

ISO 18400-102:2017-01 (E)

Soil quality - Sampling - Part 102: Selection and application of sampling techniques

Contents		Page
Foreword		v
Introduction		vi
1	Scope	1
2	Normative references	1
3	Terms and definitions	2
4	Principle	3
5	General aspects	4
5.1	Health and safety	4
5.2	Preliminary information	4
5.3	Sample types	5
5.4	Sample size	7
5.5	Available techniques	7
6	Selection of sampling techniques	20
6.1	General	20
6.2	Drilling rigs and ancillary equipment	22
7	General aspects of application	22
7.1	General aspects of field work	22
7.2	Environmental considerations	23
7.3	Cross-contamination	25
7.4	Preparing to sample	26
7.5	Breaking out	26
7.6	Collection of samples	27
7.7	Transport, storage, and preservation of samples	27
7.8	Backfilling of exploratory holes	27
7.9	Disposal of waste materials	28
7.10	Personnel	28
8	Taking samples of top-soil and other near surface materials	28
8.1	Undisturbed samples	28
8.1.1	General	28
8.1.2	Procedure for use of sampling cylinders	29
8.2	Disturbed samples	29
8.2.1	General	29
8.2.2	Procedure	30
9	Sampling at greater depths	30
9.1	Undisturbed samples	30
9.1.1	Sampling from trial pits	30
9.1.2	Other sampling methods	31
9.2	Disturbed samples	31
9.2.1	General	31
9.2.2	Agricultural sites, etc	31
9.2.3	Contaminated sites	31

10	Sampling stockpiles	32
10.1	General	32
10.2	Sampling equipment	32
Annex A (informative) Application of particular techniques		34
Annex B (informative) Manually and power-operated sampling equipment		40
Annex C (informative) Illustration of some selected drilling and sampling equipment		47
Annex D (informative) Sampling equipment for stockpiles		64
Annex E (informative) Examples of large samplers		66
Bibliography		69