

US Silica South Ottawa Mine Development Tunnel, Ottawa, IL

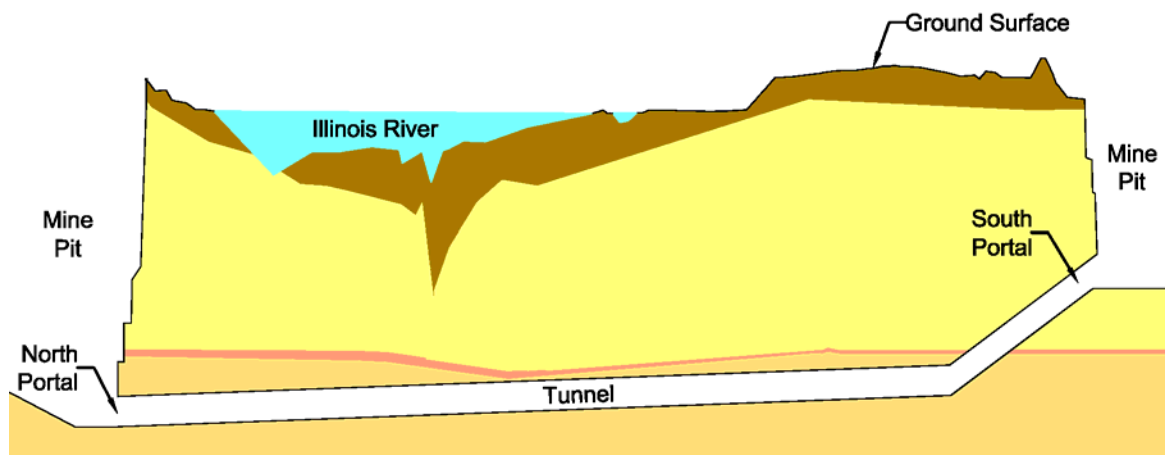
The project involves the design of a tunnel for a materials handling project crossing the Illinois River near Ottawa, Illinois. CNA is the underground construction designer for the crossing. The alignment is 3,400 feet long and approximately 800 feet is directly under the river. Three alignments and several construction methods were considered during selection of the current alignment and method. Subsurface conditions and easement factors necessitated the alignment and method changes. The project was originally conceived as horizontal directional drilling project, but river borings identified deep boulder channels that prevented this method. The construction method selected is an 18-foot diameter tunnel in sandstone and dolomite, to be constructed by either tunnel boring machine, roadheader or drill and blast methods.

Design Phase

- Feasible Study
- Geotechnical Exploration Program, Data Report and Baseline Report
- Tunnel Design
- Tunnel Contract Documents

Construction Phase – To Start in 2004

- Construction observation and coordination
- Construction engineering and project administration



Owner — US Silica, Pat Reeser, 304-258-8239

Completion Date – 2005

Construction Cost \$8 million

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