The projections are obtained from an ensemble of Regional Climate Models downscaled from 50 km resolution to 10 km resolution using a gridded statistical downscaling method. The downscaling is necessary to provide the required resolution for components on the highway.

The results of this analysis were presented at a risk assessment meeting by PCIC. The analysis showed that the highway indicators at Bella Coola and two other highway sections displayed increases of both average and extreme precipitation for the 2050s. As part of the risk assessment process, PCIC presented the results of this analysis at a meeting. The results showed that the highway indicators at Bella Coola and two other highway sections displayed increases of both average and extreme precipitation for the 2050s.

Output from the downscaled models was used to compute a series of climate indicators related to highway risk assessment, such as short-duration, extreme precipitation or consecutive days with significant precipitation. Future projections of the highway indicators at Bella Coola and the other highway sections along Highway 20 show increased precipitation. The increased precipitation is expected to result in larger rainfall events, which tend to cause the most significant damage to infrastructure. The increased precipitation will also lead to increased runoff and flooding, which are likely to result in more frequent and severe flooding and landslides at 12 locations along the main highway connecting Bella Coola with Tatla Lake and the interior of B.C. The highway passes through steep terrain, and the increased precipitation is expected to result in more frequent and severe flooding and landslides at 12 locations along the main highway connecting Bella Coola with Tatla Lake and the interior of B.C.

The increased precipitation is expected to result in larger rainfall events, which tend to cause the most significant damage to infrastructure. The increased precipitation will also lead to increased runoff and flooding, which are likely to result in more frequent and severe flooding and landslides at 12 locations along the main highway connecting Bella Coola with Tatla Lake and the interior of B.C. The highway passes through steep terrain, and the increased precipitation is expected to result in more frequent and severe flooding and landslides at 12 locations along the main highway connecting Bella Coola with Tatla Lake and the interior of B.C.