# ISO 15800:2019 (E)

## Soil quality — Characterization of soil with respect to human exposure

# Contents


Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Use of this document

5 Background

5.1 Characterization of soil and sites with respect to human exposure
5.2 Potential human receptors
5.3 Exposure pathways
5.3.1 General
5.3.2 Soil ingestion
5.3.3 Cutaneous contact
5.3.4 Inhalation of dust
5.3.5 Inhalation of vapours (outdoors)
5.3.6 Inhalation of vapours (indoors)
5.3.7 Intake via plants
5.3.8 Intake via animals
5.4 Exposure to asbestos in soil

6 Sampling for site characterization

6.1 Site characterization
6.2 Soil ingestion
6.3 Vapour and dust inhalation
6.3.1 Inhalation of vapour
6.3.2 Inhalation of dust
6.4 Cutaneous contact
6.5 Intake of substances via plants
6.6 Intake of substances via the consumption of animal products
6.7 Synthesis for site sampling in relation with human exposure

7 Characterization of soil as a matrix hosting physical, chemical and biological processes

7.1 Relevant soil processes and parameters
7.2 Measurement/analysis of soil characteristics
7.2.1 Physical characteristics of soils
7.2.2 Chemical characteristics of soil

8 Analytical strategy

8.1 Characterization of contamination
8.2 Characterization of contamination in relation to exposures
8.2.1 General
8.2.2 Metals and metalloids
8.2.3 Bioaccessibility and bioavailability
8.2.4 Organic contaminants
8.2.5 Soil/substance related parameters

9 Management of results

**10 Data handling, evaluation and quality**

**Annex A (informative) Exposure pathways depending on the site use**

**Annex B (informative) Methods and ISO standards**

**Page count: 36**