**CONTEXT:** This form should be used for pastoral land clearing (PLC) applications that do not qualify for the simplified assessment process outlined in Schedule 1 of the PLC Guidelines, as published by the Pastoral Land Board in accordance with the *Pastoral Land Act 1992*. The questions in this application form seek to address the ‘Matters to be taken into account’ by the Pastoral Land Board as specified in the PLC Guidelines. For further information contact the Vegetation Assessment Unit, Department of Environment, Parks and Water Security (DEPWS) on (08) 8999 4454 or refer to the following website <https://nt.gov.au/property/land-clearing/pastoral-land/clearing-native-vegetation-on-pastoral-land>.

**PRE-LODGEMENT**: Applications will be screened by the Vegetation Assessment Unit before being accepted for assessment to ensure applications contain all the information required to enable assessment. Incomplete applications will not be accepted. Applicants are encouraged to contact the Vegetation Assessment Unit to discuss their application prior to submission.

**LODGEMENT**: Submit the completed form with all required attachments and associated spatial data (e.g. proposed clearing shapefile/kml, land types shapefile/kml.) through [Development Applications Online](https://www.ntlis.nt.gov.au/ilis/planning).

# Application details

|  |  |
| --- | --- |
| **Station Name:** |  |
| **NT Portion/s:**  |  |
| **Pastoral District:** |  |
| **Pastoral Lease No:** |  |
| **Proposed Clearing Area (ha)** |  |
| **Document Version Number:** |  |
| **Date:** |  |

1. Applicant details

For an application to be correctly made under section 91F of the *Pastoral Land Act 1992*, it must be lodged by the pastoral lessee or a person authorised by written consent from the pastoral lessee. Once the application has been accepted, payment of the application fee should be made to the Receiver of Territory Monies and the receipt forwarded to PastoralAssessment.DEPWS@nt.gov.au.

|  |  |
| --- | --- |
| **Form completed by:** |  |
| **Name of consultant:** |  |
| **Name of lessee:** |  |
| **Applicant\* name:** |  |
| **Applicant\* telephone:** |  |
| **Applicant\* email:** |  |
| **Applicant\* postal address:** |  |

\*All correspondence regarding the application will be directed to the applicant.

[ ]  Attach Lessee/s Authorisation form. Attachment No:

# Description of proposal

Provide an overview summarising the proposed development. Include any relevant information or details you wish to be considered that is not captured in the following sections, including design rationale.

[Insert free text]

# Existing clearing

## 4.1 Provide details of the extent of existing clearing within the lease.

**Note:** All PLC permits are published online at <https://nt.gov.au/property/land-clearing/pastoral-land/pastoral-land-clearing-applications-and-permits>

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Site | Area (ha) | Year cleared | Permit No. | Area within proposed clearing extent (ha) | Description |
| *Example:* *Site 1 Front paddock* | *10.5ha* | *1980* | *NA* | *7.5* | *Western half of front paddock cleared in 1980 for improved pasture, now contains regrowth. This area (excluding stream buffer) is proposed to be cleared.*  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| **Total:** |  |  |  |  |  |

[ ]  Attach a map showing areas of existing clearing within the property

Attachment No:

# Proposed clearing

## 5.1 Provide details of the proposed clearing extent.

|  |  |  |
| --- | --- | --- |
| Site Id | Proposed Use | Area (ha) |
| *Example: Polygon 1* | *Non-irrigated improved pasture for grazing and hay production (Jarra Finger Grass).* | *90.5ha* |
|  |  |  |
|  |  |  |
|  |  |  |
| **Total:** |  |

## 5.2 Provide a proposed Clearing Plan.

The proposed Clearing Plan is a map showing the geo-referenced location of the proposed clearing areas as identified in Section 5.1. The maps should include:

* The map datum (e.g. GDA94)
* The map projection or zone
* A north arrow
* A grid or scale bar
* A suitable background (e.g. cadastre and aerial/satellite imagery)

[ ]  Attach proposed Clearing Plan. Attachment No:

# Water Resources

## 6.1 Does the proposed use require irrigation?

[ ]  Yes [ ]  No

## 6.2 Provide details regarding the proposed water requirements for each proposed crop/use.

**Note:** If the proposal requires irrigation and a Water Extraction Licence (WEL) has not been issued, refer to <https://nt.gov.au/environment/water> or contact the Water Resources Division, DEPWS by email waterresources@nt.gov.au or telephone: (08) 8999 4455.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Crop/Use & Polygon | Area (ha) | Water required (ML/yr) | Water source | Licence required (yes/no) | Licence No. or application status |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| TOTAL: |  |  |  |  |  |

[ ]  Attach a copy of any relevant licences or bore reports. Attachment No:

# Land Resources

**Note:** Most published land resource mapping and soil site data is available on NR Maps at: <https://nrmaps.nt.gov.au/nrmaps.html>. This broad scale mapping can provide useful information and guidance with respect to planning a more detailed site-specific resource assessment to prepare a Land Type map\*. For further information view: <https://depws.nt.gov.au/rangelands/information-and-requests/land-soil-vegetation-information>

\*Applicants may be asked to provide site inspection data (e.g. inspection track, sites and data) to aid assessment.

## 7.1 Provide a Land Type map for the proposed clearing extent.

**Note:** Consideration of an application cannot proceed without the collection and orderly presentation of field-verified site-specific data and mapping. In accordance with the Northern Territory Planning Scheme (NTPS) Land Clearing Guidelines (LCG) (refer to Land and Vegetation Resource Assessment - sections 4.2.3 to 4.2.6) all clearing applications need to be accompanied by an appropriate soil, vegetation and land resource assessment in the form of a Land Type map at a scale of 1:5,000 to 1:20,000.

[ ]  Attach a Land Type map for proposed clearing extent. Attachment No:

[ ]  Attach one Land Type description for each Land Type unit (use proforma at **Appendix A**).

Attachment No:

## 7.2 Determine whether a Land Capability Assessment (LCA) or a Land Suitability Assessment (LSA) is required.

**Note:** In accordance with Land capability and land suitability classifications (section 4.2.2) of the NTPS LCG; land capability evaluates a common set of broad land-based development constraints and determines the appropriateness of the land in general for a broad range of land uses, whereas land suitability assesses the potential of a soil or land resource for a specific irrigated agricultural land use. To determine the type of assessment required, contact the Land Assessment Branch, DEPWS (08) 8999 4443.

[ ]  LCA required (complete Question 7.3); **OR**

[ ]  LSA required (complete Question 7.4)

## 7.3 Provide a LCA for Land Types within the proposed clearing extent.

**Note**: In accordance with the LCG, LCA (section 4.2.7) evaluates the key soil and land resource attributes recorded within a Land Type map against a defined set of criteria to determine an overall Land Capability Class.

[ ]  Attach a LCA table for Land Types within the proposed clearing extent (use proforma at **Appendix B**).

Attachment No:

[ ]  Attach a map of the proposed clearing extent showing the Land Types’ overall Land Capability Classes.

Attachment No:

## 7.4 Provide a LSA report for Land Types within the proposed clearing extent.

**Note**: In accordance with LCG (section 4.2.8), LSA involves the assessment of the requirements for a particular land use against soil and landscape attributes that influence sustainable production. LSA is crop-specific and uses a defined set of standard land use requirements to evaluate plant growth limitations, machinery use restrictions, land preparation factors, irrigation efficiency and susceptibility to land degradation. DEPWS has published a series of LSA frameworks describing the limitations, attribute values and decision rules required to assess the suitability of soil and land resources within a region for a range of specific irrigated agricultural land uses.

[ ]  Attach a LSA report for the proposed clearing extent.

Attachment No:

[ ]  Attach a map of the proposed clearing extent showing the Land Types’ overall Land Suitability classes.

Attachment No:

# Biodiversity

## 8.1 Describe any records of threatened flora and fauna species or migratory species listed under the *Territory Parks and Wildlife Conservation Act 1976* (TPWC) or the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999* (EPBC) within 10km of the proposed clearing extent. Also describe any such species for which there are no records but have a reasonable likelihood of occurring within the habitats (i.e. Land Types) comprising the proposed clearing extent.

**Note:** For further information, refer to the following websites or contact the Flora and Fauna Division, DEPWS via email Biodiversity.Assessments@nt.gov.au or telephone: 08 8995 5000. Add additional rows to the table as needed.

<http://nrmaps.nt.gov.au/>

[www.nt.gov.au/environment/animals/classification-of-wildlife](http://www.nt.gov.au/environment/animals/classification-of-wildlife)

<http://www.environment.gov.au/epbc/protected-matters-search-tool>

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Common name | Species | TPWC | EPBC | Location |
| *Example* |  |  |  |  |
| *Ghost Bat* | *Macroderma gigas* | *Near Threatened* | *Vulnerable* | *Nearest record is 5km* |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## 8.2 Describe potential impacts to species identified above from the proposed clearing.

**Note:** To determine the risk to threatened species, information should be considered at the scale of the proposed clearing and at a regional context. Consider any associations that the species may have with landforms, vegetation structure or dominant plant species proposed for clearing.

|  |  |  |  |
| --- | --- | --- | --- |
| Common name | Potential impact | Risk\* | Justification |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

\*Use the following risk matrix (adapted from Table 17 in the LCG):

|  |  |
| --- | --- |
| Risk rating | Characteristics |
| Low | The proposed clearing extent is characterised by a combination of factors such as:* It is a relatively small area
* It does not contain sensitive or significant vegetation
* It is unlikely to provide habitat for the identified species
* It is unlikely to cause offsite impacts to the identified species.
 |
| Medium | The proposed clearing extent has characteristics between the Low and High risk classes.(e.g. it may support the identified species, however the local occurrence of the species may not be considered significant or the extent of clearing as a proportion of habitat available to the species may be sufficiently small enough to not pose a High risk).  |
| High | The proposed clearing extent is important habitat for the identified species. Note: If the clearing has the potential to negatively impact the species identified, even a small clearing extent could be categorised as high risk.  |

## 8.3 Identify which of the following types of sensitive features are present within proximity of the proposed clearing extent.

|  |  |  |
| --- | --- | --- |
| Feature | LCG | Present/Absent |
| Drainage depressions and streams | Section 4.4.7 |  |
| Wetlands | Section 4.4.8 |  |
| Groundwater Dependent Ecosystems | Section 4.4.8 |  |
| Sinkholes | Section 4.4.9 |  |
| Other sensitive or significant vegetation | Section 4.4.6 |  |

## 8.4 Identify the individual sensitive features within proximity of the proposed clearing extent and the associated Land Type.

**Note:** Refer to the relevant sections of the LCG (identified above) for information regarding recommended native vegetation buffer widths and value attribution.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Feature | Land Type | Value / Order | Location in relation to proposed clearing extent | LCG recommended buffer width (m) | Proposed buffer width (m) |
| ***Examples****:**Dry Rainforest**Crocodile Creek**Wetland* | *8d**5c**6a* | *Low**2nd order stream**High* | *West of polygon 4**East of polygon 1**South of polygon 2* | *50m**50m**250m* | *150m**125m**250m* |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |

## 8.5 Provide reasons for discretion and describe proposed mitigation measures for any proposed buffers that are not consistent with LCG recommendations.

**Note:** Additional supporting evidence should be attached.

|  |  |  |
| --- | --- | --- |
| Feature | Reasons for discretion | Proposed mitigation |
|  |  |  |
|  |  |  |

[ ]  Attach relevant supporting evidence. Attachment No:

## 8.6 Identify the wildlife corridors to be retained within proximity of the proposed clearing extent and reasons for siting and design.

**Note:** A corridor of 100m is considered the minimum width to be viable in the NT context for general application and as a default, corridor density should be at a rate of one corridor per linear kilometre of clearing or equivalent – refer to LCG section 4.4.10. Question 3 in the Land Management Plan (template available at Appendix E)addresses property boundary buffers.

|  |  |  |  |
| --- | --- | --- | --- |
| Corridor Id. | Location | Proposed width (m) | Justification |
| *Example: Eastern corridor* | *Between polygons 1 and 2* | *200m* | *Connects areas of species X habitat and incorporates low value wetland.*  |
|  |  |  |  |
|  |  |  |  |

## 8.7 Assess the risk of the proposed clearing to regional biodiversity and provide an overall risk rating.

**Note:** To determine the risk to regional biodiversity, information is to be considered at the scale of the proposed clearing footprint and evaluated within a regional context. Refer to Section 4.2 and 4.3 of the LCG or contact the Flora and Fauna Division, DEPWS (telephone: 08 8995 5000).

|  |  |  |
| --- | --- | --- |
| Consideration | Yes/No | Explain |
| *Are there any important biodiversity values within the proposed clearing extent?* |  |  |
| *Are there any important biodiversity values within proximity of the proposed clearing extent?*  |  |  |
| *Does the proposed clearing have the potential to impact any important biodiversity values?*  |  |  |
| *Have all reasonable alternatives been considered to avoid impacts to important biodiversity values?*  |  |  |
| *What is the overall biodiversity risk rating (Low, Medium High)?*  | NA |  |

# Infrastructure and Amenity

## 9.1 Describe any public facilities, utilities or infrastructure within the locality and how any potential impacts from the proposed clearing development will be managed.

|  |  |  |  |
| --- | --- | --- | --- |
| Infrastructure | Location | Potential impacts | Proposed mitigation |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 9.2 Identify any public roads or public facilities within 200m of the proposed clearing extent.

**Note:** Refer to LCG sections 4.3.5 and 4.3.5.1.

|  |  |
| --- | --- |
| Feature | Distance from proposed clearing extent (m) |
|  |  |
|  |  |
|  |  |

## 9.3 Assess the risks posed to the following public values and the proposed mitigation measures.

**Note**: Risk assessment should describe the likelihood of impacts occurring and the potential consequences.

|  |  |  |
| --- | --- | --- |
| Value | Risk | Mitigation |
| Amenity |  |  |
| Recreation |  |  |
| Tourism  |  |  |
| Parks / Reserves |  |  |

# Land Management

## 10.1 Attach a proposed Establishment Plan (see template at Appendix C).

[ ]  Attach the Establishment Plan Attachment No:

## 10.2 Attach a proposed Staging Plan (see template at Appendix D).

[ ]  Attach the Staging Plan Attachment No:

## 10.3 Attach a proposed Land Management Plan (see template at Appendix E).

[ ]  Attach a proposed Land Management Plan Attachment No:

# Weed Management

## 11.1 List all weeds declared under the *Weeds Management Act 2001* present within the property and describe the proximity of species to the proposed clearing extent.

**Note:** For information refer to: <https://nt.gov.au/environment/weeds> and NR Maps <https://nrmaps.nt.gov.au/nrmaps.html>.

|  |  |  |  |
| --- | --- | --- | --- |
| Weed species | Class | Location | Density |
| *Example: Grader grass* | *Class B* | *Along verge of main station road; 200m upslope of proposed clearing polygon X at closest point.*  | *Uncommon. Occasional individual plants only.*  |
|  |  |  |  |
|  |  |  |  |

## 11.2 Provide details of weed management on the property.

**Note:** Consider whether the weed has a statutory Weed Management Plan <https://nt.gov.au/environment/weeds/how-to-comply-with-the-law/statutory-weed-management-plans>

|  |  |  |  |
| --- | --- | --- | --- |
| Weed species | Management Aim | Method | Current / Proposed |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

# Cultural Heritage

## 12.1 Provide details of any heritage or archaeological surveys conducted within the property and any findings relevant to the proposed clearing extent.

|  |  |  |  |
| --- | --- | --- | --- |
| Survey name | Year conducted | Completed by | Findings relevant to the proposed clearing extent |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

[ ]  Attach relevant information (e.g. maps, site descriptions, etc.) from the survey relevant to the proposed clearing extent.

Attachment No:

## 12.2 Provide details of any known (i) places, (ii) archaeological places, or (iii) Aboriginal or Macassan archaeological places, within the meaning of the *Heritage Act 2011* located within the property.

**Note**: Risk assessment should describe the likelihood of impacts occurring and the potential consequences. For more information go to <https://nt.gov.au/property/land/heritage-listings/heritage-register-search-for-places-or-objects> .

|  |  |  |  |
| --- | --- | --- | --- |
| Place / Site | Location in relation to the proposed clearing extent | Risk | Mitigation |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

[ ]  Attach a map showing the location of any declared sites/places in proximity to the proposed clearing extent.

Attachment No:

## 12.3 Contact the Heritage Branch, Department of Territory Families, Housing and Communities for advice regarding the proposed clearing in relation to the *Heritage Act 2011*.

**Note:** The Heritage Branch can be contacted via email: heritage.branch@nt.gov.au or telephone 08 8999 5039.

[ ]  Attach a copy of the advice. Attachment No:

## 12.4 Provide details of any sacred sites within the meaning of the *Northern Territory Aboriginal Sacred Sites Act 1989* located within proximity of the proposed clearing extent.

**Note**: Risk assessment should describe the likelihood of impacts occurring and the potential consequences. For more information go to <https://www.aapant.org.au/> .

|  |  |  |  |
| --- | --- | --- | --- |
| Site | Location in relation to the proposed clearing extent | Risk | Mitigation |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

[ ]  Attach a map showing the location of any declared sites in proximity to the proposed clearing extent.

Attachment No:

## 12.5 Aboriginal Areas Protection Authority

Contact the Aboriginal Areas Protection Authority to obtain an Abstract of Records and consent to use the information for the purposes of this application.

[ ]  Attach the Abstract of Records Attachment No:

Have you, or do you intend to apply for an Authority Certificate?

[ ]  Yes Attachment No:

If yes, please provide a copy of the Authority Certificate as part of the application or before the Pastoral Land Board determines the application.

[ ]  No

If an Authority Certificate is not provided and you do not intend to apply for an Authority Certificate, please explain why an Authority Certificate has not been included as part of the application.

[Insert free text]

# Greenhouse Gas Emissions

## 13.1 Estimate the emissions (tonnes CO2-e) from the clearing.

 **tCO2-e**

## **Note:** Under the NT Government’s [Greenhouse Gas Emissions Management for New and Expanding Large Emitters’](https://depws.nt.gov.au/environment-information/large-emitters-policy/large-emitters-policy?SQ_VARIATION_1042148=0) Policy, which came into effect in September 2021, a land use project generating over **500 000 tCO2-e** from a single clearing event, OR cumulatively from multiple land clearing actions on a property over time is required to develop a Greenhouse Gas Abatement Plan (GGAP) which demonstrates how emissions will be managed and reduced.

Information on how to obtain an estimate of the average emissions (tCO2-e) per hectare for your project can be found [here](https://ftp-dlrm.nt.gov.au/main.html?download&weblink=a52c9ccbdcd5007e8b5fac324382a7d6&realfilename=CarbonEmissions_Average.zip) or by accessing the link at <https://nt.gov.au/property/land-clearing/pastoral-land/clearing-native-vegetation-on-pastoral-land>

# Environment Protection

## 14.1 Has the application been referred for assessment under the *Environment Protection Act 2019?*

**Note:** Refer to the document ‘[Referring a proposal to the NT EPA](https://ntepa.nt.gov.au/__data/assets/pdf_file/0009/805167/referring-proposed-action-to-ntepa-guideline.pdf)’ available on the following website <https://ntepa.nt.gov.au/your-business/environment-impact-assessment> or contact the Environment Division, DEPWS via telephone 08 8924 4218 or email eia.ntepa@nt.gov.au

[ ]  Not referred;

 [ ]  Attach a completed referral checklist located in Appendix 1 of [Referring a proposal to the NT EPA](https://ntepa.nt.gov.au/__data/assets/pdf_file/0009/805167/referring-proposed-action-to-ntepa-guideline.pdf)

 Attachment No:

[ ]  Referred;

 [ ]  Attach advice from the NT EPA Attachment No:

## 14.2 Assess the risks associated with the following potential pollutants from clearing and development works and describe the proposed mitigation measures. Consideration of risk should include potential sources, the likelihood of impacts occurring and the potential consequences.

**Note**: Under the *Waste Management and Pollution Control Act 1998* everyone in the NT has a ‘general environmental duty’ to not carry out any activity that causes or is likely to cause environmental harm, unless measures to prevent or minimise the harm have been taken. For more information refer to the following website <https://ntepa.nt.gov.au/your-business/environmental-obligations-and-duties> or contact the Environment Division, DEPWS via telephone 08 8924 4218 or email pollution@nt.gov.au.

For information regarding spray drift and the *Agricultural and Veterinary Chemical (Control of Use) Act 2004* contact Chemicals Services, DITT via email chemicals@nt.gov.au or telephone 08 8999 2344.

|  |  |  |
| --- | --- | --- |
| Potential pollutants | Risk | Mitigation |
| Dust  |  |  |
| Chemical spray drift |  |  |
| Chemical runoff (to surrounding land or riparian systems) |  |  |
| Groundwater contamination |  |  |

# Other relevant information

## 15.1 Provide any additional relevant information not addressed above and outline in the table below.

|  |  |
| --- | --- |
| Attachment No. | Description |
|  |  |
|  |  |
|  |  |
|  |  |

# Checklist of Attachments and Required Spatial Data

**Complete the following checklist.**

**Note:** Spatial data for the items indicated must be provided before the application will be accepted. ESRI shapefile is the preferred format - kml/kmz also accepted. Contact: PastoralAssessment.DEPWS@nt.gov.au

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| AttachmentNo. | Name | QuestionNo. | Item attached | Spatial data  |
|  | Lessee/s Authorisation form  | 2 |  | NA |
|  | Map of existing clearing | 4.1 |  | **Required** |
|  | Proposed Clearing Plan | 5.2 |  | **Required** |
|  | Water licence &/or bore reports | 6.2 |  | NA |
|  | Land Type map | 7.1 |  | **Required** |
|  | Land Type descriptions | 7.1 |  | NA |
|  | LCA table | 7.3 |  | NA |
|  | LCA map | 7.3 |  | NA |
|  | LSA report | 7.4 |  | NA |
|  | LSA map | 7.4 |  | NA |
|  | Buffer discretion – supporting evidence | 8.5 |  | NA |
|  | Establishment Plan | 10.1/Appendix C |  | NA |
|  | Staging Plan  | 10.2/ Appendix D |  | NA |
|  | Land Management Plan | 10.3/ Appendix E |  | NA |
|  | Slope & runoff map | 10.3/ Appendix E-2 |  | NA |
|  | ESC map | 10.3/ Appendix E-9 |  | NA |
|  | ESC details | 10.3/ Appendix E-10 |  | NA |
|  | Map of heritage/archaeological places | 12.2 |  | NA |
|  | Heritage Branch advice | 12.3 |  | NA |
|  | Map of sacred sites | 12.4 |  | NA |
|  | Abstract of Records or Authority Certificate  | 12.5 |  | NA |
|  | EPA referral checklist | 13.1 |  | NA |
|  | EPA advice | 13.1 |  | **Optional** |
|  | Other additional info | 14 |  | **Optional** |

# Appendix A – Land Type description proforma

**Note:** Complete one table per Land Type. Data generated from Land Type field investigations may be requested – refer to the LCG – Vegetation Data (section 4.2.5).

[ ]  Attach map showing site inspection track, site locations, photo points and Land Types.

 Attachment No:

|  |  |
| --- | --- |
| Attribute  | Description  |
| **Land Type** | *E.g. Use a letter or number to distinguish each Land Type.* |
| **Landform** | *E.g. Describe the landform, slope range, extent of surface rock. Refer to LCG Section 4.2.4 (Yellow Book).*  |
| **Soil** | *E.g. Describe the dominant soil in this Land Type highlighting features such as soil texture, depth, colour, occurrence of surface gravel or cracking, Wet season drainage. Refer to LCG Section 4.2.4 (Yellow Book).*  |
| **Vegetation** | *E.g. Describe the average height and cover of the upper-storey (e.g. individual tree canopies generally overlapping, partially separated, clearly separated or very sparse) and the dominant trees, shrubs, grasses and weeds. Refer to Section 4.2.5 (NVIS level 5).*  |
| **Photo No.** | *E.g. Insert numbered photo (representative of Land Type) and show location on map.*  |

# Appendix B – Land Capability Assessment table

**Note:** Refer to the LCG – Land Capability Assessment (section 4.2.7.1).

|  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Land Type | ASS | Flooding | Microrelief | Salinity | Sodicity | Slope | Soil depth | Drainage | Surface Rock | Wind erosion  | Initial capability class | Overall capability class |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |

# Appendix C – Establishment Plan

**Note:** Refer to LCG sections 4.3.2.3 and 4.3.2.4.

|  |  |  |  |
| --- | --- | --- | --- |
| Activity | E.g. | Timing(month & year) | Method(describe) |
| **Preparatory works** | Boundary marking, implementation of erosion and sediment controls, weed management |  |  |
| **Felling of vegetation** | Machinery and techniques |  |  |
| **Removal of felled vegetation** | Machinery and techniques, in-situ or pushed-up, burning, mulching, windrow management, etc. |  |  |
| **Site preparation** | Machinery and techniques, levelling/contouring, installation of banks or soil conservation measures, cultivation |  |  |
| **Planting** | Method for each pasture / crop type, spelling, rotations, cover crops, etc.  |  |  |
| **Harvesting** | Method for each pasture / crop type, stubble retention |  |  |
| **Grazing** | Cattle introduction and subsequent stocking regime |  |  |
| **Maintenance** | Regrowth control, weed management, erosion monitoring |  |  |

# Appendix D – Staging Plan

**Note**: Standard PLC permits are valid for 10 years. Refer to LCG section 4.3.2.4.

|  |  |
| --- | --- |
| Year | Site Id (e.g. polygon / paddock) |
|  |  |
|  |  |
|  |  |
|  |  |

# Appendix E – Land Management Plan

**Note:** The following Land Management Plan (LMP) should be developed with reference to the proposed Establishment and Staging Plan. It is not an Erosion and Sediment Control Plan (ESCP). For large or complex clearing areas, preparation and implementation of an Erosion and Sediment Control Plan (ESCP) can be an effective way of managing erosion risk - however it is not an alternative to retaining native vegetation which should otherwise be retained in accordance with the LCG, or used as a “catch-all” means of mitigating other risks the clearing may pose (see LCG section 4.3.2.5). Whether a formal ESCP is required as a condition of a PLC permit will be at the discretion of the PLB/Delegate based on the advice of the Land Management Unit, DEPWS and will depend on the level of detail provided in this LMP and the erosion risk associated with the proposal. For further information, contact the Land Management Unit on 08 8999 4404.

## 1 Provide a general description of the soil loss factors for the proposed clearing extent:

**Note:** Refer to Section 4.3.2 of the LCG.

|  |  |  |
| --- | --- | --- |
| Factor: | E.g. | Description |
| **Rainfall** | Consider the climatic zone, seasonal outlook and proposed timing of works. |  |
| **Soil** | Consider the erodibility of soil types present based on soil type texture and structure. Note whether soils are dispersive or sodic.  |  |
| **Length of slope** | Indicate the average length of slope within the proposed clearing extent and areas that exceed this.  |  |
| **Slope gradient (%)** | Indicate the range of slope within the proposed clearing extent (e.g. 0-2%) and areas that exceed 2%. |  |
| **Groundcover** | Consider the timing, duration and frequency of soil exposure.  |  |
| **Management** | Consider the level of soil disturbance associated with the proposed method of clearing and land use.  |  |

## 2 Describe where rainfall runoff flows within the proposed clearing extent.

|  |  |  |
| --- | --- | --- |
| Polygon | Direction of runoff | Receiving environment |
|  |  |  |
|  |  |  |
|  |  |  |

[ ]  Attach map showing slope % and the direction of runoff within the proposed clearing extent.

Attachment No:

## 3 Identify whether property boundary buffers will be retained in accordance with the LCG and provide reasons for discretion (if required)

**Note**: Valid reasons must be provided for instances where no property boundary buffers or buffers less than 210m wide (including 10m wide firebreaks) will be retained. Refer to section 4.3.3 of the LCG.

|  |  |  |
| --- | --- | --- |
| Property Boundary | Proposed buffer width (m) | Reasons for discretion |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## 4 Describe any land management buffers to be retained within proximity of the proposed clearing extent.

**Note**: A land management buffer is different to a wildlife corridor or property boundary buffer – refer to section 4.3.4 of the LCG.

|  |  |  |  |
| --- | --- | --- | --- |
| Buffer Id. | Location | Width (m) | Purpose and design justification |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 5 Describe any existing erosion within the proposed clearing extent.

**Note:** Erosion types include: wind, sheet, rill, gully or tunnel erosion.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Erosion Site | Location | Cause | Erosion type & description | Mitigation |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

## 6 Considering all information provided above; describe the potential risk, likelihood and impact of erosion associated with the proposed development.

|  |  |  |
| --- | --- | --- |
| Source of risk | Likelihood of occurring | Potential impacts |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

## 7 Considering all information provided above; describe the proposed erosion and sediment control (ESC) measures to be implemented during the clearing and establishment phase of the development.

|  |  |  |  |
| --- | --- | --- | --- |
| ESC measure | Location | Temporary/Permanent | Description |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 8 Considering all the information provided above; describe the proposed erosion and sediment control (ESC) measures to be implemented during the operational phase of the development.

|  |  |  |  |
| --- | --- | --- | --- |
| ESC measure | Location | Temporary/Permanent | Description |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |

## 9 Provide an erosion and sediment control (ESC) map showing the location of the following information.

[ ]  Attach an ESC map showing the location of the following within the proposed clearing extent:

* Land management buffers (Question 4)
* Existing erosion (Question 5)
* Temporary ESC measures to be installed (Question 7 & 8)
* Permanent ESC measures to be installed (Question 7 & 8)
* Firebreaks, tracks and fences.

Attachment No:

## 10 Provide any ESC standard drawings or design details.

**Note**: The level of information required will depend on the complexity of the proposed measures. Information is available on the following website: <https://nt.gov.au/environment/soil-land-vegetation>

[ ]  Attach ESC standard drawings / design details

Attachment No: