

**Appendix D**

**Guidelines for Workplace Methods  
Included in the NCASI Methods Manual**

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# **Guidelines for Workplace Methods Included in the NCASI Methods Manual**

## **1.0 Introduction**

- 1.1** To be consistent with the content of existing National Institute for Occupational Safety and Health Workplace Methods, the following guidelines were adopted.

## **2.0 Body Of Method (Workplace Methods)**

- 2.1** NCASI workplace monitoring methods must contain the following sections. All sections are considered mandatory for all methods and include the elements contained in NIOSH methods. If the description of the procedure for a particular method is extensive, additional numbered sections may be inserted as required to allow logical division of the procedure (e.g., sampling, sample preparation, measurement); however, the sections listed below must appear in each method in the order listed.

- 2.1.1** Applicability
- 2.1.2** Interferences
- 2.1.3** Reagents
- 2.1.4** Equipment
- 2.1.5** Procedure
- 2.1.6** Calibration and quality control
- 2.1.7** Measurement/Instrument Conditions
- 2.1.8** Calculations
- 2.1.9** Evaluation of the method
- 2.1.10** Alternative procedures
- 2.1.11** References
- 2.1.12** Tables, diagrams, flowcharts, and validation data

## **3.0 NIOSH Method Validation**

These methods must be evaluated according to the NIOSH method validation criteria. This section on Evaluation of the Method includes the following.

**3.1 Laboratory challenge: matrix**

**3.1.1** Analyte concentration range

**3.1.2** Interferents tested (noting positive responses)

**3.2 Field challenge: matrix (or atmospheres tested)**

**3.2.1** Analyte concentration range

**3.2.2** Interferents tested or identified

**3.3 Precision and accuracy:**

Overall accuracy number determined according to NIOSH criteria for laboratory testing (field testing also, if available).

**4.0 Reference**

NIOSH Method 5500 for Ethylene Glycol is included herein for reference.