<insert name> Trail/Network

Appendix 4B: Impact Evaluation Checklist

|  |  |
| --- | --- |
| A – Land Details | |
| Land Manager |  |
| Local Government Authority |  |
| Private property/Reserve Name and Location | |
|  | |
| Tenure and Primary Management Objective of Lands | |
|  | |

|  |
| --- |
| B – Proposed Project |
| Purpose |
|  |
| Type & Extent of Proposed Project |
|  |
| Alternative Options Considered |
|  |
| Implications of Postponement or ‘Do Nothing’ Option |
|  |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| C – Impact Evaluation | | | | | | | |
| Indicate with Y/N in **Acceptable** column if proposed work is acceptable or not with respect to the environmental/management issue listed. If it’s not acceptable, consider acceptability of modified proposal in **Modified** column or the **Do Nothing** column. The Comments column is for detailing action/s required to overcome/minimise adverse impact, or if no information is available to allow a decision. | | | | | | | |
| Issues | Acceptable | | | Modified | | Do Nothing | Comments Indicate action required to overcome/minimise adverse impact, or if no information is available to allow a decision. |
| 1. **Management Considerations** | | | | | | | |
| * 1. Does the area have a management plan or strategy? |  |  | | |  | |  |
| 1.2 Does the proposal conflict with existing policy or management plan? |  |  | | |  | |  |
| 1.3 How will the proposal affect neighbouring land holders and community interests |  |  | | |  | |  |
| 1.4 How will the proposal affect land management considerations e.g: |  |  | | |  | |  |
| * Fire management |  |  | | |  | |  |
| * Roads |  |  | | |  | |  |
| * Other recreation or tourism |  |  | | |  | |  |
| 1.5 How will the proposal affect or be affected by existing or planned land use e.g: |  |  | | |  | |  |
| * Mining and exploration |  |  | | |  | |  |
| * Basic Raw Material (gravel, rock and borrow pits) |  |  | | |  | |  |
| * Forestry |  |  | | |  | |  |
| * Utility lines |  |  | | |  | |  |
| * Water catchment |  |  | | |  | |  |
| * Commercial activities (e.g. apiarist) |  |  | | |  | |  |
| 1.6 How will the proposal affect or be affected by neighbouring land use? |  |  | | |  | |  |
| 1.7 Are there any research plots, scientific study areas and reference sites in the proposed area? |  |  | | |  | |  |
| 1. **Plant Disease, Ferals, and Weeds** | | | | | | | |
| 2.1 Diseases (e.g. dieback, armillaria, cankers etc) |  |  | | |  | |  |
| 2.2 Will area require baiting buffers? |  |  | | |  | |  |
| 2.3 Declared weeds, or other environmental weeds |  |  | | |  | |  |
| 1. **Flora, Fauna and Ecosystems** | | | | | | | |
| 3.1 Declared Rare Flora or Priority Species, Threatened Communities or restricted, unusual or poorly reserved vegetation associations |  | |  | |  | |  |
| 3.2 Declared Rare or Endangered fauna, translocation programs, release sites or restricted habitats. |  | |  | |  | |  |
| 3.3 Diverse Ecosystem Zones including rivers, streams, swamps, lakes, gorges, rock outcrops etc. |  | |  | |  | |  |
| 3.4 Fauna Habitat Zones |  | |  | |  | |  |
| 3.5 Old-growth Forest |  | |  | |  | |  |
| 1. **Cultural Heritage** | | | | | | | |
| 4.1 Registered Aboriginal sites |  | |  | |  | |  |
| 4.2 Is the area subject to a Native Title claim? Has DAA or the Aboriginal Land and Sea Council been advised? Have Working Party members been consulted? |  | |  | |  | |  |
| 4.3 Does the area adjoin or contain any places on the following lists: |  | |  | |  | |  |
| * Register of the National Estate |  | |  | |  | |  |
| * Register of Heritage Places |  | |  | |  | |  |
| * Municipal inventory for the local council |  | |  | |  | |  |
| * Land manager heritage database |  | |  | |  | |  |
| 1. **Recreation and Access** | | | | | | | |
| 5.1 How will the area be accessed? |  | | |  |  | |  |
| 5.2 Is there a potential conflict with existing recreation use, events and/or commercial tour operators? |  | | |  |  | |  |
| 5.3 How will visitor safety be managed? |  | | |  |  | |  |
| 5.4 Landscapes, features, wilderness appreciation. |  | | |  |  | |  |
| 5.5 Increased demand for facilities and service (rubbish disposal, toilets etc) |  | | |  |  | |  |
| 1. **Geology, Landform and Soils** | | | | | | | |
| 6.1 Caves, fossils, or dunes |  | | |  | |  |  |
| 6.2 Soil erosion (water or wind) |  | | |  | |  |  |
| 6.3 Soil mixing or soil compaction |  | | |  | |  |  |
| 6.4 Soil compatibility |  | | |  | |  |  |
| 1. **Hydrology** | | | | | | | |
| 7.1 Stream or impoundment sedimentation |  | | |  | |  |  |
| 7.2 Altered run-off, impeded drainage or water logging |  | | |  | |  |  |
| 1. **Monitoring** | | | | | | | |
| 8.1 How and when will the effects of the proposed operation be monitored? |  | | |  | |  |  |
| 8.2 Who is responsible for completing the monitoring? |  | | |  | |  |  |
| 8.3 Have resources been made available for monitoring? |  | | |  | |  |  |
| 8.4 Who will be provided with the monitoring results, and what is expected to happen with the results? |  | | |  | |  |  |

|  |
| --- |
| D – Level of Approval Required |
|  |

|  |  |  |  |
| --- | --- | --- | --- |
| E – Proponent/s | | | |
| Signature |  | Date |  |
| Name/Position |  | | |
| Signature |  | Date |  |
| Name/Position |  | | |

|  |  |  |  |
| --- | --- | --- | --- |
| F – Endorsements/Approvals | | | |
| Comments |  | | |
| Signature |  | Date |  |
| Name/Position |  | | |
| APPROVED / NOT APPROVED Date | | | |

# Explanatory Notes

|  |  |  |
| --- | --- | --- |
| Item | Comment | |
| Section A – Land Details | | |
| Land Manager: | Identify who the land manager is. | |
| LGA: | Identify the Local Government Authority in which the Park / Reserve is located. This will be important in determining whom to contact regarding “Municipal Inventory” information if not the same as the land manager. | |
| Park / Reserve Name and Location: | Identify the gazetted name of the Park / Reserve and any additional information regarding the locality or block name that may be relevant, and provide a map with the Checklist.  Identify the project area boundary. | |
| Primary Management Objective of the Park / Reserve: | Clearly identify the primary management objective of the Park / Reserve, and include the identification of any proposed zoning classification that is applied to the Park / Reserve. | |
| Section B – Proposed Works | | |
| Purpose: | Provide a clear description of the purpose of the work proposed for evaluation.  The proposed project must be broken down into its component parts, and the location and extent of each of these parts quantified in detail. The proposed location of the project should be mapped at a scale that enables it to be effectively assessed. | |
| Alternative Options Considered: | Briefly outline the other options that were considered, and provide a short justification as to why they were not preferred. | |
| Implications of postponement or ‘Do Nothing’ option: | Briefly outline the implications of delaying the completion of the proposed work or of doing nothing. | |
| Section C – Impact Evaluation | | |
| **Management Considerations** | | |
| 1.1 Does the area have a management plan strategy or master plan? | Outline the management documents available for the area. | |
| 1.2 Does the proposal align with existing policy or management plan? | Describe how the proposed project aligns with any existing management documents. | |
| 1.3 How will the proposal affect neighbouring land holders and, and community interests | Will the proposed project affect neighbouring land holders? Is the proposal likely to adversely affect local community interests? How will this be managed? | |
| 1.4 How will the proposal affect land management considerations e.g: |  | |
| * Fire management | Consider how the proposed project may affect prescribed burning activities or bush fire management (additional firebreaks, recreation site protection during prescribed burning, review prescribed burn plan etc) | |
| * Roads | Review the proposed project against strategic roads (existing and future) for potential changes required or conflicts. | |
| * Other recreation or tourism | Review the proposed project against existing recreation and tourism activities in the area for conflicts and opportunities (e.g. shared facilities). | |
| 1.5 How will the proposal affect or be affected by existing or planned land use e.g: |  | |
| * Mining and exploration | Identify weather there are any mining operations that are likely to impact on the Park/Reserve in the future. | |
| * Basic Raw Material (BRM) e.g. gravel, rock and borrow pits | Identify the quantities of BRM required. Where will this be obtained from and any ongoing commitments from the Park/Reserve. How will BRM extraction areas be rehabilitated? | |
| * Forestry | Identify whether the area is leased to any forestry organisations or companies. How will consultation with forestry organisation/companies be undertaken? How will the proposed project be managed around harvesting operations? | |
| * Utility lines | Identify any public utilities within the proposed project areas and whether these will be affected by the project. | |
| * Water catchment/public drinking water source areas (PDSWA) | Identify whether or not the proposed project is within water catchment or PDWSA. Does the proposal conform to any existing or proposed management plans or policy? e.g. Operational policy 13 – Recreation within Public Drinking Water Source Areas on Crown land. | |
| * Commercial activities (e.g. apiarist) | Identify if the proposed project may affect any approved commercial activity on the Park/Reserve. | |
| 1.6 How will the proposal affect or be affected by neighbouring land use? | Identify neighbouring land use that is likely to affect the proposal, or where the proposed project is likely to affect the neighbouring land use. | |
| 1.7 Are there any research plots, scientific study areas and reference sites in the proposed area? | Identify whether there are any research plots, scientific study or reference sites that may be affected by the proposed project. | |
| 1. **Plant Disease, Ferals and Pests, Weeds** | | |
| 2.1 Diseases (e.g. Dieback, *Armillaria*, Cankers etc) | If no dieback report is available for the area, complete a survey and develop a hygiene management plan.  Identify the presence of Armillaria and provide proposed operational strategies to manage this.  Identify whether the native vegetation in the area exhibits symptoms of cankers. | |
| 2.2 Will area require baiting buffers? | Identify whether the area will require a buffer for 1080 baiting. | |
| 2.3 Declared weeds, or other environmental weeds | Are there known infestations of weeds in the Park/Reserve? Identify if the proposed project may cause introduction or spread of weeds. What will be the management costs? | |
| 1. **Flora, Fauna and Ecosystems** | | |
| 3.1 Declared Rare Flora (DRF) or Priority Species, Threatened Communities or restricted, unusual or poorly reserved vegetation associations | State the presence of DRF, priority species, Threatened or Priority Ecological Community on the Park/Reserve. | |
| 3.2 Declared Rare or Endangered fauna, translocation programs, release sites or restricted habitats. | State the presence of Rare and Endangered species in the Park/Reserve. Comment on any translocation programs, release sites or restricted habitats if identified. | |
| 3.3 Diverse Ecosystem Zones including rivers, streams, swamps, lakes, gorges, rock outcrops etc. | Comment on the degree to which the natural vegetation is intact. | |
| 3.4 Fauna Habitat Zones | State the presence of any fauna habitat zones within the proposed project area. | |
| 3.5 Old-growth forest | State whether the proposed project will impact on any areas of Old-growth forest. Higher level approval may be required. | |
| 1. **Cultural Heritage** | | |
| 4.1 Registered Aboriginal sites | Report on known Aboriginal Sites located within the proposed project area. Is further surveys or consultation required. | |
| 4.2 Is the area subject to a Native Title claim? Has DAA or the Aboriginal Land and Sea Council been advised? Have Working Party members been consulted? | State whether DAA, or the appropriate ALSC has been advised and what the outcome of this is. State when advice or consultation with the Working Party members will occur. | |
| 4.3 Does the area adjoin or contain any places on the following lists: |  | |
| * Register of the National Estate | Check the register and report on any sites that are within or adjoining the proposed project area. Comment on whether the proposed project will impact on any sites. | |
| * WA Register of Heritage Places | Check the register and report on any sites that are within or adjoining the proposed project area. Comment on whether the proposed project will impact on any sites. | |
| * Municipal inventory for the local council | Check the inventory and report on any sites that are within or adjoining the proposed project area. Comment on whether the proposed project will impact on any sites. | |
| * Land manager heritage database | The land manager may have a database that lists identified cultural heritage places for the proposed project area. | |
| 1. **Recreation and Access** | | |
| 5.1 How will the area be accessed? | Identify access routes and entry/egress areas for the proposed project area and activity. Identify any existing access that requires closure or management. Differentiate between access for the public and access for maintenance. | |
| 5.2 Is there a potential conflict with existing recreation use, events and/or commercial tour operators? | Identify any existing recreation, events and/or commercial tour operators within the proposed project area. Will the proposed project conflict with this? How will any potential conflict be managed? | |
| 5.3 How will visitor safety be managed? | Assess potential visitor risks and identify how visitor safety will be managed. | |
| 5.4 Landscapes, features, wilderness appreciation. | Identify whether the proposed project will impact on important scenic areas, and how this can be managed through any future planning and/or construction works. | |
| 5.5 Increased demand for facilities and service (rubbish disposal, toilets etc) | How will increased usage be managed? Roading or trail wear/tear, rubbish removal, toilet maintenance, vandalism etc | |
| 1. **Geology, Landform and Soils** | | |
| 6.1 Caves, fossils, or dunes | Assess and identify areas that are sensitive to disturbance and may be affected by the proposed project now or in the future. | |
| 6.2 Soil erosion (water or wind) | Assess and identify appropriate trail design and construction techniques and standards to minimise soil erosion. | |
| 6.3 Soil mixing or soil compaction | Assess and identify appropriate trail design, construction techniques and standards to minimise soil profile damage. | |
| 6.4 Soil compatibility | Is the soil type compatible with the proposed project? What management strategies will be in place e.g. surfacing, armouring etc. | |
| 1. **Hydrology** | | |
| 7.1 Stream or impoundment sedimentation | | Identify whether the proposed project is likely to affect water quality in the rivers and streams or where there is the potential to affect a catchment. This may include major dams, or dams used by neighbouring land holders. |
| 7.2 Altered run-off, impeded drainage or water logging | | Assess and identify areas that may be affected by a changed water flow regime. |
| 1. **Monitoring** | | |
| 8.1 How and when will the effects of the proposed project be monitored? | | Provide a task list for monitoring the proposed project. |
| 8.2 Who is responsible for completing the monitoring? | | Detail the person or organisation responsible for the monitoring of the proposed project. |
| 8.3 Have resources been made available for monitoring? | | Detail the commitment and resources that have been made available for the life of the monitoring period. |
| 8.4 Who will be provided with the monitoring results, and what is expected to happen with the results? | | Identify who will receive the reports and what is expected to happen as a result of monitoring. This may include review of procedures, cessation of the project, rehabilitation etc. |
| Section D – Level of Approval Required | | |
| The person who prepared the Impact Evaluation should seek guidance from the land manager regarding level of approval required. | | |
| Section E - Proposer | | |
| The person who prepared the Impact Evaluation should sign the document. | | |
| Section F – Endorsement/Approval | | |
| The “Impact Evaluation Checklist” should signed by the land manager at the appropriate approval level (Section D above). | | |