March 30, 2019

Ms. Elizabeth Decker  
City of Ridgefield  
Consulting Planner, E² Land Use Planning LLC.  
215 W 4th Street, Suite 201  
Vancouver, WA 98642

RE: SR 501 Emergency Slope Repair at MP 18.14 (Slide 2)  
Mitigation Site  
City of Ridgefield Type II Critical Areas Permit #PLZ-13-0040

Dear Ms. Decker,

The Washington State Department of Transportation completed qualitative monitoring of the SR 501 Slide 2 mitigation site on October 10, 2018, to address Year-5 (2018) performance standards. Monitoring activities included vegetation observations and photo documentation. This Year-5 report is being issued for compliance with the reporting requirements of the Type II Critical Areas Permit – City of Ridgefield Permit Number PLZ-13-0040.

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Site success:

This site is successfully meeting all final-year performance standards. Cover of planted shrubs is high, and they are stabilizing the slope. Invasive cover is low.

Results for Performance Standard 1
(60% canopy closure in the planted shrub layer):

Canopy closure cover in the planted shrub layer is qualitatively estimated at 65 percent (Photo 1). This exceeds the performance standard target. Dominant species include salmonberry (*Rubus spectabilis*) (~2m tall) and western red cedar (*Thuja plicata*) (2-3m tall).

Results for Performance Standard 2
(Control of noxious and nuisance weeds and grasses):

Weed control efforts have been successful. Cover of invasive species is qualitatively estimated at less than one percent, and is not inhibiting the growth of the planted shrubs. Robert geranium (*Geranium robertianum*) and Himalayan blackberry (*Rubus armeniacus*) were the only species observed at the time of monitoring.

Photo 1 – Canopy closure in the planted shrub area

We welcome your questions or comments. Please contact me at 360/570-2588 or by e-mail at Kristen.Andrews@wsdot.wa.gov for questions about these mitigation sites.

Sincerely,

Kristen Andrews
Wetlands Program
**REvised Buttress Toe Concept (incorporating WDFW concerns)**

- Buttresses extend to top of slope at 15\% slope per geological recommendations.
- Prepare soil surface as directed by the engineer.
- Hand seed and place Coli fabric blankets over seeded slope at buttress toe area as shown by the engineer.
- Woody plants installation on buttress toe, re-graded channel and terrace, and other disturbed areas by backhoe.
- Provide "roll cap" as shown to the limits established by the engineer. Grade soil slope to provide a minimum average roll cap of 3:1 or 4:1, or a maximum roll cap of 1:1. Provide a toe as shown to match creek bank. Taper roll cap at upper limit as shown.
- Roll cap material salvaged from native soil to form mounded soil, to retain soil as shown, taken from the area prepared for the buttresses as directed by the engineer.
- Do not use landslide sediment.

**Revised Buttress Toe Concept**

- Buttresses toe - buildings placed per geological recommendations to meet toe slightly away from creek and to provide area for native soil fill.
- (Design Manual, Figure 135-5A, Rechart.)

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**File Name:** 800050910\_CON\_LNG\_OS\_000000

**File Date:** 6-16-96

**Print Date:** 6-10-96

**Print Job:** FES, 610 Prod.W.

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**Washington State Department of Transportation**

**Site:** SR 501

**Project:** GIDDIE REPAIR

**Buttress Details**