Appendix D – Calculated Landform Hazard Rating Table: Form A-4

Calculated hazard ratings per landform calculated with road-related landslides													
Landforms	Landform 1 (Inner Gorges)	Landform 2 (Bedrock Hollows)	Landform 4 (River Terrace Margin)	Landform 5 (Convergent Headwalls)	Landform 7 (Active Scarps-DSLS)	Landform 9 (Fluvial Erosion along Channels of the Chehalis River)	Landform 10 (Non-Rule Identified Inner Gorges)	Landform 11 (Steep Gradient Hillslopes >61%)	Landform 12 (Moderate Gradient Hillslopes 41-60%)	Landform 14 (Flats 0-10%)	Landform 15 (Ridgetops and Noses)	Landform 16 (Low Gradient Hillslopes 11-40%)	Total WAU
Years	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
Landform Area (acres)	476.9	350.1	247.3	101.6	81.6	214.1	122.4	877.7	2027.8	7948.9	343.0	2993.6	15784.8
Number of Landslides (excluding deep-seated landslides)	128.0	181.0	43.0	75.0	19.0	54.0	57.0	127.0	123.0	0.0	0.0	0.0	807.0
Landslide Frequency Rate (Number of slides/Landform Area/Years) x 10^6	5710.8	11001.2	3699.5	15707.7	4955.3	5366.4	9910.6	3078.8	1290.6	0.0	0.0	0.0	1087.8
Number of 'Delivering' Landslides	122.0	165.0	40.0	74.0	4.0	54.0	53.0	98.0	99.0	0.0	0.0	0.0	709.0
Area of 'Delivering' Landslides (acres)	19.9	31.5	8.6	10.9	1.7	18.4	8.2	18.7	14.9	0.0	0.0	0.0	132.9
Landslide Area Rate for Delivery (Delivering Landslide Area/Landform Area/Years) x 10^6	887.0	1917.0	738.2	2278.7	448.6	1832.5	1427.5	454.3	156.5	0.0	0.0	0.0	179.2
Overall Hazard Rating	Very High	Very High	Very High	Very High	Very High	Low*	Very High	Very High	Very High	Low	Low	Low	Very High

*Analyst-override of calculated hazard rating: calculated as Very High Hazard but downgraded to Low due to its occurence in the floodplain.

Lower Chehalis - Elizabeth Creek WAU - Form A-4 continued

Calculated hazard ratings per landform excluding road-related landslides													
Landforms	**Landform 1 (Inner Gorges)**	**Landform 2 (Bedrock Hollows)**	**Landform 4 (River Terrace Margin)**	**Landform 5 (Convergent Headwalls)**	**Landform 7 (Active Scarps-DSLS)**	**Landform 9 (Fluvial Erosion along Channels of the Chehalis River)**	**Landform 10 (Non-Rule Identified Inner Gorges)**	**Landform 11 (Steep Gradient Hillslopes >61%)**	**Landform 12 (Moderate Gradient Hillslopes 41-60%)**	**Landform 14 (Flats 0-10%)**	**Landform 15 (Ridgetops and Noses)**	**Landform 16 (Low Gradient Hillslopes 11-40%)**	**Total WAU**
Years	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0	47.0
Landform Area (acres)	476.9	350.1	247.3	101.6	81.6	214.1	122.4	877.7	2027.8	7948.9	343.0	2993.6	15784.8
Number of Landslides (excluding deep-seatedlandslides)	108.0	108.0	16.0	60.0	9.0	43.0	42.0	89.0	88.0	0.0	0.0	0.0	563.0
Landslide Frequency Rate (Number of slides/Landform Area/Years) x 10^6	4818.5	6564.2	1376.6	12566.2	2347.3	4273.2	7302.6	2157.6	923.3	0.0	0.0	0.0	758.9
Number of 'Delivering' Landslides	102.0	105.0	15.0	59.0	0.0	43.0	38.0	69.0	74.0	0.0	0.0	0.0	505.0
Area of 'Delivering' Landslides (acres)	13.6	13.9	2.7	7.2	0.0	16.2	5.5	9.1	8.9	0.0	0.0	0.0	77.0
Landslide Area Rate for Delivery (Delivering Landslide Area/Landform Area/Years) x 10^6	608.1	843.0	235.7	1499.6	0.0	1605.9	947.6	219.9	93.1	0.0	0.0	0.0	103.7
Overall Hazard Rating	Very High	Very High	Very High	Very High	Moderate	Low*	Very High	Very High	Moderate	Low	Low	Low	Moderate

*Analyst-override of calculated hazard rating: calculated as Very High Hazard but downgraded to Low due to its occurence in the floodplain.