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important aspect of large
scale engineering projects
ground conditions the
variable nature of soil rock
and potential geo hazards
means geotechnical risk
must be carefully managed
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blp involvement in two large
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realistic determination of the

distribution of time and

costs in each design stage

this process includes

geological modeling as well

as rock mass

characterization the tunnel

design and the assignment

of time and costs the

geotechnical risk can be

evaluated based on the

variation and the'

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target of the course on

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tunnels was to shed light on

the issue of risk in tunnelling

to give guidance concerning

techniques and tools

available on which

procedures to follow during

the various phases of a

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are principal causes in geotechnical risk occurrence'

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and construction of tunnels i

e tunnel engineering is

among the most specialized

fields in geotechnical

engineering and myriad

issues must be addressed before a tunnel can be operational tunnels are important underground structures that accommodate movement of people vehicles water materials etc in this section tunnel engineering aspects such as tunnel design tunnel

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experiencing an age of
fast development for
decades the potential
risks behind the huge
amount of construction
and operation works in
china was first formally
realized and managed
after 2002 the transition of
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potential hazards in tunnels
the current paper presents
three case histories of the
management of tunnel risks
in the wellington region rock
fall inspections are required
by land transport new
zealand in the orongorongo
water supply tunnel to allow
use of the access railway
through the tunnel'**

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as shallow foundations
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measures to minimize settlements by using suitable tunneling methods or by preconditioning the ground to improve its characteristics would be required 8 risk assessment is an important factor in selecting a tunnel alignment construction risks sensitive existing structures very hard spots rock for example beneath parts of a tunnel 12'

'tunnelling in difficult ground how the geotechnical

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targets and residual risk a main task of geotechnical design is to achieve the economic optimisation of the construction taking into account the ground conditions in particular the safety the long term stability and environmental requirement

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risk owners seek the

lowest cost of

construction contractors

do not accept risk they

price risk it s cheaper to

anticipate risks than be

surprised contracts that

anticipate risks result in

fewer claims and lower

costs tunnel projects are

linear and can extend for

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inrush and mud gushing

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the paper tries to classify
water inrush and mud
gushing in railway tunnels in
view of the conditions of the
surrounding rocks and
meteorological factors
associated with tunnel zha
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specialized tools for the

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easily defined it is less

likely that key risks will be

missed and ability to

develop more'

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management

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mon chart when

discussing the risk management in geotechnical engineering is presented below figure 1 it is obvious that for low values of geotechnical investigation cost tender cost adjusted values the total increase in construction cost may vary between 2 and 98 with an average value of 15.25'

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of a fracture zone on the

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introduction a major change occurred at 2400 feet inside the tunnel where the contractor encountered an unstable material which proved extremely difficult to support'

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tunnels practice'

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construction of long railway

and road tunnels in rock a

thorough study and parison

has to be carried out with

respect to the construction

method to be used many

factors''horizontal

geotechnical

investigations for

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drilling vertical borings for

tunnel projects given in

table 1 is a hypothetical

parison of geotechnical

investigation costs for a 300

m roadway tunnel beneath a

ridge with up to 80 m of

cover figure 1 shows a

schematic of the

hypothetical tunnel layout

and a visual representation

of two different
investigation"identify and
analyze the risks involved
in tunnel projects
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associated equivalent 67
cost growth boston
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