



## Big Bar Landslide Rock Scaling Operations



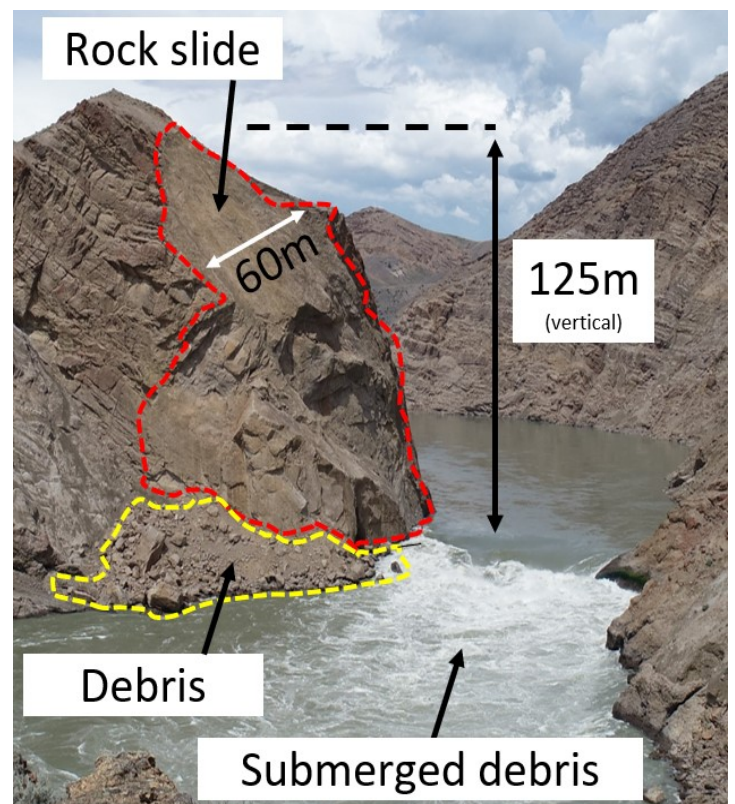
- Rock scalers are making considerable progress with the release of multiple large sections of rock. Between July 4<sup>th</sup> and July 11<sup>th</sup> rock scalers have removed approximately 20 dump truck loads of material from the rock face.
- The rock scalers rappel from the top of the slope to the base, removing hazardous debris and loose rock as they descend. The objective of current rock scaling operations is to stabilize the rock directly above the river bank where the slide occurred. Further actions will not be taken until rock stability is confirmed and the river bank below is deemed operable.
- A new set of light detection and ranging (LiDAR) data has been collected and processed. Preliminary data indicates that the only slope movement that has occurred, since the previous data set was collected, was due to work completed by rock scalers.
- The pre landslide photo taken in the Fall of 2017, pictured bottom left, depicts the sheer magnitude of the rockslide.
- For perspective, as pictured bottom right, the vertical height of the cliff face is approximately 125 metres. Landslide rock and debris has submerged below impeding salmon migration upstream to spawning grounds.
- The rock scalers remove loose rock through manual manipulation using a pry bar. Rock scalers are assisted by helicopters that drop water to sluice loose debris. On larger rocks, rubberized air bags, as pictured right, are placed between rock joints and inflated with compressed air to dislodge unstable the rock.



Rubberized air bag. Size: approximately 0.6 metre by 0.6 metres.



The rock prior to slide.



Scale of the landslide site, for perspective.