

British & International Standards and Codes of Practice

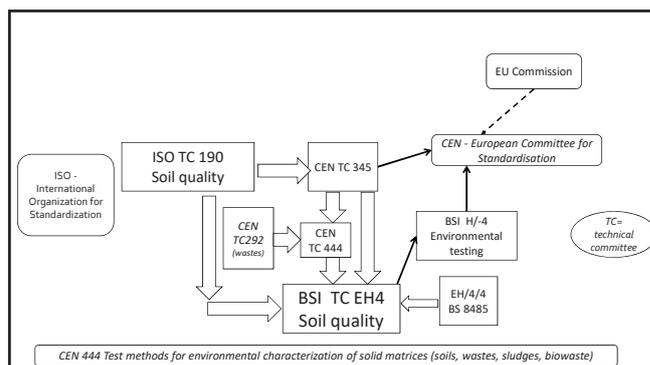
Mike Smith
Brownfield National Forum, July 2018



- BS 10175
 - Amendment 1
 - 2017 Amendment 2
- BS 8576
- BS 8485
 - 2018 Amendment 1
- BS 10176:2019?
- BS 5930
 - 2018 Amendment 1
- BS 1377-3 (*revision*)
- BS ISO 18504:2017 Sustainable remediation
- BS ISO 18400 series

B526/3 Site Investigation & Ground Testing

- "Shadows" CEN TC 341 & ISO TC 182 – BSI Secretariat
- *Ground investigation & testing*
- ISO EN 14688-1 & -2, 14869 Identification, description, classification
- ISO EN 17892 series
- ISO EN 22282 series
- ISO EN 22475 series
- ISO EN 22476
- ISO EN 22477 series

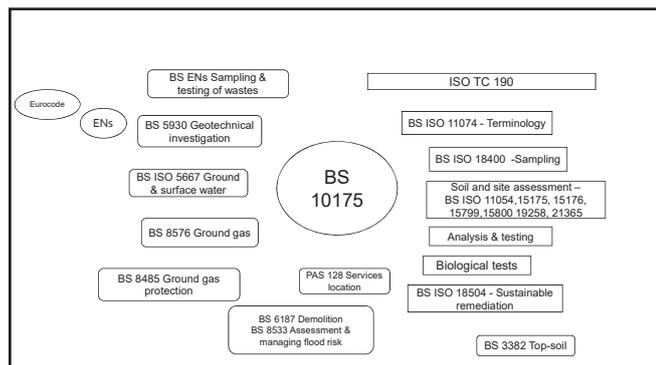


ISO TC190 Soil quality

- WG1 Climate change
- WG2 Terminology, and data management
- SC3 Chemical & physical characterization (*Secretariat = DIN*)
- SC4 Biological characterization (*AFNOR*)
- SC7 Impact assessment (*DIN*)
- *Secretariat TC190 = DIN (Germany)*
- *Convenors of WGs = DIN & AFNOR (France)*

BS EH4 Soil quality (July 2018)

- AGS
- BGS
- BLRS
- BSS
- CEH
- CIEH
- Environment Agency
- EIC
- ESA
- Geological Society (CLSG)
- ICE
- IES
- MeD
- NHBC
- RSC
- SoBRA
- Society of Biology
- SCI
- The James Hutton Institute
- University of Glasgow
- Water UK
- YALPAG
- *Experts (members of BSI, CEN & ISO Working Groups):*



BS ISO 18400 series

- Applicable whenever the quality of soil is to be determined
- (Potentially) contaminated sites
- Agricultural sites
- Natural and near-natural sites
- Wooded sites

BS ISO 18400 series – published April 2017

- BS ISO 100 – Selection of sampling standards
- BS ISO 101 - Sampling plan
- BS ISO 102 - Sampling techniques & application
- BS ISO 103 – Safety
- BS ISO 105 - Transport, storage & preservation
- BS ISO 106 - Quality assurance
- BS ISO 107 - Sampling report
- BS ISO 201 - Sample pretreatment (on-site) after sampling
- *ISO 204 – Investigations for soil gas*

BS ISO 18400 series – to come (July 2018)

- BS ISO 104 – Strategies (FDIS published July 2018)
- BS ISO 202 – Preliminary investigations (FDIS published July 2018)
- ISO 203 - Potentially contaminated sites (FDIS published July 2018)
- BS ISO 205 – Natural, near-natural and agricultural sites etc. (FDIS Published July 2018)
- BS ISO 206 – Sampling for aerobic microbial assessments etc. (will replace BS ISO 10381-6) – FDIS published 2018

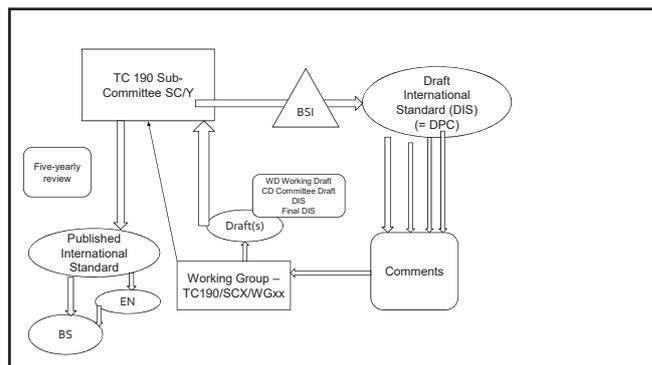
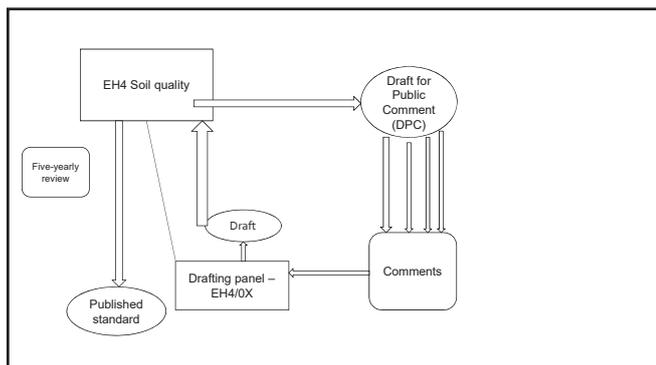
18400-104 Scope

Provides guidance for when information is required about:

- the average properties of soil
- the variability of soil properties - ("small" scale)
- the spatial distribution of soil properties – ("large" scale, scale of interest)

In the pipeline -

- [BS] EN ISO 15175 Soil and groundwater protection
- BS ISO 15176 Re-use of excavated soil
- [BS] ISO 15799 Ecotoxicological characterization
- [BS] ISO 15800 Human exposure
- [BS] ISO 17924 Human bioaccessibility
- [BS] ISO 19258 Background concentrations
- [BS] ISO 21365 Conceptual site models



Producing standards

- Open process for drafting and comment – anyone can comment
- Regular revision
- Voluntary participation – by organisations and individuals
- Almost all standardisation at International and/or European level
- All countries finding it difficult to find “experts”
- How to achieve effective consultation ?

- Draft documents (NWIPs, CDs & DISs) are available electronically to all EH4 Members – it is their responsibility to consult those they represent.
- Documents can be posted on member-only parts of web-sites or otherwise made available to members for the purpose of review.
- Drafts for Public Comment including Draft International Standards can be obtained from BSI by anyone
- Comments can be submitted by individuals or via organisations represented.
- Comments **must** be in a prescribed format – alternative wordings **must** be suggested. Commenting is usually possible via BSI portal
- BSI produces a consolidated list of comments to go forward to international Working Groups after “weeding”.

BS 10176 - Sampling for VOCs in soil

- Guidance currently in two analytical standards (BS EN 15009:2016 & BS EN ISO 22155:2016) and guidance on long-term storage of samples (BS ISO 18512:2007).
- Guidance for application in the field required.
- Combination of specification (samples shall be taken and handled correctly) and guidance (e.g. sampling access technique – windowless or ?)
 - *Drafting Panel EH4/06 started work in May 2018*

Revision of BS 10175

- 2019 onwards ?
- Is it needed ?
- Is it wanted ?
- “Light” or “full” ?
- What to do about asbestos?
- Are there people willing to do the necessary work ?

ISO TC 190 – future themes

- Climate change
- Sustainable use of soil

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sci

• Society of Chemical Industry

