

lometre	Current Conditions	Reservoir Conditions and Preliminary Impact Lines Relate
Allometre 87-96	 Location This map sheet covers from approximately river kilometre 87 to 96 (measured downstream from the W.A.C. Bennett Dam). Wilder Creek is located along the north bank near river kilometre 93. Geology and Topography The north bank of Peace River generally comprises low-lying sand and gravel terraces. Upstream of approximately river kilometre 92, the south bank generally comprises high bank slopes in sand and gravel, and interbedded sand, silt and clay. Some of these upper slopes have produced large landslides in the past. Downstream of river kilometre 92, the south bank comprises sand and gravel terraces.	 Proposed Reservoir Within this map sheet, the proposed Site C reservoir would hat 1,400 metres. Based on the river surface elevation at the time an increase in water depth over river conditions ranging from a metres at the downstream end. Preliminary Impact Lines The terraces along the north side of Peace River are located j Reservoir Level. Consequently the flood impact line extends shoreline. On rare occasions, flooding of these low-lying areas combined with high reservoir levels, or from small landslide-get The erosion and stability impact lines through this section a proposed reservoir shoreline and are often located inside the st valley above the crest of the high bank slopes. Downstream or impact lines are typically located between 10 and 40 metres
	Agriculture Assessment Improved (irrigated and/or drained) agricultural land capability ratings are provided for the Site C project component areas where additional soil survey work has been undertaken as part of the Agriculture Assessment. For remaining lands outside the Site C project component areas, including the Peace River valley downstream of the Site C dam, unimproved agricultural land capability ratings are provided. The unimproved ratings reflect published agricultural capability maps from the 1970s, based on an assumed low climatic moisture deficit (CMD) during the growing season in the range of 34 mm. However, subsequent climate studies have confirmed much drier conditions in the Peace River valley, with a CMD in the range of 148 mm, which results in a Class 3 unimproved climatic capability rating. With irrigation, it is likely that Peace River valley soils downstream of the Site C dam historically rated as Class 2 or Class 3 with aridity or soil water holding capacity limitations, which would now be rated as unimproved Class 3 due to climatic limitations, would improve to Class 2 or Class 1 with irrigation.	 Land Use Within Preliminary Impact Lines BC Hydro has developed an approach to land use on private project. BC Hydro's approach would be as follows: BC Hydro would purchase land between the current riverservoir, up to the Maximum Normal Reservoir Level No new residential structures would be permitted within Non-residential structures could remain, pending site s Within the Stability Impact Line, existing residential structures would remain, pending site s Within the Flood, Erosion or Landslide-Generated Wave not be permitted to remain, to protect public safety Other activities such as agriculture, grazing and trapping the stability, and to minimize the amount of land required by the prequired for the impact lines. Where impacts and implications be avoided, BC Hydro will identify and evaluate options for mi
	Peace River Valley Definition BC Hydro defined the Peace River Valley as a spatial area, reflecting the Peace River mainst as the crest of the top of high bank slopes, typically between El. 620 and 850m. The purpose Statement.	tem from the Peace Canyon Dam to the B.CAlberta border. Th of spatially defining the valley was to provide a consistent area

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ed to the Proposed Site C Reservoir

ave a width ranging from about 1,000 metres to of topographic survey, the reservoir would cause about 43 metres at the upstream end to about 47

just above the proposed Maximum Normal several metres inland from the proposed reservoir s could occur due to wind generated waves enerated waves.

are typically located within 40 metres of the flood impact line.

pact line on the south bank is typically located 50 tability impact line is located at the top of the of river kilometre 92, the erosion and stability from the crest of the lower terrace slopes.

property within the impact lines. The approach , and minimizing the amount of land required by the

ver shoreline and the area required for the proposed (461.8 metres above sea level) in impact lines pecific geotechnical assessment uctures could remain for a period of time, at the ical assessment determines that it is safe to do so

ve Impact Line, existing residential structures would

ing could continue within the impact lines

ure public safety while maximizing land use project. BC Hydro will purchase the property rights on zoning, land use and property acquisition cannot tigation.

I may be impacted to discuss their specific property

ne upper edge of the Peace River Valley is defined for use where relevant in the Environmental Impact





