

# ISO 11504:2017-08 (E)

## Soil quality - Assessment of impact from soil contaminated with petroleum hydrocarbons

---

<b>Contents</b>		<b>Page</b>
Foreword .....		iv
Introduction .....		v
1	Scope .....	1
2	Normative references .....	1
3	Terms and definitions .....	1
4	Principle .....	3
5	Relevant fractions and individual compounds .....	4
5.1	General .....	4
5.2	Fractions .....	4
5.3	Individual compounds .....	5
6	Petroleum hydrocarbons in soil .....	6
7	Exposure assessment of petroleum hydrocarbons in soil .....	8
7.1	General .....	8
7.2	Relevant exposure routes for petroleum hydrocarbons .....	9
7.3	Exposure assessment methods .....	9
7.4	Toxicity assessment methods .....	10
7.5	Relations between oil fractions in different media related to exposure .....	11
8	Issues related to sampling and investigation .....	13
8.1	General .....	13
8.2	Issues related to analysis .....	13
Annex A (informative) Physico-chemical properties of different petroleum hydrocarbons, etc .....		15
Annex B (informative) Examples of suggested tolerated concentration in air (TCA) and tolerable daily intake (TDI) values for different specific petroleum hydrocarbons .....		19
Annex C (informative) Overview of suggested fractionations in different countries .....		20
Bibliography .....		22