

To: Pierce County Planning and Land Services

Attn: Dave Risvold, Shoreline Planning Supervisor

Annex (Public Services Building)
2401 S. 35th St.
Tacoma, WA 98409

From: Crystal River Ranch Homeowners Association

Date: September 17, 2017

Subject: Erosion and Vane Monitoring Crystal River Ranch Shoreline Management
(Original Pierce County Application/Permit Number 695650 Tax Parcel 3360090210)

Since Fall 2012 Crystal River Ranch (CRR) has been monitoring erosion and bank conditions after a wellhead and community property protection project was completed. The CRR membership and Board determined that brief periodic reports to Pierce County Planning and Land Services will be provided as a record of our shoreline stewardship, note trends in bank and infrastructure condition and wellhead protection project status. This is an important part of our long-term monitoring and management of shoreline stability and would like the County to make this information available to communities and regulatory agencies for assisting in White River management. If possible please assign a long-term reference number for our monitoring project so that could be on file with the County.

At this point we are using our original Application/Permit No. 695650 as a project reference number for this effort that ensures wellhead and community property protection. During 2012-2104 CRR desired to create baseline information for long-term monitoring of rock vane performance as a means to track the locations and rate of natural and vane-associated erosion in the erosion control project reach. We have included our latest report and survey information, updated this past spring, to initiate our correspondence record. During these past few years' evaluations in observing backwatering effects, flood water extent and in-channel sediment deposition characteristics, it is becoming increasingly evident that the bridge span of Crystal River Ranch Road East (aka NF-7400) off of Highway 410 at milepost 46.5 constrains the White River and may be a contributing cause to the sediment accumulation and widening of the active channel in the CRR reach. We will be tracking these features through aerial imagery and will be acquiring crest gauge monitoring data near the bridge.



Curt R. Simonson
President
Crystal River Ranch Association