See section 8 of *Manual 012* for information on liability estimates.

Attach a completed form to each well application submitted via OneStop to facilitate a timely review of your application.

This checklist is not an exhaustive list of criteria that could comprise a comprehensive liability estimate. Add lines to the form for any additional items specific to your comprehensive liability estimate. If a checklist item is not applicable, enter N/A (not applicable) and state why. The AER may request additional information to support the cost estimates provided (e.g., the tasks and materials considered with their rates and quantities).

|  |  |
| --- | --- |
| **Part 1: General Information**  *Complete this section for all applications.* | |
| 1. Company name |  |
| 1. BA code |  |
| 1. Resource type *(Enter geothermal or mineral)* |  |
| 1. Licence Type  *(Type code. See Directive 056, table 5.)* |  |
| 1. Legal land description *(XX/XX-XX-XXX-XX WXM)* |  |
| 1. Proximity to nearby environmentally sensitive areas | Distance (km):  *Describe how the proximity of environmentally sensitive areas affects the cost estimate (if at all).* |
| 1. Proximity to nearest urban area | Distance (km):  *Describe how the proximity of the nearest urban area affects the cost estimate (if at all).* |
| 1. Is the well new or converted? *(Enter new or converted.)* |  |
| 1. Well depth (m) |  |
| 1. Well diameter (m) |  |
| 1. Downhole completion scenario  *(i.e., empty not perforated, empty perforated, tubing only, tubing and rods)* |  |
| 1. Abandonment geographic region *(See Directive 006, appendix 7.)* |  |
| 1. Reclamation geographic region *(See Directive 006, appendix 8.)* |  |

|  |  |
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| **Part 2: Converted or Existing Well License**  *Complete this section if your well is being converted to geothermal or mineral use or has been previously licensed.* | |
| 1. Provide the existing well licence number. |  |
| 1. Has a Phase 1 Environmental Site Assessment (ESA) been completed and submitted? *(Enter yes or no.)*  See section 8 of *Manual 012* for AER expectations. |  |
| 1. Does the Phase 1 ESA indicate potential contamination or similar environmental issues warranting further investigation? *(Enter yes or no.)*   See section 8 of *Manual 012* for more information. |  |
| 1. Is there surface casing vent flow/gas migration? *(Enter yes or no.)* |  |
| 1. Is there an unrepaired casing failure? *(Enter yes or no.)* |  |
| 1. Provide relevant OneStop submission IDs for any ESAs and the report title. |  |

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| **Part 3: Estimated Care and Custody and Abandonment Costs**  *Complete this section for all applications.* | | |
| **Category** | **Task description** | **Task cost estimate ($)** |
| **Care and custody:**  *List the care and custody tasks considrered. For example, managing hazards to protect public safety and the environment, site security, testing well head and casing integrity, maintaining monitoring and reporting programs, lease inspection, vegetation monitoring, etc.).* |  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
| **Abandonment:**  *Consider the well depth (m), diameter (m), wellbore configuration, and geographic area (Directive 006, appendix 7), list the abandonment tasks considered. Some factors to consider in the cost estimate are listed below:*   * *planning and preparing the site for abandonment* * *removing all downhole equipment* * *abandoning all completed formations with porous zone isolation* * *removing surface equipment* * *testing for and eliminating surface casing vent flow and gas migration* * *waste disposal, including transportation* * *groundwater protection (protected intervals)* * *proposed plugging materials (i.e., cement and other materials)* * *managing on-site hazards to protect public safety and the environment* * *contingency allocation* * *other applicable factors*   *The list is not exhaustive. Please list any additional factors considered in the abandonment cost estimate. Justify why a listed factor was not considered.* |  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
| **Additional considerations**  *For example, what additional abandonment costs relate to the proximity of an urban area or environmentally sensitive areas, an active mining area, remote access locations, etc.* |  | 0 |
| **Total care and custody and abandonment cost estimate ($)** | | **0**  ***(Right click to update field)*** |

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| --- | --- | --- |
| **Part 4: Estimated Remediation Costs**  *Complete this section for all applications.* | | |
| **Category** | **Task description**  *Enter a brief description, for example, Phase 2 ESA* | **Task cost estimate ($ )** |
| **Remediation:**  *Some factors to consider in the cost estimate are listed below:*   * *planning and overall project coordination* * *environmental site assessment* * *completing a Phase 2 environmental site assessment* * *remediating the site* * *public safety and the environment* * *contingency allocation* * *other applicable factors*   *The list is not exhaustive. Please list any additional factors considered in the remediation cost estimate. Justify why a listed factor was not considered.* |  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
| **Additional considerations**  *For example, what additional remediation costs relate to the proximity of an urban area or environmentally sensitive areas, an active mining area, remote access locations, etc.* |  | 0 |
| **Total remediation cost estimate ($)** | | **0**  ***(Right click to update field)*** |

|  |  |  |
| --- | --- | --- |
| **Part 5: Estimated Reclamation Costs**  *Complete this section for all applications.* | | |
| **Category** | **Task description**  *Enter a brief description, for example, Phase 1 ESA* | **Task cost estimate ($)** |
| **Reclamation:**  *Some factors to consider in the cost estimate are listed below:*   * *completion of a Phase 1 environmental site assessment* * *removing surface materials* * *replacing subsoil and topsoil* * *recontouring the site* * *planting, maintaining, and monitoring vegetation* * *preparing a detailed site assessment* * *contingency allocation* * *applying for a reclamation certificate* * *other applicable factors*   *The list is not exhaustive. Please list any additional factors considered in the reclamation cost estimate. Justify why a listed factor was not considered.* |  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
|  | 0 |
| **Additional considerations**  *For example, what additional reclamation costs relate to the proximity of an urban area or environmentally sensitive areas, remote access locations, etc.* |  | 0 |
| **Total reclamation cost estimate ($)** | | 0  ***(Right click to update field)*** |

|  |  |
| --- | --- |
| **Grand total liability estimate ($):** |  |

The signature below certifies that the information contained herein is complete and accurate based on the best available information.

|  |  |
| --- | --- |
| Legal acknowledgement | |
| Signature of corporate signing officer or Director: | Date (mm/dd/yyyy): |
| Position and professional designation: |