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Overview. After

collecting data,

investigators should

evaluate the

information from the...

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Investigations. To

conduct subsurface investigations, field investigation crews can utilize either the rotary... In ...

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5 Methods of In-Situ (Field) Geotechnical Testing 1. Nuclear Density Gauge. The nuclear density gauge or nuclear densometer is the industry

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standard for quickly  
and... 2. Bearing Probe.

A bearing probe or  
hand probe is a tool  
used by geotechnical  
engineers to roughly  
assess the bearing... 3.

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investigations are  
performed by  
geotechnical engineers  
or engineering

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geologists to obtain

information on the

physical properties of

soil earthworks and

foundations for

proposed structures

and for repair of

distress to earthworks

and structures caused

by subsurface

conditions. This type of

investigation is called a

site investigation.

Additionally,

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investigations are also

used to measure the

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thermal resistivity of  
soils or backfill

materials required for  
underground tra

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investigation report. A  
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investigation report is  
based on (i) the results  
of the geologic setting  
and assimilated  
geologic research  
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geotechnical engineer

and (ii) the range of

geotechnical issues

and potential solutions

for selecting the

foundation type. The

geologist and

geotechnical engineer

work with the

structural engineer in

the development of the

engineering design of

the proposed bridge

concept.

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Investigation in  
General An important  
basis for the planning  
and construction of  
building and  
infrastructure projects  
(comprising various  
types of structures as  
foundation, excavation

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pit, land reclamation, beach nourishment etc.) is the knowledge of the ground conditions.

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**Geotechnical Investigation and Laboratory Testing**

- Field Professionals working on all aspects of a NCDOT Geotechnical investigation should understand the scope of work for each project, and strive to convey each site in a detailed and



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Typically, for the initial

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examination of the site

for the development of

the Terrain

Reconnaissance Report

is essential. The site

examination is a visual

assessment of the

territory. When viewing

the landscape in the

field, a logical

comparison may be

made with the soil map

of that location.

## **CHAPTER 4**

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Investigations are

performed to obtain

data on physical

characteristics of

soil/rock around a site

to design earthworks &

proposed structures, or

to support the repair of

distressed

earthworks/structures

caused by subsurface

issues.

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4. Field and laboratory

testing details. In this

section general

information regarding

the location of the site

is discussed as well as

what tools, techniques

and methods were

used in the whole

process of this

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investigations for

proposed sites should

be generally divided

into three separate

phases to minimize

costs and for

developing the

necessary data at each

stage of the approval,

design, and

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construction of a

project: • Preliminary

Investigations

(Adequate information

to justify site selection

and preliminary cost

estimates).

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## **CHAPTER V**

### **GEOTECHNICAL**

### **INVESTIGATIONS**

### **AND STUDIES**

Increasingly,

geotechnical

investigations are

conducted to evaluate

the condition of

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existing projects as part of Operations and Maintenance. This type of investigation places special constraints on the methods which may be used. These constraints should be kept in mind by the designer.

## **Geotechnical Investigations**

values from laboratory and field tests, complemented by well-established



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experience. 2.4

Geotechnical design by  
calculation 2.4.5.2

Characteristic values of  
geotechnical

parameters (2)P The  
characteristic value of  
a geotechnical

parameter shall be  
selected as a cautious  
estimate of the value  
affecting the  
occurrence of the limit  
state.

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Geotechnical design**

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## **geotechnical design**

The purpose of the geotechnical investigation is to identify the existing conditions of the in-situ soils, rock types, and groundwater in respect to the project requirements. The investigation will also identify the chemical and physical properties of the soils and rock.

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