



# Appendix B – Qualitative risk assessment template

This template example shows you how to assess your pollution or waste under future emission scenarios and time horizons. Any added controls identified should be transferred to your organisational risk management framework. This is so they can be implemented and monitored as part of your routine risk management.

| Risk # | Climate hazard                 | Risk description   | Potential harm  | Existing controls (for existing plant) or controls planned within current design (for new plant)                               | Risk assessment<br>Time horizon emission scenario<br>(for example 2050 RCP4.5) |             |             | Risk assessment<br>Time horizon emission scenario<br>(for example 2050 RCP8.5) |             |             | Additional controls (including whether they are short, medium or long term controls)   | Residual risk<br>Rating post additional controls (for example 2050 RCP4.5) |             |             | Residual risk<br>Rating post additional controls (for example 2050 RCP8.5) |             |             |
|--------|--------------------------------|--|---|--|--|-------------|-------------|--|-------------|-------------|--|--|-------------|-------------|--|-------------|-------------|
|        |                                |  |   |  | likelihood   | consequence | Risk rating | likelihood   | consequence | Risk rating |  | likelihood   | consequence | Risk rating | likelihood   | consequence | Risk rating |
|        | Example more frequent droughts | More frequent droughts increases the likelihood of drying ground conditions. This can result in increased potential pipe cracking and failure and unplanned discharges | This can lead to pollution of surface water and groundwater and harm aquatic ecosystems | Geotechnical assessment including appropriate pipeline design for current climate conditions<br><br>Remediate damaged pipework | rare   | major       | medium      | unlikely   | major       | medium      | Geotechnical assessment including pipeline design will consider future projections of drought conditions<br><br>Stress/ movement sensors will be installed | rare   | moderate    | low         | unlikely   | moderate    | medium      |