ISO 20426:2018 (E)

Guidelines for health risk assessment and management for non-potable water reuse

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms, definitions and abbreviated terms

4 Concepts of health risk assessment and management for non-potable water reuse

- 4.1 Risk assessment and management framework
- 4.2 Scope of end-uses of reclaimed water
- 4.3 Risk management framework

5 Health risk assessment

- 5.1 Identification of hazard and hazardous events
- 5.1.1 Constituents in source water
- 5.1.2 Hazardous events, exposure route and exposure at end-use
- 5.2 Assessment of risk levels
- 5.2.1 Qualitative risk assessment
- 5.2.2 Quantitative risk assessment
- 5.3 Limitations and uncertainties

6 Risk management

- 6.1 Risk management with risk control measures
- 6.2 Source control measures
- 6.3 Treatment control measures
- 6.3.1 Treatment barriers and monitoring methods
- 6.3.2 Monitoring of reclaimed water quality
- 6.3.3 Performance control points (PCPs)
- 6.4 Measures of end-use control

7 Monitoring

- 7.1 General
- 7.2 Compliance monitoring
- 7.3 Performance monitoring
- 7.4 Quality control and quality assurance

Annex A (informative) Pathogens that are often detected in raw wastewater

Annex B (informative) Quantitative health risk assessment

- B.1 General
- B.2 Hazard identification
- B.3 Exposure assessment
- B.4 Dose-response assessment
- B.5 Health risk characterization

Annex C (informative) Examples of PCPs and monitoring parameters

Annex D (informative) Example of performance and compliance monitoring parameters in water reclamation system

Page count: 23