

**Mt. Nansen Mine Site Bridge Repair:  
Photo Log of sub-structure implementation  
October 2011**



(Photo taken by Colin Urquhart, Project Officer with Assessment and Abandoned Mines)

**This document highlights the key modifications of the bridge sub-structure using photos and brief descriptions of each.**

**This is the area where the bridge will be re-located. The area had been excavated, then had course material added and thoroughly compacted (existing material comprised mostly of sand)**

**Photo 1**



(Photo taken by Jeff Moore, Project Officer with Assessment and Abandoned Mines)

The first of three individual lifts of gravel applied by excavator and thoroughly compacted by COP CAN staff.

Photo 2



(Photo taken by Colin Urquhart, Project Officer with Assessment and Abandoned Mines)

**The third and final lift of gravel applied, levelled and compacted. This process was mirrored on the opposite side of the diversion channel and levelled with a builders level.**

**Photo 3**



(Photo taken by Colin Urquhart, Project Officer with Assessment and Abandoned Mines)

**Lock blocks positioned and levelled in place. Double 8in X 8in timbers used for I-beams to anchor in proper position.**

**Photo 4**



(Photo taken by Colin Urquhart, Project Officer with Assessment and Abandoned Mines)

**Photo of re-bar pins (photo also taken by Colin Urquhart)**



**Bridge has been moved in to its final position**

**Photo 5**



**Photo 6 (opposite side of the diversion channel)**



Timbers were added on one end to carry the load, as the I-Beams were various lengths. The following photos were taken at various angles to document the timbers placed between the beams for structural support, as well as the brackets welded to the beams to ensure the timbers do not move.

Photos 7 and 8



Additional photo documenting the timbers and brackets welded to the I-Beams to keep the timbers in the proper location.

Photo 9



The bridge in its final position with the excavator adjusting the approach angles and cleaning up the disturbed areas.

Photo 10



(Photo taken by Colin Urquhart, Project Officer with Assessment and Abandoned Mines)