

# ISO 18589-1:2019-11 (E)

## Measurement of radioactivity in the environment - Soil - Part 1: General guidelines and definitions

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	2
3.1	General terms .....	2
3.2	Terms relating to soils .....	2
3.3	Terms relating to sampling .....	3
4	Symbols .....	5
5	Origins of the radioactivity in soils .....	5
5.1	Natural radioactivity .....	5
5.2	Other sources of radioactivity in soils .....	6
6	Objectives of the study of soil radioactivity .....	6
6.1	General .....	6
6.2	Characterization of radioactivity in the environment .....	6
6.3	Routine surveillance of the impact of nuclear installations or of the evolution of the general territory .....	7
6.4	Investigations of accident and incident situations .....	7
6.5	Planning and surveillance of remedial action .....	7
6.6	Decommissioning of installations or clearance of materials .....	7
7	Principles and requirements of the study of soil radioactivity .....	8
7.1	General .....	8
7.2	Planning process -- Sampling strategy and plan .....	9
7.3	Sampling process .....	9
7.4	Laboratory process .....	10
7.4.1	Preparation of samples .....	10
7.4.2	Radioactivity measurements .....	10
7.5	General procedural requirements .....	11
7.6	Documentation .....	12
Bibliography .....		13