

Item #91:
Impacts to Fish Habitat: Submarine Cable

Potential Impacts to Fish Habitat	Mitigation	Impacts
<p>Disruption of sensitive fish spawning areas (e.g., gravel, cobble, and rock rubble).</p>	<p><u>Serpent River</u> Sensitive fish spawning habitat was not found in the proposed submarine cable proposed location.</p> <p>Visual spawning surveys were conducted for fall salmon and walleye within the area and no spawning indicators were observed.</p> <p>Substrate will not be removed (i.e. no trenching) in water.</p> <p><u>Lizard Creek</u> The distribution line will be located at least 30m from the Lizard Creek highwater mark.</p>	<p>Serpent River: None-low Lizard Creek: None</p>
<p>Erosion and sedimentation caused by disturbance to the shoreline and bed of water bodies.</p>	<p><u>Serpent River</u> Standard temporary sediment and erosion control measures (heavy duty silt fence, reinforced with page wire, rock check dams etc). Final sediment and erosion control plan will be at permitting stage.</p> <p><u>Mitigation:</u> Areas disturbed during construction will be stabilized and replanted with native species. Details will be provided in permitting stage.</p> <p><u>Lizard Creek</u> The distribution line will be located at least 30m from the Lizard Creek highwater mark.</p>	<p>Serpent: Low-moderate Lizard Creek: None</p>
<p>Disruption of riparian (bank)</p>	<p><u>Serpent River</u> Removal will be minimized to 10m (5 meters on left and right bank). 10m of the stream bank will be permanently altered by the installation and potential maintenance of the submarine trench.</p> <p><u>Mitigation</u> A 15m buffer from the highwater mark to the slash line will be maintained around the area to be trenched.</p> <p>Areas disturbed during construction will be stabilized and replanted with native species. Details will be provided in permitting stage.</p> <p><u>Lizard Creek</u> The distribution line will be located at least 30m from the Lizard Creek highwater mark.</p>	<p>Serpent River: Moderate Lizard Creek: None</p>
<p>Removal of vegetation and underwater rocks and logs that provide cover,</p>	<p><u>Serpent River</u> The submarine cable will lay on top of the stream bed. No logs or underwater rocks will be removed.</p> <p><u>Lizard Creek</u></p>	<p>Serpent River: low-moderate Lizard Creek: None</p>

	The distribution line will be located at least 30m from the Lizard Creek highwater mark.	
Removal of shade and food	<p><u>Serpent River</u> Removal will be minimized. Within the 15m riparian buffer 150m of vegetation will be removed (5 m <i>trench width</i> x15m <i>buffer length</i> x 2 <i>left and right bank</i>).</p> <p><u>Mitigation</u> -A 15m buffer from the highwater mark to the slash line will be maintained around the area to be trenched. -Areas disturbed during construction will be stabilized and replanted with native species. Details will be provided in permitting stage.</p> <p><u>Lizard Creek</u> The distribution line will be located at least 30m from the Lizard Creek highwater mark.</p>	Serpent River: low-moderate Lizard Creek: None
Disruption of sensitive fish life stages	Suggested no in-water work from April 1 st to July 15 th .	Serpent River: None-low Lizard Creek: None