

## Stop 5 Till

[00:05] Hello and welcome back this stop we're up Penticton creek near the Penticton water treatment plant and we're going to look at some glacial till. So at the top of our image here um this bit here is glacial till. We don't actually see a lot of glacial till outcrops in the south Okanagan it's certainly around but it's not um super prevalent. The kind of till we're looking at in the bottom section, so down in here, is um a lodgment till or a basal till. So this means material that was deposited at the bottom of a glacier. So we know tills have been deposited in direct contact with ice, this type of till um is deposited on the from the bottom of the glacier. So we've got this glacier plowing across the landscape picking material up um and plastering it down and then eventually the glacier melts and it leaves behind this deposit.

[01:06] Interestingly, here we also have at the top part a little bit of ablation till. This ablation till was deposited off the top of the ice um as the glacier wasted away and so we can tell the difference between them due to differences in particle size. So the ablation till typically has a bit less fine particles, so sand, silts, clays, um and it may even have a little bit of sorting and we might even be seeing a slight amount of fluvial material on the top of that deposit. The lodgment till is more compact, so it's denser, as well as a higher proportion of sand, silt and clay, so fine materials, but we also see um particles from boulder size all the way down to um fine silts and sands. So, um the material is very mixed, so unsorted, um very dense and was deposited from the bottom of the glacier.

[02:18] Okay so I'm just going to zoom in on the top here. So we can get just a bit better look at those different types of till.

[02:32] *Word on screen: Now for a close up*

Here we're looking at the lodgment till and we can see particles from boulder size all the way down to fines. As we go up through this section um we can see towards the top fewer fine particles, but we still have a mix of particle sizes and what looks like it might be some fluvial material at the very top.

[03:01] *Words on screen: Once again, slightly less wobbly*