

Incident Summary #II-1216902-2021 (#22650) (FINAL)

SUPPORTING INFORMATION	Incident Date	June 14, 2021	
	Location	Interior	
	Regulated industry sector	Passenger ropeways - Above surface ropeway	
	Impact	Qty injuries	0
		Injury description	N/A
		Injury rating	None
	Damage	Damage description	Deropement of haul rope from towers, severed communication cable, various damage to multiple carriers.
		Damage rating	Major
	Incident rating	Major	
	Incident overview	Large tree discovered fallen on ropeway right of way (lift line), haul rope was not supported by towers in this area. Ropeway was not operating at the time the tree fell.	
INVESTIGATION CONCLUSIONS	Site, system and components	The circulating passenger ropeway has carriers (chairs) suspended by a haul rope. Intermediate towers along ropeway lift line support the haul rope with sheave assemblies, accomplishing continuous travel between the load and unload station. A communication cable is suspended between each tower along the length of the lift line. This cable carries the wiring for each tower safety switch and connecting the safety system devices of the load and unload station.	
	Failure scenario(s)	Trees adjacent to the ropeway failed to remain upright during a windstorm.	
	Facts and evidence	<p><u>As reported by duty holder:</u></p> <ul style="list-style-type: none"> • High wind event occurred in days before discovery of ropeway damage • Haul rope deropement occurred during non-operational season • Large trees discovered laying across ropeway right of way • Downhill side haul rope found deroped on two successive towers in area of fallen tree • Communication line broken between the two deroped towers • Carrier damage was discovered throughout the ropeway • An arborist or tree professional had not previously assessed trees adjacent to the ropeway 	

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Facts and evidence	<p><u>Action taken by duty holder:</u></p> <ul style="list-style-type: none">• Complete tower and line equipment was assessed for damage• Complete Haul Rope MRT and visual inspection performed• 100% of carriers were NDT• Excessive damage occurred to two carriers requiring complete replacement• Tree professionals removed more trees after incident along ropeway <p><u>CSA Z98 requirements</u></p> <ul style="list-style-type: none">• Potentially dangerous trees shall be removed from ropeway right-of-way
Causes and contributing factors	<p>It is most likely that a high wind event caused a large tree to fall across the ropeway lift line causing deropement of two towers, severing the communication cable and destroying two carriers plus residual damage to additional carriers.</p>