

memorandum

date September 4, 2009

to Nick Bond, Town of Eatonville

from Alex Cohen, ESA Adolfson
Kent Hale, ESA Adolfson

subject Task 1.1 of SMA Grant Agreement No. G100009: Identify Preliminary Shoreline Jurisdiction

Purpose

The purpose of this memo is to describe the data sources used to identify shoreline and shoreland jurisdiction within the Town of Eatonville and its potential annexation areas (PAA). The attached preliminary map geographically depicts the extent of the shoreline and shoreland jurisdiction within the Town and its PAA.

Shoreline Jurisdiction

Under the Shoreline Management Act (SMA), the shoreline jurisdiction includes areas that are 200 feet landward of the ordinary high water mark (OHWM) of waters that have been designated as “shorelines of statewide significance” or “shorelines of the state.” These designations were established in 1972, and are described in Washington Administrative Code (WAC) 173-18. Generally, “shorelines of statewide significance” include portions of Puget Sound and other marine water bodies, rivers west of the Cascade Range that have a mean annual flow of 1,000 cubic feet per second (cfs) or greater, rivers east of the Cascade Range that have a mean annual flow of 200 cfs or greater, and freshwater lakes with a surface area of 1,000 acres or more. “Shorelines of the state” are generally described as all marine shorelines and shorelines of all other streams or rivers having a mean annual flow of 20 cfs or greater and lakes with a surface area greater than 20 acres.

Based on the following report, rivers and creeks within the Town of Eatonville (and PAA) that have a mean annual flow of 20 cfs or greater include Lynch Creek, Ohop Creek, Mashel River, and Little Mashel River:

- "Determination of Upstream Boundaries on Western Washington Streams and Rivers Under The Requirements of the Shoreline Management Act of 1971." Water-Resources Investigations Report 96-4208. United States Geological Survey, Tacoma. 1998.

None of these waters would be classified as “Shorelines of statewide Significance.” Lakes that are classified as “waters of the state: and thus “shorelines of the state” if they have a surface area of 20 acres or more (RCW 90.58.030(2)(d)). There are no lakes in the Town of Eatonville that meet this criterion.

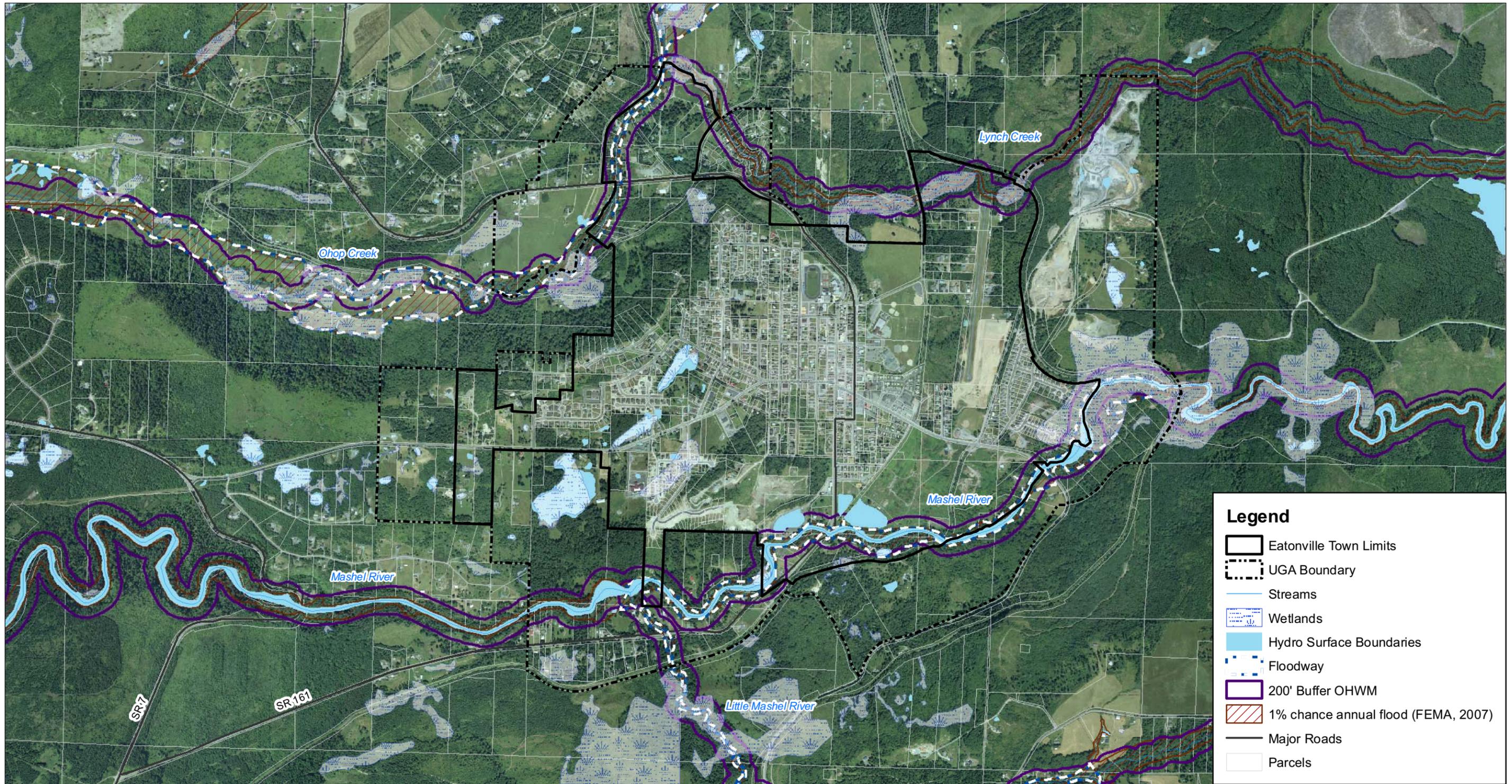
Shoreland Jurisdiction

Shorelands under the jurisdiction of the SMA are defined as “those lands extending landward for two hundred feet in all directions as measured on a horizontal plane from the ordinary high water mark; floodways and contiguous floodplain areas landward two hundred feet from such floodways; and all associated wetlands and river deltas” (RCW 90.58.030(2)(f)).

Most of the data used in determining the preliminary shoreline jurisdiction was acquired from or by created by Pierce County as part of the County’s SMP update process. GIS data was available for the OHWM on the Mashel river, but not on Lynch and Ohop Creeks. For these creeks, the 200-foot shoreline jurisdiction was buffered from the center line of the stream. Wetlands data were collected from Pierce County. Floodplains and floodways were originally mapped by the Federal Emergency Management Agency (FEMA). The Town and PAA boundaries were developed and furnished by Eatonville staff. Shoreland jurisdiction within the Town of Eatonville and its PAA is depicted on the attached maps. A list of the data used in creating the preliminary shoreline jurisdiction is provided in the following table:

Preliminary Shoreline Jurisdiction Data Sources

Layer	GIS Layer Name	Source	Date	Comments
Streams	hydro_centerlines	Pierce County	2006	Derived from 2' and 5' contour data and LiDAR
Wetlands	wetlands_finalpoly	Pierce County	2006	Derived from 3 sources; delineated, verified (field-checked) and unverified (NWI wetlands)
Hydro Surface Boundaries	hydro_surface_boundaries	Pierce County	2006	Served as OHWM for Mashel River; also includes lakes, ponds, etc; derived from highly accurate hydrology data using a combination of 2' and 5' contour data and LiDAR
Floodway	S_FLD_HAZ_AR	FEMA	2007	Preliminary FEMA DFIRMs for Pierce County
1% Chance Annual Flood (Floodplain)	S_FLD_HAZ_AR	FEMA	2007	Preliminary FEMA DFIRMs for Pierce County

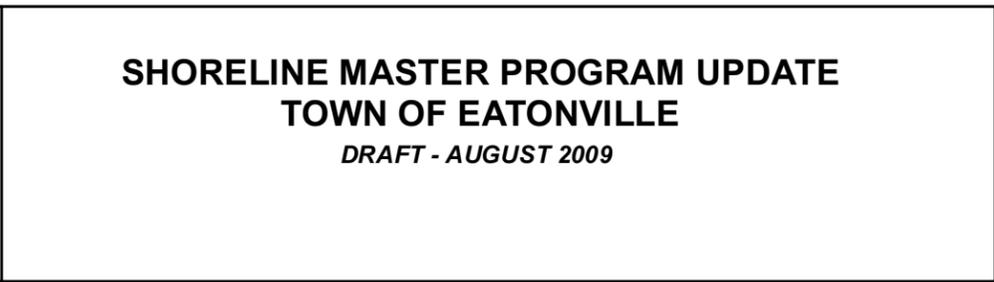


Legend

-  Eatonville Town Limits
-  UGA Boundary
-  Streams
-  Wetlands
-  Hydro Surface Boundaries
-  Floodway
-  200' Buffer OHWM
-  1% chance annual flood (FEMA, 2007)
-  Major Roads
-  Parcels



**SHORELINE MASTER PROGRAM UPDATE
TOWN OF EATONVILLE**
DRAFT - AUGUST 2009



MAP 1
Preliminary Shoreline Planning
Area Mapping

SOURCE: Pierce County, 2007 (2005 Air Photo);
FEMA, 2007