminary plat approval can be made.

**Requirements:** In order for a soil log to be conducted, test holes must meet specific criteria according to Chapter 246-272A-0320 WAC, Kittitas County Code and Labor and Industries safety standards.

- 1) A minimum of one soil log per lot shall be dug to a depth of six feet, unless an impermeable layer such as bedrock, hardpan clay, or the existing water table prevents such a depth from being obtained. In some instances, additional holes may be required to determine if the minimum standards for septic support are present on the lot.
- 2) The design of a test hole shall be sloped to four feet beneath surface, leveled and then dug down an additional two feet for a total depth of six feet (see the diagram below for reference). Such a test hole is designed to prevent possible injury as a result of the surrounding soil bank collapsing into the test hole and to grant the local health officer ease of access to the soil profile.
- 3) In order to sub-divide property at least twelve inches of native, suitable soil must be present at the time the soil log is performed.
- 4) A soil log does not constitute a site-evaluation. A site evaluation determines the type of septic system required. A soil log only determines whether soils present on the property can support a septic system.



**Minimum Land Area Requirements:** According to the WAC 246-272A-0320 Table X (provided below) the minimum land area requirement from a public health perspective for subdivision of property is determined by the source of the drinking water and the soil type present to support an on-site sewage system. These guidelines have been put in place to protect human health and the environment from the potential health hazards that an on-site sewage system imposes. The type of water source available and soil type present must be determined by the local health officer. However, other minimum land area requirements may be subject to local government zoning regulations and restrictions, and it is advisable that property land owners seek advice from Community Development Services at (509) 962-7506 for assistance in this area.

**TABLE X**  
**Minimum Land Area Requirement**  
**Single-Family Residence or Unit Volume of Sewage**

Type of Water Supply	Soil Type (defined by WAC 246-272A-0220)					
	1	2	3	4	5	6
Public	0.5 acre	12,500 sq. ft.	15,000 sq. ft.	18,000 sq. ft.	20,000 sq. ft.	22,000 sq. ft.
	2.5 acre <sup>1</sup>					
Individual, on each lot	1.0 acre	1 acre	1 acre	1 acre	2 acres	2 acres
	2.5 acres <sup>1</sup>					

<sup>1</sup> See WAC 246-272A-0234(6).

**Other Considerations:** Since open holes present a potential danger to people, livestock, wild animals, and vehicles, it is advisable that such a hole be roped off or covered to prevent unwanted entry or marked to caution and facilitate finding. After the soil log has been performed the hole may be filled in by the property owner or contractor to eliminate the potential hazard.

**Scheduling a soil log:** Currently, soil logs are performed on a weekly basis by an Environmental Health Specialist. To schedule a soil log please contact the Kittitas County Public Health Department Office located at 507 N Nanum Street, Suite 102 or call (509) 962-7515 to arrange an appointment.

