

GEOLOGY OF THE BUFFER/CONTAINER EXPERIMENT
ROOM 213 OF THE 240 LEVEL

by

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ABSTRACT

The Buffer/Container Experiment is being conducted in Room 213 at the 240 Level of the Underground Research Laboratory as part of the Canadian Nuclear Fuel Waste Management Program. This report describes the geology of Room 213 based on the mapping and borehole data collected between 1989 July and 1990 January. The predominant lithology in the room is a medium- to coarse-grained, gneissic to schlieric, grey granite. Minor coarse- to pegmatitic-granite lenses are concordant with the gneissosity. The rock mass is unfractured and unaltered with the exception of one discontinuous natural fracture located on the floor of the room at the margin of a small xenolith. Combined mapping and borehole results indicate the excavation-damage zone beneath the concrete floor extends from a few millimetres, near the planned emplacement borehole, to approximately one metre near the northeast end of the room.