|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Variable** | **Variable influence on process** | | | **Process influence on variables** | | |
| **Influence present? (Yes/No Description)** | **Time period/Climate domain** | **Handling of influence (How/If not - Why)** | **Influence present? (Yes/No Description)** | **Time period/Climate domain** | **Handling of influence (How/If not - Why)** |
| Temperature in bedrock | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Groundwater flow | Yes | Excavation/operation | The process is neglected. Although the flow in large fractures at depth might be significant the shear force is still very low (see Section 4.6.7). | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Groundwater pressure | Yes | Excavation/operation | The process is neglected. Although the flow in large fractures at depth might be significant the shear force is still very low (see Section 4.6.7). | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Gas phase flow | Yes | Excavation/operation | Process neglected; No gas flow sufficiently strong is expected, see row Groundwater flow above. | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Repository geometry | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Fracture geometry | Yes | Excavation/operation | The process is neglected. Although the flow in large fractures at depth might be significant the shear force is still very low (see Section 4.6.7). | Yes | Excavation/operation | Process neglected; site observations indicating limited significance at repository depth. |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Rock stresses | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Matrix minerals | Yes | Excavation/operation | Neglected since the bonding strength is much larger than the erosive force. | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Fracture minerals | Yes | Excavation/operation | The process is neglected. Although the flow in large fractures at depth might be significant the shear force is still very low (see Section 4.6.7). | Yes | Excavation/operation | Process neglected; site observations indicating limited significance at repository depth. |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Groundwater composition | Yes | Excavation/operation | The process is neglected. Although the flow in large fractures at depth might be significant the shear force is still very low (see Section 4.6.7). | Yes | Excavation/operation | Process neglected; site observations indicating limited significance at repository depth. |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Gas composition | No | Excavation/operation | — | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Structural and stray materials | Yes | Excavation/operation | The process is neglected. Although the flow in large fractures at depth might be significant the shear force is still very low (see Section 4.6.7). | Yes | Excavation/operation | Process neglected; site observations indicating limited significance at repository depth. |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |
| Saturation | Yes | Excavation/operation | Neglected; in unsaturated rock volumes the expected gas flow is too low to cause erosion. | No | Excavation/operation | — |
| Temperate | Temperate |
| Periglacial | Periglacial |
| Glacial | Glacial |