



PROPOSED GENEX KIDSTON CONNECTION PROJECT

Corridor Selection Report

PREPARED BY

QUEENSLAND ELECTRICITY TRANSMISSION CORPORATION LIMITED

(ACN 078 849 233) trading as "POWERLINK"

3.1.4 Woody vegetation assessment

The woody vegetation assessment performed by Virtual GIS, used GIS remote sensing to predict the extent of woody remnant vegetation, and the potential extent of woody remnant vegetation and regrowth vegetation in each corridor investigation area. The results of the woody vegetation mapping is useful for identifying potential areas of inconsistency between the woody vegetation assessment and the DNRM mapping, for which such areas would be targeted as part of the ground-truthing surveys during the next phase of the Project.

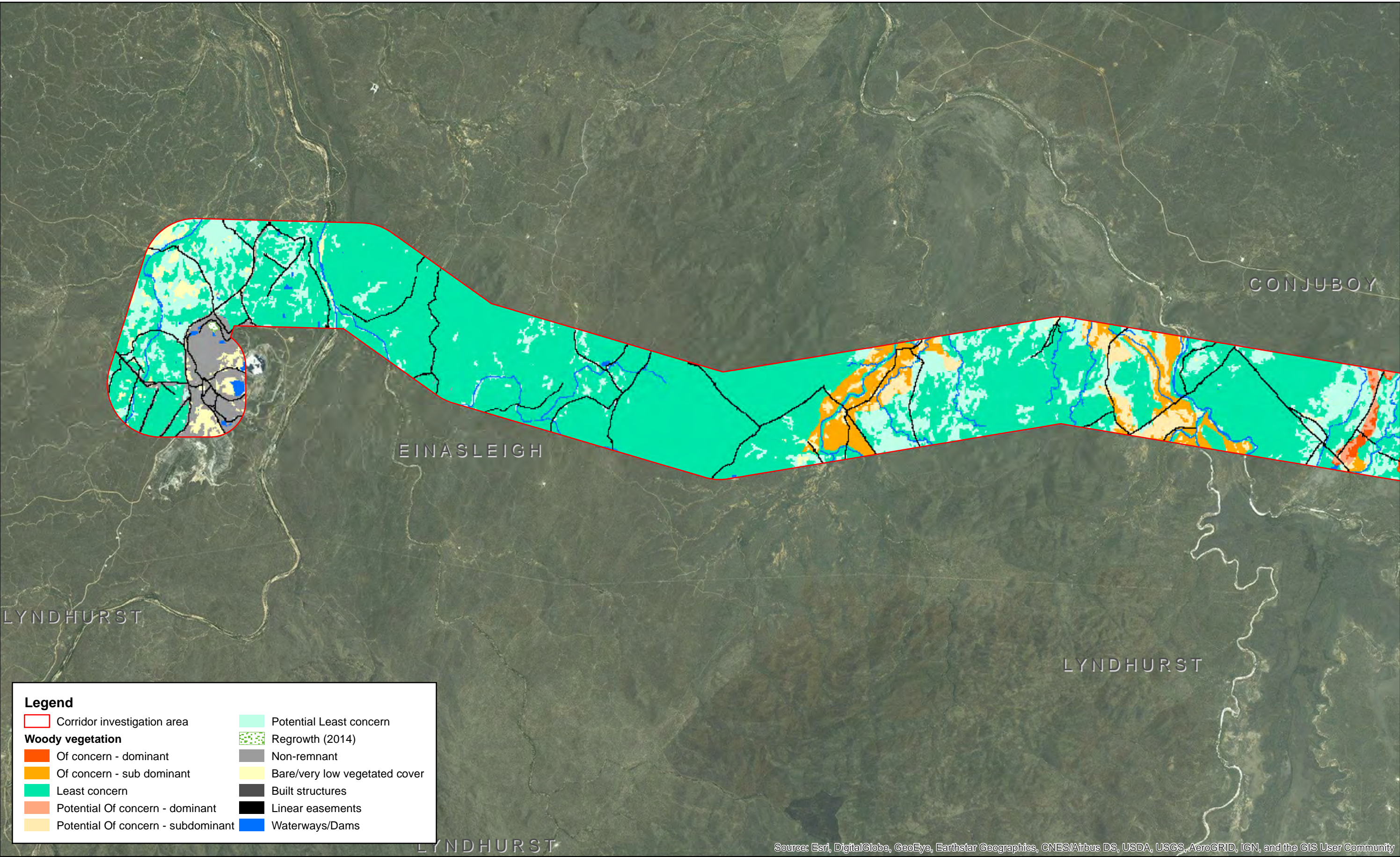
The woody vegetation that is of potential relevance to each corridor option, as an output of remote sensing of woody vegetation, is presented on Figure 3.35–Figure 3.49.

The area (ha) of dominant and sub-dominant of concern regional ecosystems that is of potential relevance to each corridor investigation area is presented in Table 3.5. The results of the analysis of woody vegetation for each corridor option is presented in Appendix G.

In reference to the predicted and potential woody remnant vegetation in Table 3.5, Option C is of least constraint in terms of potential impacts upon potential and predicted of concern dominant. On the other hand, Option B is of least constraint in terms of potential impacts upon potential and predicted of concern sub-dominant regional ecosystems. However, a greater emphasis should be applied to the predicted of concern dominant remnant vegetation being of greater significance, which therefore suggests that Option C is of least ecological constraint.

Table 3.5 Remotely sensed predicted and potential extent of woody remnant and regrowth vegetation of relevance to each corridor option

| CORRIDOR | PREDICTED WOODY REMNANT VEGETATION (HA) | | | POTENTIAL WOODY REMNANT VEGETATION (HA) | | | POTENTIAL REGROWTH | | | NON-REMNANT | |
|----------|---|-------------------------|---------------|---|-------------------------|---------------|---------------------|---------------|-----------------------|-------------|--------------------------------|
| | OF CONCERN DOMINANT | OF CONCERN SUB-DOMINANT | LEAST CONCERN | OF CONCERN DOMINANT | OF CONCERN SUB-DOMINANT | LEAST CONCERN | OF CONCERN DOMINANT | LEAST CONCERN | UNCLASSIFIED REGROWTH | VEGETATION | BARE EARTH, WATER AND EASEMENT |
| Option A | 1,535 | 549 | 37,602 | 240 | 364 | 9,002 | 6.9 | 48 | 235 | 2,174 | 4,670 |
| Option B | 1,460 | 295 | 37,969 | 344 | 87 | 8,439 | 6.6 | 214 | 219 | 1,812 | 5,428 |
| Option C | 1,223 | 618 | 38,808 | 431 | 37 | 8,494 | 28.8 | 172 | 291 | 1,718 | 5,771 |



- Legend**
- Corridor investigation area

Woody vegetation

Of concern - dominant

Of concern - sub dominant

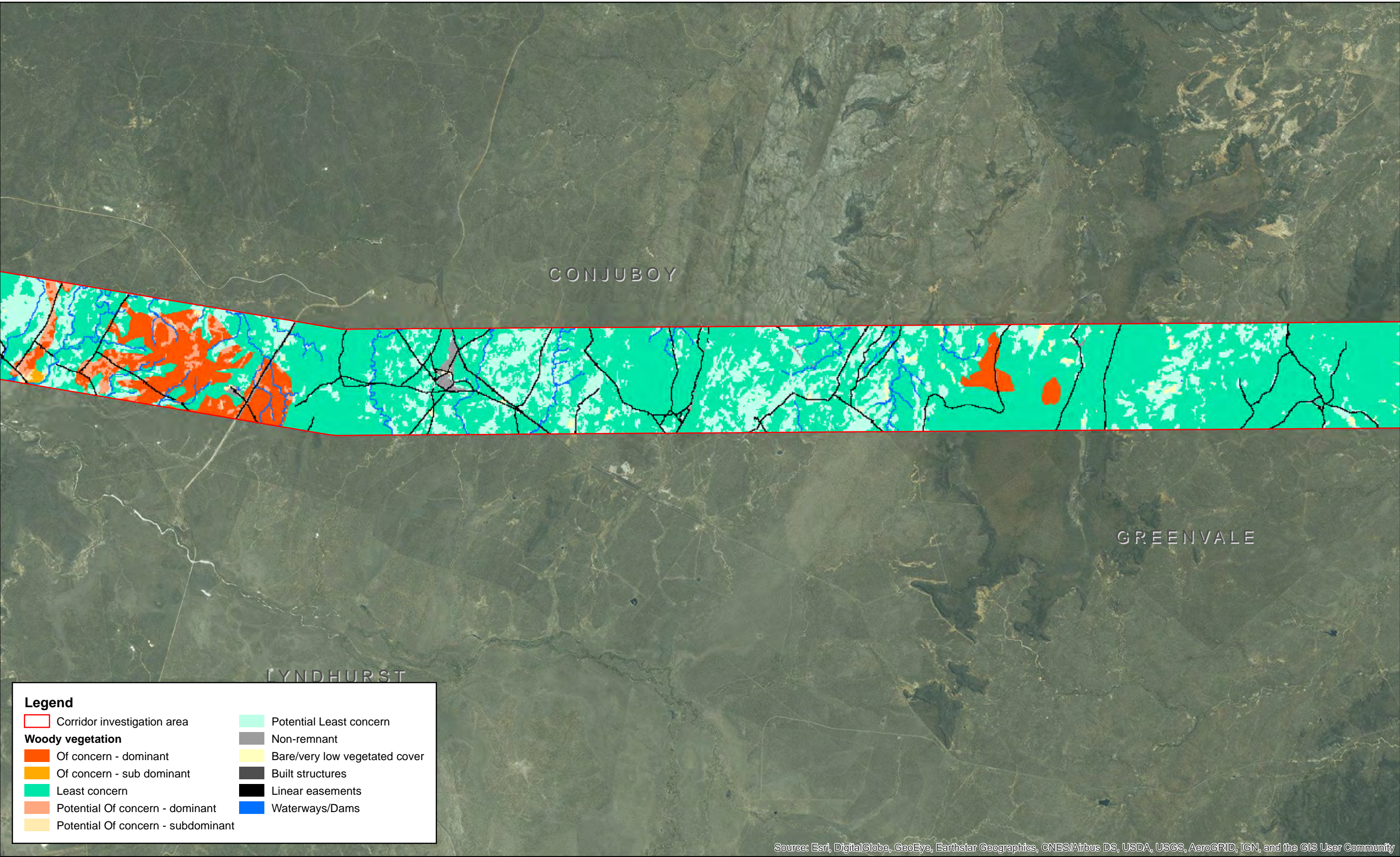
Least concern

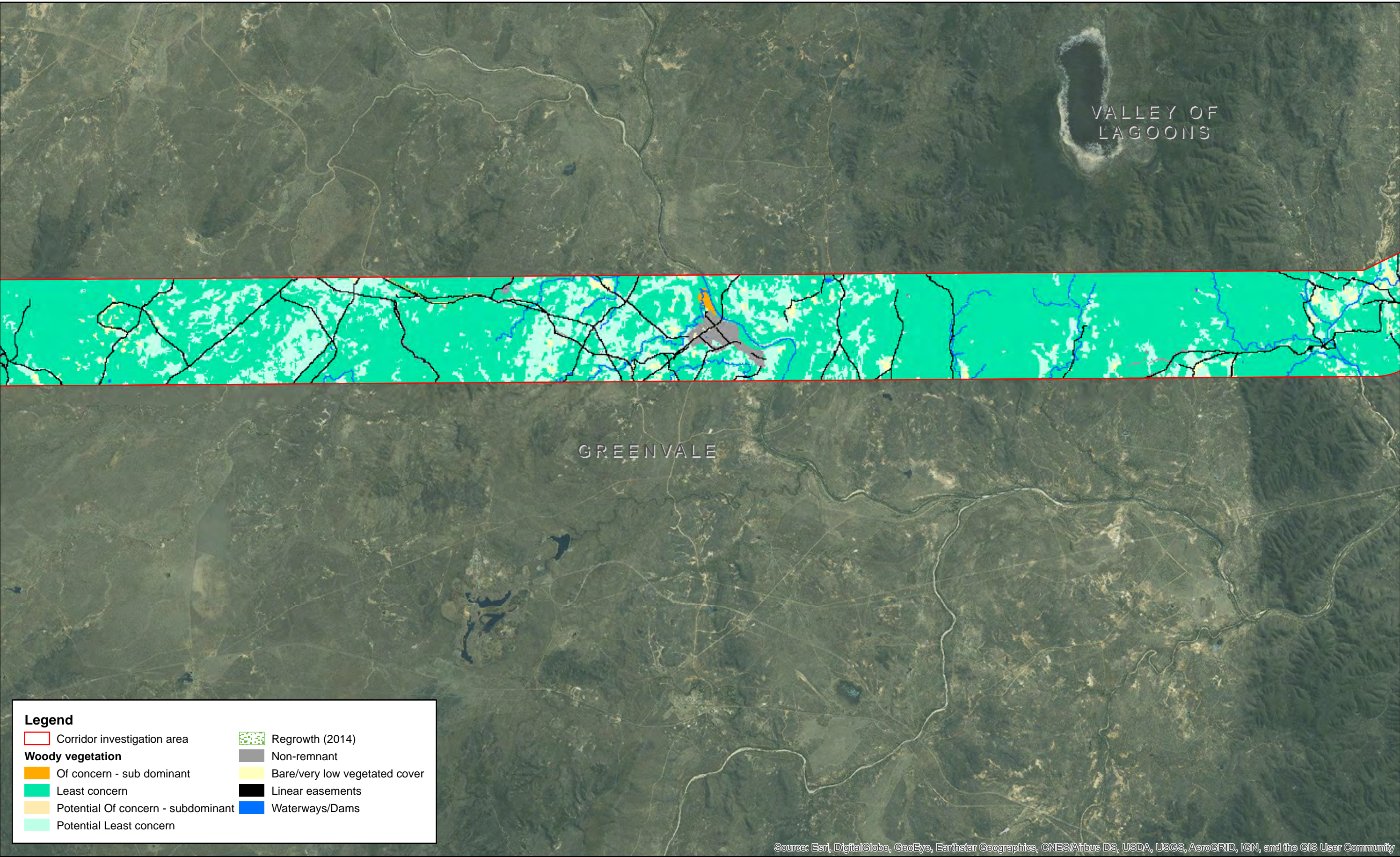
Potential Of concern - dominant

Potential Of concern - subdominant
- Potential Least concern
- Regrowth (2014)
- Non-remnant
- Bare/very low vegetated cover
- Built structures
- Linear easements
- Waterways/Dams

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

| | | | | | | |
|---|-----------------|--|---------------|---|--|--|
| Map: 2270434A_GIS_E010_A2a | Author: VD | | 1:100,000 | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 | | Kidston Power Transmission Line Figure 3.35 Woody Vegetation Option A |
| Date: 12/12/2016 | Approved by: RH | | | | | |
| Data source: Virtual GIS (2016) | | | | | | |
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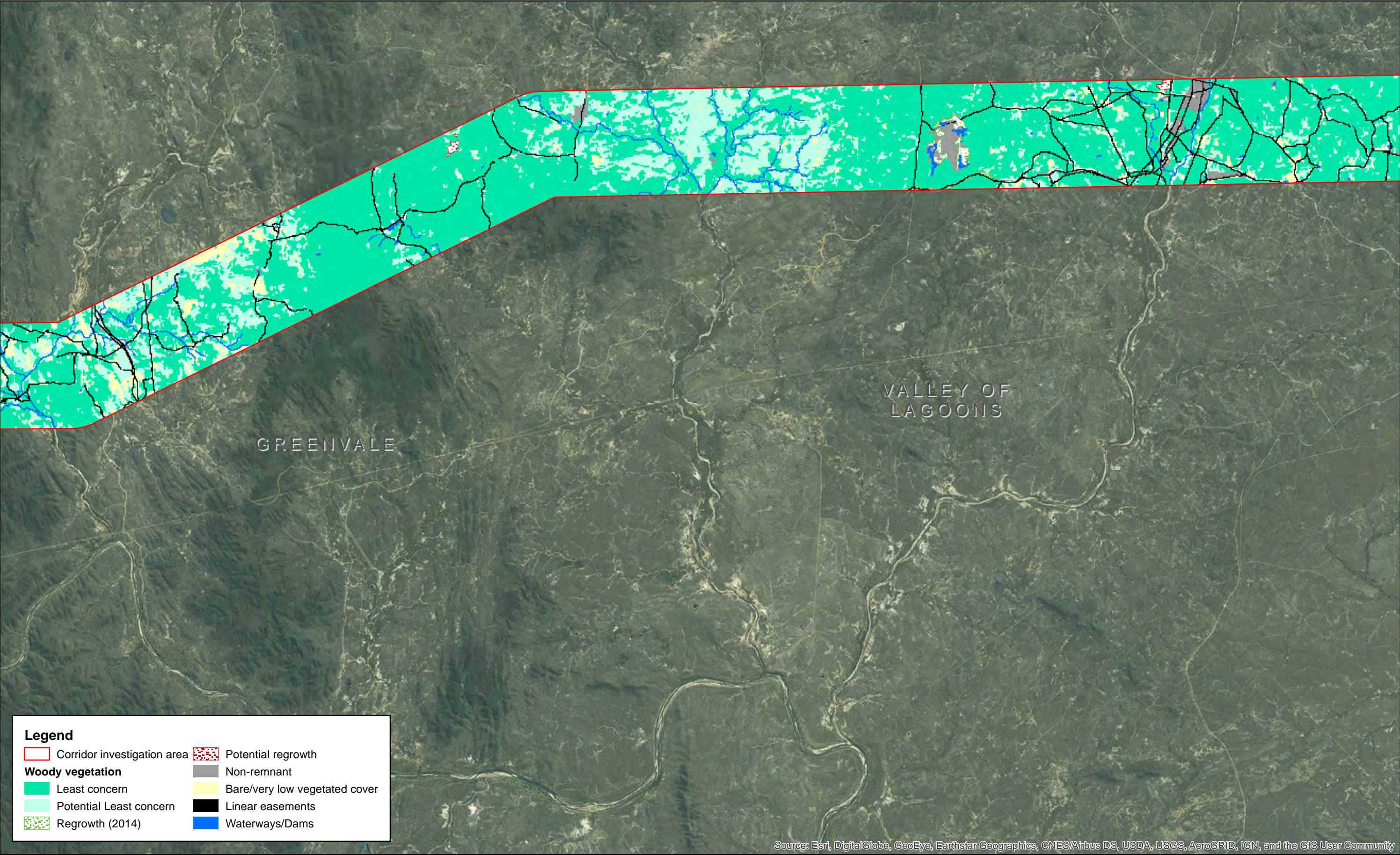
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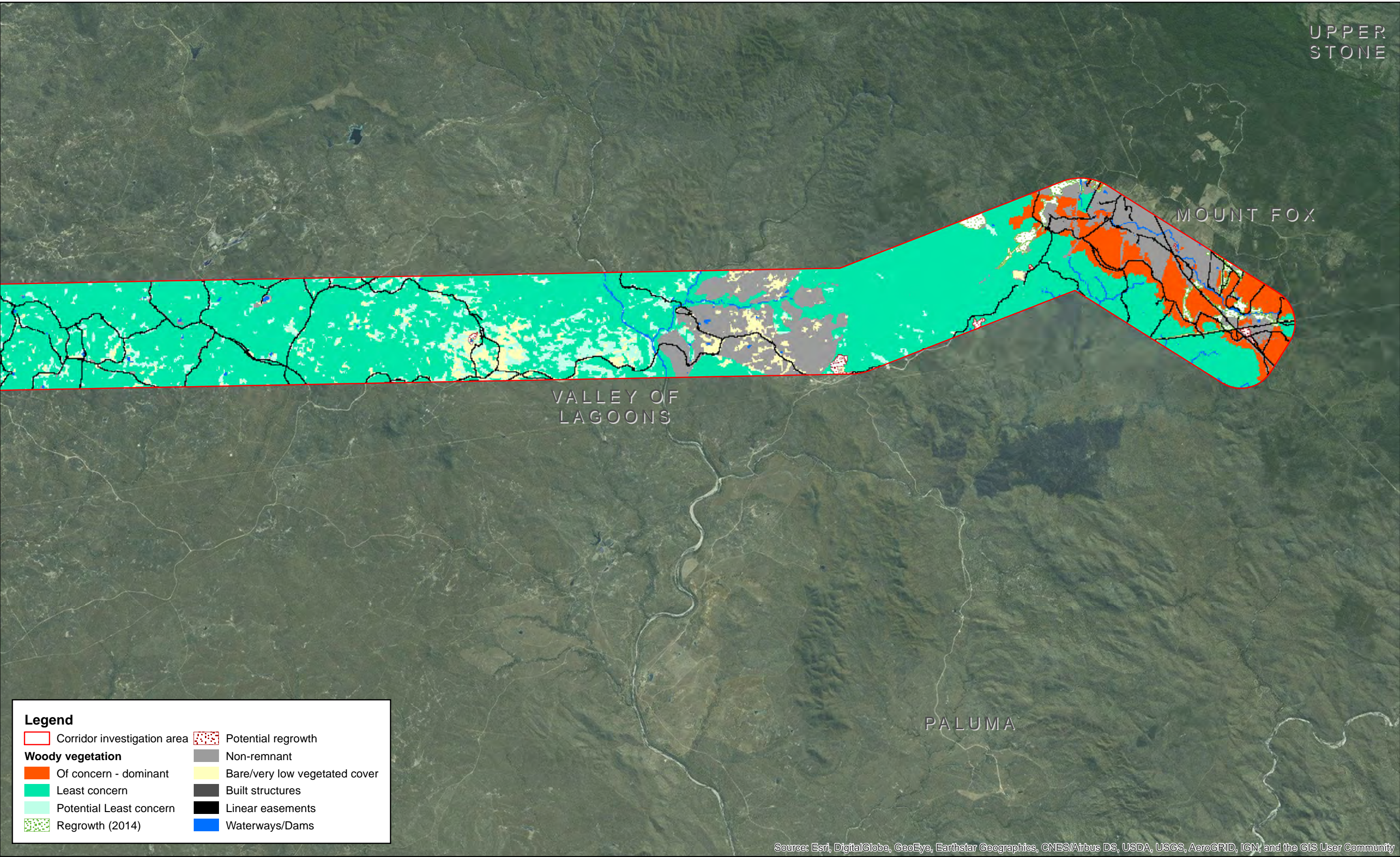
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| Data source: Virtual GIS (2016) | | | | |

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Kidston Power Transmission Line
Figure 3.37
Woody Vegetation
Option A

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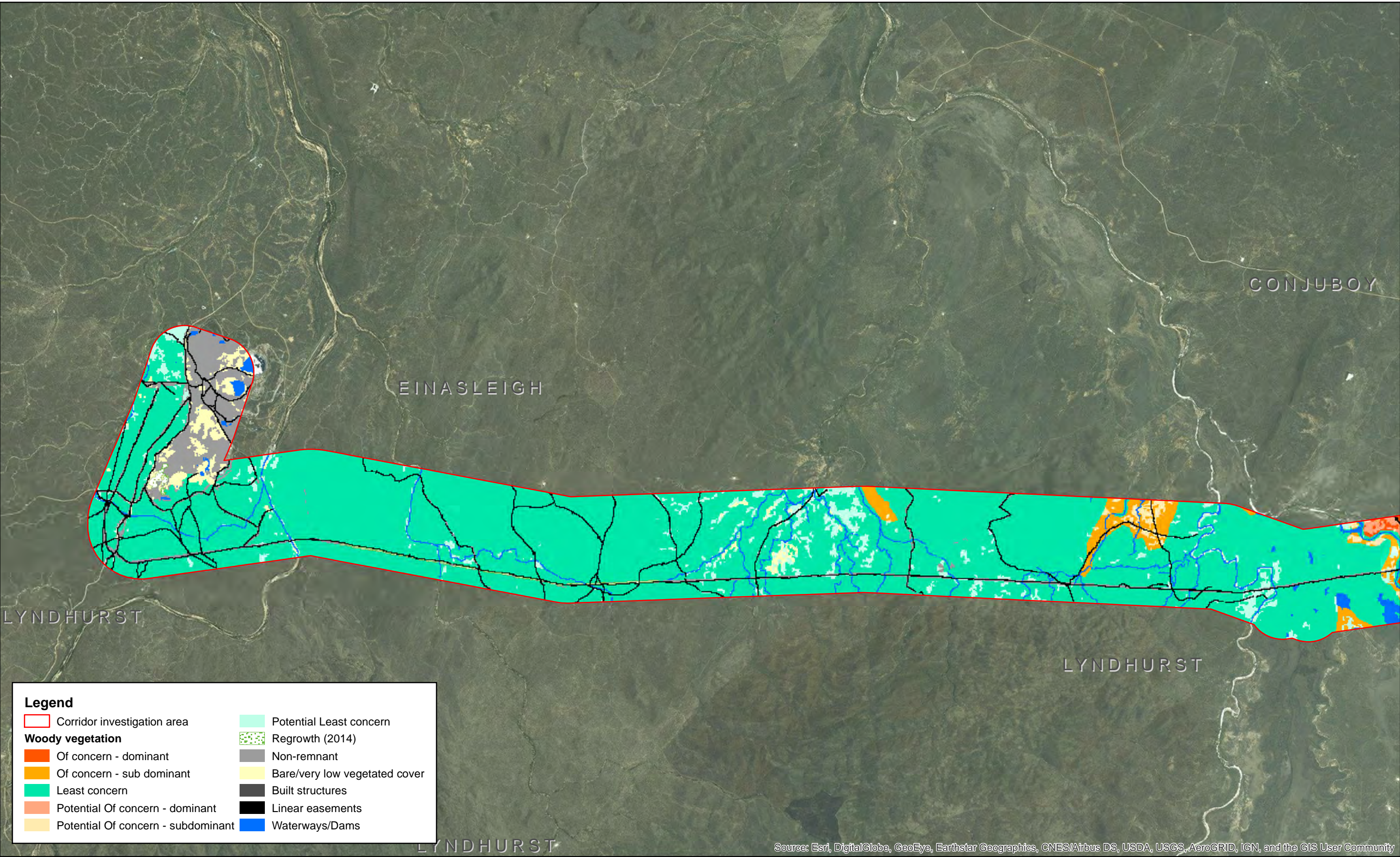
Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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| Data source: Virtual GIS (2016) | | | | |

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Kidston Power Transmission Line
Figure 3.39
Woody Vegetation
Option A

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Legend

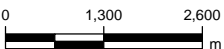
- | | |
|------------------------------------|-------------------------------|
| Corridor investigation area | Potential Least concern |
| Woody vegetation | Regrowth (2014) |
| Of concern - dominant | Non-remnant |
| Of concern - sub dominant | Bare/very low vegetated cover |
| Least concern | Built structures |
| Potential Of concern - dominant | Linear easements |
| Potential Of concern - subdominant | Waterways/Dams |

Map: 2270434A_GIS_E010_A2b

Author: VD

Date: 12/12/2016

Approved by: RH



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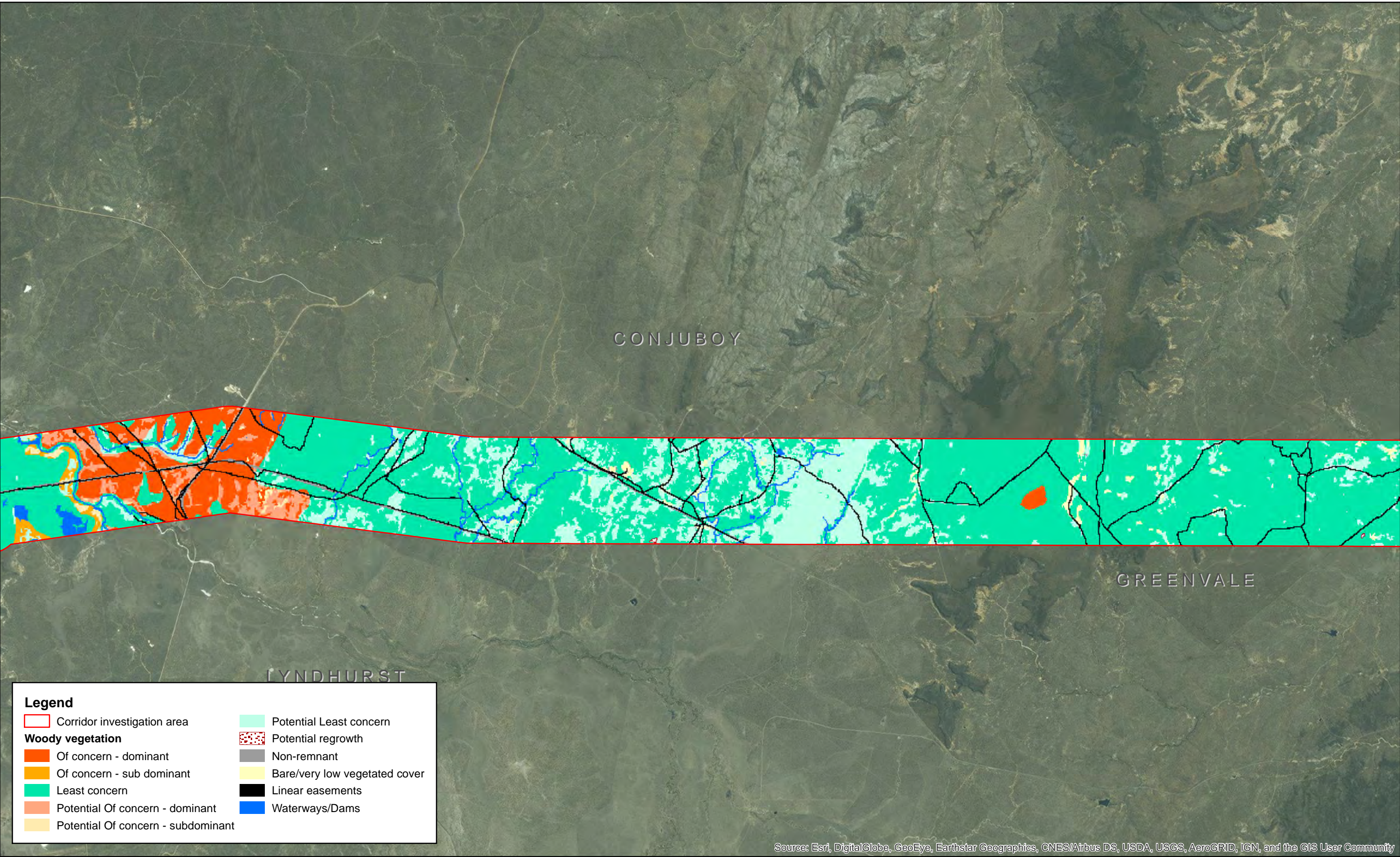
Coordinate system: GDA 1994 MGA Zone 55

Scale ratio correct when printed at A3

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Kidston Power Transmission Line
Figure 3.40
Woody Vegetation
Option B



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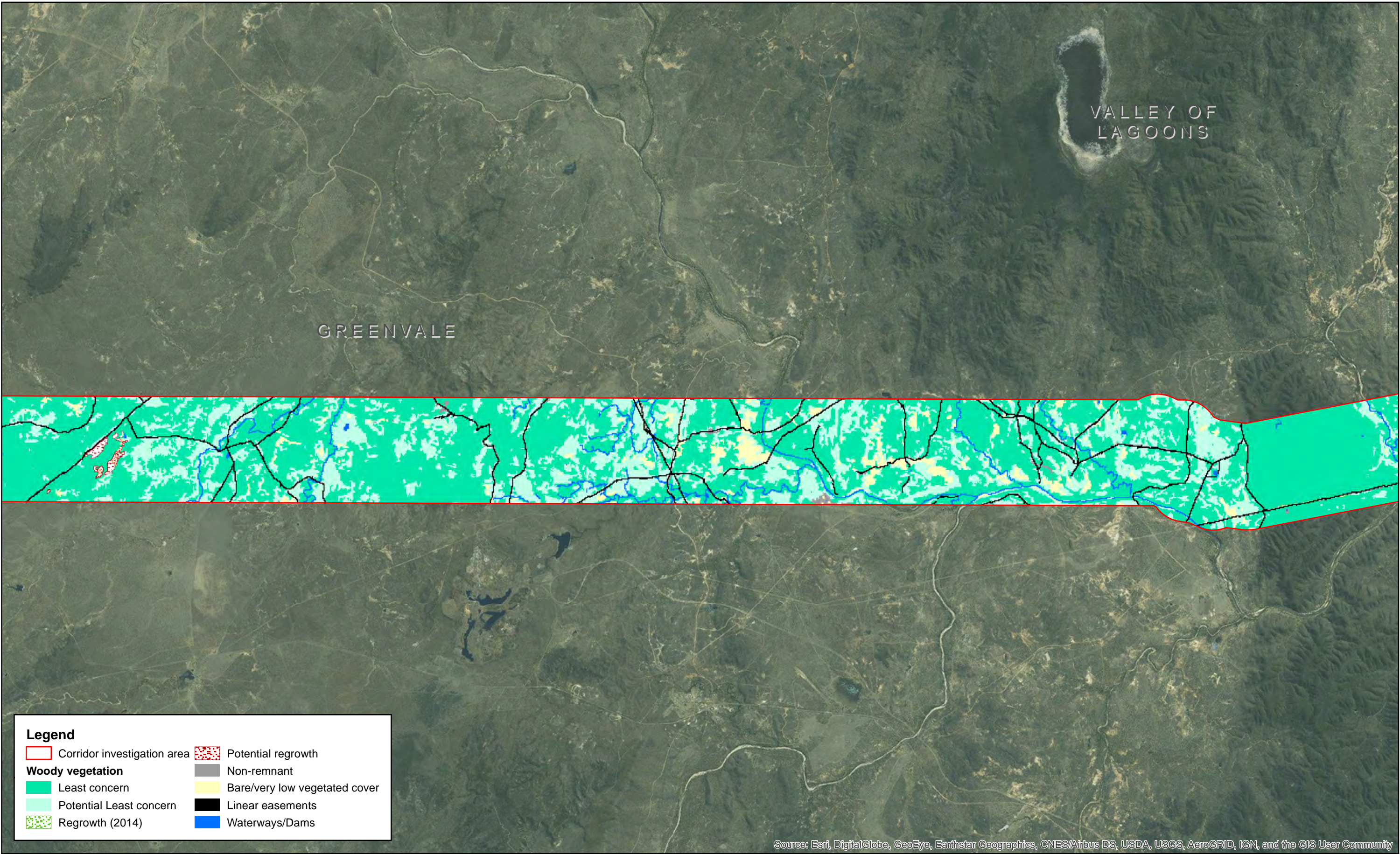
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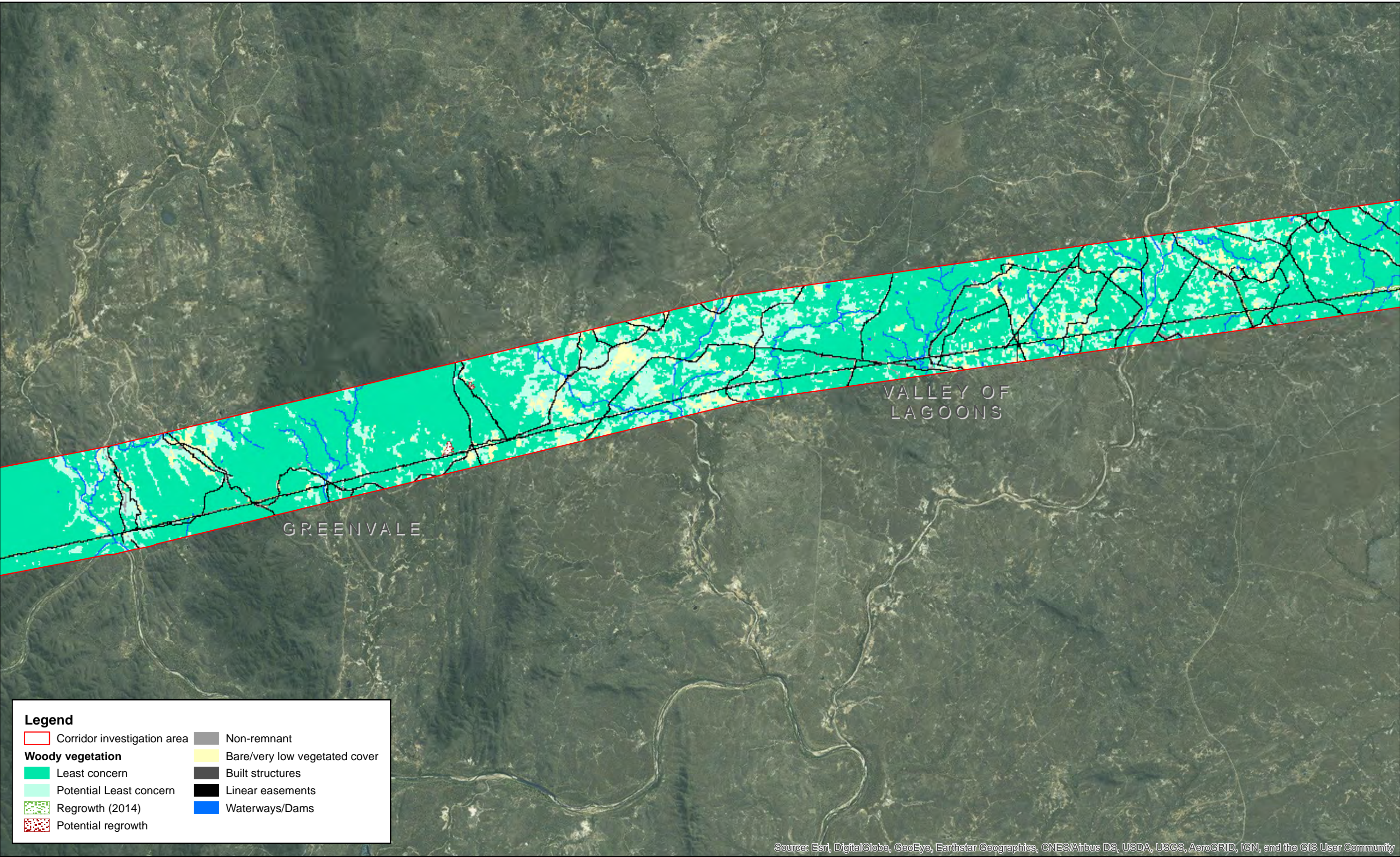
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Kidston Power Transmission Line
Figure 3.41
Woody Vegetation
Option B

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Corridor investigation area

Least concern

Potential Least concern

Regrowth (2014)

Potential regrowth

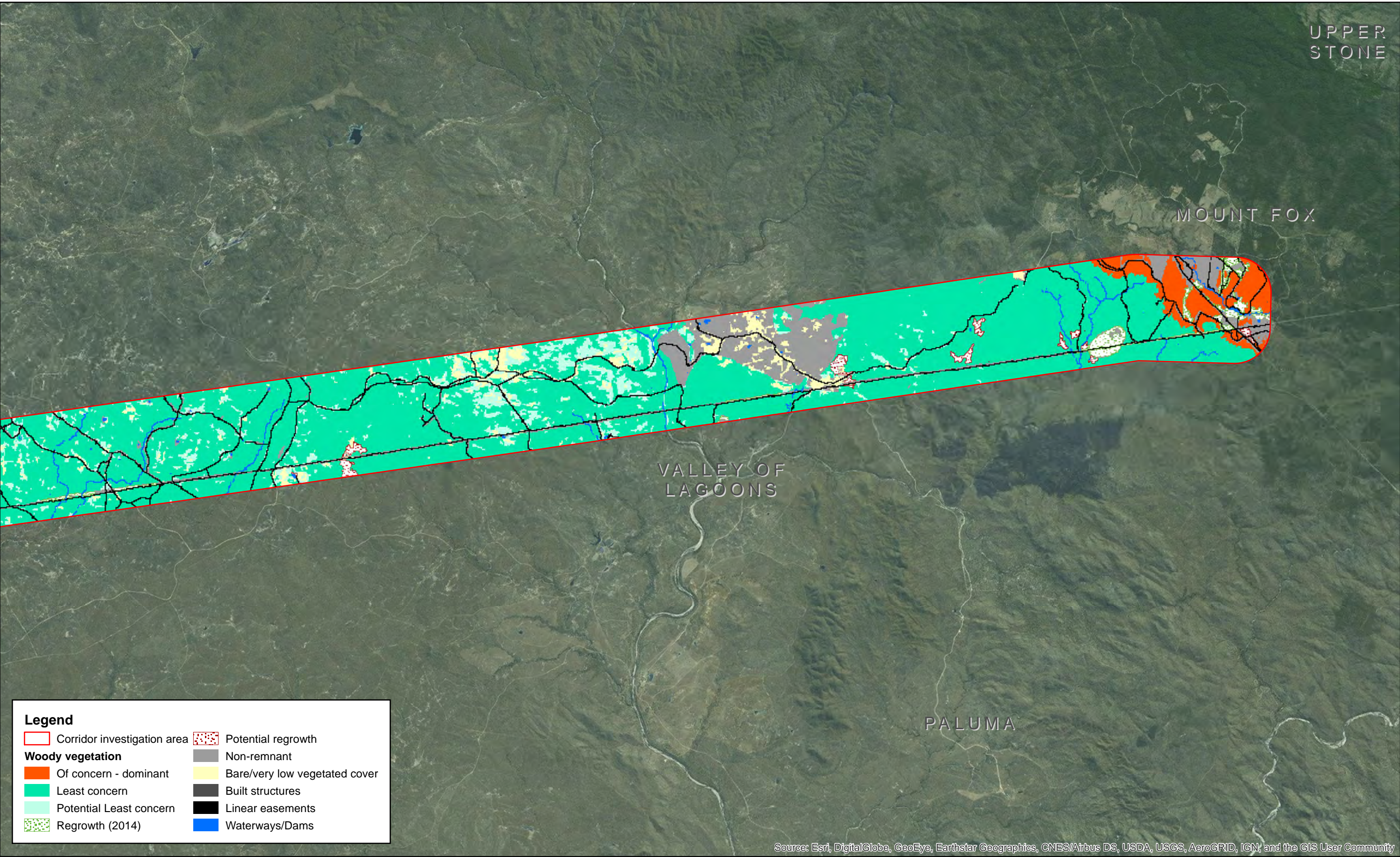
Non-remnant

Bare/very low vegetated cover

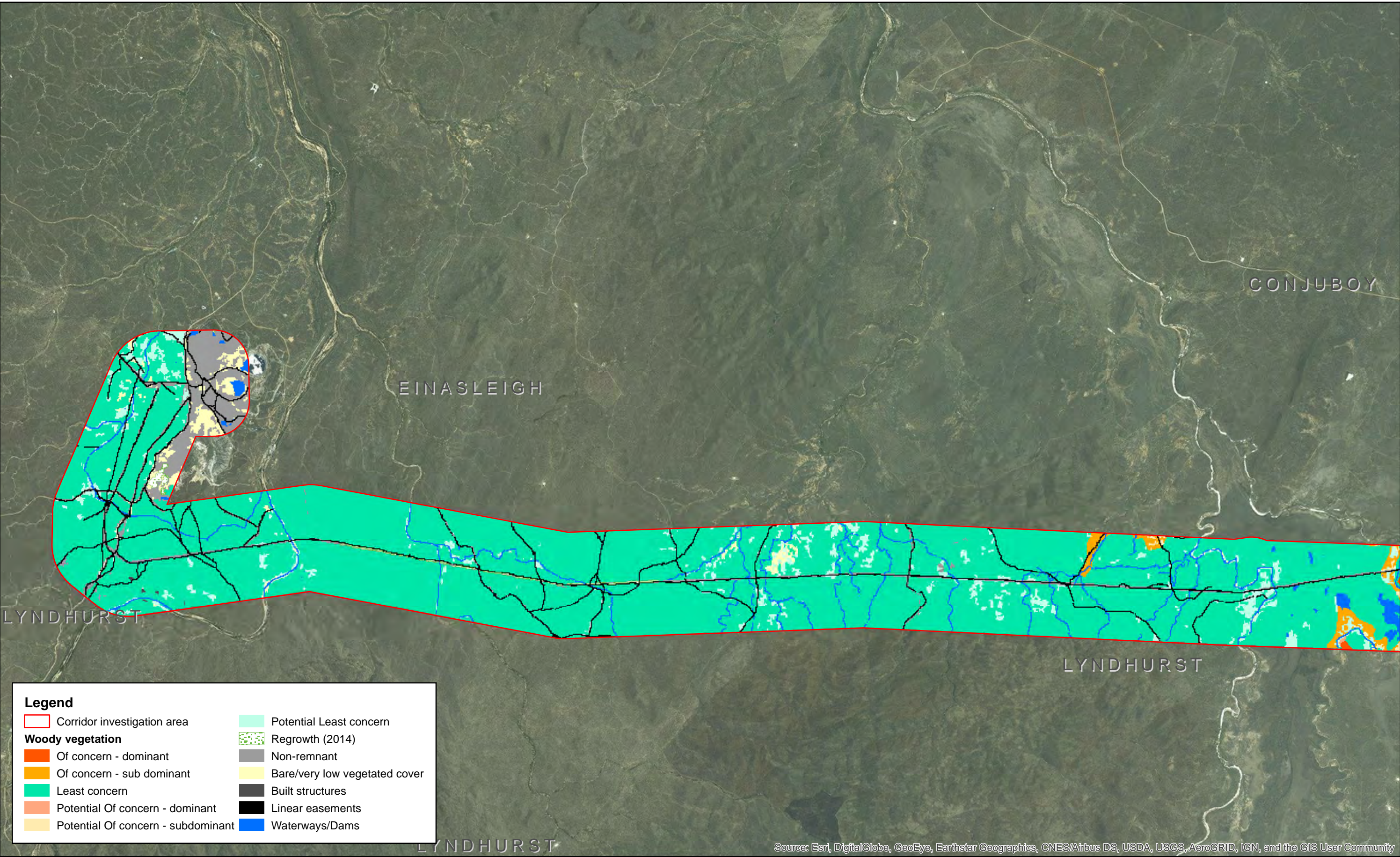
Built structures

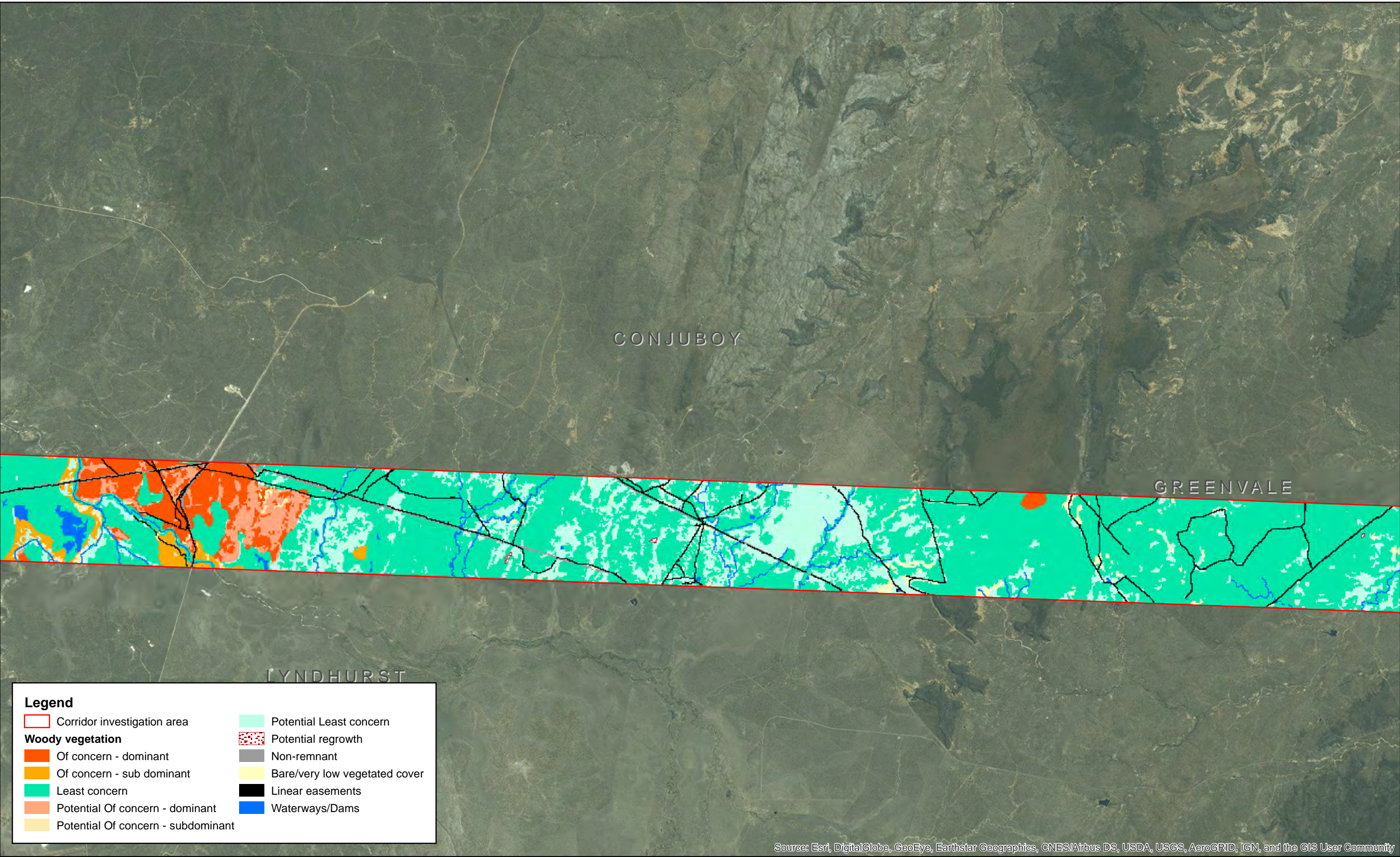
Linear easements

Waterways/Dams



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

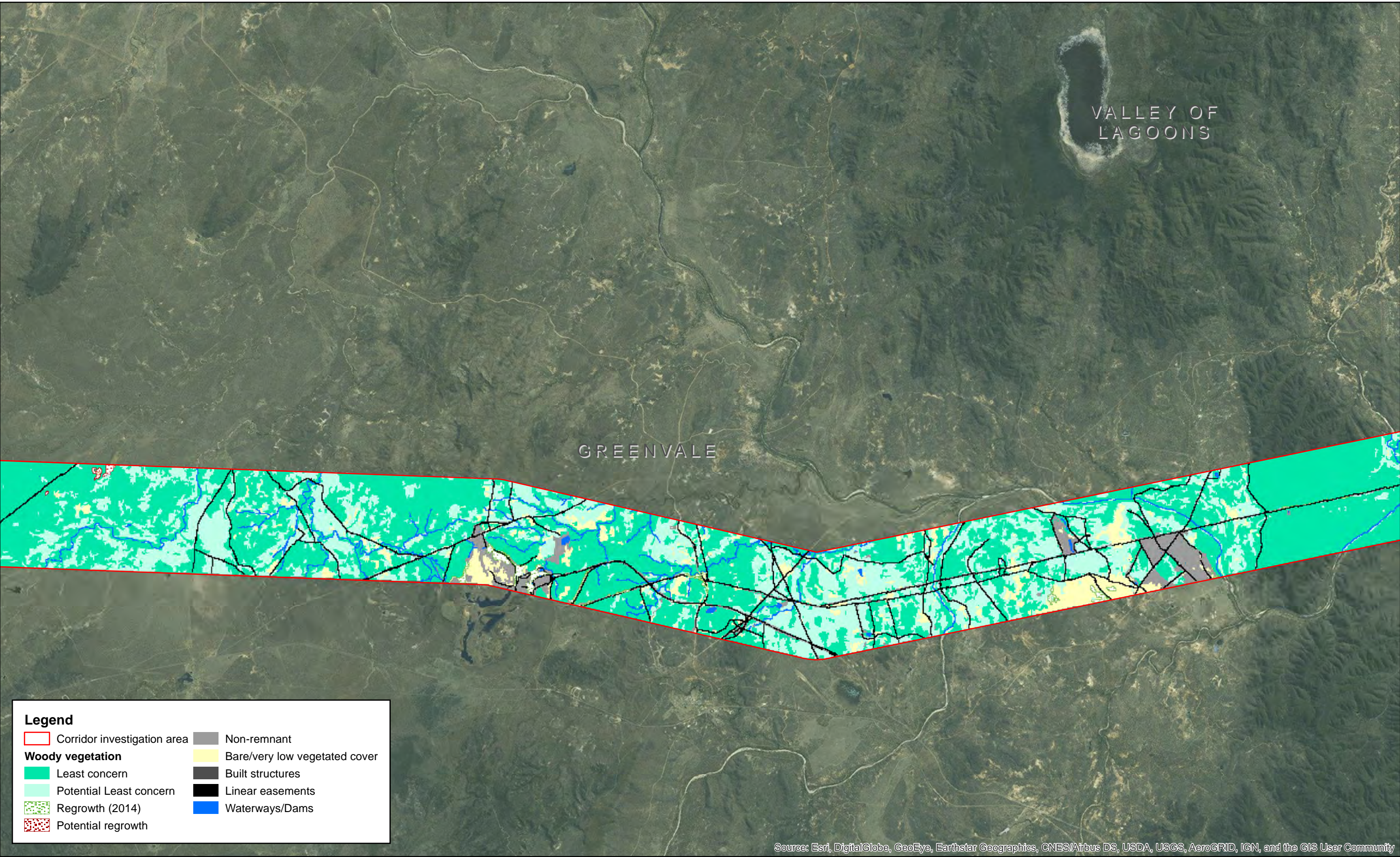




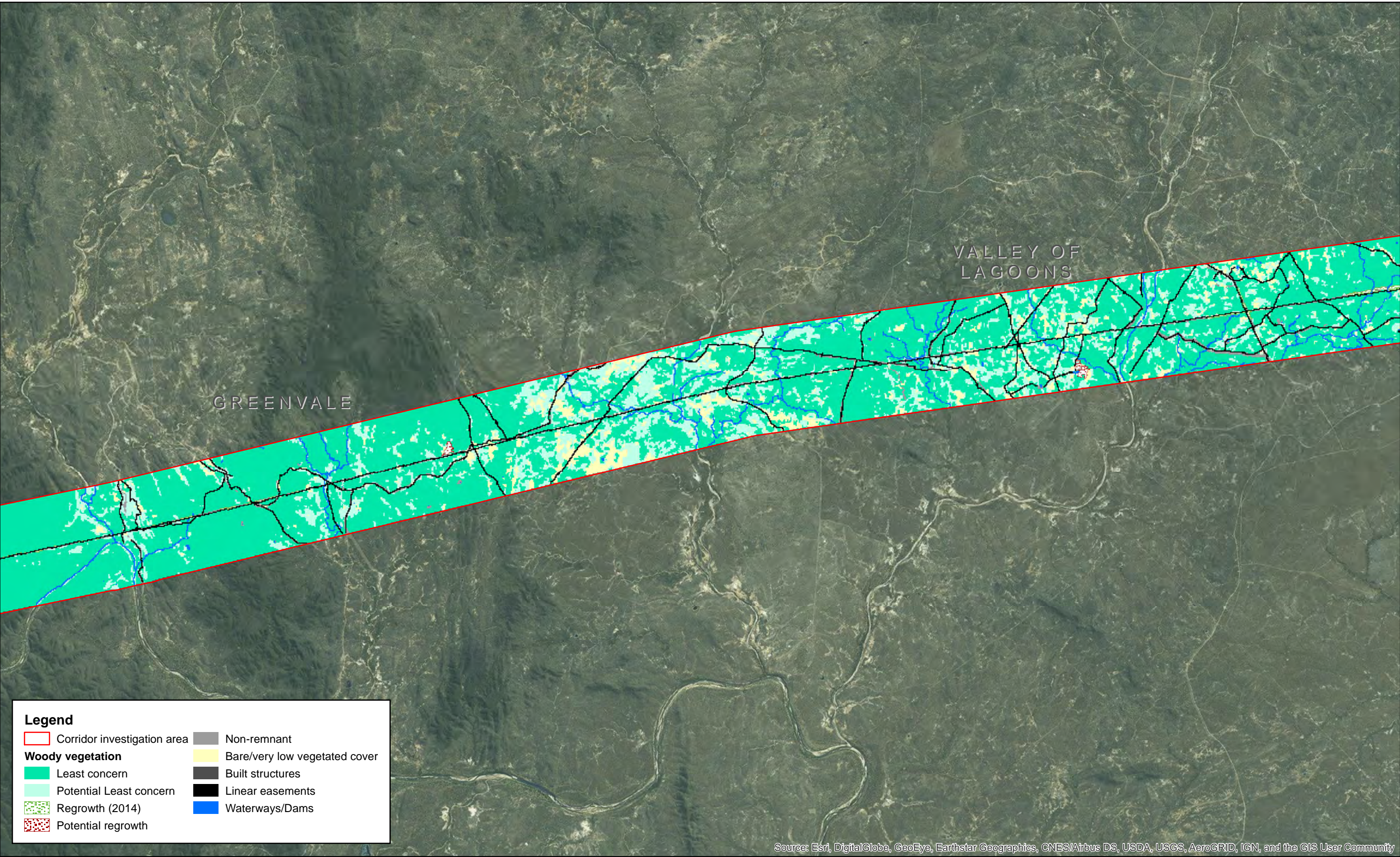
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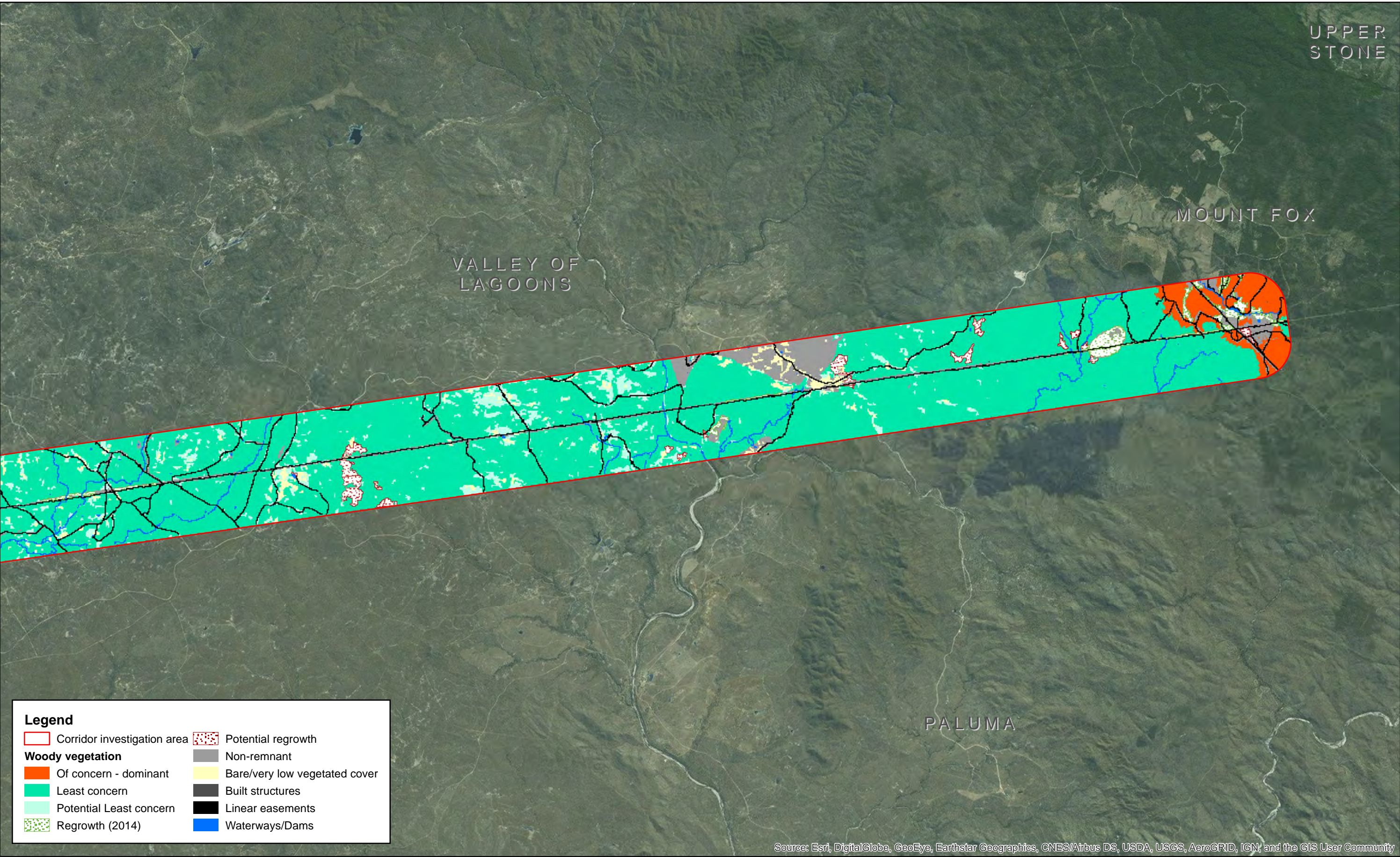
Kidston Power Transmission Line
Figure 3.46
Woody Vegetation
Option C

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3.1.5 Regulated remnant watercourse vegetation

All three corridor investigation areas intersect remnant watercourse vegetation on the 1:100,000 and 1:250,000 scale vegetation management watercourse maps, as indicated above on Figure 3.20–Figure 3.34.

The eastern third of Options A, B and C are located in the coastal Wet Tropics bioregion and for those part of each option, the defined distances for a remnant regional ecosystem in a coastal bioregion applies (refer Table 2.1). The remaining two-thirds of Options A, B and C are located in the non-coastal Einasleigh Uplands bioregion and therefore are aligned to the defined distances for a remnant regional ecosystem in a non-coastal bioregion (refer Table 2.2).

The area (ha) of potential impact of each corridor option upon regulated remnant watercourse vegetation in the coastal Wet Tropics bioregion is presented in Table 3.6.

The results of the analysis of regulated remnant watercourse vegetation for each corridor option is presented in Appendix G.

Table 3.6 The extent (ha) of potential impact of each corridor option upon regulated remnant watercourse vegetation in the coastal Wet Tropics bioregion

| WATERCOURSE STREAM ORDER | DISTANCE FROM THE DEFINING BANK (M) | OPTION A (HA) | OPTION B (HA) | OPTION C (HA) |
|--------------------------|-------------------------------------|---------------|---------------|---------------|
| 1 or 2 | 10 | 65 | 30 | 23 |
| 3 or 4 | 25 | 53 | 20 | 22 |
| 5 or greater | 50 | 0 | 0 | 0 |
| Totals | | 118 | 50 | 45 |

In reference to Table 3.6, Option C is of least constraint in terms of potential impacts upon regulated remnant watercourse vegetation within the defined distances of watercourses in the coastal Wet Tropics bioregion.

The extent (ha) of potential impact of each corridor option upon regulated remnant watercourse vegetation in the non-coastal Einasleigh Uplands bioregion, is presented in Table 3.7.

Table 3.7 The extent (ha) of potential impact of each corridor option upon regulated remnant watercourse vegetation in the non-coastal Einasleigh Uplands bioregion

| WATERCOURSE STREAM ORDER | DISTANCE FROM THE DEFINING BANK (M) | OPTION A (HA) | OPTION B (HA) | OPTION C (HA) |
|--------------------------|-------------------------------------|---------------|---------------|---------------|
| 1 or 2 | 25 | 3,619 | 3,518 | 3,511 |
| 3 or 4 | 50 | 1,301 | 1,325 | 1,379 |
| 5 or greater | 100 | 665 | 704 | 603 |
| Totals | | 5,585 | 5,547 | 5,493 |

In reference to Table 3.7, Option C is of least constraint in terms of potential impacts upon regulated remnant watercourse vegetation within the defined distances of watercourses in the non-coastal Einasleigh Uplands bioregion.

3.1.6 Regulated remnant wetland vegetation

All three corridor investigation areas intersect remnant wetland vegetation, as indicated above on Figure 3.20–Figure 3.34.

The area (ha) of potential impact of each corridor option upon regulated remnant wetland vegetation is presented in Table 3.8.

The results of the analysis of regulated remnant watercourse vegetation for each corridor option is presented in Appendix G.

In reference to Table 3.8, Option A is of least constraint in terms of potential impacts upon regulated remnant wetland vegetation that is within a 50 m of the defined bank of mapped regulated vegetation wetlands.

Table 3.8 The extent (ha) of potential impact of each corridor option upon regulated remnant wetland vegetation

| CORRIDOR | REGULATED REMNANT WETLAND VEGETATION (HA) |
|----------|---|
| Option A | 4.7 |
| Option B | 42.3 |
| Option C | 27.7 |

3.1.7 Protected areas

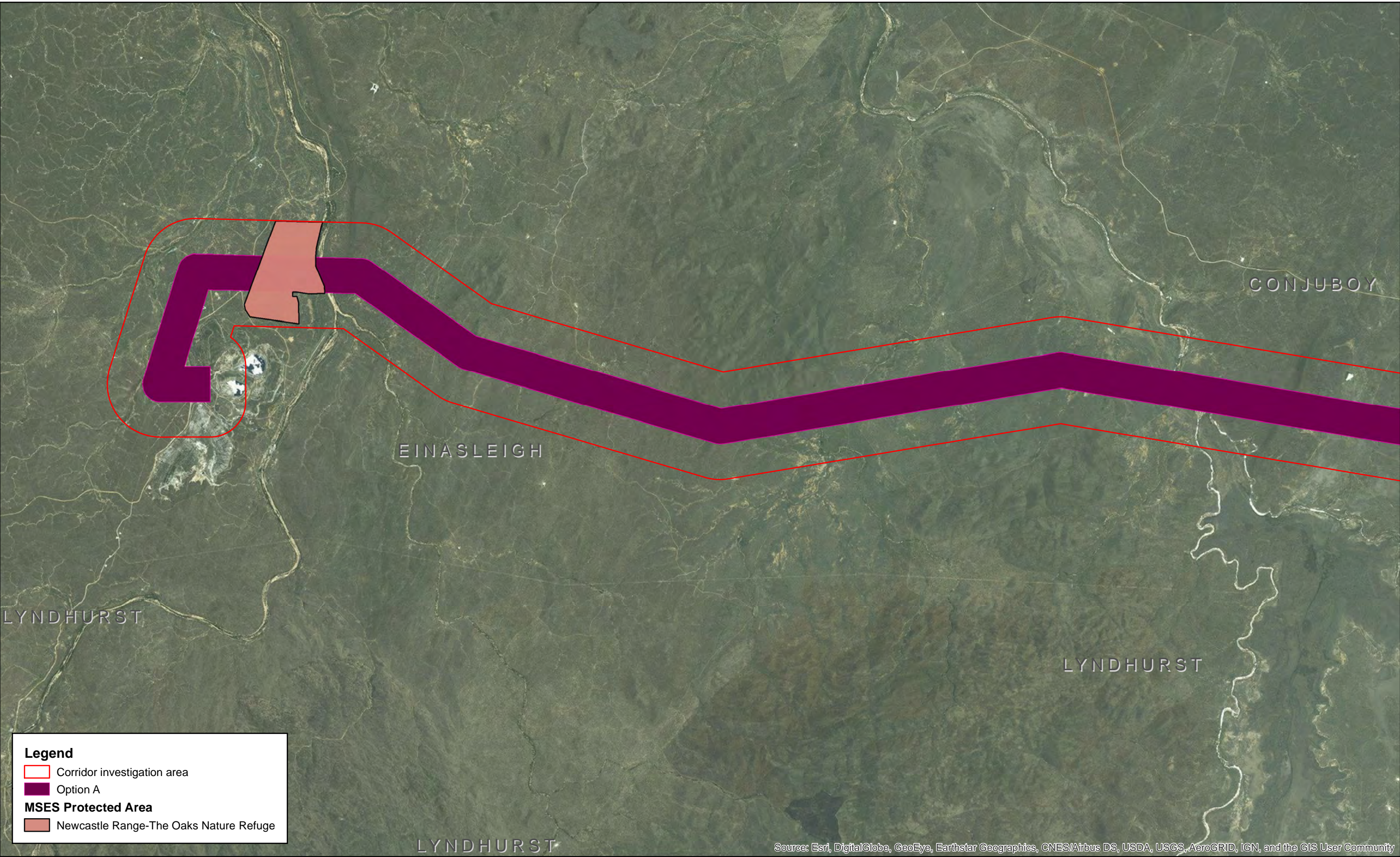
All three corridor investigation areas intersect with sections of protected areas, as indicated on Figure 3.50–Figure 3.64. The area (ha) of protected areas associated with each corridor investigation area is presented in Table 3.9.

The spreadsheet that contains the analysis of protected areas is presented in Appendix G.

In reference to Table 3.9, Option C is of least constraint in terms of potential impacts upon MSES Protected Areas.

Table 3.9 Amount (ha) of protected areas associated with each corridor investigation area

| PROTECTED AREA | OPTION A (HA) | OPTION B (HA) | OPTION C (HA) |
|--|---------------|---------------|---------------|
| Newcastle Range – The Oaks Nature Refuge | 439.8 | 0 | 0 |
| Liefway Nature Refuge | 4.7 | 0 | 3.0 |
| Sub-totals – Nature Refuges | 444.5 | 0 | 3.0 |
| Girringun National Park | 213.7 | 214.4 | 142.3 |
| Sub-total – National Parks | 213.7 | 214.4 | 142.3 |
| Total – Protected Areas | 658 | 214 | 145 |

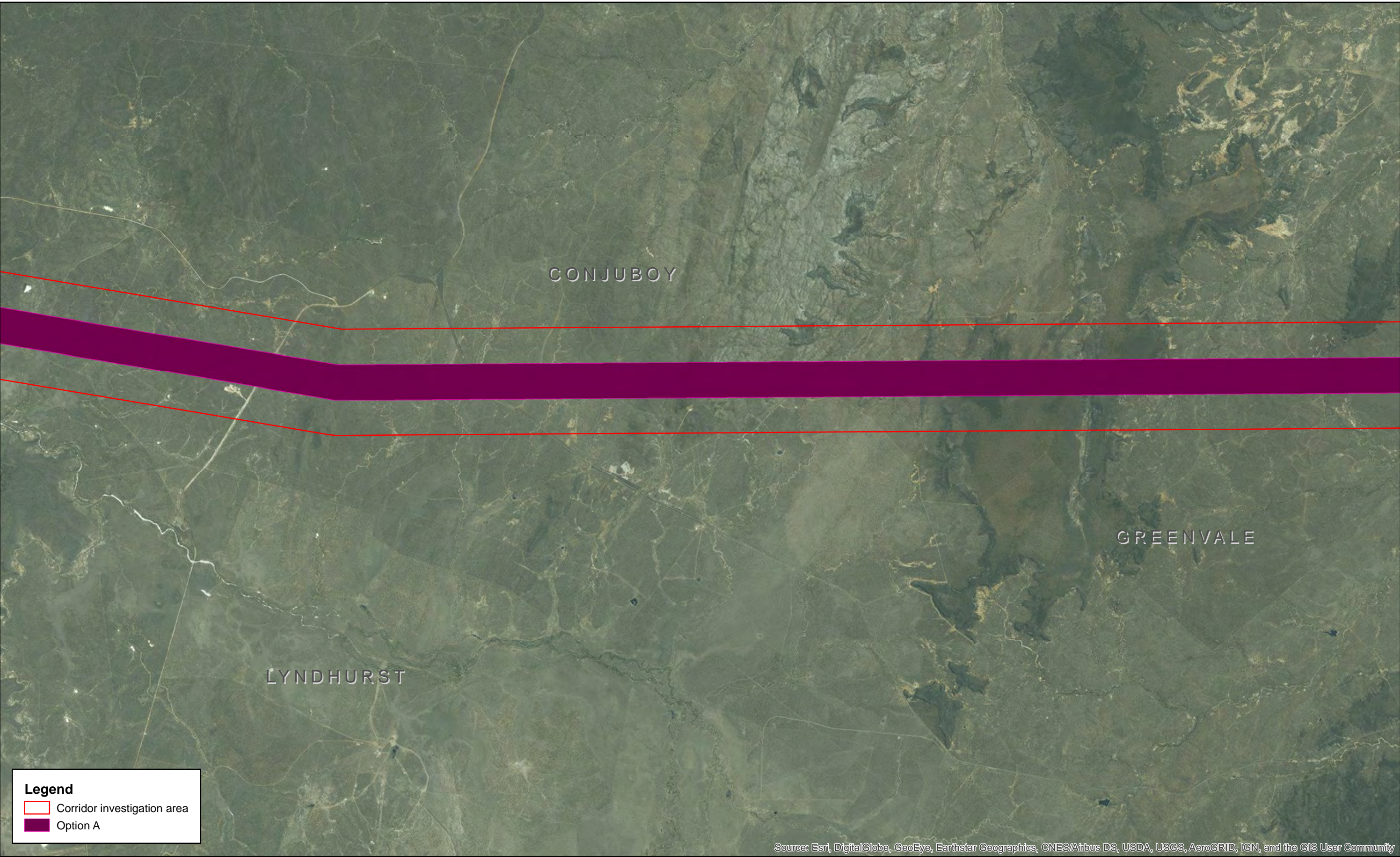


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| Date: 12/12/2016 | Approved by: RH | | | |
| Data source: Department of Environment and Heritage Protection (2016) | | | | |

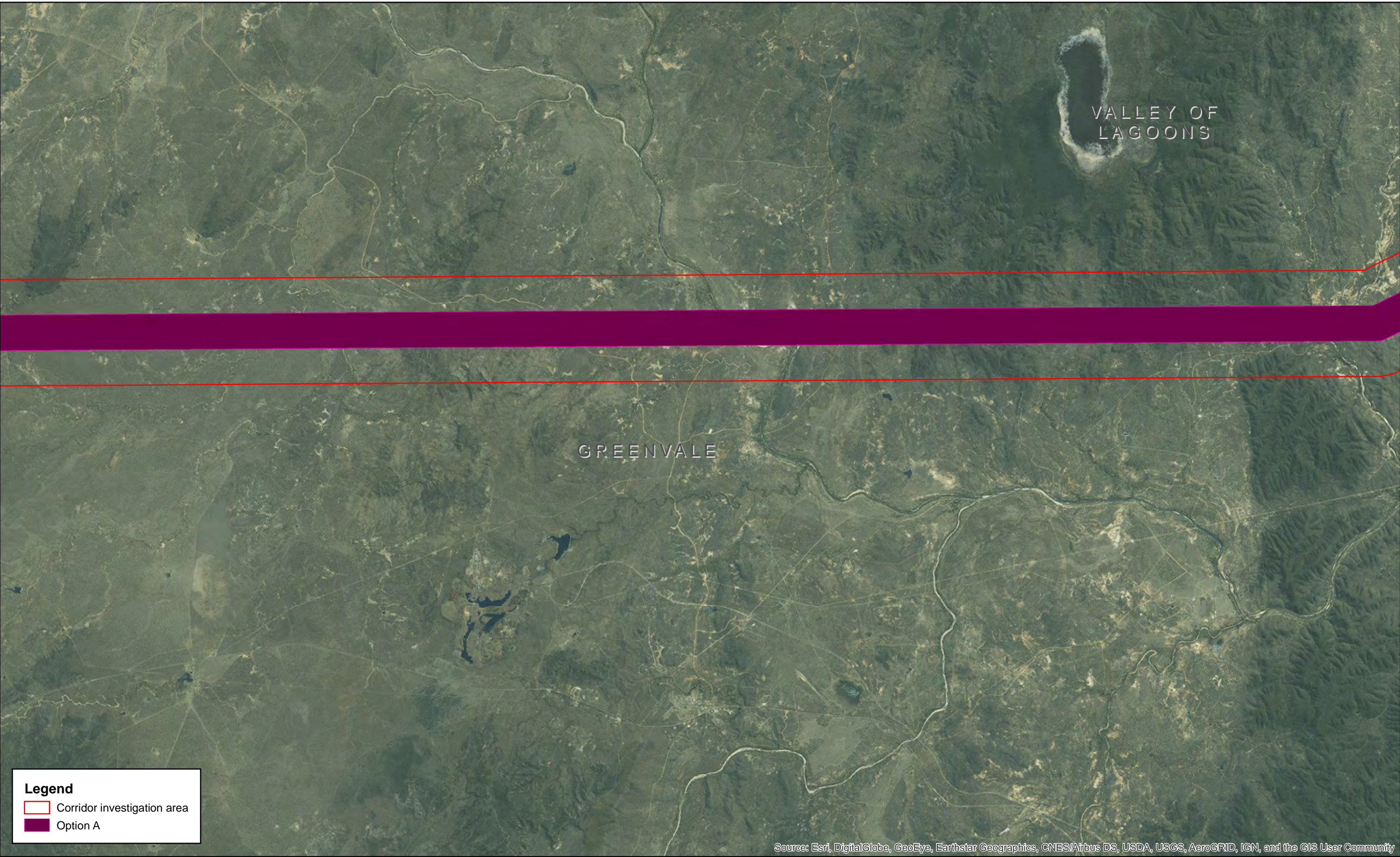
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Kidston Power Transmission Line
Figure 3.50
Protected areas, wildlife habitats and high ecological significance (HES) wetlands
Option A

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community





Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Corridor investigation area

Option A

| | | | |
|---|-----------------|---|--|
| Map: 2270434A_GIS_E007_A2a | Author: VD |  |  1:100,000 |
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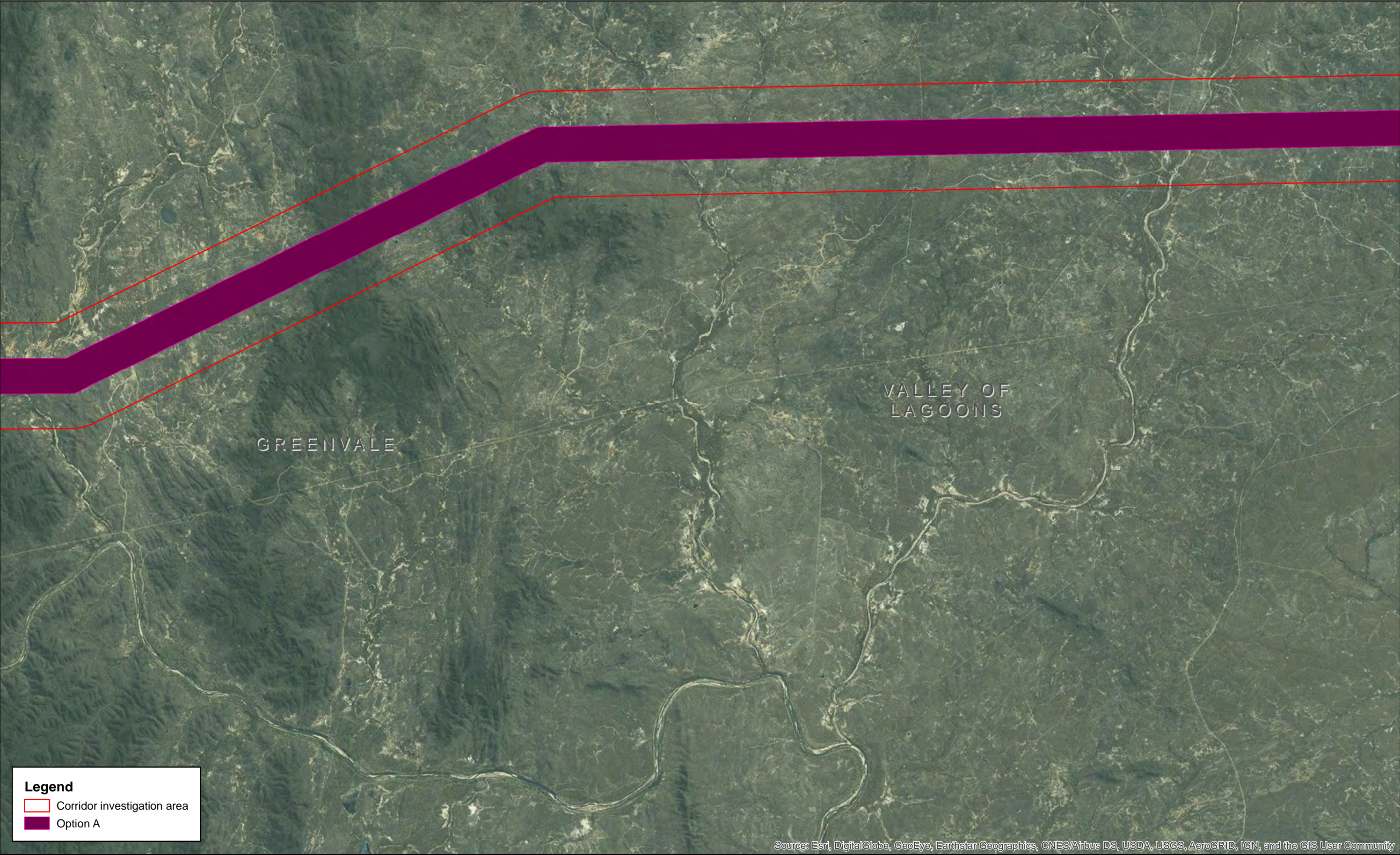


Kidston Power Transmission Line

Figure 3.52

Protected areas, wildlife habitats and high ecological significance (HES) wetlands

Option A



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

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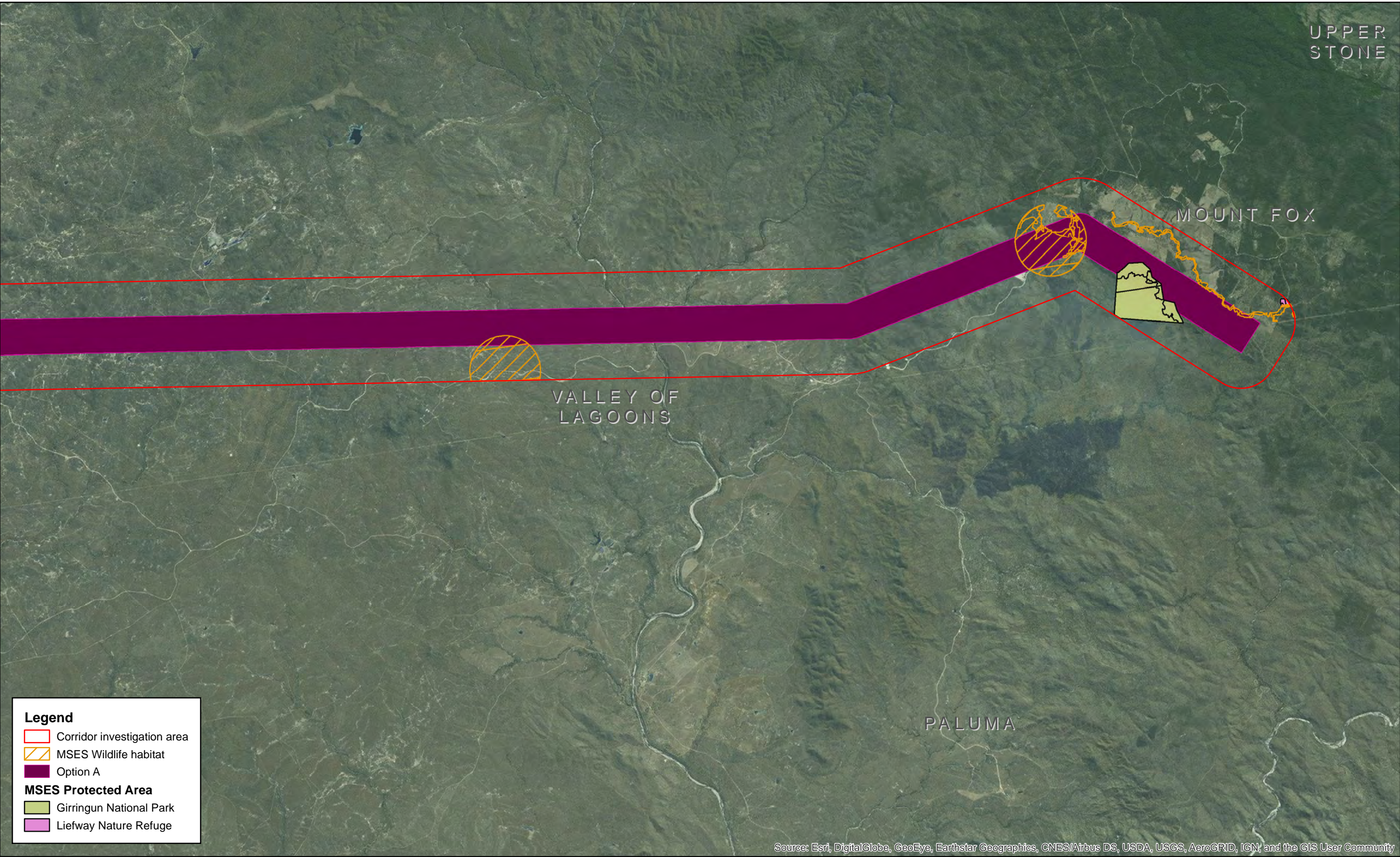


Kidston Power Transmission Line
Figure 3.53
Protected areas, wildlife habitats and high ecological significance (HES) wetlands
Option A

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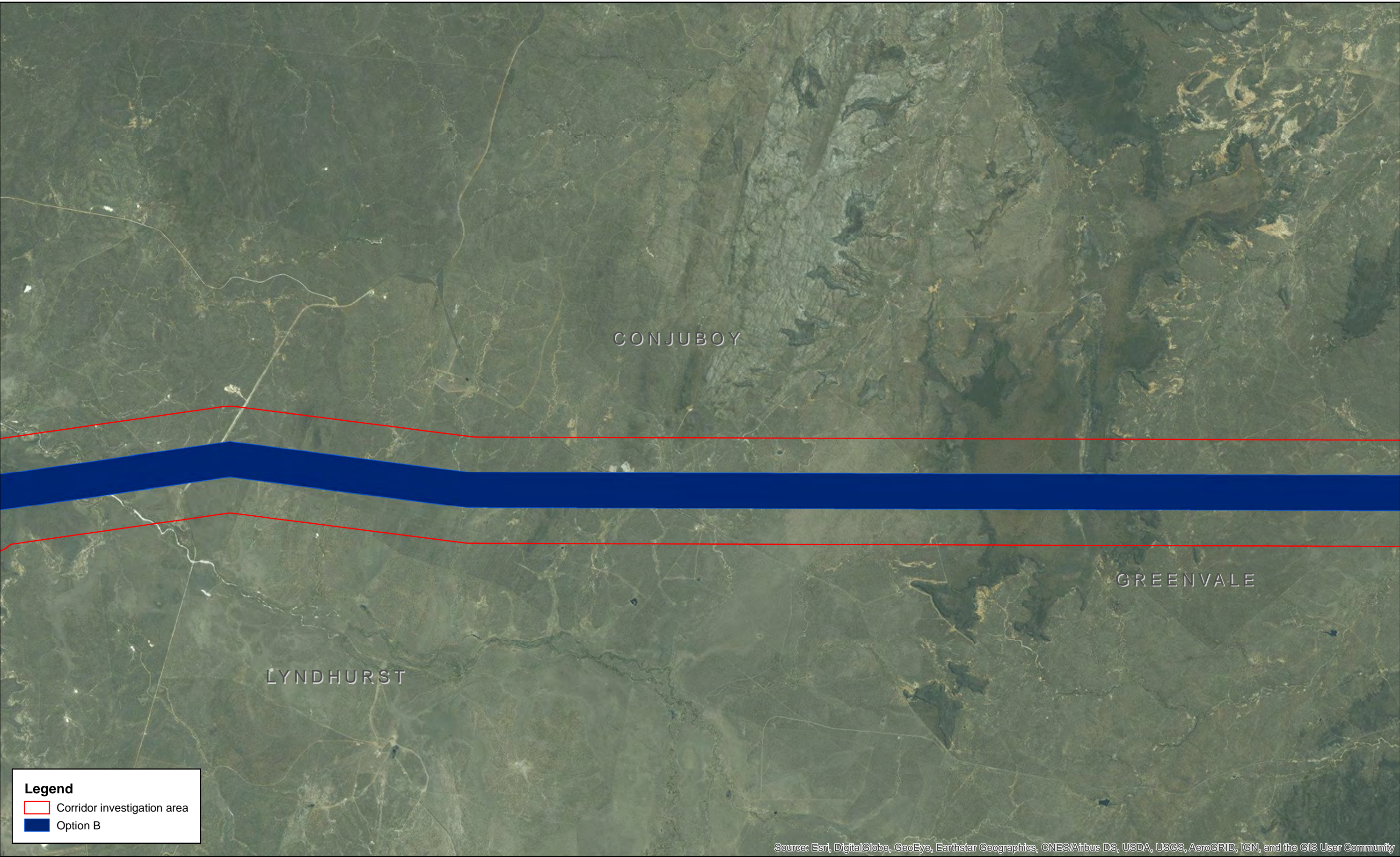
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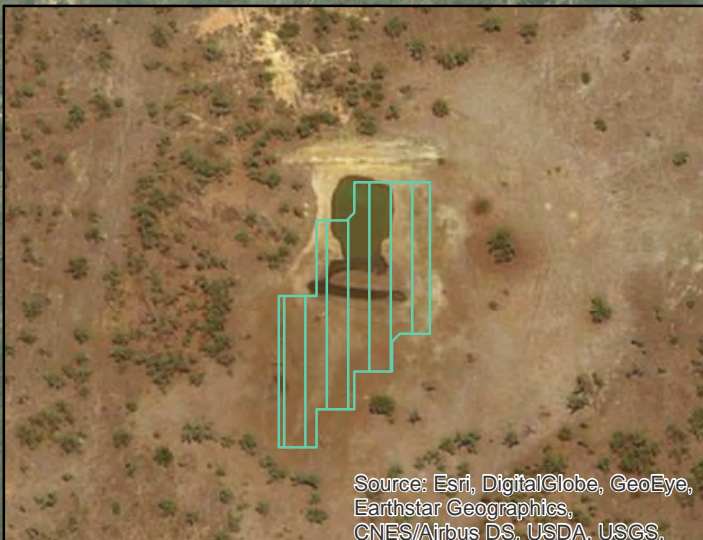
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Kidston Power Transmission Line
Figure 3.55
Protected areas, wildlife habitats and high ecological significance (HES) wetlands
Option B

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



GREENVALE

VALLEY OF LAGOONS

Legend

- Corridor investigation area
- MSES High ecological significance wetlands
- Option B

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

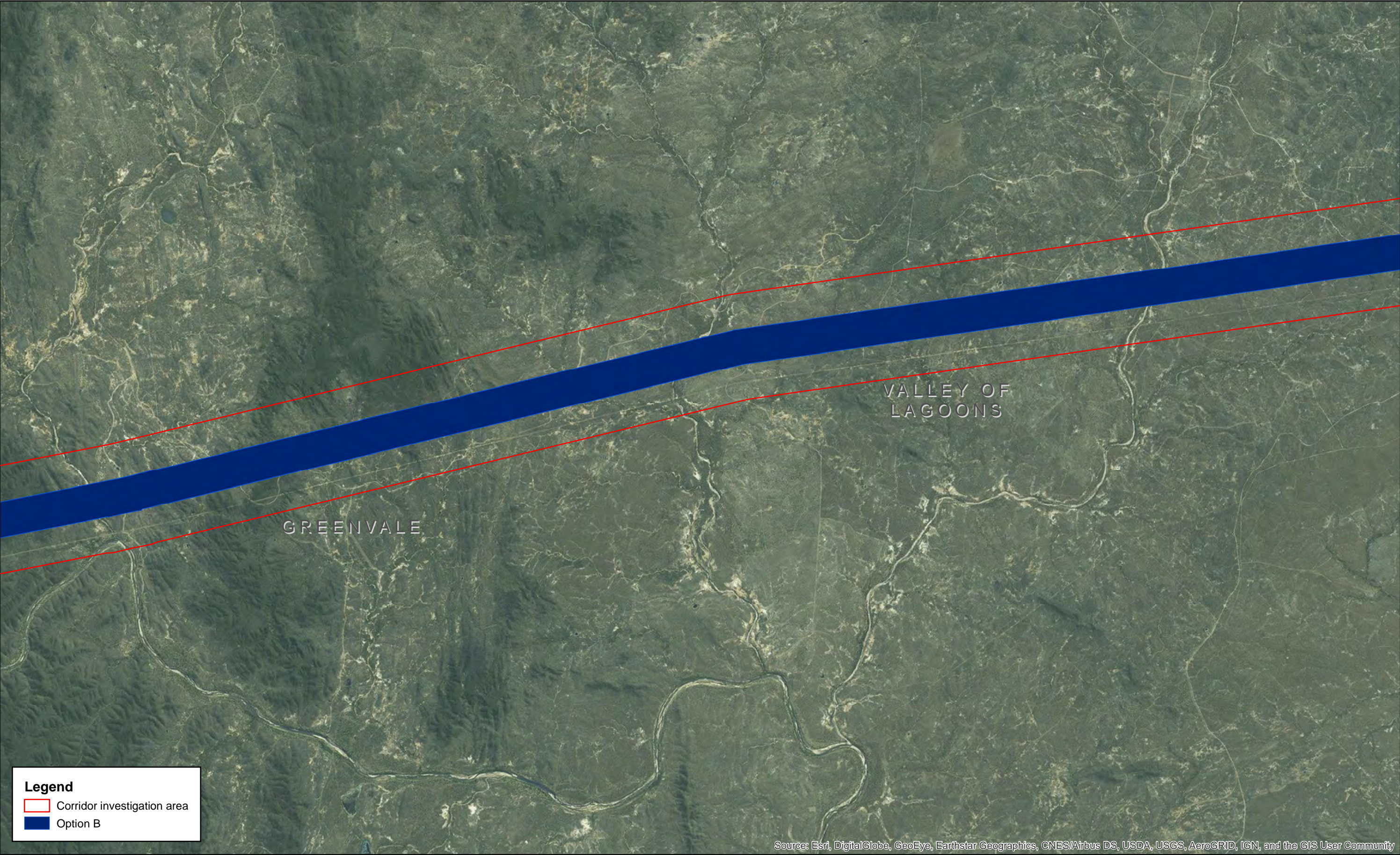
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| Date: 12/12/2016 | Approved by: RH | | |
| Data source: Department of Environment and Heritage Protection (2016) | | | |



Kidston Power Transmission Line
Figure 3.57
Matters of State Environmental Significance Wildlife Habitat and HES Wetlands
Option B

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Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

Legend

Corridor investigation area

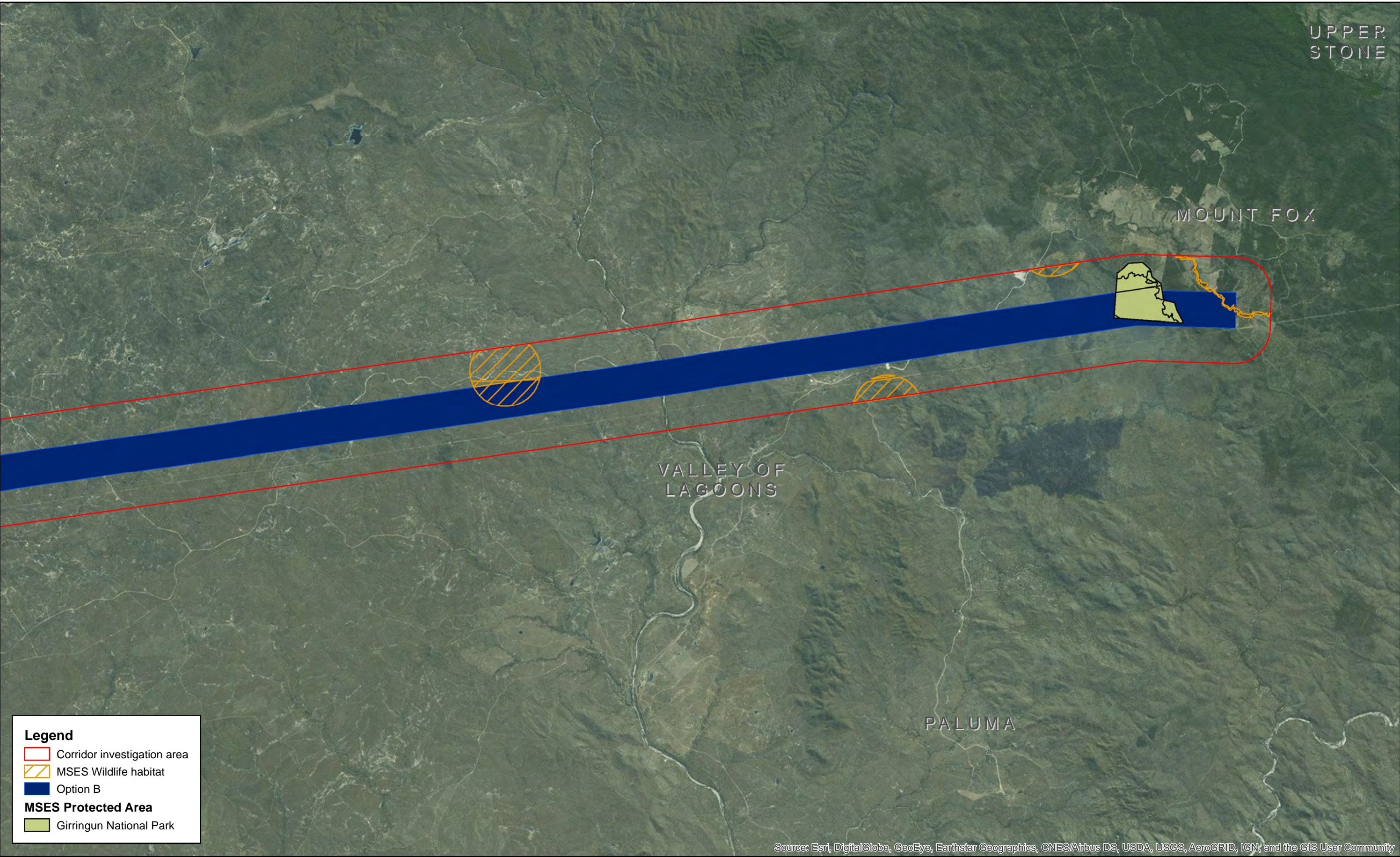
Option B

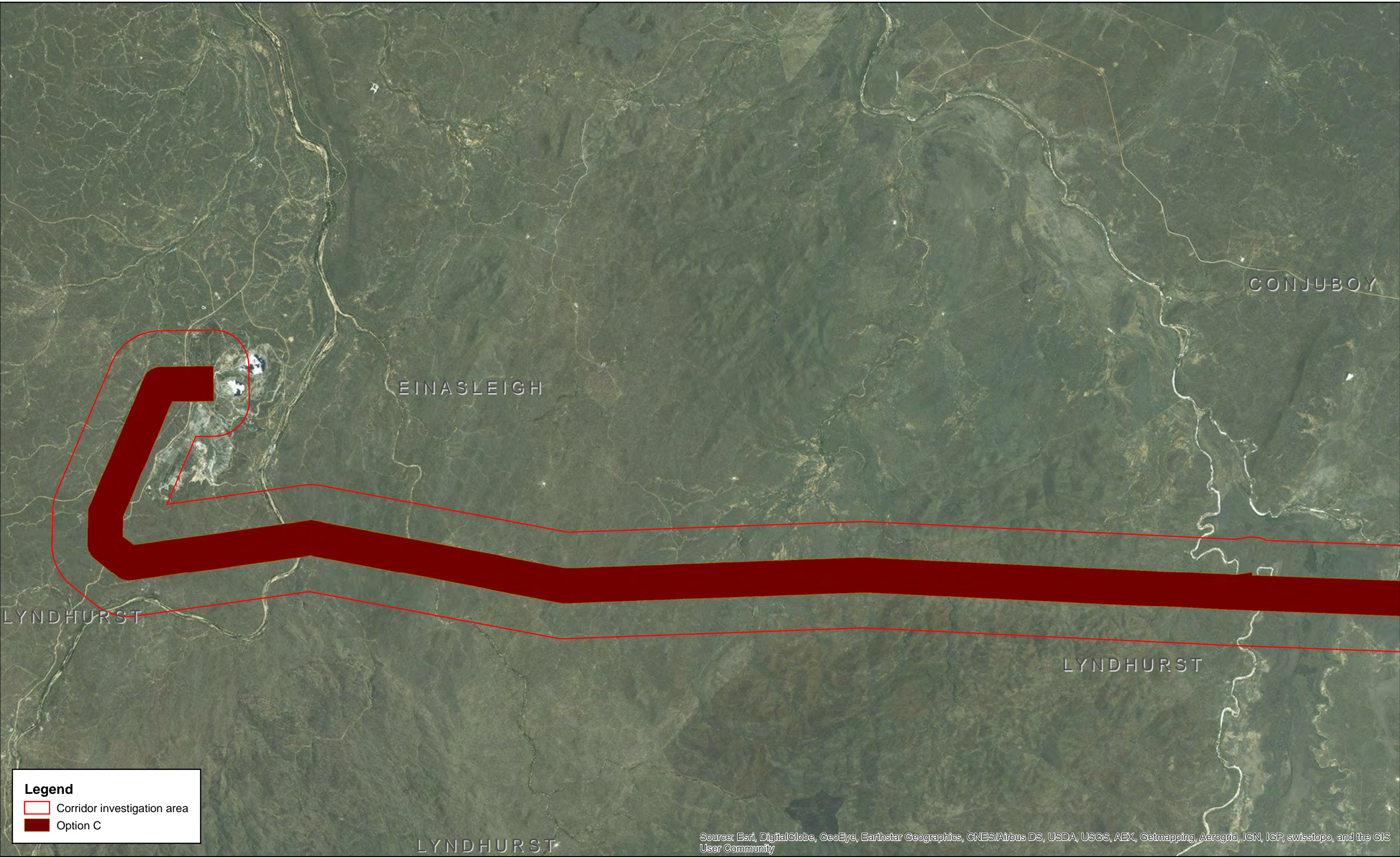
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| Data source: Department of Environment and Heritage Protection (2016) | | | Coordinate system: GDA 1994 MGA Zone 55 Scale ratio correct when printed at A3 |

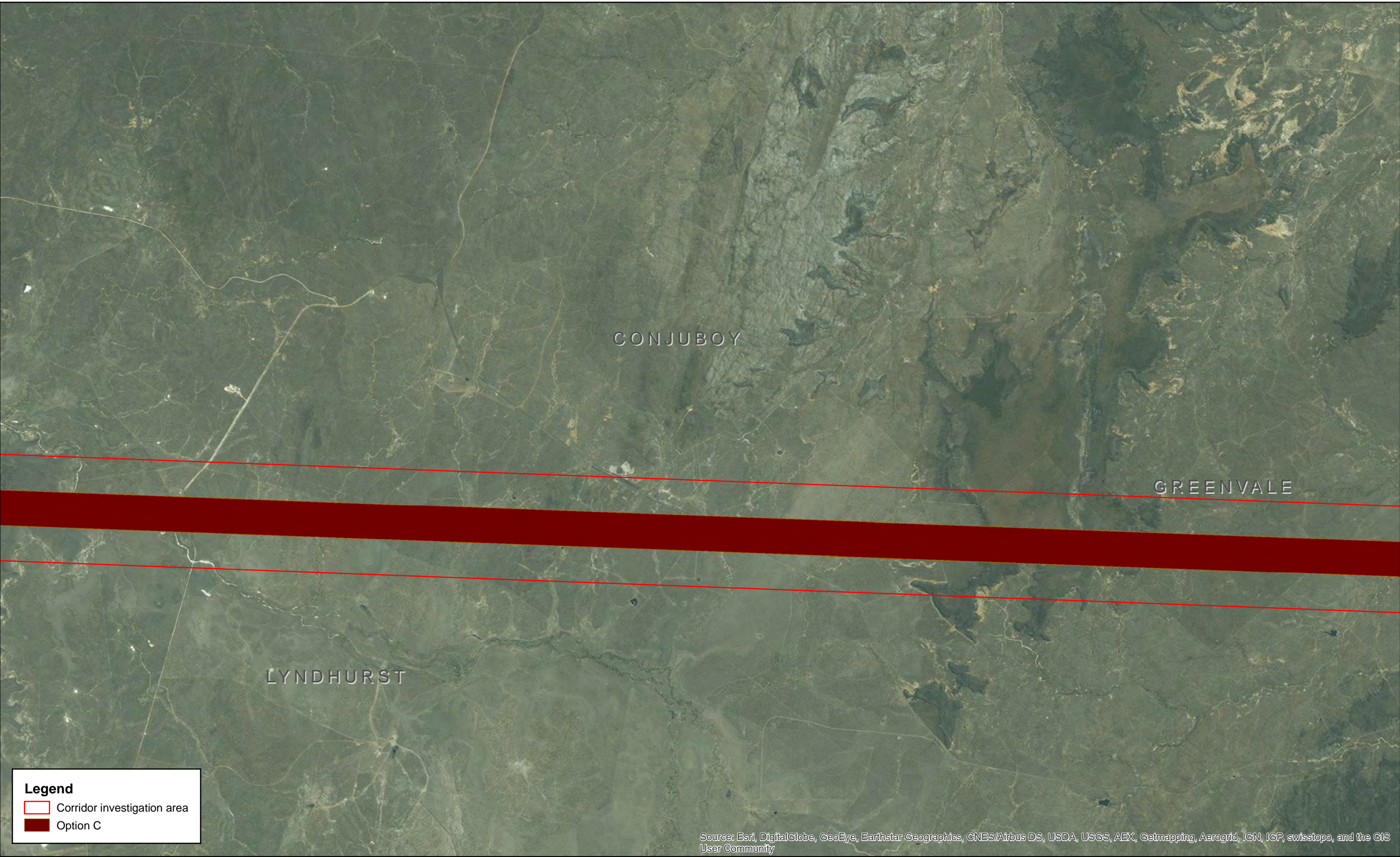
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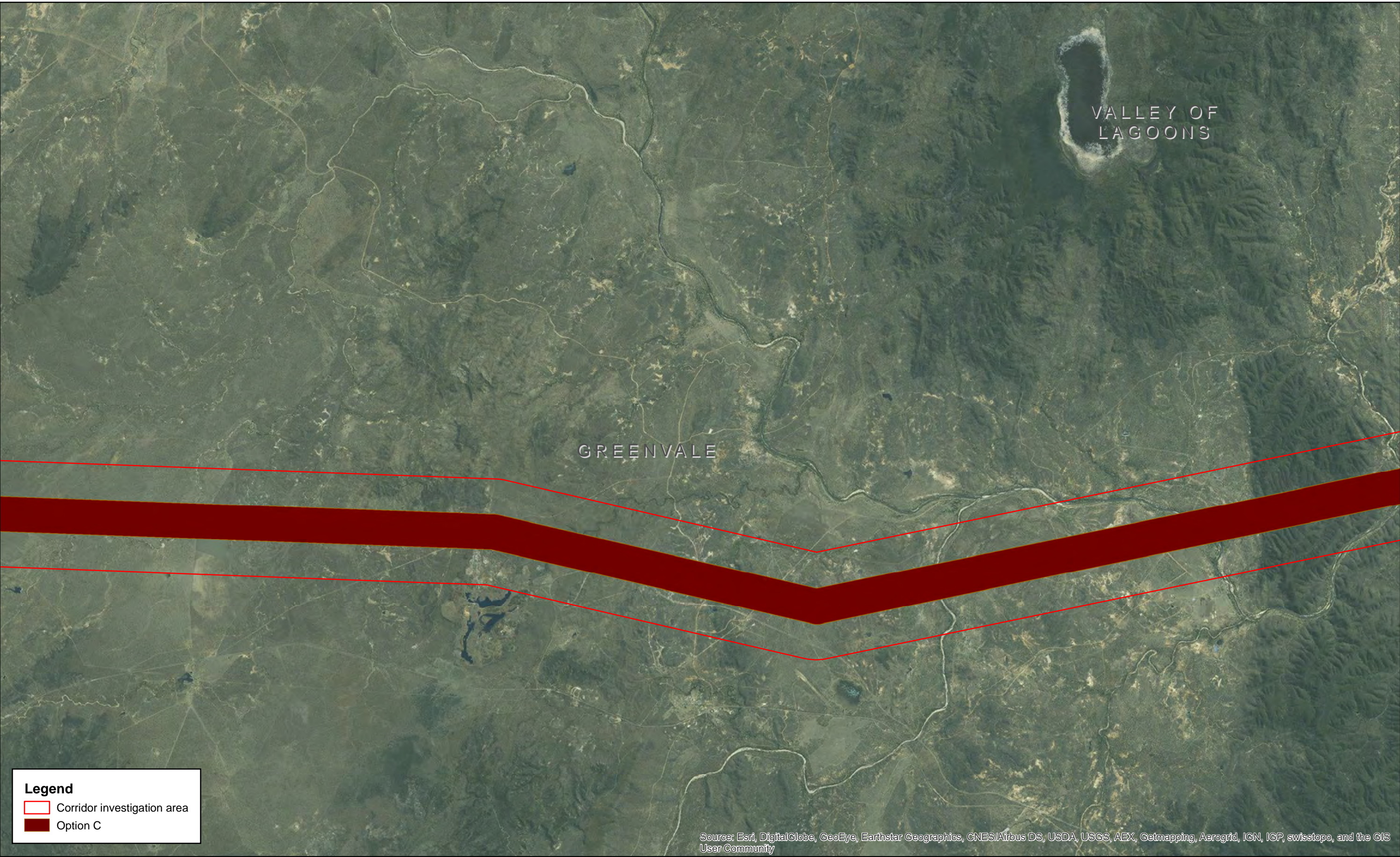


Kidston Power Transmission Line
Figure 3.58
Protected areas, wildlife habitats and high ecological significance (HES) wetlands
Option B









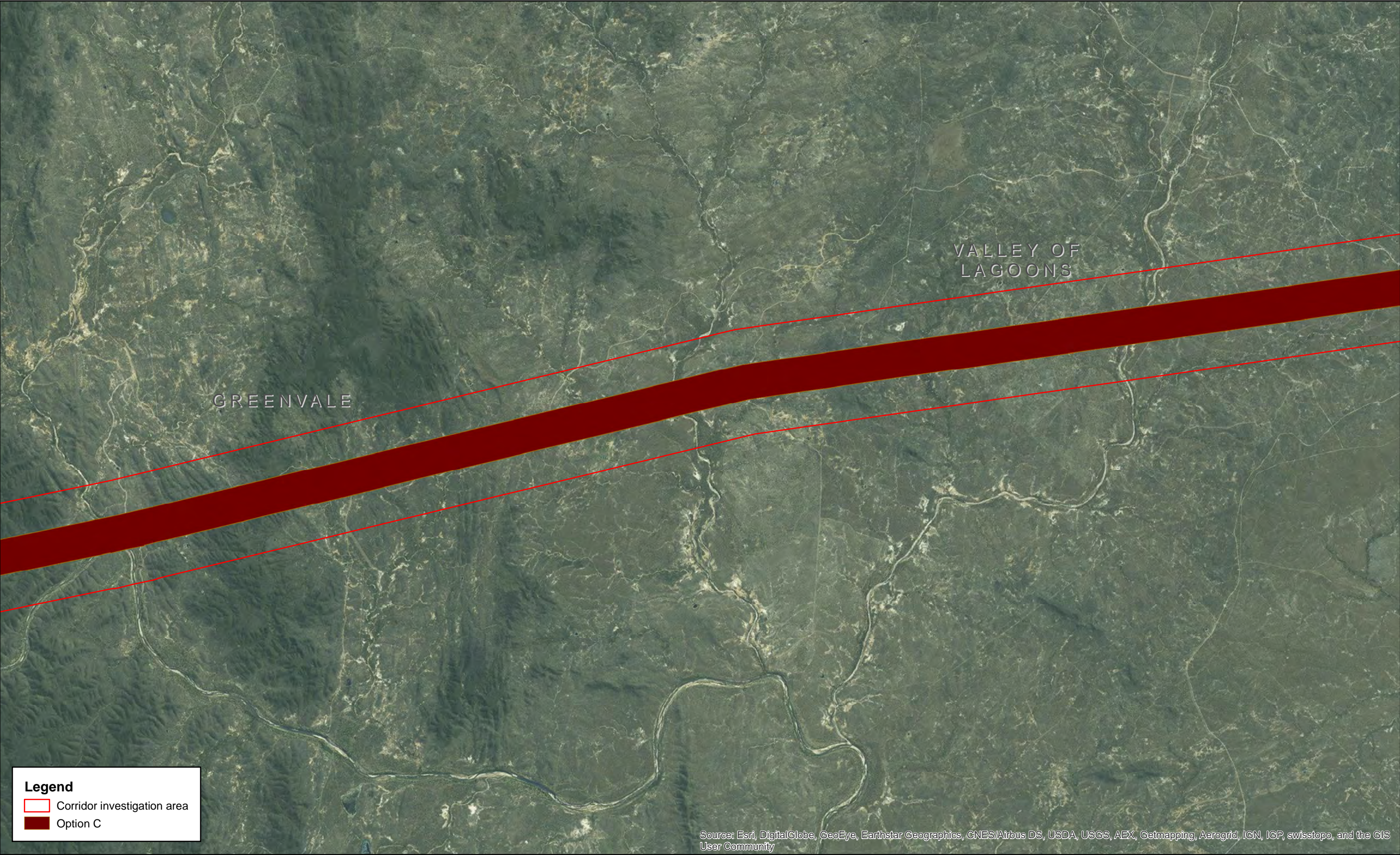
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Kidston Power Transmission Line
Figure 3.62
Protected areas, wildlife habitats and high ecological significance (HES) wetlands
Option C

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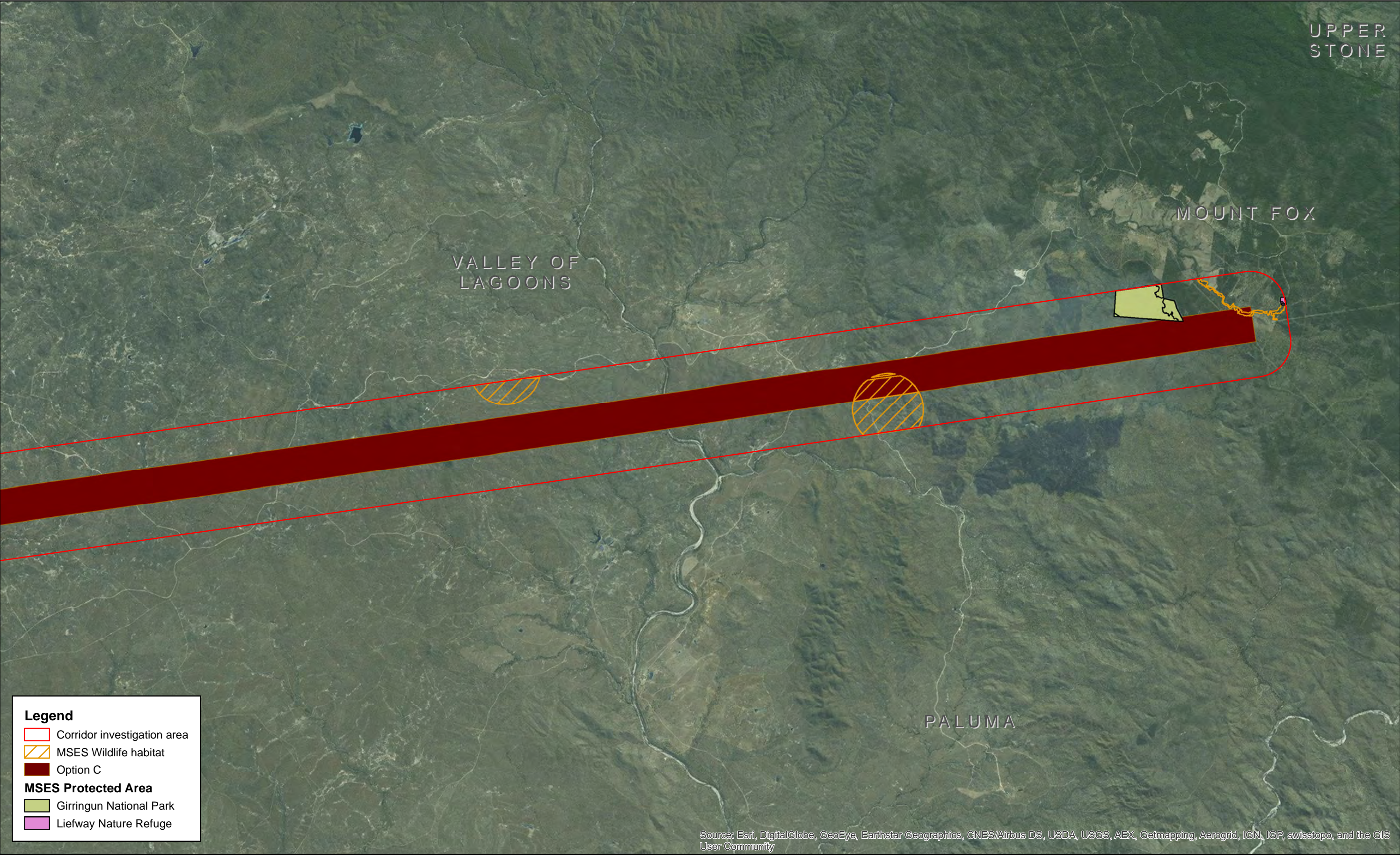
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Kidston Power Transmission Line
Figure 3.63
Protected areas, wildlife habitats and high ecological significance (HES) wetlands
Option C

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3.1.8 Wildlife habitats

All three corridor investigation areas intersect mapped wildlife habitats, as indicated on Figure 3.50–Figure 3.64. The amount (ha) protected areas associated with each corridor investigation area is presented in Table 3.10. The spreadsheet that contains the analysis of wildlife habitat is presented in Appendix G.

In reference to Table 3.10, Option C is of least constraint in terms of potential impacts upon MSES Wildlife Habitat.

Table 3.10 Amount (ha) of wildlife habitats associated with each corridor investigation area

| CORRIDOR | WILDLIFE HABITATS (HA) |
|----------|------------------------|
| Option A | 522 |
| Option B | 411 |
| Option C | 385 |

3.1.9 Strategic environmental areas

Strategic environmental areas are not relevant to any of the three corridor options.

3.1.10 High ecological significance (HES) wetlands

Of the three corridor investigation areas, only Option B intersects high ecological significance wetlands, as indicated on Figure 3.50–Figure 3.64. The area (ha) of high ecological significance wetlands associated with each corridor investigation area is presented in Table 3.11. The results of the analysis of HES wetlands is presented in Appendix G.

Table 3.11 Amount (ha) of HES wetlands associated with each corridor investigation area

| CORRIDOR | HIGH ECOLOGICAL SIGNIFICANCE WETLANDS (HA) |
|----------|--|
| Option A | 0 |
| Option B | 1.1 |
| Option C | 0 |

3.1.11 High ecological value waters (wetland)

High ecological value waters (wetland) are not relevant to any of the three corridor options.

3.1.12 High ecological value waters (watercourses)

High ecological value waters (watercourses) are not relevant to any of the three corridor options.

3.1.13 Environmental offset areas

Environmental offset areas are not relevant to any of the three corridor options.

3.1.14 Connectivity

Connectivity is assessed significant residual impacts under the Queensland Government's *Environmental Offsets Policy version 1.1* (2014), once a project footprint has been determined. This impact is assessed using GIS and the Queensland Government's *Landscape Fragmentation and Connectivity tool* for an individual impact area. Essentially, the assessment is based upon the level of fragmentation to remnant vegetation as a result of a project's impact area(s).

In reference to the amount of remnant vegetation that occurs within each corridor investigation area, all three corridor options would result in impacts to connectivity. On this basis once a preferred corridor option is selected and project impact area(s) are defined, the potential impact upon connectivity would need to be assessed using the Landscape Fragmentation and Connectivity tool.

3.2 Matters of National Environmental Significance

The following MNES have been assessed in the following sections:

- threatened species and migratory species
- threatened ecological communities
- heritage properties of international and national significance.

3.2.1 EPBC Act Protected Matters Search Tool results

The PMST database search results revealed the MNES of potential relevance to the corridor options, including one TEC, 33 threatened species and 15 migratory species. The search also identified world, national and indigenous heritage properties.

The results of the PMST database search for each corridor investigation area is presented in Table 3.12. The complete PMST reports for each corridor option are presented in Appendix A.

Table 3.12 PMST database search results for each corridor investigation area

| MNES | SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | OPTION A | OPTION B | OPTION C |
|---------------------------|--|-------------------------------|-----------------|---------------|----------|----------|----------|
| TECs | Broad leaf tea-tree (<i>Melaleuca viridiflora</i>) woodlands in high rainfall coastal north Queensland | | E | — | x | x | x |
| Total | | | | | 1 | 1 | 1 |
| Threatened species | | | | | | | |
| Birds | <i>Calidris ferruginea</i> | Curllew Sandpiper | CE (M) | SL | x | x | x |
| | <i>Casuaris casuaris johnsonii</i> | Southern Cassowary | E | E | x | x | x |
| | <i>Erythrotriorchis radiatus</i> | Red Goshawk | V | E | x | x | x |
| | <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | x | x | x |
| | <i>Numenius madagascariensis</i> | Eastern Curlew | CE | V | x | x | x |
| | <i>Poephila cincta cincta</i> | Southern Black-throated Finch | E | E | x | x | x |
| | <i>Rostratula australis</i> | Australian Painted Snipe | E | V | x | x | x |
| | <i>Tyto novaehollandiae kimberli</i> | Masked Owl (northern) | V | V | x | x | x |
| Frogs | <i>Litoria dayi</i> | Australian Lace-lid | E | E | x | x | x |
| | <i>Litoria nannotis</i> | Waterfall Frog | E | E | x | x | x |
| | <i>Litoria rheocola</i> | Common Mistfrog | E | E | x | x | x |

| MNES | SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | OPTION A | OPTION B | OPTION C |
|--------------------------------|--|--|-----------------|---------------|----------|----------|----------|
| Mammals | <i>Dasyurus hallucatus</i> | Northern Quoll | E | – | x | x | x |
| | <i>Dasyurus maculatus gracilis</i> | Spotted-tailed Quoll (north Queensland) | E | E | x | x | x |
| | <i>Hipposideros semoni</i> | Semon's Leaf-nosed Bat | E | E | x | x | x |
| | <i>Macroderma gigas</i> | Ghost Bat | V | V | x | x | x |
| | <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat (north Queensland) | V | - | x | x | x |
| | <i>Petauroides volans</i> | Greater Glider | V | - | x | x | x |
| | <i>Petrogale sharmani</i> | Sharman's Rock-wallaby | V | V | x | x | x |
| | <i>Phascolarctos cinereus</i> | Koala | V | V | x | x | x |
| | <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | V | x | x | x |
| | <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | - | x | x | x |
| | <i>Rhinolophus robertsi</i> | Large-eared Horseshoe Bat | E | E | x | x | x |
| | <i>Saccolaimus saccolaimus nudicluniatus</i> | Bare-rumped Sheath-tailed Bat | CE | E | x | x | x |
| Plants | <i>Acacia crombiei</i> | Pink Gidgee | V | V | x | x | x |
| | <i>Bulbophyllum globuliforme</i> | Miniature Moss-orchid | V | NT | x | x | x |
| | <i>Cajanus mareebensis</i> | – | E | E | x | x | x |
| | <i>Dichanthium setosum</i> | Bluegrass | V | - | x | x | x |
| | <i>Lindsaea pulchella var. blanda</i> | – | V | EX | x | x | x |
| | <i>Marsdenia brevifolia</i> | – | V | V | x | x | x |
| | <i>Phaius australis</i> | Lesser Swamp-orchid | E | E | x | x | x |
| | <i>Tephrosia leveillei</i> | – | V | V | x | x | x |
| Reptiles | <i>Egernia rugosa</i> | Yakka Skink | V | V | x | x | x |
| | <i>Lerista vittata</i> | Mount Cooper Striped Lerista | V | V | x | x | x |
| Migratory (marine) | <i>Apus pacificus</i> | Fork-tailed Swift | M | SL | x | x | x |
| Migratory (terrestrial) | <i>Cuculus optatus</i> | Oriental Cuckoo | M | SL | x | x | x |
| | <i>Hirundapus caudacutus</i> | White-throated Needletail | M | SL | x | x | x |

| MNES | SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | OPTION A | OPTION B | OPTION C |
|---|----------------------------------|---------------------|-----------------|---------------|-----------|-----------|-----------|
| | <i>Hirundo rustica</i> | Barn Swallow | M | SL | x | x | x |
| | <i>Monarcha melanopsis</i> | Black-faced Monarch | M | SL | x | x | x |
| | <i>Monarcha trivirgatus</i> | Spectacled Monarch | M | SL | x | x | x |
| | <i>Motacilla cinerea</i> | Grey Wagtail | M | SL | x | x | x |
| | <i>Motacilla flava</i> | Yellow Wagtail | M | SL | x | x | x |
| | <i>Myiagra cyanoleuca</i> | Satin Flycatcher | M | SL | x | x | x |
| | <i>Rhipidura rufifrons</i> | Rufous Fantail | M | SL | x | x | x |
| Migratory (wetland) | <i>Calidris ferruginea</i> | Curlew Sandpiper | M (CE) | SL | x | x | x |
| | <i>Gallinago hardwickii</i> | Latham's Snipe | M | SL | x | x | x |
| | <i>Numenius madagascariensis</i> | Eastern Curlew | M (CE) | SL | x | x | x |
| | <i>Pandion haliaetus</i> | Osprey | M | SL | x | x | x |
| | <i>Tringa nebularia</i> | Common Greenshank | M | SL | - | x | x |
| Totals | | | | | 47 | 48 | 48 |
| Other MNES | | | | | | | |
| World Heritage properties - Wet Tropics of Queensland | | | | | x | — | — |
| National Heritage properties (natural) - Wet Tropics of Queensland | | | | | x | — | — |
| National Heritage properties (indigenous) - Wet Tropics World Heritage Area (Indigenous Values) | | | | | x | — | — |

Key: EX = extinct in the wild, CE = critically endangered, E = endangered, V = vulnerable, NT = near threatened, M = migratory, SL = special least concern

3.2.2 EPBC Act threatened and migratory species records

The EPBC Act threatened and migratory species records obtained from DSITI's species profile search and Atlas of Living Australia that are of relevance to each corridor option have been quantified and mapped using GIS. The number of threatened and/or migratory species listed under the EPBC Act that have been previously recorded within each corridor investigation area is presented in Table 3.13 and mapped on Figure 3.1–Figure 3.3.

The results of the analysis of threatened species records is presented in Appendix F.

In reference to Table 3.13, Option A has the least number of EPBC Act threatened species records. However, as mentioned above, threatened species records are representative of the flora and fauna surveys that are undertaken in specific areas for developments or in association with protected areas. In respect to the remoteness of the corridor investigation areas, targeted surveys for the Project are likely to identify several threatened species that have not yet been recorded and formerly on the DSITI and ALA records databases.

Table 3.13 The number of EPBC Act listed species that have been previously recorded within each corridor investigation area

| EPBC ACT STATUS | OPTION A | OPTION B | OPTION C |
|---------------------------------|----------|----------|----------|
| Threatened flora species | | | |
| Critically endangered | – | – | – |
| Endangered | – | – | – |
| Vulnerable | 1 | 1 | 1 |
| Threatened fauna species | | | |
| Critically endangered | – | 1 | 1 |
| Endangered | 1 | 1 | 1 |
| Vulnerable | 1 | 2 | 2 |
| Migratory fauna species | | | |
| Migratory (marine) | – | 1 | – |
| Migratory (terrestrial) | – | – | – |
| Migratory (wetland) | – | – | – |
| Total records | 3 | 6 | 5 |

3.2.3 Threatened ecological communities

Broad Leaf Tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland is the only TEC that was revealed by the PMST as potentially occurring within corridor option investigation areas. A map of the predicted distribution of the Broad Leaf Tea-tree TEC is presented in Appendix H. The 'likely' and 'may' occur categories of the TEC's distribution is based upon Queensland Government regional ecosystem mapping. No other TECs were revealed by the PMST.

The likely to occur category has been assigned to the following regional ecosystems of the Wet Tropics and Central Mackay Coast Bioregions, including:

- 7.3.8a – Floodplain (other than floodplain wetlands). *Melaleuca viridiflora* open forest to open woodland. Includes areas of natural invasion onto former grasslands. Alluvial plains.
- 7.3.8b – Floodplain (other than floodplain wetlands). *Melaleuca viridiflora* open forest to open woodland with eucalypt emergents (or sparse eucalypt overstorey) of species such as *Corymbia clarksoniana*, *Eucalyptus platyphylla*, *Lophostemon suaveolens* and *E. drepanophylla*. Poorly drained alluvium, mostly on the coastal plains.
- 7.3.8c – Floodplain (other than floodplain wetlands). *Melaleuca viridiflora* and *Lophostemon suaveolens* open forest to woodland. Poorly drained soils of coastal lowlands.
- 7.3.8d – Floodplain (other than floodplain wetlands). *Melaleuca viridiflora*, *Lophostemon suaveolens* and *Allocasuarina littoralis* open shrubland. Poorly drained soils of coastal lowlands.
- 7.5.4g – Floodplain (other than floodplain wetlands). *Melaleuca viridiflora* woodland. Laterite.
- 8.3.2 – *Melaleuca viridiflora* woodland on seasonally inundated alluvial plains with impeded drainage
- 8.5.2a – *Melaleuca viridiflora* var. *viridiflora* open woodland to open forest (5–20 m tall). Poorly drained, duplex soils with a sandy surface.
- 8.5.2c – *Melaleuca viridiflora* var. *viridiflora* and *M. nervosa* open woodland to open forest. Occurs on Tertiary sand plains on gently undulating plains of lowlands, dissected by many incised streams.
- 8.5.6 – *Melaleuca viridiflora* +/- *Allocasuarina littoralis* woodland on Tertiary sand plains.

None of the above listed regional ecosystems occur in the three corridor investigation areas.

The Broad Leaf Tea-tree TEC may also occur category within regional ecosystems on Land Zones 3 and 5 of the Wet Tropics and Central Mackay Coast Bioregions. However, based upon the regional ecosystem mapping, it has been determined there is a low possibility of the Broad Leaf Tea-tree TEC occurring in the corridor investigation areas.

3.3 Wet Tropics of Queensland – World, National and Indigenous Heritage properties

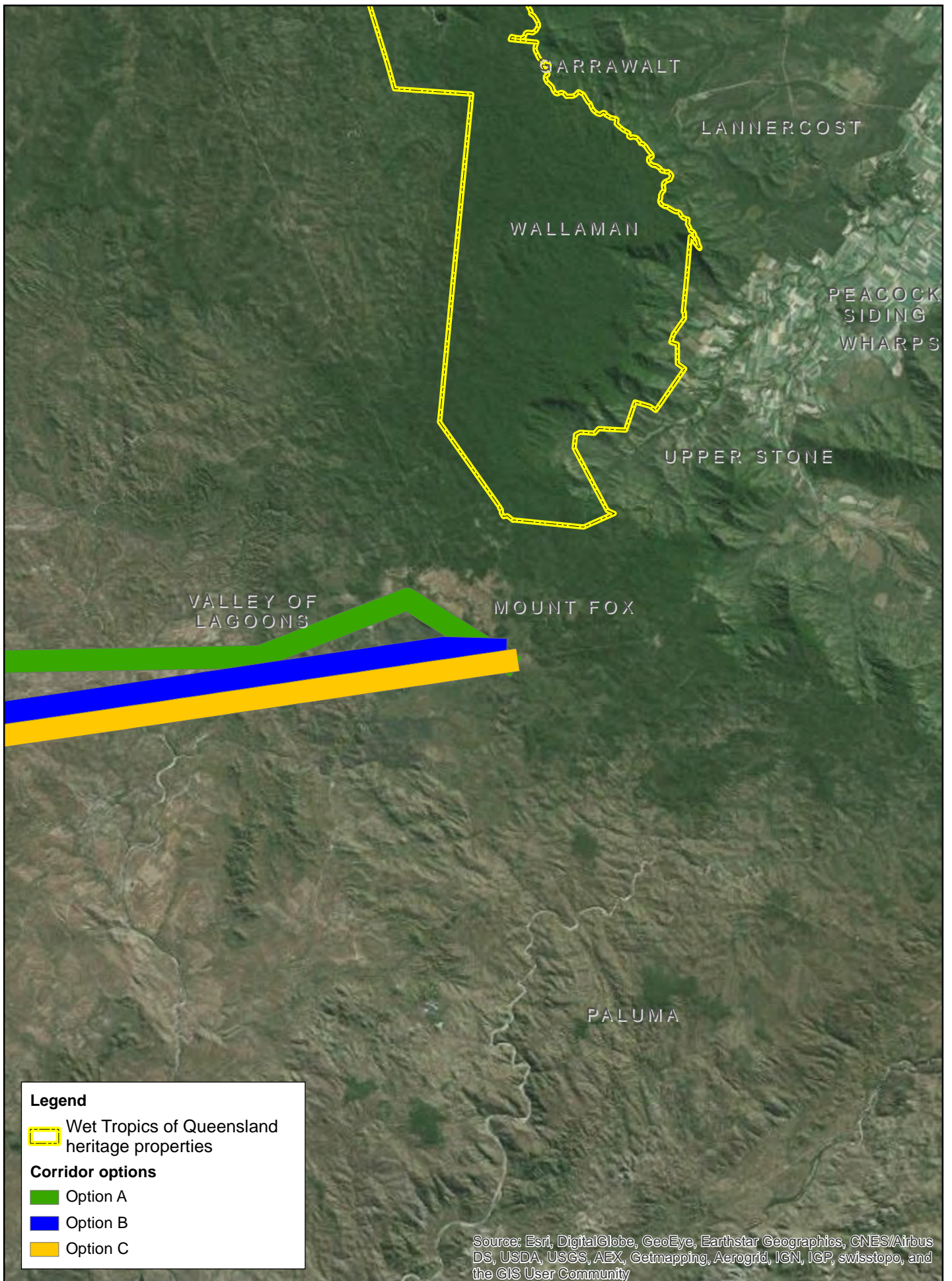
The Wet Tropics of Queensland World Heritage properties were inscribed on the World Heritage List in 1988. It was then included in the National Heritage List on 21 May 2007, as one of the one of 15 World Heritage places of Australia. On 9 November 2012 the Australian Government announced the inclusion of the national Indigenous heritage values, as part of the existing National Heritage Listing for the Wet Tropics of Queensland. A distribution map for the Wet Tropics of Queensland heritage properties, is presented in Appendix I.

None of corridor investigation areas intersect the Wet Tropics of Queensland heritage properties, as shown on Figure 3.65.

The distance of the Wet Tropics of Queensland heritage properties from each corridor investigation area is presented in Table 3.14. Based upon the distances from each corridor investigation area, the Project would be unlikely to indirectly impact the Wet Tropics of Queensland heritage properties. However this would need to be assessed in greater detail during the next phase of the Project.

Table 3.14 Distance of each corridor option from the Wet Tropics of Queensland heritage properties

| OPTION | DISTANCE FROM WET TROPICS OF QUEENSLAND HERITAGE PROPERTIES (KM) |
|----------|--|
| Option A | 4.8 |
| Option B | 5.2 |
| Option C | 5.6 |



4 PRELIMINARY ADVICE

4.1 Ecological constraints

The least amount of ecological constraints (MNES and MSES) are primarily associated with Option C, with Option B being the next preferred option with a moderate amount of ecological constraints, and Option A with the greatest amount of ecological constraints, as listed in Table 4.1.

Table 4.1 Summary of ecological constraint rankings for each corridor option

| ECOLOGICAL CONSTRAINT | CONSTRAINT RANKINGS | | |
|--|---------------------|----------|----------|
| | Option A | Option B | Option C |
| Matters of State Environmental Significance | | | |
| NC Act threatened species records (numbers) | 2 | 4 | 5 |
| Regulated of concern dominant vegetation (ha) | 2,059 | 1,819 | 1,519 |
| Regulated of concern sub-dominant vegetation (ha) | 1,008 | 442 | 334 |
| Regulated of high value regrowth vegetation (ha) | 3.6 | 2.4 | 2.4 |
| Regulated Category R regrowth vegetation (ha) | 422 | 296 | 257 |
| Mapped of concern dominant regional ecosystems (ha) | 1,008 | 442 | 334 |
| Mapped of concern dominant regional ecosystems (ha) | 2,059 | 1,891 | 1,519 |
| Predicted of concern dominant woody vegetation (ha) | 1,535 | 1,460 | 1,223 |
| Predicted of concern sub-dominant woody vegetation (ha) | 549 | 295 | 618 |
| Potential of concern dominant woody vegetation (ha) | 240 | 344 | 431 |
| Potential of concern sub-dominant woody vegetation (ha) | 364 | 87 | 37 |
| Regulated remnant watercourse Wet Tropics bioregion (ha) | 118 | 50 | 45 |
| Regulated remnant watercourse vegetation Einasleigh Uplands bioregion (ha) | 5,585 | 5,547 | 5,493 |
| Regulated remnant wetland vegetation (ha) | 4.7 | 42.3 | 27.7 |
| Protected areas (ha) | 658 | 214 | 145 |
| Wildlife habitats (ha) | 522 | 411 | 385 |
| High ecological significance (HES) wetlands (ha) | 0 | 1.1 | 0 |
| Matters of National Environmental Significance | | | |
| Threatened and migratory species records (numbers) | 3 | 6 | 5 |
| Proximity to Wet Tropics of Queensland heritage properties (km) | 4.8 | 5.2 | 5.6 |

Table 4.1 clearly indicates that Option C would result in the least amount of impact upon MNES and MSES and would be the corridor of least ecological constraint for the Project. It also clearly indicates that Option A has the greatest amount of ecological constraint, while Option B has a moderate amount of ecological constraint, which overall is not much greater than Option C.

4.2 Flora and fauna surveys

As part of the next phase of the Project, it would be necessary to undertake field surveys to verify the presence and extent of the ecological constraints outlined in Table 4.1.

Targeted flora and fauna surveys may identify ecological constraints that have not been identified by this desktop assessment. For example, the threatened species records are representative of the limited amount of ecological investigations that have been conducted across the relevant bioregions, in particular the Einasleigh Uplands bioregion. This reflects the remoteness of the corridor investigation areas where there is a low amount of large developments that require ecological investigations and environmental approvals. It is possible that targeted surveys for the Project may identify threatened species and supporting habitats that have not yet been recorded and formerly placed on the DSITI and ALA records databases.

4.3 Regional ecosystem verification

Vegetation surveys would be required for the Project to verify DNRM mapped regional ecosystems. It is often the case that DNRM regional ecosystem mapping can be inaccurate at a project scale. This is a function of both scale and availability of field verified vegetation survey data.

The remote sensing analysis of woody vegetation, completed by Virtual GIS, has used a similar methodology as that used by the Queensland Herbarium. It is useful in terms of identifying areas potentially containing of concern dominant and sub-dominant regional ecosystems. However, it too can be expected to have a certain amount of inaccuracy compared to what may be revealed by field verification surveys.

4.4 Significant impact assessments for MNES

Of the MNES assessed, threatened and/or migratory species are the only MNES of relevance to the three corridor options. On the other hand, MNES such as threatened ecological communities, world and national heritage properties, nationally important wetlands and the Great Barrier Reef, have been assessed as not being relevant to the three corridor options.

Under the requirements of the EPBC Act, significant impact assessments in accordance with the *Matters of National Environmental Significance: Significant impact guidelines 1.1* (2013), would need to be applied to MNES that are recorded or considered likely occurrences in areas that may be subject to project related impacts. These significant impact assessments may be required for the threatened species listed under the EPBC Act, for which records have been revealed by this assessment, including:

- Curlew Sandpiper (*Calidris ferruginea*) – Critically endangered
- White-throated Needletail (*Hirundapus caudacutus*) – Migratory (terrestrial)
- Greater Glider (*Petauroides volans*) – Vulnerable
- Sharman's Rock-wallaby (*Petrogale sharmani*) – Vulnerable
- Koala (*Phascolarctos cinereus*) – Vulnerable
- Southern Black-throated Finch (*Poephila cincta cincta*) – Endangered
- Bluegrass (*Dichanthium setosum*) – Vulnerable.

It is possible that field surveys may identify other MNES that may also require significant impacts assessments. It is recommended that significant impacts assessments be prepared in respect to predicted project impacts for the yet to be selected corridor option. The design process for the preferred option transmission line will consider opportunities to avoid or minimise impacts upon MNES. This would also be coupled with mitigation strategies to mitigate any potential impacts upon MNES, thus reducing the overall risk and extent (ha) of residual impacts upon the relevant MNES.

The outcomes of the significant impact assessments should identify whether the Project should referral is required for or not. The significant impact assessments would also identify any potential environmental offsets for the Project under the Department of the Environment and Energy's *EPBC Act Environmental Offsets Policy* (2012).

4.5 Queensland – Significant residual impact assessments for MSES

In accordance with Queensland Government's *Environmental Offsets Policy version 1.1* (2014), potential impacts upon MSES need to be applied in accordance with either the Department of Environment and Heritage Protection's *Significant Residual Impact Guideline* (2014), or the Department of Development, Infrastructure and Planning's *Significant Residual Impact Guideline* (2014), which would be dependent on the approval pathway for the Project. It is important to note that significant impact assessments for an MNES that is also an MSES are not required under the Queensland Government framework.

In reference to this assessment the MSES that are likely to require significant residual impact assessments, include:

- threatened species, including:
 - *Acacia tingoorensis* – Vulnerable
- regulated vegetation, including:
 - of concern regional ecosystems
 - of concern high value regrowth (to be confirmed as to why it is in the regulated vegetation layer)
 - category R regrowth vegetation (approval pathway dependant)
 - remnant watercourse vegetation
- protected areas
- wildlife habitats
- high ecological significance
- connectivity.

Depending on the outcomes of the significant residual impact assessments, some if not all of the above MSES, may require environmental offsets to compensate for project related residual impacts.

Once a preferred corridor option is selected and project impact area(s) are defined, the significant residual impact upon connectivity may also need to be assessed using the Landscape Fragmentation and Connectivity tool.

4.6 Summary

This initial desktop assessment and preliminary ecological constraints advice has identified Corridor Option C as containing the least amount of ecological constraints for the proposed power transmission line project.

This initial desktop assessment has identified the MNES and MSES that are of potential relevance to the Project and has provided an indication of the next steps that may be required for the Project if it is to proceed to the EIS or other approval pathway stage. Potential environmental offset commitments under Commonwealth and State environmental offset policies have also been identified.

Once a preferred corridor option is selected by the Corridor Options Report and predicted project related impacts are understood and tangible, it is recommended that Powerlink and/or Genex consider preparing significant impact assessments for MNES to determine whether an EPBC Act referral is required.

In addition, significant impact assessments (MNES) and significant residual impact assessments (MSES) should be instrumental in identifying the potential Commonwealth and State environmental offset requirements, and an approach to Commonwealth and State environmental offsets delivery.

Appendix A

PROTECTED MATTERS SEARCH TOOL



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 03/11/16 15:00:39

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[Extra Information](#)

[Caveat](#)

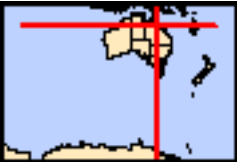
[Acknowledgements](#)



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[Coordinates](#)

[Buffer: 5.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

| | |
|---|------|
| World Heritage Properties: | 1 |
| National Heritage Places: | 2 |
| Wetlands of International Importance: | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 1 |
| Listed Threatened Species: | 33 |
| Listed Migratory Species: | 15 |

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

| | |
|--|------|
| Commonwealth Land: | None |
| Commonwealth Heritage Places: | None |
| Listed Marine Species: | 22 |
| Whales and Other Cetaceans: | None |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Commonwealth Reserves Marine: | None |

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

| | |
|--|------|
| State and Territory Reserves: | 4 |
| Regional Forest Agreements: | None |
| Invasive Species: | 22 |
| Nationally Important Wetlands: | 1 |
| Key Ecological Features (Marine) | None |

Details

Matters of National Environmental Significance

| World Heritage Properties | | [Resource Information] |
|---|-------|--------------------------|
| Name | State | Status |
| Wet Tropics of Queensland | QLD | Declared property |
| National Heritage Properties | | [Resource Information] |
| Name | State | Status |
| Natural | | |
| Wet Tropics of Queensland | QLD | Listed place |
| Indigenous | | |
| Wet Tropics World Heritage Area (Indigenous Values) | QLD | Within listed place |

| Listed Threatened Ecological Communities | [Resource Information] |
|--|--------------------------|
|--|--------------------------|

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

| Name | Status | Type of Presence |
|---|------------|---------------------------------|
| Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland | Endangered | Community may occur within area |

| Listed Threatened Species | [Resource Information] |
|---------------------------|--------------------------|
|---------------------------|--------------------------|

| Name | Status | Type of Presence |
|---|-----------------------|--|
| Birds | | |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986] | Endangered | Species or species habitat known to occur within area |
| Erythrotriorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat likely to occur within area |
| Erythrura gouldiae Gouldian Finch [413] | Endangered | Species or species habitat may occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
| Poephila cincta cincta Southern Black-throated Finch [64447] | Endangered | Species or species habitat known to occur within area |
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area |
| Tyto novaehollandiae kimberli Masked Owl (northern) [26048] | Vulnerable | Species or species habitat likely to occur within area |
| Frogs | | |

| Name | Status | Type of Presence |
|---|-----------------------|--|
| Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog [86707] | Endangered | Species or species habitat likely to occur within area |
| Litoria nannotis Waterfall Frog, Torrent Tree Frog [1817] | Endangered | Species or species habitat may occur within area |
| Litoria rheocola Common Mistfrog [1802] | Endangered | Species or species habitat likely to occur within area |
| Mammals | | |
| Dasyurus hallucatus Northern Quoll, Digul [331] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475] | Endangered | Species or species habitat likely to occur within area |
| Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180] | Endangered | Species or species habitat may occur within area |
| Macroderma gigas Ghost Bat [174] | Vulnerable | Species or species habitat likely to occur within area |
| Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620] | Vulnerable | Species or species habitat likely to occur within area |
| Petauroides volans Greater Glider [254] | Vulnerable | Species or species habitat known to occur within area |
| Petrogale sharmani Mount Claro Rock Wallaby, Sharman's Rock Wallaby [59281] | Vulnerable | Species or species habitat known to occur within area |
| Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104] | Vulnerable | Species or species habitat known to occur within area |
| Pteropus conspicillatus Spectacled Flying-fox [185] | Vulnerable | Species or species habitat known to occur within area |
| Pteropus poliocephalus Grey-headed Flying-fox [186] | Vulnerable | Foraging, feeding or related behaviour likely to occur within area |
| Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639] | Endangered | Species or species habitat likely to occur within area |
| Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889] | Critically Endangered | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia crombiei Pink Gidgee [10927] | Vulnerable | Species or species habitat may occur within area |
| Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649] | Vulnerable | Species or species habitat likely to occur within area |
| Cajanus mareebensis [8635] | Endangered | Species or species habitat likely to occur |

| Name | Status | Type of Presence |
|--|------------|--|
| within area | | |
| Dichanthium setosum bluegrass [14159] | Vulnerable | Species or species habitat likely to occur within area |
| Lindsaea pulchella var. blanda [20842] | Vulnerable | Extinct within area |
| Marsdenia brevifolia [64585] | Vulnerable | Species or species habitat likely to occur within area |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat likely to occur within area |
| Tephrosia leveillei [16946] | Vulnerable | Species or species habitat likely to occur within area |
| Reptiles | | |
| Egernia rugosa Yakka Skink [1420] | Vulnerable | Species or species habitat may occur within area |
| Lerista vittata Mount Cooper Striped Lerista [1308] | Vulnerable | Species or species habitat likely to occur within area |
| Listed Migratory Species | | [Resource Information] |
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Migratory Marine Birds | | |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Migratory Marine Species | | |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |
| Migratory Terrestrial Species | | |
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat known to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat likely to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Migratory Wetlands Species | | |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat likely to occur within area |

Other Matters Protected by the EPBC Act

| Listed Marine Species | | [Resource Information] |
|--|-----------------------|--|
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Birds | | |
| Anseranas semipalmata Magpie Goose [978] | | Species or species habitat may occur within area |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Ardea alba Great Egret, White Egret [59541] | | Species or species habitat likely to occur within area |
| Ardea ibis Cattle Egret [59542] | | Species or species habitat may occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Cuculus saturatus Oriental Cuckoo, Himalayan Cuckoo [710] | | Species or species habitat known to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species habitat likely to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat likely to occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat likely to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Rostratula benghalensis (sensu lato) Painted Snipe [889] | Endangered* | Species or species habitat likely to occur within area |
| Reptiles | | |
| Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773] | | Species or species habitat may occur within area |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |

Extra Information

| State and Territory Reserves | | [Resource Information] |
|------------------------------|--|--------------------------|
| Name | | State |
| Girringun | | QLD |
| Girringun | | QLD |
| Liefway | | QLD |
| Newcastle Range-The Oaks | | QLD |

Invasive Species[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

| Name | Status | Type of Presence |
|--|--------|--|
| Birds | | |
| Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803] | | Species or species habitat likely to occur within area |
| Lonchura punctulata Nutmeg Mannikin [399] | | Species or species habitat likely to occur within area |
| Passer domesticus House Sparrow [405] | | Species or species habitat likely to occur within area |
| Streptopelia chinensis Spotted Turtle-Dove [780] | | Species or species habitat likely to occur within area |
| Sturnus vulgaris Common Starling [389] | | Species or species habitat likely to occur within area |
| Frogs | | |
| Rhinella marina Cane Toad [83218] | | Species or species habitat likely to occur within area |
| Mammals | | |
| Bos taurus Domestic Cattle [16] | | Species or species habitat likely to occur within area |
| Canis lupus familiaris Domestic Dog [82654] | | Species or species habitat likely to occur within area |
| Equus caballus Horse [5] | | Species or species habitat likely to occur within area |
| Felis catus Cat, House Cat, Domestic Cat [19] | | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus Rabbit, European Rabbit [128] | | Species or species habitat likely to occur within area |
| Sus scrofa Pig [6] | | Species or species habitat likely to occur within area |
| Vulpes vulpes Red Fox, Fox [18] | | Species or species habitat likely to occur |

| Name | Status | Type of Presence within area |
|--|--------|--|
| Plants | | |
| Acacia nilotica subsp. indica Prickly Acacia [6196] | | Species or species habitat may occur within area |
| Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213] | | Species or species habitat may occur within area |
| Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] | | Species or species habitat likely to occur within area |
| Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] | | Species or species habitat likely to occur within area |
| Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] | | Species or species habitat likely to occur within area |
| Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] | | Species or species habitat likely to occur within area |
| Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] | | Species or species habitat likely to occur within area |
| Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566] | | Species or species habitat likely to occur within area |
| Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665] | | Species or species habitat likely to occur within area |

| Nationally Important Wetlands | | [Resource Information] |
|-------------------------------|--|--------------------------|
| Name | | State |
| Poison Lake | | QLD |

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

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Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Parks and Wildlife Commission NT, Northern Territory Government](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
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- [-Australian National Herbarium, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 03/11/16 14:49:40

[Summary](#)

[Details](#)

[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

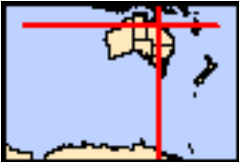
[Acknowledgements](#)



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[Coordinates](#)

[Buffer: 5.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

| | |
|---|------|
| World Heritage Properties: | None |
| National Heritage Places: | None |
| Wetlands of International Importance: | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 1 |
| Listed Threatened Species: | 33 |
| Listed Migratory Species: | 16 |

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

| | |
|--|------|
| Commonwealth Land: | None |
| Commonwealth Heritage Places: | None |
| Listed Marine Species: | 23 |
| Whales and Other Cetaceans: | None |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Commonwealth Reserves Marine: | None |

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

| | |
|--|------|
| State and Territory Reserves: | 4 |
| Regional Forest Agreements: | None |
| Invasive Species: | 22 |
| Nationally Important Wetlands: | None |
| Key Ecological Features (Marine) | None |

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

| Name | Status | Type of Presence |
|---|------------|---------------------------------|
| Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland | Endangered | Community may occur within area |

Listed Threatened Species

[Resource Information]

| Name | Status | Type of Presence |
|-------|--------|------------------|
| Birds | | |

| | | |
|---|-----------------------|--|
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
|---|-----------------------|--|

| | | |
|---|------------|---|
| Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986] | Endangered | Species or species habitat known to occur within area |
|---|------------|---|

| | | |
|--|------------|--|
| Erythrotriorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--|
| Erythrura gouldiae Gouldian Finch [413] | Endangered | Species or species habitat may occur within area |
|--|------------|--|

| | | |
|---|-----------------------|--|
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
|---|-----------------------|--|

| | | |
|---|------------|---|
| Poephila cincta cincta Southern Black-throated Finch [64447] | Endangered | Species or species habitat known to occur within area |
|---|------------|---|

| | | |
|--|------------|--|
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--|
| Tyto novaehollandiae kimberli Masked Owl (northern) [26048] | Vulnerable | Species or species habitat likely to occur within area |
|--|------------|--|

Frogs

| | | |
|--|------------|--|
| Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog [86707] | Endangered | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--|
| Litoria nannotis Waterfall Frog, Torrent Tree Frog [1817] | Endangered | Species or species habitat may occur within area |
|--|------------|--|

| Name | Status | Type of Presence |
|---|-----------------------|--|
| Litoria rheocola Common Mistfrog [1802] | Endangered | Species or species habitat likely to occur within area |
| Mammals | | |
| Dasyurus hallucatus Northern Quoll, Digul [331] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475] | Endangered | Species or species habitat likely to occur within area |
| Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180] | Endangered | Species or species habitat may occur within area |
| Macroderma gigas Ghost Bat [174] | Vulnerable | Species or species habitat likely to occur within area |
| Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620] | Vulnerable | Species or species habitat likely to occur within area |
| Petauroides volans Greater Glider [254] | Vulnerable | Species or species habitat known to occur within area |
| Petrogale sharmani Mount Claro Rock Wallaby, Sharman's Rock Wallaby [59281] | Vulnerable | Species or species habitat known to occur within area |
| Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104] | Vulnerable | Species or species habitat known to occur within area |
| Pteropus conspicillatus Spectacled Flying-fox [185] | Vulnerable | Species or species habitat known to occur within area |
| Pteropus poliocephalus Grey-headed Flying-fox [186] | Vulnerable | Foraging, feeding or related behaviour likely to occur within area |
| Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639] | Endangered | Species or species habitat known to occur within area |
| Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889] | Critically Endangered | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia crombiei Pink Gidgee [10927] | Vulnerable | Species or species habitat may occur within area |
| Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649] | Vulnerable | Species or species habitat may occur within area |
| Cajanus mareebensis [8635] | Endangered | Species or species habitat likely to occur within area |
| Dichanthium setosum bluegrass [14159] | Vulnerable | Species or species habitat likely to occur within area |
| Lindsaea pulchella var. blanda [20842] | Vulnerable | Extinct within area |

| Name | Status | Type of Presence |
|--|------------|--|
| Marsdenia brevifolia [64585] | Vulnerable | Species or species habitat likely to occur within area |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat likely to occur within area |
| Tephrosia leveillei [16946] | Vulnerable | Species or species habitat likely to occur within area |
| Reptiles | | |
| Egernia rugosa Yakka Skink [1420] | Vulnerable | Species or species habitat may occur within area |
| Lerista vittata Mount Cooper Striped Lerista [1308] | Vulnerable | Species or species habitat likely to occur within area |
| Listed Migratory Species | | [Resource Information] |
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Migratory Marine Birds | | |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Migratory Marine Species | | |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |
| Migratory Terrestrial Species | | |
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat known to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat likely to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Migratory Wetlands Species | | |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | | Species or species habitat may occur within area |
| Pandion haliaetus Osprey [952] | Critically Endangered | Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |

Other Matters Protected by the EPBC Act

| Listed Marine Species | | [Resource Information] |
|--|-----------------------|--|
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Birds | | |
| Anseranas semipalmata Magpie Goose [978] | | Species or species habitat may occur within area |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Ardea alba Great Egret, White Egret [59541] | | Species or species habitat likely to occur within area |
| Ardea ibis Cattle Egret [59542] | | Species or species habitat may occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Cuculus saturatus Oriental Cuckoo, Himalayan Cuckoo [710] | | Species or species habitat known to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species habitat likely to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat likely to occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat likely to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Rostratula benghalensis (sensu lato) Painted Snipe [889] | Endangered* | Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |
| Reptiles | | |
| Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773] | | Species or species habitat may occur within area |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |

Extra Information

| State and Territory Reserves | [Resource Information] |
|------------------------------|--------------------------|
| Name | State |
| Girringun | QLD |
| Girringun | QLD |
| Liefway | QLD |
| Newcastle Range-The Oaks | QLD |

Invasive Species[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

| Name | Status | Type of Presence |
|--|--------|--|
| Birds | | |
| Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803] | | Species or species habitat likely to occur within area |
| Lonchura punctulata Nutmeg Mannikin [399] | | Species or species habitat likely to occur within area |
| Passer domesticus House Sparrow [405] | | Species or species habitat likely to occur within area |
| Streptopelia chinensis Spotted Turtle-Dove [780] | | Species or species habitat likely to occur within area |
| Sturnus vulgaris Common Starling [389] | | Species or species habitat likely to occur within area |
| Frogs | | |
| Rhinella marina Cane Toad [83218] | | Species or species habitat likely to occur within area |
| Mammals | | |
| Bos taurus Domestic Cattle [16] | | Species or species habitat likely to occur within area |
| Canis lupus familiaris Domestic Dog [82654] | | Species or species habitat likely to occur within area |
| Equus caballus Horse [5] | | Species or species habitat likely to occur within area |
| Felis catus Cat, House Cat, Domestic Cat [19] | | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus Rabbit, European Rabbit [128] | | Species or species habitat likely to occur within area |
| Sus scrofa Pig [6] | | Species or species habitat likely to occur within area |
| Vulpes vulpes Red Fox, Fox [18] | | Species or species habitat likely to occur |

| Name | Status | Type of Presence within area |
|--|--------|--|
| Plants | | |
| Acacia nilotica subsp. indica Prickly Acacia [6196] | | Species or species habitat may occur within area |
| Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213] | | Species or species habitat may occur within area |
| Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] | | Species or species habitat likely to occur within area |
| Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] | | Species or species habitat likely to occur within area |
| Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] | | Species or species habitat likely to occur within area |
| Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] | | Species or species habitat likely to occur within area |
| Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] | | Species or species habitat likely to occur within area |
| Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566] | | Species or species habitat likely to occur within area |
| Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665] | | Species or species habitat likely to occur within area |

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-18.86881 144.1404,-18.87182 144.1493,-18.88552 144.1442,-18.90528 144.135,-18.90088 144.1741,-18.91404 144.2424,-18.91248 144.3214,-18.91836 144.4187,-18.92536 144.4383,-18.91716 144.5062,-18.92587 144.5706,-18.93387 145.1068,-18.93238 145.1076,-18.93392 145.1109,-18.93397 145.1146,-18.93562 145.1145,-18.93891 145.1216,-18.94026 145.1316,-18.89548 145.3447,-18.83593 145.8018,-18.83678 145.8294,-18.84581 145.829,-18.84493 145.8027,-18.90435 145.3466,-18.94928 145.1325,-18.94931 145.131,-18.94822 145.123,-18.94932 145.1224,-18.94765 145.1188,-18.94711 145.1149,-18.9459 145.115,-18.94293 145.1086,-18.93488 144.5699,-18.92623 144.5058,-18.93412 144.4412,-18.9358 144.4405,-18.9346 144.4372,-18.93504 144.4336,-18.93326 144.4334,-18.9272 144.4169,-18.92151 144.3212,-18.92307 144.2417,-18.90989 144.1736,-18.91516 144.1285,-18.91343 144.1241,-18.86881 144.1404

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Parks and Wildlife Commission NT, Northern Territory Government](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.



EPBC Act Protected Matters Report

This report provides general guidance on matters of national environmental significance and other matters protected by the EPBC Act in the area you have selected.

Information on the coverage of this report and qualifications on data supporting this report are contained in the caveat at the end of the report.

Information is available about [Environment Assessments](#) and the EPBC Act including significance guidelines, forms and application process details.

Report created: 03/11/16 14:58:24

[Summary](#)

[Details](#)

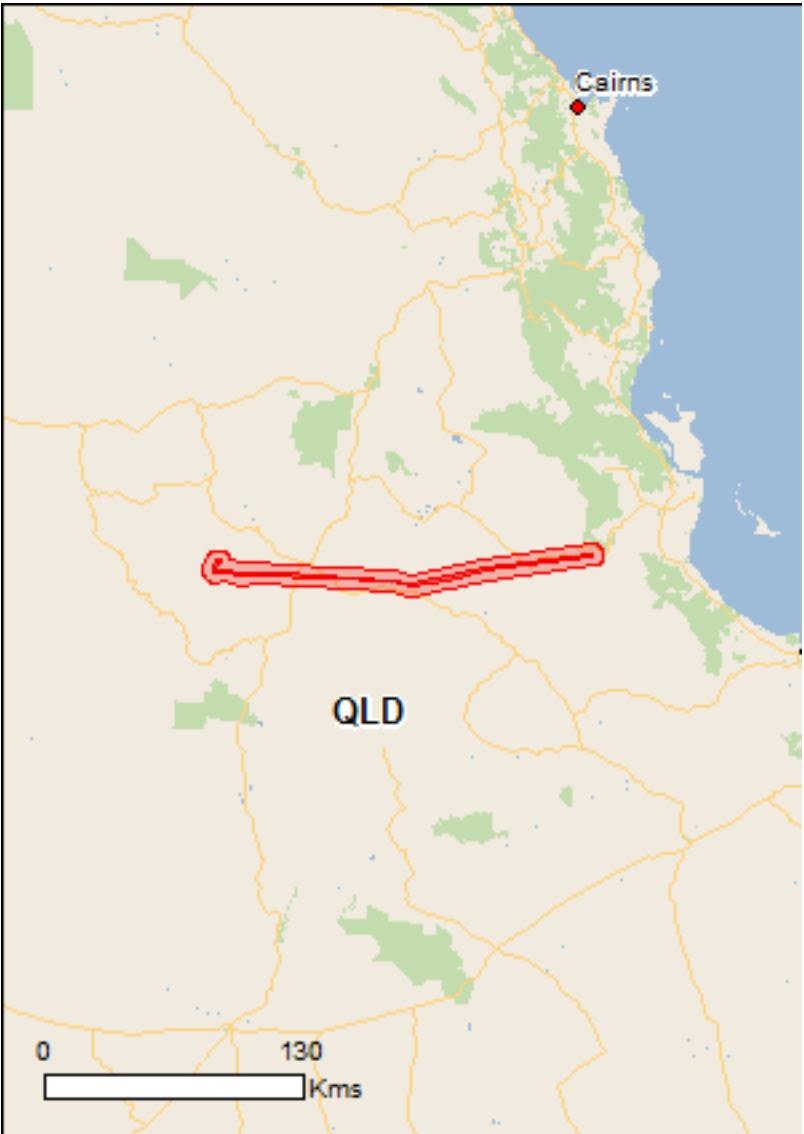
[Matters of NES](#)

[Other Matters Protected by the EPBC Act](#)

[Extra Information](#)

[Caveat](#)

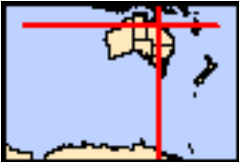
[Acknowledgements](#)



This map may contain data which are
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[Coordinates](#)

[Buffer: 5.0Km](#)



Summary

Matters of National Environmental Significance

This part of the report summarises the matters of national environmental significance that may occur in, or may relate to, the area you nominated. Further information is available in the detail part of the report, which can be accessed by scrolling or following the links below. If you are proposing to undertake an activity that may have a significant impact on one or more matters of national environmental significance then you should consider the [Administrative Guidelines on Significance](#).

| | |
|---|------|
| World Heritage Properties: | None |
| National Heritage Places: | None |
| Wetlands of International Importance: | None |
| Great Barrier Reef Marine Park: | None |
| Commonwealth Marine Area: | None |
| Listed Threatened Ecological Communities: | 1 |
| Listed Threatened Species: | 33 |
| Listed Migratory Species: | 16 |

Other Matters Protected by the EPBC Act

This part of the report summarises other matters protected under the Act that may relate to the area you nominated. Approval may be required for a proposed activity that significantly affects the environment on Commonwealth land, when the action is outside the Commonwealth land, or the environment anywhere when the action is taken on Commonwealth land. Approval may also be required for the Commonwealth or Commonwealth agencies proposing to take an action that is likely to have a significant impact on the environment anywhere.

The EPBC Act protects the environment on Commonwealth land, the environment from the actions taken on Commonwealth land, and the environment from actions taken by Commonwealth agencies. As heritage values of a place are part of the 'environment', these aspects of the EPBC Act protect the Commonwealth Heritage values of a Commonwealth Heritage place. Information on the new heritage laws can be found at <http://www.environment.gov.au/heritage>

A [permit](#) may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

| | |
|--|------|
| Commonwealth Land: | None |
| Commonwealth Heritage Places: | None |
| Listed Marine Species: | 23 |
| Whales and Other Cetaceans: | None |
| Critical Habitats: | None |
| Commonwealth Reserves Terrestrial: | None |
| Commonwealth Reserves Marine: | None |

Extra Information

This part of the report provides information that may also be relevant to the area you have nominated.

| | |
|--|------|
| State and Territory Reserves: | 4 |
| Regional Forest Agreements: | None |
| Invasive Species: | 24 |
| Nationally Important Wetlands: | None |
| Key Ecological Features (Marine) | None |

Details

Matters of National Environmental Significance

Listed Threatened Ecological Communities

[Resource Information]

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

| Name | Status | Type of Presence |
|---|------------|---------------------------------|
| Broad leaf tea-tree (Melaleuca viridiflora) woodlands in high rainfall coastal north Queensland | Endangered | Community may occur within area |

Listed Threatened Species

[Resource Information]

| Name | Status | Type of Presence |
|-------|--------|------------------|
| Birds | | |

| | | |
|---|-----------------------|--|
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
|---|-----------------------|--|

| | | |
|---|------------|---|
| Casuarius casuarius johnsonii Southern Cassowary, Australian Cassowary, Double-wattled Cassowary [25986] | Endangered | Species or species habitat known to occur within area |
|---|------------|---|

| | | |
|--|------------|--|
| Erythrotriorchis radiatus Red Goshawk [942] | Vulnerable | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--|
| Erythrura gouldiae Gouldian Finch [413] | Endangered | Species or species habitat may occur within area |
|--|------------|--|

| | | |
|---|-----------------------|--|
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
|---|-----------------------|--|

| | | |
|---|------------|---|
| Poephila cincta cincta Southern Black-throated Finch [64447] | Endangered | Species or species habitat known to occur within area |
|---|------------|---|

| | | |
|--|------------|--|
| Rostratula australis Australian Painted Snipe [77037] | Endangered | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--|
| Tyto novaehollandiae kimberli Masked Owl (northern) [26048] | Vulnerable | Species or species habitat likely to occur within area |
|--|------------|--|

Frogs

| | | |
|--|------------|--|
| Litoria dayi Australian Lace-lid, Lace-eyed Tree Frog [86707] | Endangered | Species or species habitat likely to occur within area |
|--|------------|--|

| | | |
|--|------------|--|
| Litoria nannotis Waterfall Frog, Torrent Tree Frog [1817] | Endangered | Species or species habitat may occur within area |
|--|------------|--|

| Name | Status | Type of Presence |
|---|-----------------------|--|
| Litoria rheocola Common Mistfrog [1802] | Endangered | Species or species habitat likely to occur within area |
| Mammals | | |
| Dasyurus hallucatus Northern Quoll, Digul [331] | Endangered | Species or species habitat likely to occur within area |
| Dasyurus maculatus gracilis Spotted-tailed Quoll (North Queensland), Yarri [64475] | Endangered | Species or species habitat likely to occur within area |
| Hipposideros semoni Semon's Leaf-nosed Bat, Greater Wart-nosed Horseshoe-bat [180] | Endangered | Species or species habitat may occur within area |
| Macroderma gigas Ghost Bat [174] | Vulnerable | Species or species habitat likely to occur within area |
| Mesembriomys gouldii rattoides Black-footed Tree-rat (north Queensland), Shaggy Rabbit-rat [87620] | Vulnerable | Species or species habitat likely to occur within area |
| Petauroides volans Greater Glider [254] | Vulnerable | Species or species habitat known to occur within area |
| Petrogale sharmani Mount Claro Rock Wallaby, Sharman's Rock Wallaby [59281] | Vulnerable | Species or species habitat known to occur within area |
| Phascolarctos cinereus (combined populations of Qld, NSW and the ACT) Koala (combined populations of Queensland, New South Wales and the Australian Capital Territory) [85104] | Vulnerable | Species or species habitat known to occur within area |
| Pteropus conspicillatus Spectacled Flying-fox [185] | Vulnerable | Species or species habitat known to occur within area |
| Pteropus poliocephalus Grey-headed Flying-fox [186] | Vulnerable | Foraging, feeding or related behaviour likely to occur within area |
| Rhinolophus robertsi Large-eared Horseshoe Bat, Greater Large-eared Horseshoe Bat [87639] | Endangered | Species or species habitat known to occur within area |
| Saccolaimus saccolaimus nudicluniatus Bare-rumped Sheath-tailed Bat, Bare-rumped Sheathtail Bat [66889] | Critically Endangered | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia crombiei Pink Gidgee [10927] | Vulnerable | Species or species habitat may occur within area |
| Bulbophyllum globuliforme Miniature Moss-orchid, Hoop Pine Orchid [6649] | Vulnerable | Species or species habitat may occur within area |
| Cajanus mareebensis [8635] | Endangered | Species or species habitat likely to occur within area |
| Dichanthium setosum bluegrass [14159] | Vulnerable | Species or species habitat likely to occur within area |
| Lindsaea pulchella var. blanda [20842] | Vulnerable | Extinct within area |

| Name | Status | Type of Presence |
|--|------------|--|
| Marsdenia brevifolia [64585] | Vulnerable | Species or species habitat likely to occur within area |
| Phaius australis Lesser Swamp-orchid [5872] | Endangered | Species or species habitat likely to occur within area |
| Tephrosia leveillei [16946] | Vulnerable | Species or species habitat likely to occur within area |
| Reptiles | | |
| Egernia rugosa Yakka Skink [1420] | Vulnerable | Species or species habitat may occur within area |
| Lerista vittata Mount Cooper Striped Lerista [1308] | Vulnerable | Species or species habitat likely to occur within area |
| Listed Migratory Species | | [Resource Information] |
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Migratory Marine Birds | | |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Migratory Marine Species | | |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |
| Migratory Terrestrial Species | | |
| Cuculus optatus Oriental Cuckoo, Horsfield's Cuckoo [86651] | | Species or species habitat known to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat likely to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Migratory Wetlands Species | | |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | | Species or species habitat may occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |

Other Matters Protected by the EPBC Act

| Listed Marine Species | | [<u>Resource Information</u>] |
|--|-----------------------|--|
| * Species is listed under a different scientific name on the EPBC Act - Threatened Species list. | | |
| Name | Threatened | Type of Presence |
| Birds | | |
| Anseranas semipalmata Magpie Goose [978] | | Species or species habitat may occur within area |
| Apus pacificus Fork-tailed Swift [678] | | Species or species habitat likely to occur within area |
| Ardea alba Great Egret, White Egret [59541] | | Species or species habitat likely to occur within area |
| Ardea ibis Cattle Egret [59542] | | Species or species habitat may occur within area |
| Calidris ferruginea Curlew Sandpiper [856] | Critically Endangered | Species or species habitat may occur within area |
| Cuculus saturatus Oriental Cuckoo, Himalayan Cuckoo [710] | | Species or species habitat known to occur within area |
| Gallinago hardwickii Latham's Snipe, Japanese Snipe [863] | | Species or species habitat may occur within area |
| Haliaeetus leucogaster White-bellied Sea-Eagle [943] | | Species or species habitat likely to occur within area |
| Hirundapus caudacutus White-throated Needletail [682] | | Species or species habitat may occur within area |
| Hirundo rustica Barn Swallow [662] | | Species or species habitat may occur within area |

| Name | Threatened | Type of Presence |
|---|-----------------------|--|
| Merops ornatus Rainbow Bee-eater [670] | | Species or species habitat may occur within area |
| Monarcha melanopsis Black-faced Monarch [609] | | Species or species habitat known to occur within area |
| Monarcha trivirgatus Spectacled Monarch [610] | | Species or species habitat known to occur within area |
| Motacilla cinerea Grey Wagtail [642] | | Species or species habitat may occur within area |
| Motacilla flava Yellow Wagtail [644] | | Species or species habitat likely to occur within area |
| Myiagra cyanoleuca Satin Flycatcher [612] | | Species or species habitat likely to occur within area |
| Numenius madagascariensis Eastern Curlew, Far Eastern Curlew [847] | Critically Endangered | Species or species habitat may occur within area |
| Pandion haliaetus Osprey [952] | | Species or species habitat likely to occur within area |
| Rhipidura rufifrons Rufous Fantail [592] | | Species or species habitat known to occur within area |
| Rostratula benghalensis (sensu lato) Painted Snipe [889] | Endangered* | Species or species habitat likely to occur within area |
| Tringa nebularia Common Greenshank, Greenshank [832] | | Species or species habitat may occur within area |
| Reptiles | | |
| Crocodylus johnstoni Freshwater Crocodile, Johnston's Crocodile, Johnston's River Crocodile [1773] | | Species or species habitat may occur within area |
| Crocodylus porosus Salt-water Crocodile, Estuarine Crocodile [1774] | | Species or species habitat likely to occur within area |

Extra Information

| State and Territory Reserves | | [Resource Information] |
|------------------------------|--|--------------------------|
| Name | | State |
| Girringun | | QLD |
| Girringun | | QLD |
| Liefway | | QLD |
| Newcastle Range-The Oaks | | QLD |

Invasive Species[Resource Information]

Weeds reported here are the 20 species of national significance (WoNS), along with other introduced plants that are considered by the States and Territories to pose a particularly significant threat to biodiversity. The following feral animals are reported: Goat, Red Fox, Cat, Rabbit, Pig, Water Buffalo and Cane Toad. Maps from Landscape Health Project, National Land and Water Resouces Audit, 2001.

| Name | Status | Type of Presence |
|--|--------|--|
| Birds | | |
| Columba livia Rock Pigeon, Rock Dove, Domestic Pigeon [803] | | Species or species habitat likely to occur within area |
| Lonchura punctulata Nutmeg Mannikin [399] | | Species or species habitat likely to occur within area |
| Passer domesticus House Sparrow [405] | | Species or species habitat likely to occur within area |
| Streptopelia chinensis Spotted Turtle-Dove [780] | | Species or species habitat likely to occur within area |
| Sturnus vulgaris Common Starling [389] | | Species or species habitat likely to occur within area |
| Frogs | | |
| Rhinella marina Cane Toad [83218] | | Species or species habitat likely to occur within area |
| Mammals | | |
| Bos taurus Domestic Cattle [16] | | Species or species habitat likely to occur within area |
| Canis lupus familiaris Domestic Dog [82654] | | Species or species habitat likely to occur within area |
| Equus caballus Horse [5] | | Species or species habitat likely to occur within area |
| Felis catus Cat, House Cat, Domestic Cat [19] | | Species or species habitat likely to occur within area |
| Feral deer Feral deer species in Australia [85733] | | Species or species habitat likely to occur within area |
| Oryctolagus cuniculus Rabbit, European Rabbit [128] | | Species or species habitat likely to occur within area |
| Rattus rattus Black Rat, Ship Rat [84] | | Species or species habitat likely to occur |

| Name | Status | Type of Presence |
|--|--------|--|
| | | within area |
| Sus scrofa Pig [6] | | Species or species habitat likely to occur within area |
| Vulpes vulpes Red Fox, Fox [18] | | Species or species habitat likely to occur within area |
| Plants | | |
| Acacia nilotica subsp. indica Prickly Acacia [6196] | | Species or species habitat may occur within area |
| Cenchrus ciliaris Buffel-grass, Black Buffel-grass [20213] | | Species or species habitat may occur within area |
| Cryptostegia grandiflora Rubber Vine, Rubbervine, India Rubber Vine, India Rubbervine, Palay Rubbervine, Purple Allamanda [18913] | | Species or species habitat likely to occur within area |
| Hymenachne amplexicaulis Hymenachne, Olive Hymenachne, Water Stargrass, West Indian Grass, West Indian Marsh Grass [31754] | | Species or species habitat likely to occur within area |
| Jatropha gossypifolia Cotton-leaved Physic-Nut, Bellyache Bush, Cotton-leaf Physic Nut, Cotton-leaf Jatropha, Black Physic Nut [7507] | | Species or species habitat likely to occur within area |
| Lantana camara Lantana, Common Lantana, Kamara Lantana, Large-leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892] | | Species or species habitat likely to occur within area |
| Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301] | | Species or species habitat likely to occur within area |
| Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566] | | Species or species habitat likely to occur within area |
| Salvinia molesta Salvinia, Giant Salvinia, Aquarium Watermoss, Kariba Weed [13665] | | Species or species habitat likely to occur within area |

Caveat

The information presented in this report has been provided by a range of data sources as acknowledged at the end of the report.

This report is designed to assist in identifying the locations of places which may be relevant in determining obligations under the Environment Protection and Biodiversity Conservation Act 1999. It holds mapped locations of World and National Heritage properties, Wetlands of International and National Importance, Commonwealth and State/Territory reserves, listed threatened, migratory and marine species and listed threatened ecological communities. Mapping of Commonwealth land is not complete at this stage. Maps have been collated from a range of sources at various resolutions.

Not all species listed under the EPBC Act have been mapped (see below) and therefore a report is a general guide only. Where available data supports mapping, the type of presence that can be determined from the data is indicated in general terms. People using this information in making a referral may need to consider the qualifications below and may need to seek and consider other information sources.

For threatened ecological communities where the distribution is well known, maps are derived from recovery plans, State vegetation maps, remote sensing imagery and other sources. Where threatened ecological community distributions are less well known, existing vegetation maps and point location data are used to produce indicative distribution maps.

For species where the distributions are well known, maps are digitised from sources such as recovery plans and detailed habitat studies. Where appropriate, core breeding, foraging and roosting areas are indicated under 'type of presence'. For species whose distributions are less well known, point locations are collated from government wildlife authorities, museums, and non-government organisations; bioclimatic distribution models are generated and these validated by experts. In some cases, the distribution maps are based solely on expert knowledge.

Only selected species covered by the following provisions of the EPBC Act have been mapped:

- migratory and
- marine

The following species and ecological communities have not been mapped and do not appear in reports produced from this database:

- threatened species listed as extinct or considered as vagrants
- some species and ecological communities that have only recently been listed
- some terrestrial species that overfly the Commonwealth marine area
- migratory species that are very widespread, vagrant, or only occur in small numbers

The following groups have been mapped, but may not cover the complete distribution of the species:

- non-threatened seabirds which have only been mapped for recorded breeding sites
- seals which have only been mapped for breeding sites near the Australian continent

Such breeding sites may be important for the protection of the Commonwealth Marine environment.

Coordinates

-18.87006 144.148,-18.8791 144.148,-18.87909 144.1369,-18.90823 144.1233,-18.91321 144.1231,-18.91545 144.1259,-18.90989 144.1736,-18.92307 144.2417,-18.92151 144.3212,-18.92745 144.4211,-18.92693 144.4254,-18.92767 144.4255,-18.95179 144.9292,-18.97166 145.0154,-18.90435 145.3466,-18.84082 145.8332,-18.84976 145.8346,-18.91328 145.348,-18.95105 145.1765,-18.98079 145.0149,-18.96079 144.9283,-18.93055 144.3214,-18.93213 144.2409,-18.91898 144.1732,-18.9246 144.1236,-18.91696 144.1138,-18.90601 144.114,-18.87068 144.1314,-18.87006 144.148

Acknowledgements

This database has been compiled from a range of data sources. The department acknowledges the following custodians who have contributed valuable data and advice:

- [-Office of Environment and Heritage, New South Wales](#)
- [-Department of Environment and Primary Industries, Victoria](#)
- [-Department of Primary Industries, Parks, Water and Environment, Tasmania](#)
- [-Department of Environment, Water and Natural Resources, South Australia](#)
- [-Parks and Wildlife Commission NT, Northern Territory Government](#)
- [-Department of Environmental and Heritage Protection, Queensland](#)
- [-Department of Parks and Wildlife, Western Australia](#)
- [-Environment and Planning Directorate, ACT](#)
- [-Birdlife Australia](#)
- [-Australian Bird and Bat Banding Scheme](#)
- [-Australian National Wildlife Collection](#)
- Natural history museums of Australia
- [-Museum Victoria](#)
- [-Australian Museum](#)
- [-South Australian Museum](#)
- [-Queensland Museum](#)
- [-Online Zoological Collections of Australian Museums](#)
- [-Queensland Herbarium](#)
- [-National Herbarium of NSW](#)
- [-Royal Botanic Gardens and National Herbarium of Victoria](#)
- [-Tasmanian Herbarium](#)
- [-State Herbarium of South Australia](#)
- [-Northern Territory Herbarium](#)
- [-Western Australian Herbarium](#)
- [-Australian National Herbarium, Atherton and Canberra](#)
- [-University of New England](#)
- [-Ocean Biogeographic Information System](#)
- [-Australian Government, Department of Defence](#)
- [Forestry Corporation, NSW](#)
- [-Geoscience Australia](#)
- [-CSIRO](#)
- Other groups and individuals

The Department is extremely grateful to the many organisations and individuals who provided expert advice and information on numerous draft distributions.

Please feel free to provide feedback via the [Contact Us](#) page.

Appendix B

PROTECTED MATTERS SEARCH TOOL – OPTIONS COLLATED

PMST results for each Corridor Option

| MNES Category | Scientific name | Common name | Status | Option A | Option B | Option C |
|--|--|--|------------------|----------|----------|----------|
| TECs | Broad leaf tea-tree (<i>Melaleuca viridiflora</i>) woodlands in high rainfall coastal north Queensland | | E | x | x | x |
| Threatened species | | | | | | |
| Birds | <i>Calidris ferruginea</i> | Curlew Sandpiper | CE (M) | x | x | x |
| | <i>Casuarius casuarius johnsonii</i> | Southern Cassowary | E | x | x | x |
| | <i>Erythrotriorchis radiatus</i> | Red Goshawk | V | x | x | x |
| | <i>Erythrura gouldiae</i> | Gouldian Finch | E | x | x | x |
| | <i>Numenius madagascariensis</i> | Eastern Curlew | CE | x | x | x |
| | <i>Poephila cincta cincta</i> | Southern Black-throated Finch | E | x | x | x |
| | <i>Rostratula australis</i> | Australian Painted Snipe | E | x | x | x |
| | <i>Tyto novaehollandiae kimberli</i> | Masked Owl (northern) | V | x | x | x |
| Frogs | <i>Litoria dayi</i> | Australian Lace-lid | E | x | x | x |
| | <i>Litoria nannotis</i> | Waterfall Frog | E | x | x | x |
| | <i>Litoria rheocola</i> | Common Mistfrog | E | x | x | x |
| Mammals | <i>Dasyurus hallucatus</i> | Northern Quoll | E | x | x | x |
| | <i>Dasyurus maculatus gracilis</i> | Spotted-tailed Quoll (North Queensland) | E | x | x | x |
| | <i>Hipposideros semoni</i> | Semon's Leaf-nosed Bat | E | x | x | x |
| | <i>Macroderma gigas</i> | Ghost Bat | V | x | x | x |
| | <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat (north Queensland) | V | x | x | x |
| | <i>Petauroides volans</i> | Greater Glider | V | x | x | x |
| | <i>Petrogale sharmani</i> | Mount Claro Rock Wallaby | V | x | x | x |
| | <i>Phascolarctos cinereus</i> | Koala | V | x | x | x |
| | <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | x | x | x |
| | <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | x | x | x |
| | <i>Rhinolophus robertsi</i> | Large-eared Horseshoe Bat | E | x | x | x |
| | <i>Saccolaimus saccolaimus nudicluniatus</i> | Bare-rumped Sheath-tailed Bat | CE | x | x | x |
| | Plants | <i>Acacia crombiei</i> | Pink Gidgee | V | x | x |
| <i>Bulbophyllum globuliforme</i> | | Miniature Moss-orchid | V | x | x | x |
| <i>Cajanus mareebensis</i> | | | E | x | x | x |
| <i>Dichanthium setosum</i> | | Bluegrass | V | x | x | x |
| <i>Lindsaea pulchella</i> var. <i>blanda</i> | | | V | x | x | x |
| <i>Marsdenia brevifolia</i> | | | V | x | x | x |
| <i>Phaius australis</i> | | Lesser Swamp-orchid | E | x | x | x |
| <i>Tephrosia leveillei</i> | | | V | x | x | x |
| Reptiles | <i>Egernia rugosa</i> | Yakka Skink | V | x | x | x |
| | <i>Lerista vittata</i> | Mount Cooper Striped Lerista | V | x | x | x |
| Migratory (marine) | <i>Apus pacificus</i> | Fork-tailed Swift | M | x | x | x |
| Migratory (terrestrial) | <i>Cuculus optatus</i> | Oriental Cuckoo | M | x | x | x |
| | <i>Hirundapus caudacutus</i> | White-throated Needletail | M | x | x | x |
| | <i>Hirundo rustica</i> | Barn Swallow | M | x | x | x |
| | <i>Monarcha melanopsis</i> | Black-faced Monarch | M | x | x | x |
| | <i>Monarcha trivirgatus</i> | Spectacled Monarch | M | x | x | x |
| | <i>Motacilla cinerea</i> | Grey Wagtail | M | x | x | x |
| | <i>Motacilla flava</i> | Yellow Wagtail | M | x | x | x |
| | <i>Myiagra cyanoleuca</i> | Satin Flycatcher | M | x | x | x |
| | <i>Rhipidura rufifrons</i> | Rufous Fantail | M | x | x | x |
| | Migratory (wetland) | <i>Calidris ferruginea</i> | Curlew Sandpiper | M (CE) | x | x |
| <i>Gallinago hardwickii</i> | | Latham's Snipe | M | x | x | x |
| <i>Numenius madagascariensis</i> | | Eastern Curlew | M (CE) | x | x | x |
| <i>Pandion haliaetus</i> | | Osprey | M | x | x | x |
| <i>Tringa nebularia</i> | | Common Greenshank | M | - | x | x |

| Other MNES | | | Option A | Option B | Option C |
|---|--|--|----------|----------|----------|
| World Heritage properties - Wet Tropics of Queensland | | | x | - | - |
| National Heritage properties (natural) - Wet Tropics of Queensland | | | x | - | - |
| National Heritage properties (indigenous) - Wet Tropics World Heritage Area (Indigenous Values) | | | x | - | - |

Appendix C

WILDLIFE ONLINE SEARCHES

Search Crit:Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.8813
 Longitude: 144.1254
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:49:02
 Date extracted: Tuesday 08 Nov 2016 13:50:03

The number of records retrieved = 287

Disclaimer

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Feedback about Wildlife Online should be emailed to wildlife.online@science.dsitia.qld.gov.au

Description of the CODES

I - Y indicates that the taxon is introduced to Queensland and has naturalised.

Indicates the Queensland conservation status of each taxon under the Nature Conservation Act 1992. The codes are Extinct in the Wild (PE) Endangered (E) Vulnerable (V) Near Threatened (NT) Least Concern (C) or Not Protected ().
 A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total number of reco. Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|--------|------------|------------------|-------------|--------|----------|-------------|------------------|
| plants | cycads | Cycadaceae | Cycas cairnsiana | | V | V | 5 | 5 |

Search Crit:Species List for a Specified Point

Species: All
Type: Native
Status: All
Records: All
Date: All
Latitude: -18.9068
Longitude: 144.3146
Distance: 18
Email: datov@pbworld.com
Date submitted: Tuesday 08 Nov 2016 13:49:26
Date extracted: Tuesday 08 Nov 2016 13:50:11

The number of records retrieved = 167

Disclaimer

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Description of the CODES

- I - Y indicates that the taxon is introduced to Queensland and has naturalised.
Indicates the Queensland conservation status of each taxon under the Nature Conservation Act 1992. The codes are
- Q - Extinct in the Wild (PE) Endangered (E)
Vulnerable (V) Near Threatened (NT) Least Concern (C) or Not Protected ().
- A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are
Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total numb Confirmed or Specimens).
The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|-------|-------------|------------------------|--|--------|----------|-------------|------------------|
| animals | birds | Estrildidae | Poephila cincta cincta | black-throated finch (white-rumped subspecies) | E | E | 3 | 0 |

Search Criteria: Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.9175
 Longitude: 144.5056
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:49:45
 Date extracted: Tuesday 08 Nov 2016 13:50:07

The number of records retrieved = 353

Disclaimer

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 A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total number of recc Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|---------|----------------|------------------------|--|--------|----------|-------------|------------------|
| animals | birds | Estrildidae | Poephila cincta cincta | black-throated finch (white-rumped subspecies) | E | E | 5 | 0 |
| animals | mammals | Muridae | Mesembriomys gouldii | black-footed tree-rat | C | V | 1 | 0 |
| animals | mammals | Tachyglossidae | Tachyglossus aculeatus | short-beaked echidna | SL | | 1 | 0 |

Search Crit:Species List for a Specified Point

Species: All
Type: Native
Status: All
Records: All
Date: All
Latitude: -18.9253
Longitude: 144.697
Distance: 18
Email: datov@pbworld.com
Date submitted: Tuesday 08 Nov 2016 13:50:05
Date extracted: Tuesday 08 Nov 2016 14:00:43

The number of records retrieved = 198

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A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total number of recc Confirmed or Specimens).
The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|-------|-------------|------------------------|--|--------|----------|-------------|------------------|
| animals | birds | Estrildidae | Poephila cincta cincta | black-throated finch (white-rumped subspecies) | E | E | 2 | 0 |

Search Crit Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.9309
 Longitude: 144.8886
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:50:31
 Date extracted: Tuesday 08 Nov 2016 14:00:17

The number of records retrieved = 347

Disclaimer

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 A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total number of recc Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|-------|--------------|------------------------|--|--------|----------|-------------|------------------|
| animals | birds | Estrildidae | Erythrura gouldiae | Gouldian finch | E | E | 1 | 0 |
| animals | birds | Estrildidae | Poephila cincta cincta | black-throated finch (white-rumped subspecies) | E | E | 2 | 0 |
| animals | birds | Laridae | Hydroprogne caspia | Caspian tern | SL | | 1 | 0 |
| animals | birds | Scolopacidae | Calidris ruficollis | red-necked stint | SL | | 1 | 0 |

Search Criteria: Species List for a Specified Point

Species: All
Type: Native
Status: All
Records: All
Date: All
Latitude: -18.9345
Longitude: 145.0795
Distance: 18
Email: datov@pbworld.com
Date submitted: Tuesday 08 Nov 2016 13:50:54
Date extracted: Tuesday 08 Nov 2016 14:00:10

The number of records retrieved = 335

Disclaimer

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Description of the CODES

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Records – The first number indicates the total number of records Confirmed or Specimens).
The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|---------------|--------------|------------------------|--|--------|----------|-------------|------------------|
| animals | birds | Estrildidae | Poephila cincta cincta | black-throated finch (white-rumped subspecies) | E | E | 1 | 0 |
| animals | birds | Estrildidae | Erythrura gouldiae | Gouldian finch | E | E | 1 | 0 |
| animals | birds | Laridae | Hydroprogne caspia | Caspian tern | SL | | 1 | 0 |
| animals | birds | Rhipiduridae | Rhipidura rufifrons | rufous fantail | SL | | 1 | 0 |
| animals | birds | Scolopacidae | Calidris ruficollis | red-necked stint | SL | | 1 | 0 |
| plants | higher dicots | Myrtaceae | Leptospermum pallidum | | NT | | 5 | 5 |
| plants | higher dicots | Sapindaceae | Arytera dictyoneura | | NT | | 1 | 1 |
| plants | monocots | Poaceae | Lepturus minutus | | V | | 1 | 1 |

Search Crit Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.8973
 Longitude: 145.2662
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:51:19
 Date extracted: Tuesday 08 Nov 2016 14:00:46

The number of records retrieved = 89

Disclaimer

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Records – The first number indicates the total number of records (Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|---------------|--------------|---------------------|----------------|--------|----------|-------------|------------------|
| animals | birds | Rhipiduridae | Rhipidura rufifrons | rufous fantail | SL | | 1 | 0 |
| plants | higher dicots | Apiaceae | Oenanthe javanica | | NT | | 1 | 1 |
| plants | higher dicots | Sapindaceae | Arytera dictyoneura | | NT | | 1 | 1 |

Search Crit Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.8737
 Longitude: 145.4555
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:51:40
 Date extracted: Tuesday 08 Nov 2016 14:00:49

The number of records retrieved = 95

Disclaimer

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A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total number of recor Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|---------------|-----------------|------------------------|---------------------------|--------|----------|-------------|------------------|
| animals | birds | Apodidae | Hirundapus caudacutus | white-throated needletail | SL | | 1 | 0 |
| animals | mammals | Phascolarctidae | Phascolarctos cinereus | koala | V | V | 1 | 0 |
| animals | mammals | Tachyglossidae | Tachyglossus aculeatus | short-beaked echidna | SL | | 1 | 0 |
| plants | higher dicots | Apiaceae | Oenanthe javanica | | NT | | 1 | 1 |

Search Crit Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.8581
 Longitude: 145.6465
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:52:00
 Date extracted: Tuesday 08 Nov 2016 14:00:03

The number of records retrieved = 508

Disclaimer

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A - Indicates the Australian conservation status of each taxon under the Environment Protection and Biodiversity Conservation Act 1999. The values of EPBC are Conservation Dependent (CD) Critically Endangered (CE) Endangered (E) Extinct (EX)

Records – The first number indicates the total number of rec Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|---------------|-----------------|---------------------------|---------------------------|--------|----------|-------------|------------------|
| animals | birds | Apodidae | Hirundapus caudacutus | white-throated needletail | SL | | 1 | 0 |
| animals | birds | Monarchidae | Symposiachrus trivirgatus | spectacled monarch | SL | | 1 | 0 |
| animals | mammals | Macropodidae | Petrogale sharmani | Sharman's rock-wallaby | V | V | 34 | 30 |
| animals | mammals | Phascolarctidae | Phascolarctos cinereus | koala | V | V | 2 | 0 |
| animals | mammals | Pseudocheiridae | Petauroides volans minor | northern greater glider | C | V | 1 | 0 |
| plants | higher dicots | Mimosaceae | Acacia tingoorensis | | V | | 4 | 4 |
| plants | monocots | Orchidaceae | Corybas cerasinus | | NT | | 2 | 2 |

Search Crit Species List for a Specified Point

Species: All
 Type: Native
 Status: All
 Records: All
 Date: All
 Latitude: -18.8445
 Longitude: 145.8358
 Distance: 18
 Email: datov@pbworld.com
 Date submitted: Tuesday 08 Nov 2016 13:52:20
 Date extracted: Tuesday 08 Nov 2016 14:00:14

The number of records retrieved = 615

Disclaimer

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Records – The first number indicates the total number of reco Confirmed or Specimens).
 The second number located after the / indicates the number of specimen records for the taxon.

| Kingdom | Class | Family | Scientific Name | Common Name | NC Act | EPBC Act | Sighting Re | Specimen Records |
|---------|---------------|-----------------|---|--|--------|----------|-------------|------------------|
| animals | birds | Cacatuidae | Calyptorhynchus lathamii erebus | glossy black-cockatoo (northern) | V | | 1 | 0 |
| animals | birds | Casuariidae | Casuarus casuarus johnsonii (southern population) | southern cassowary (southern population) | E | E | 2 | 0 |
| animals | birds | Cuculidae | Cuculus optatus | oriental cuckoo | SL | | 1 | 0 |
| animals | birds | Monarchidae | Monarcha melanopsis | black-faced monarch | SL | | 20 | 0 |
| animals | birds | Monarchidae | Symposiachrus trivirgatus | spectacled monarch | SL | | 32 | 0 |
| animals | birds | Rhipiduridae | Rhipidura rufifrons | rufous fantail | SL | | 9 | 0 |
| animals | mammals | Macropodidae | Petrogale sharmani | Sharman's rock-wallaby | V | V | 34 | 30 |
| animals | mammals | Petauridae | Petaurus gracilis | mahogany glider | E | E | 15 | 0 |
| animals | mammals | Phascolarctidae | Phascolarctos cinereus | koala | V | V | 3 | 0 |
| animals | mammals | Pseudocheiridae | Petauroides volans minor | northern greater glider | C | V | 1 | 0 |
| plants | higher dicots | Apiaceae | Oenanthe javanica | | NT | | 1 | 1 |
| plants | higher dicots | Asteraceae | Glossocardia orthochaeta | | E | | 1 | 1 |
| plants | higher dicots | Mimosaceae | Acacia tingoorensis | | V | | 4 | 4 |
| plants | higher dicots | Myrtaceae | Corymbia leptoloma | | V | V | 1 | 1 |
| plants | monocots | Orchidaceae | Corybas cerasinus | | NT | | 2 | 2 |

Appendix D

WILDLIFE ONLINE DATA COLLATION

Wildlife Online data combined for records searches

| Class | Scientific Name | Common Name | NC Act | EPBC Act |
|---------|--|--|--------|----------|
| Birds | <i>Calidris ruficollis</i> | Red-necked Stint | SL | M |
| Birds | <i>Calyptorhynchus lathamii erebus</i> | Glossy Black-cockatoo (northern) | V | - |
| Birds | <i>Casuarus casuarus johnsonii</i> (southern population) | Southern Cassowary (southern population) | E | E |
| Birds | <i>Cuculus optatus</i> | Oriental cuckoo | SL | M |
| Birds | <i>Erythrura gouldiae</i> | Gouldian Finch | E | E |
| Birds | <i>Hirundapus caudacutus</i> | White-throated Needletail | SL | M |
| Birds | <i>Hydroprogne caspia</i> | Caspian Tern | SL | M |
| Birds | <i>Monarcha melanopsis</i> | Black-faced Monarch | SL | M |
| Birds | <i>Poephila cincta cincta</i> | Black-throated Finch (white-rumped subspecies) | E | E |
| Birds | <i>Rhipidura rufifrons</i> | Rufous Fantail | SL | M |
| Birds | <i>Symposiachrus trivirgatus</i> | Spectacled Monarch | SL | M |
| Mammals | <i>Mesembriomys gouldii</i> | Black-footed Tree-rat | - | V |
| Mammals | <i>Petauroides volans minor</i> | Northern Greater Glider | - | V |
| Mammals | <i>Petaurus gracilis</i> | Mahogany Glider | E | E |
| Mammals | <i>Petrogale sharmani</i> | Sharman's Rock-wallaby | V | V |
| Mammals | <i>Phascogale cinereus</i> | Koala | V | V |
| Mammals | <i>Tachyglossus aculeatus</i> | Short-beaked Echidna | SL | - |
| Plants | <i>Acacia tingoorensis</i> | | V | - |
| Plants | <i>Arytera dictyoneura</i> | | NT | - |
| Plants | <i>Cycas cairnsiana</i> | | V | V |
| Plants | <i>Corybas cerasinus</i> | | NT | - |
| Plants | <i>Corymbia leptoloma</i> | | V | V |
| Plants | <i>Glossocardia orthochaeta</i> | | E | - |
| Plants | <i>Leptospermum pallidum</i> | | NT | - |
| Plants | <i>Lepturus minutus</i> | | V | - |
| Plants | <i>Oenanthe javanica</i> | | NT | - |

Appendix E

DSITI AND ALA SPECIES RECORDS SEARCHES

Kidston Corridor Options - Threatened species records searches

| Class | Scientific Name | Common Name | EPBC Act | NC Act | Database search | Records search | DSITI Comments |
|--------------------------|--|--|----------|--------|--------------------------|----------------|--|
| Threatened flora species | | | | | | | |
| Plant | <i>Acacia cromptii</i> | Pink Gidgee | V | V | PMST | DSITI and ALA | |
| Plant | <i>Acacia tingoorensis</i> | - | - | V | Wildlife Online | DSITI and ALA | |
| Plant | <i>Arytera dictyoneura</i> | - | - | NT | Wildlife Online | DSITI and ALA | |
| Plant | <i>Bulbophyllum globuliforme</i> | Miniature Moss-orchid | V | NT | PMST | ALA | Confidential species; unable to download records |
| Plant | <i>Cajanus mareebensis</i> | - | E | E | PMST | DSITI and ALA | |
| Plant | <i>Corybas cerasinus</i> | - | - | NT | Wildlife Online | ALA | Confidential species; unable to download records |
| Plant | <i>Corymbia leptoloma</i> | Yellowjacket | V | V | Wildlife Online | DSITI and ALA | |
| Other | <i>Cycas cairnsiana</i> | - | V | V | Wildlife Online | ALA | Confidential species; unable to download records |
| Plant | <i>Dichanthium setosum</i> | Bluegrass | V | - | PMST | DSITI and ALA | |
| Plant | <i>Glossocardia orthochaeta</i> | - | - | E | Wildlife Online | DSITI and ALA | |
| Plant | <i>Leptospermum pallidum</i> | - | - | NT | Wildlife Online | DSITI and ALA | |
| Plant | <i>Lepturus minutus</i> | - | - | V | Wildlife Online | DSITI and ALA | |
| Plant | <i>Lindsaea pulchella</i> var. <i>blanda</i> | - | V | EX | PMST | ALA | Confidential species; unable to download records |
| Plant | <i>Marsdenia brevifolia</i> | - | V | V | PMST | DSITI and ALA | |
| Plant | <i>Oenanthe javanica</i> | - | - | NT | Wildlife Online | DSITI and ALA | |
| Plant | <i>Phaius australis</i> | Lesser Swamp-orchid | E | E | PMST | ALA | Confidential species; unable to download records |
| Plant | <i>Tephrosia levillei</i> | - | V | V | PMST | DSITI and ALA | |
| Threatened fauna species | | | | | | | |
| Bird | <i>Calidris ferruginea</i> | Curlew Sandpiper | CE (M) | SL | PMST | DSITI and ALA | |
| Bird | <i>Calyptorhynchus lathami erebus</i> | Glossy Black-cockatoo (northern) | - | V | Wildlife Online | DSITI and ALA | |
| Bird | <i>Casuaris casuaris johnsonii</i> | Southern Cassowary | E | E | Wildlife Online and PMST | DSITI and ALA | |
| Mammal | <i>Dasyurus hallucatus</i> | Northern Quoll | E | - | PMST | DSITI and ALA | |
| Mammal | <i>Dasyurus maculatus gracilis</i> | Spotted-tailed Quoll (North Queensland) | E | E | PMST | DSITI and ALA | |
| Reptile | <i>Egernia rugosa</i> | Yakka Skink | V | V | PMST | ALA | Confidential species; unable to download records |
| Bird | <i>Erythrorhynchus radiatus</i> | Red Goshawk | V | E | PMST | DSITI and ALA | |
| Bird | <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | Wildlife Online and PMST | ALA | Confidential species; unable to download records |
| Mammal | <i>Hipposideros semoni</i> | Semon's Leaf-nosed Bat | E | E | PMST | DSITI and ALA | |
| Reptile | <i>Lerista vittata</i> | Mount Cooper Striped Lerista | V | V | PMST | DSITI and ALA | |
| Frog | <i>Litoria dayi</i> | Australian Lace-lid | E | E | PMST | DSITI and ALA | |
| Frog | <i>Litoria nannotis</i> | Waterfall Frog | E | E | PMST | DSITI and ALA | |
| Frog | <i>Litoria rheocola</i> | Common Mistfrog | E | E | PMST | DSITI and ALA | |
| Mammal | <i>Macroderma gigas</i> | Ghost Bat | V | V | PMST | DSITI and ALA | |
| Mammal | <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat (north Queensland) | V | - | Wildlife Online and PMST | DSITI and ALA | |
| Bird | <i>Numenius madagascariensis</i> | Eastern Curlew | CE (M) | V | PMST | DSITI and ALA | |
| Mammal | <i>Petauroides volans</i> | Greater Glider | V | - | Wildlife Online and PMST | DSITI and ALA | |
| Mammal | <i>Petaurus gracilis</i> | Mahogany Glider | E | E | Wildlife Online | DSITI and ALA | |
| Mammal | <i>Petrogale sharmani</i> | Sharman's Rock-wallaby | V | V | Wildlife Online and PMST | DSITI and ALA | |
| Mammal | <i>Phascogale cinerea</i> | Koala | V | V | Wildlife Online and PMST | DSITI and ALA | |
| Bird | <i>Poephila cincta cincta</i> | Southern Black-throated Finch | E | E | Wildlife Online and PMST | ALA | Confidential species; unable to download records |
| Mammal | <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | V | PMST | DSITI and ALA | |
| Mammal | <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | - | PMST | DSITI and ALA | |
| Bird | <i>Rostratula australis</i> | Australian Painted Snipe | E (M) | V | PMST | DSITI and ALA | |
| Mammal | <i>Rhinolophus robertsi</i> | Large-eared Horseshoe Bat | E | E | PMST | ALA | Confidential species; unable to download records |
| Mammal | <i>Saccolaimus saccolaimus nudiclunatus</i> | Bare-rumped Sheath-tailed Bat | CE | E | PMST | | |
| Birds | <i>Tyto novaehollandiae kimberli</i> | Masked Owl (northern) | V | V | PMST | | |

| Migratory and special least concern fauna species | | | | | | | |
|---|----------------------------------|---------------------------|---|----|--------------------------|---------------|--|
| Bird (marine) | <i>Apus pacificus</i> | Fork-tailed Swift | M | SL | PMST | DSITI and ALA | |
| Bird (marine) | <i>Calidris ruficollis</i> | Red-necked Stint | M | SL | Wildlife Online | DSITI and ALA | |
| Bird (terrestrial) | <i>Cuculus optatus</i> | Oriental cuckoo | M | SL | Wildlife Online and PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Hirundapus caudacutus</i> | White-throated Needletail | M | SL | Wildlife Online and PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Hirundo rustica</i> | Barn Swallow | M | SL | PMST | DSITI and ALA | |
| Bird (marine) | <i>Hydroprogne caspia</i> | Caspian Tern | M | SL | Wildlife Online | DSITI and ALA | |
| Bird (terrestrial) | <i>Monarcha melanopsis</i> | Black-faced Monarch | M | SL | Wildlife Online and PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Motacilla cinerea</i> | Grey Wagtail | M | SL | PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Motacilla flava</i> | Yellow Wagtail | M | SL | PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Myiagra cyanoleuca</i> | Satin Flycatcher | M | SL | PMST | DSITI and ALA | |
| Bird (wetland) | <i>Gallinago hardwickii</i> | Latham's Snipe | M | SL | PMST | DSITI and ALA | |
| Bird (wetland) | <i>Pandion haliaetus</i> | Osprey | M | SL | PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Rhipidura rufifrons</i> | Rufous Fantail | M | SL | Wildlife Online and PMST | DSITI and ALA | |
| Bird (terrestrial) | <i>Symposiachrus trivirgatus</i> | Spectacled Monarch | M | SL | Wildlife Online and PMST | DSITI and ALA | |
| Mammal | <i>Tachyglossus aculeatus</i> | Short-beaked Echidna | - | SL | Wildlife Online | DSITI and ALA | |
| Bird (wetland) | <i>Tringa nebularia</i> | Common Greenshank | M | SL | PMST | DSITI and ALA | |

Appendix F

THREATENED SPECIES RECORDS

Kidston Corridor Options - NC Act threatened species records for each corridor option

| NC Act status | Option A | Option B | Option C |
|--------------------------|----------|----------|----------|
| Threatened flora species | | | |
| Endangered | | | |
| Vulnerable | 1 | | |
| Near Threatened | | | |
| Threatened fauna species | | | |
| Endangered | 1 | 1 | 1 |
| Vulnerable | | 1 | 3 |
| Near threatened | | | |
| Special least concern | | 2 | 1 |

Kidston Corridor Options - EPBC Act threatened species records for each corridor option

| EPBC Act status | Option A | Option B | Option C |
|--------------------------|----------|----------|----------|
| Threatened flora species | | | |
| Critically endangered | | | |
| Endangered | | | |
| Vulnerable | 1 | 1 | 1 |
| Threatened fauna species | | | |
| Critically endangered | | 1 | 1 |
| Endangered | 1 | 1 | 1 |
| Vulnerable | 1 | 2 | 2 |
| Migratory | | | |
| Migratory (marine) | | 1 | |
| Migratory (terrestrial) | | | |
| Migratory (wetland) | | | |

Appendix G

MSES SPREADSHEETS

Kidston Corridor Option A - Regulated vegetation

| Name | M_Table1_4 | M4_RE | M4_VM_POLY | M4_1 | Area_ha | |
|-----------------|----------------------|--------|------------|-------|----------|---|
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.003842 | 422Total Category R regrowth for Option A |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.469059 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.100844 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.195803 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.067611 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 12.59236 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.334779 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 7.860174 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 12.2317 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.374102 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.483168 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.700459 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.83997 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.070627 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.043435 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.830378 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.596549 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.905288 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 12.21573 | |
| Genex: Option A | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.167738 | |
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| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.473492 | 3.6Total OC regrowth for Option A |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.720557 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.084694 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.888013 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.034725 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.476705 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.890819 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 14.13818 | 2059Total OC-dom remnant for Option A |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 14.58422 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 5.972214 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 3.9565 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.44608 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.483626 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.630734 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.10b | O-dom | rem_oc | 0.000002 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 3.211762 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 6.756958 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.181751 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 0.097199 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.483261 | |
| Genex: Option A | REGULATED VEGETATION | 7.3.26a | O-dom | rem_oc | 9.568999 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 0.000082 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 1.2572 | |
| Genex: Option A | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.009287 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.990015 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 8.687105 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 1.185375 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 0.297036 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 11.56206 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 13.34683 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 74.67075 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 4.908792 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.000035 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.589727 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 6.715692 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.013457 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 11.07438 | |
| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 694.5311 | |

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| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 100.3972 |
| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 33.51078 |
| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 118.4246 |
| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 23.38401 |
| Genex: Option A | REGULATED VEGETATION | 9.5.2 | O-dom | rem_oc | 31.74374 |
| Genex: Option A | REGULATED VEGETATION | 9.5.2 | O-dom | rem_oc | 103.7197 |
| Genex: Option A | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.016774 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.054965 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.115602 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.00036 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.72007 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 17.55466 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.623486 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.15235 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.000056 |
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| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.024483 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.063902 |
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| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.402452 |
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| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 11.3936 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 3.36858 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.147912 |
| Genex: Option A | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 1.962138 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.280448 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 1.301988 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 14.64406 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 6.153846 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 3.000527 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 6.518854 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 9.905173 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 2.436735 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 1.316996 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.323124 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 19.62831 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.028011 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.132719 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 2.647046 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.811436 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 9.52291 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 3.28628 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 32.21729 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 4.050669 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 2.310894 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 1.561025 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 2.128498 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.81339 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.928591 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.05823 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.413503 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.925361 |
| Genex: Option A | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 5.784952 |
| Genex: Option A | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 0.182818 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.321791 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.076465 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.144677 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 14.87732 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 2.728083 |
| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 27.99035 |
| Genex: Option A | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 47.06895 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 4.770745 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 1.478203 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 28.1685 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 4.236403 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 1.381377 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.046029 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 5.615905 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 20.59074 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 7.634229 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.792089 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 11.75996 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 5.718137 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 21.60491 |
| Genex: Option A | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 1.304391 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.964711 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 7.624219 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 5.251581 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 2.078499 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.414249 |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.548143 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 4.418021 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.594067 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.81655 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 8.567495 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 62.13517 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 4.286205 |
| Genex: Option A | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 6.221108 |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 34.09352 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 6.059978 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 15.98771 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 9.11193 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.001799 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 11.76356 |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 5.563263 |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 18.22205 |
| Genex: Option A | REGULATED VEGETATION | 7.8.17c | O-dom | rem_oc | 3.072896 |

| | | | | | | |
|-----------------|----------------------|-----------------------|----------|--------|----------|--------------------------------------|
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 0.616583 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 3.436127 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 3.278014 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.488125 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 11.64185 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.444011 | |
| Genex: Option A | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 6.182993 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 9.199162 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.360322 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 8.433969 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.434568 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 0.64519 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 58.61665 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 15.50554 | |
| Genex: Option A | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.338929 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 18.62776 | |
| Genex: Option A | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 5.381855 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 348.0026 | 1008 |
| Genex: Option A | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 345.7832 | Total OC-subdom remnant for Option A |
| Genex: Option A | REGULATED VEGETATION | 9.3.19a/9.3.3a/9.3.23 | O-subdom | rem_oc | 0.053888 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.19a/9.3.3a/9.3.23 | O-subdom | rem_oc | 0.003095 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.19a/9.3.3a/9.3.23 | O-subdom | rem_oc | 0.418459 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 20.80439 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 48.92501 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 130.6595 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.19a/9.3.3a/9.3.23 | O-subdom | rem_oc | 18.58643 | |
| Genex: Option A | REGULATED VEGETATION | 9.3.19a/9.3.3a/9.3.23 | O-subdom | rem_oc | 94.72298 | |

Kidston Corridor Option B - Regulated vegetation

| Name | M_Table1_4 | M4_RE | M4_VM_POLY | M4_1 | Area_ha | |
|-----------------|----------------------|--------|------------|-------|----------|--|
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.004087 | 296 Total Category R regrowth for Option B |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.146045 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.391259 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.464253 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.080121 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.305659 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.313248 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.341295 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.323414 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.326592 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.686231 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.67304 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.257651 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.612285 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.669419 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.178009 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.351457 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.106444 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.009107 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.686556 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.18859 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.699534 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 6.691298 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 4.45794 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 3.898714 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 13.99839 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 3.504503 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 21.10548 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.060778 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 4.36551 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.019771 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 8.05536 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 18.16175 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.273166 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.644273 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.96434 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.625849 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 21.0754 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.089904 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.190246 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.156919 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.046139 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 7.493591 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.2608 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.959257 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.457158 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.645064 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.013744 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.284381 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.331178 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.307026 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 4.380483 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.304279 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.872902 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.434148 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.434542 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.46824 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.709577 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.014552 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.475646 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.420251 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.185744 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.450237 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.410175 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.408328 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.327941 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.659546 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.480604 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.861445 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.632978 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.422231 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.0623 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.827108 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.380445 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.597613 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.061373 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.011887 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.108115 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.092819 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.36721 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.400628 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.15454 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.604932 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.798694 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.938117 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.112028 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.45894 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.659266 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.70253 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.773593 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.785154 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.242768 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.615052 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.400008 | |

| | | | | | | |
|-----------------|----------------------|---------|--------|--------|----------|---------------------------------------|
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.468714 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.029329 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.714711 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.645599 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.877687 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 3.262705 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.590311 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.464782 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.733858 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.113461 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.388676 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.672468 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.550556 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.543306 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.106496 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 7.708124 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.075444 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.20241 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.554833 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.052662 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.595646 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.610715 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 17.18279 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.561512 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.250953 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.162867 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 9.736478 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.068693 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.139407 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.361331 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.234613 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.532087 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.281566 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.580541 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 4.103995 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.802553 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 6.461723 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.63187 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 42.18013 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.223331 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 3.832999 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.321527 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.424048 | |
| Genex: Option B | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.072922 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.084694 | 2.4 Total OC regrowth for Option B |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.888013 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.034725 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.476705 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.890819 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.099917 | 189 Total OC-dom remnant for Option B |
| Genex: Option B | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 1.166763 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 0.037098 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 15.35428 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 5.626586 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 1.47184 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 10.58911 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 138.478 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 195.4305 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 153.7515 | |
| Genex: Option B | REGULATED VEGETATION | 9.5.2 | O-dom | rem_oc | 5.651613 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 19.62831 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.028011 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.132719 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 2.647046 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 0.811436 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 9.52291 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 3.28628 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 32.21729 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 4.050669 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 2.310894 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 1.561025 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 2.128498 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.81339 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.928591 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.05823 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.413503 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.925361 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 5.784952 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.1c | O-dom | rem_oc | 0.182818 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.321791 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 1.076465 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.144677 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 14.87732 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 2.728083 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 27.99035 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 47.06895 | |
| Genex: Option B | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 4.770745 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 1.478203 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 28.1685 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 4.236403 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 1.381377 | |
| Genex: Option B | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.053238 | |
| Genex: Option B | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.50231 | |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 9.653945 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 270.0272 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 374.3618 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 0.590697 | |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 1.771366 | |

| | | | | | |
|-----------------|----------------------|----------------------|----------|--------|----------|
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 108.0731 |
| Genex: Option B | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 1.946469 |
| Genex: Option B | REGULATED VEGETATION | 9.5.2 | O-dom | rem_oc | 26.87198 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 4.418021 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.594067 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.81655 |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 8.567495 |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 62.13517 |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 4.286205 |
| Genex: Option B | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 6.221108 |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 34.09352 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 6.059978 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 15.98771 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 9.11193 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.001799 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 11.76356 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 5.563263 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 18.22205 |
| Genex: Option B | REGULATED VEGETATION | 7.8.17c | O-dom | rem_oc | 3.072896 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 0.616583 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 3.436127 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 3.278014 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.488125 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 11.64185 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.444011 |
| Genex: Option B | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 6.182993 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 9.199162 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.360322 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 8.433969 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.434568 |
| Genex: Option B | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 0.64519 |
| Genex: Option B | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 58.61665 |
| Genex: Option B | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 15.50554 |
| Genex: Option B | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.338929 |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 18.62776 |
| Genex: Option B | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 5.381855 |
| Genex: Option B | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 187.4794 |
| Genex: Option B | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 46.67159 |
| Genex: Option B | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 6.946683 |
| Genex: Option B | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 4.034855 |
| Genex: Option B | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 28.05193 |
| Genex: Option B | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 59.27586 |
| Genex: Option B | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 85.42147 |
| Genex: Option B | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 21.51575 |
| Genex: Option B | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 2.117612 |

442 Total OC-subdom remnant for Option B

Kidston Corridor Option C - Regulated vegetation

| Name | M_Table1_4 | M4_RE | M4_VM_POLY | M4_1 | Area_ha | |
|----------------|----------------------|--------|------------|-------|----------|--|
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.328481 | 257/Total Category R regrowth for Option C |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.428227 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.926819 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.05916 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.353217 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 12.75876 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.043894 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.638457 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.432419 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.716188 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.003291 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.082781 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.164262 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 3.767526 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.307159 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.200175 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.17231 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.711402 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.027479 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.042959 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.229094 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.651188 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.627135 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.280835 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 27.73202 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.293773 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.65791 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.774417 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.535426 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 5.619303 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.721397 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.378213 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.829549 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.811617 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.007855 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.206561 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.040172 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.508238 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 2.434682 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.623133 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.632978 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.597613 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.011887 | |

| | | | | | | |
|----------------|----------------------|---------|--------|--------|----------|--|
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.108115 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.092819 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.36721 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.938117 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.029329 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.250953 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.162867 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.068693 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.361331 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.532087 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.281566 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.802553 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 6.461723 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.63187 | |
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| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.223331 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 3.832999 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 1.321527 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.424048 | |
| GENEX Option C | REGULATED VEGETATION | <Null> | <Null> | Cat R | 0.072922 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.084694 | 2.4 Total OC regrowth for Option C |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.888013 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | hvr_oc | 0.034725 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.476705 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | hvr_oc | 0.890819 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 3.344087 | 1519 Total OC-dom remnant for Option C |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 5.250493 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 2.477648 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 4.760297 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 5.401995 | |
| GENEX Option C | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.746091 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.817491 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 36.82176 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 204.122 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 8.058572 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 1.779746 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 11.61961 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.046029 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 5.615905 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 20.59074 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 7.634229 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.792089 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 11.75996 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 5.718137 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 21.60491 | |
| GENEX Option C | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 1.304391 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.964711 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 7.624219 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 5.251581 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 2.078499 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.414249 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.548143 | |
| GENEX Option C | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.053238 | |
| GENEX Option C | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 0.50231 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 9.653945 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 270.0272 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 374.3618 | |

| | | | | | | |
|----------------|----------------------|----------------------|----------|--------|----------|--|
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 0.590697 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 1.771366 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 108.0731 | |
| GENEX Option C | REGULATED VEGETATION | 9.12.10 | O-dom | rem_oc | 1.946469 | |
| GENEX Option C | REGULATED VEGETATION | 9.5.2 | O-dom | rem_oc | 26.87198 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 4.418021 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.594067 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 0.81655 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 8.567495 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 62.13517 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 4.286205 | |
| GENEX Option C | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 6.221108 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 34.09352 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 6.059978 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 15.98771 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 9.11193 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.001799 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 11.76356 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 5.563263 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 18.22205 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.17c | O-dom | rem_oc | 3.072896 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 0.616583 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 3.436127 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4f | O-dom | rem_oc | 3.278014 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.488125 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 11.64185 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 4.444011 | |
| GENEX Option C | REGULATED VEGETATION | 7.3.39a | O-dom | rem_oc | 6.182993 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 9.199162 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 1.360322 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 8.433969 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18a | O-dom | rem_oc | 0.434568 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.18c | O-dom | rem_oc | 0.64519 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.4c | O-dom | rem_oc | 58.61665 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 15.50554 | |
| GENEX Option C | REGULATED VEGETATION | 7.8.7a | O-dom | rem_oc | 0.338929 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 18.62776 | |
| GENEX Option C | REGULATED VEGETATION | 7.5.2b | O-dom | rem_oc | 5.381855 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 58.16345 | 334 Total OC-subdom remnant for Option C |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 7.270749 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 0.873508 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 24.94581 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 11.81889 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 63.09471 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 59.27586 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 85.42147 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.5/9.3.3a/9.3.23 | O-subdom | rem_oc | 21.51575 | |
| GENEX Option C | REGULATED VEGETATION | 9.3.3a/9.3.20/9.3.23 | O-subdom | rem_oc | 2.117612 | |

Kidston Corridor Option A - Regional ecosystems v8

| Name | VM_POLY | VM_STATUS | Area_ha | |
|-----------------|---------|-------------|----------|-------------------------------------|
| Genex: Option A | LeastC | hvr_leastc | 14.8125 | 62 Total LC regrowth for Option A |
| Genex: Option A | LeastC | hvr_leastc | 0.367214 | |
| Genex: Option A | LeastC | hvr_leastc | 1.073194 | |
| Genex: Option A | LeastC | hvr_leastc | 0.02707 | |
| Genex: Option A | LeastC | hvr_leastc | 0.725399 | |
| Genex: Option A | LeastC | hvr_leastc | 23.53707 | |
| Genex: Option A | LeastC | hvr_leastc | 6.913921 | |
| Genex: Option A | LeastC | hvr_leastc | 4.153932 | |
| Genex: Option A | LeastC | hvr_leastc | 2.201232 | |
| Genex: Option A | LeastC | hvr_leastc | 2.657052 | |
| Genex: Option A | LeastC | hvr_leastc | 1.646678 | |
| Genex: Option A | LeastC | hvr_leastc | 3.808301 | |
| Genex: Option A | O-dom | hvr_oc | 0.47349 | 3.6 Total OC regrowth for Option A |
| Genex: Option A | O-dom | hvr_oc | 0.72056 | |
| Genex: Option A | O-dom | hvr_oc | 0.888013 | |
| Genex: Option A | O-dom | hvr_oc | 0.034724 | |
| Genex: Option A | O-dom | hvr_oc | 0.084695 | |
| Genex: Option A | O-dom | hvr_oc | 0.476706 | |
| Genex: Option A | O-dom | hvr_oc | 0.890819 | |
| Genex: Option A | non-rem | non_remnant | 121.2521 | 2675 Total non-remnant for Option A |
| Genex: Option A | non-rem | non_remnant | 25.84752 | |
| Genex: Option A | non-rem | non_remnant | 2.629019 | |
| Genex: Option A | non-rem | non_remnant | 19.38068 | |
| Genex: Option A | non-rem | non_remnant | 0.000169 | |
| Genex: Option A | non-rem | non_remnant | 2.304268 | |
| Genex: Option A | non-rem | non_remnant | 4.975241 | |
| Genex: Option A | non-rem | non_remnant | 112.914 | |
| Genex: Option A | non-rem | non_remnant | 0.444669 | |
| Genex: Option A | non-rem | non_remnant | 31.96318 | |
| Genex: Option A | non-rem | non_remnant | 63.51757 | |
| Genex: Option A | non-rem | non_remnant | 1.279065 | |
| Genex: Option A | non-rem | non_remnant | 190.1669 | |
| Genex: Option A | non-rem | non_remnant | 13.65374 | |
| Genex: Option A | non-rem | non_remnant | 6.749425 | |
| Genex: Option A | non-rem | non_remnant | 91.04484 | |
| Genex: Option A | non-rem | non_remnant | 0.000071 | |
| Genex: Option A | non-rem | non_remnant | 122.9623 | |
| Genex: Option A | non-rem | non_remnant | 0.000227 | |
| Genex: Option A | non-rem | non_remnant | 279.2766 | |
| Genex: Option A | non-rem | non_remnant | 151.6287 | |
| Genex: Option A | non-rem | non_remnant | 7.245895 | |
| Genex: Option A | non-rem | non_remnant | 8.656713 | |
| Genex: Option A | non-rem | non_remnant | 393.879 | |
| Genex: Option A | non-rem | non_remnant | 2.125011 | |
| Genex: Option A | non-rem | non_remnant | 103.4499 | |
| Genex: Option A | non-rem | non_remnant | 8.966574 | |
| Genex: Option A | non-rem | non_remnant | 6.867542 | |
| Genex: Option A | non-rem | non_remnant | 16.25738 | |
| Genex: Option A | non-rem | non_remnant | 0.234067 | |
| Genex: Option A | non-rem | non_remnant | 282.7614 | |
| Genex: Option A | non-rem | non_remnant | 0.000204 | |
| Genex: Option A | non-rem | non_remnant | 0.000074 | |
| Genex: Option A | non-rem | non_remnant | 8.914747 | |
| Genex: Option A | non-rem | non_remnant | 1.286566 | |
| Genex: Option A | non-rem | non_remnant | 1.685735 | |
| Genex: Option A | non-rem | non_remnant | 0.526879 | |
| Genex: Option A | non-rem | non_remnant | 0.121333 | |
| Genex: Option A | non-rem | non_remnant | 3.735213 | |
| Genex: Option A | non-rem | non_remnant | 117.347 | |
| Genex: Option A | non-rem | non_remnant | 468.6799 | |

| | | | | | |
|-----------------|--------|-------------|----------|-------|--------------------------------------|
| Genex: Option A | water | non_remnant | 17.22085 | 20 | Total water non-remnant for Option A |
| Genex: Option A | water | non_remnant | 1.779753 | | |
| Genex: Option A | water | non_remnant | 1.100773 | | |
| Genex: Option A | LeastC | rem_leastc | 52.57021 | 50675 | Total LC remnant for Option A |
| Genex: Option A | LeastC | rem_leastc | 57.17364 | | |
| Genex: Option A | LeastC | rem_leastc | 146.5935 | | |
| Genex: Option A | LeastC | rem_leastc | 1.712134 | | |
| Genex: Option A | LeastC | rem_leastc | 32.87388 | | |
| Genex: Option A | LeastC | rem_leastc | 255.2324 | | |
| Genex: Option A | LeastC | rem_leastc | 1032.305 | | |
| Genex: Option A | LeastC | rem_leastc | 34.28771 | | |
| Genex: Option A | LeastC | rem_leastc | 276.3749 | | |
| Genex: Option A | LeastC | rem_leastc | 18.62152 | | |
| Genex: Option A | LeastC | rem_leastc | 42.91812 | | |
| Genex: Option A | LeastC | rem_leastc | 9.551715 | | |
| Genex: Option A | LeastC | rem_leastc | 54.19333 | | |
| Genex: Option A | LeastC | rem_leastc | 37.36713 | | |
| Genex: Option A | LeastC | rem_leastc | 14.77693 | | |
| Genex: Option A | LeastC | rem_leastc | 52.74941 | | |
| Genex: Option A | LeastC | rem_leastc | 36.25535 | | |
| Genex: Option A | LeastC | rem_leastc | 127.1683 | | |
| Genex: Option A | LeastC | rem_leastc | 27.34685 | | |
| Genex: Option A | LeastC | rem_leastc | 157.0211 | | |
| Genex: Option A | LeastC | rem_leastc | 9.903885 | | |
| Genex: Option A | LeastC | rem_leastc | 26.95378 | | |
| Genex: Option A | LeastC | rem_leastc | 29.87643 | | |
| Genex: Option A | LeastC | rem_leastc | 59.37642 | | |
| Genex: Option A | LeastC | rem_leastc | 347.307 | | |
| Genex: Option A | LeastC | rem_leastc | 125.124 | | |
| Genex: Option A | LeastC | rem_leastc | 8.416606 | | |
| Genex: Option A | LeastC | rem_leastc | 136.8527 | | |
| Genex: Option A | LeastC | rem_leastc | 23.68275 | | |
| Genex: Option A | LeastC | rem_leastc | 1152.16 | | |
| Genex: Option A | LeastC | rem_leastc | 8.13693 | | |
| Genex: Option A | LeastC | rem_leastc | 21.6886 | | |
| Genex: Option A | LeastC | rem_leastc | 73.47771 | | |
| Genex: Option A | LeastC | rem_leastc | 22.65108 | | |
| Genex: Option A | LeastC | rem_leastc | 68.04189 | | |
| Genex: Option A | LeastC | rem_leastc | 42.60602 | | |
| Genex: Option A | LeastC | rem_leastc | 24.16052 | | |
| Genex: Option A | LeastC | rem_leastc | 22.17645 | | |
| Genex: Option A | LeastC | rem_leastc | 62.46455 | | |
| Genex: Option A | LeastC | rem_leastc | 595.0399 | | |
| Genex: Option A | LeastC | rem_leastc | 1.471328 | | |
| Genex: Option A | LeastC | rem_leastc | 61.99931 | | |
| Genex: Option A | LeastC | rem_leastc | 239.4195 | | |
| Genex: Option A | LeastC | rem_leastc | 68.66814 | | |
| Genex: Option A | LeastC | rem_leastc | 147.3336 | | |
| Genex: Option A | LeastC | rem_leastc | 1.401031 | | |
| Genex: Option A | LeastC | rem_leastc | 251.6928 | | |
| Genex: Option A | LeastC | rem_leastc | 22.36634 | | |
| Genex: Option A | LeastC | rem_leastc | 172.1274 | | |
| Genex: Option A | LeastC | rem_leastc | 67.82442 | | |
| Genex: Option A | LeastC | rem_leastc | 158.9092 | | |
| Genex: Option A | LeastC | rem_leastc | 4.672963 | | |
| Genex: Option A | LeastC | rem_leastc | 105.2463 | | |
| Genex: Option A | LeastC | rem_leastc | 45.21432 | | |
| Genex: Option A | LeastC | rem_leastc | 4.683257 | | |
| Genex: Option A | LeastC | rem_leastc | 43.53392 | | |
| Genex: Option A | LeastC | rem_leastc | 1.189481 | | |
| Genex: Option A | LeastC | rem_leastc | 129.4995 | | |
| Genex: Option A | LeastC | rem_leastc | 185.6366 | | |
| Genex: Option A | LeastC | rem_leastc | 207.8615 | | |

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|-----------------|--------|------------|----------|
| Genex: Option A | LeastC | rem_leastc | 4.923067 |
| Genex: Option A | LeastC | rem_leastc | 19.29285 |
| Genex: Option A | LeastC | rem_leastc | 406.9075 |
| Genex: Option A | LeastC | rem_leastc | 396.7804 |
| Genex: Option A | LeastC | rem_leastc | 7.393406 |
| Genex: Option A | LeastC | rem_leastc | 42.71687 |
| Genex: Option A | LeastC | rem_leastc | 56.29743 |
| Genex: Option A | LeastC | rem_leastc | 77.57893 |
| Genex: Option A | LeastC | rem_leastc | 294.1476 |
| Genex: Option A | LeastC | rem_leastc | 161.5184 |
| Genex: Option A | LeastC | rem_leastc | 27.12249 |
| Genex: Option A | LeastC | rem_leastc | 1485.42 |
| Genex: Option A | LeastC | rem_leastc | 5.900959 |
| Genex: Option A | LeastC | rem_leastc | 1230.668 |
| Genex: Option A | LeastC | rem_leastc | 91.84999 |
| Genex: Option A | LeastC | rem_leastc | 299.5232 |
| Genex: Option A | LeastC | rem_leastc | 325.435 |
| Genex: Option A | LeastC | rem_leastc | 5.030852 |
| Genex: Option A | LeastC | rem_leastc | 36.13185 |
| Genex: Option A | LeastC | rem_leastc | 32.00785 |
| Genex: Option A | LeastC | rem_leastc | 29.35829 |
| Genex: Option A | LeastC | rem_leastc | 179.814 |
| Genex: Option A | LeastC | rem_leastc | 0.068167 |
| Genex: Option A | LeastC | rem_leastc | 36.75109 |
| Genex: Option A | LeastC | rem_leastc | 274.0591 |
| Genex: Option A | LeastC | rem_leastc | 0.614416 |
| Genex: Option A | LeastC | rem_leastc | 11.44757 |
| Genex: Option A | LeastC | rem_leastc | 337.7416 |
| Genex: Option A | LeastC | rem_leastc | 0.215319 |
| Genex: Option A | LeastC | rem_leastc | 78.6461 |
| Genex: Option A | LeastC | rem_leastc | 92.57578 |
| Genex: Option A | LeastC | rem_leastc | 1181.485 |
| Genex: Option A | LeastC | rem_leastc | 128.7503 |
| Genex: Option A | LeastC | rem_leastc | 395.8646 |
| Genex: Option A | LeastC | rem_leastc | 14.96748 |
| Genex: Option A | LeastC | rem_leastc | 263.8201 |
| Genex: Option A | LeastC | rem_leastc | 110.4523 |
| Genex: Option A | LeastC | rem_leastc | 18.81884 |
| Genex: Option A | LeastC | rem_leastc | 26.17039 |
| Genex: Option A | LeastC | rem_leastc | 11.36333 |
| Genex: Option A | LeastC | rem_leastc | 5.997836 |
| Genex: Option A | LeastC | rem_leastc | 44.11509 |
| Genex: Option A | LeastC | rem_leastc | 48.96257 |
| Genex: Option A | LeastC | rem_leastc | 8.616055 |
| Genex: Option A | LeastC | rem_leastc | 34.58335 |
| Genex: Option A | LeastC | rem_leastc | 6.739789 |
| Genex: Option A | LeastC | rem_leastc | 159.7099 |
| Genex: Option A | LeastC | rem_leastc | 0.689372 |
| Genex: Option A | LeastC | rem_leastc | 5.06318 |
| Genex: Option A | LeastC | rem_leastc | 723.1585 |
| Genex: Option A | LeastC | rem_leastc | 90.37985 |
| Genex: Option A | LeastC | rem_leastc | 525.1697 |
| Genex: Option A | LeastC | rem_leastc | 61.11363 |
| Genex: Option A | LeastC | rem_leastc | 0.189301 |
| Genex: Option A | LeastC | rem_leastc | 131.1014 |
| Genex: Option A | LeastC | rem_leastc | 1103.557 |
| Genex: Option A | LeastC | rem_leastc | 105.9817 |
| Genex: Option A | LeastC | rem_leastc | 11.87414 |
| Genex: Option A | LeastC | rem_leastc | 59.61115 |
| Genex: Option A | LeastC | rem_leastc | 21.74683 |
| Genex: Option A | LeastC | rem_leastc | 590.3104 |
| Genex: Option A | LeastC | rem_leastc | 168.4664 |
| Genex: Option A | LeastC | rem_leastc | 77.45731 |
| Genex: Option A | LeastC | rem_leastc | 149.9271 |
| Genex: Option A | LeastC | rem_leastc | 98.58277 |
| Genex: Option A | LeastC | rem_leastc | 668.4066 |
| Genex: Option A | LeastC | rem_leastc | 44.27461 |
| Genex: Option A | LeastC | rem_leastc | 1.12957 |
| Genex: Option A | LeastC | rem_leastc | 44.22081 |
| Genex: Option A | LeastC | rem_leastc | 191.8419 |
| Genex: Option A | LeastC | rem_leastc | 261.3817 |
| Genex: Option A | LeastC | rem_leastc | 29.57973 |
| Genex: Option A | LeastC | rem_leastc | 1586.245 |
| Genex: Option A | LeastC | rem_leastc | 132.7455 |
| Genex: Option A | LeastC | rem_leastc | 60.33661 |
| Genex: Option A | LeastC | rem_leastc | 94.6175 |
| Genex: Option A | LeastC | rem_leastc | 132.2248 |
| Genex: Option A | LeastC | rem_leastc | 452.7576 |
| Genex: Option A | LeastC | rem_leastc | 48.16143 |
| Genex: Option A | LeastC | rem_leastc | 25.11292 |

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|-----------------|--------|------------|----------|
| Genex: Option A | LeastC | rem_leastc | 20.66312 |
| Genex: Option A | LeastC | rem_leastc | 23.24325 |
| Genex: Option A | LeastC | rem_leastc | 15.31929 |
| Genex: Option A | LeastC | rem_leastc | 174.3232 |
| Genex: Option A | LeastC | rem_leastc | 212.8426 |
| Genex: Option A | LeastC | rem_leastc | 313.0483 |
| Genex: Option A | LeastC | rem_leastc | 1.196521 |
| Genex: Option A | LeastC | rem_leastc | 108.2252 |
| Genex: Option A | LeastC | rem_leastc | 36.09727 |
| Genex: Option A | LeastC | rem_leastc | 30.38112 |
| Genex: Option A | LeastC | rem_leastc | 8.561523 |
| Genex: Option A | LeastC | rem_leastc | 88.58386 |
| Genex: Option A | LeastC | rem_leastc | 6.175024 |
| Genex: Option A | LeastC | rem_leastc | 286.5008 |
| Genex: Option A | LeastC | rem_leastc | 42.79844 |
| Genex: Option A | LeastC | rem_leastc | 11.98431 |
| Genex: Option A | LeastC | rem_leastc | 264.8763 |
| Genex: Option A | LeastC | rem_leastc | 226.6269 |
| Genex: Option A | LeastC | rem_leastc | 58.80618 |
| Genex: Option A | LeastC | rem_leastc | 5.885673 |
| Genex: Option A | LeastC | rem_leastc | 1064.296 |
| Genex: Option A | LeastC | rem_leastc | 92.68297 |
| Genex: Option A | LeastC | rem_leastc | 20.83021 |
| Genex: Option A | LeastC | rem_leastc | 37.9357 |
| Genex: Option A | LeastC | rem_leastc | 5.468407 |
| Genex: Option A | LeastC | rem_leastc | 186.0467 |
| Genex: Option A | LeastC | rem_leastc | 49.86623 |
| Genex: Option A | LeastC | rem_leastc | 297.9879 |
| Genex: Option A | LeastC | rem_leastc | 153.8439 |
| Genex: Option A | LeastC | rem_leastc | 180.351 |
| Genex: Option A | LeastC | rem_leastc | 660.1058 |
| Genex: Option A | LeastC | rem_leastc | 18.96952 |
| Genex: Option A | LeastC | rem_leastc | 100.4104 |
| Genex: Option A | LeastC | rem_leastc | 62.69539 |
| Genex: Option A | LeastC | rem_leastc | 26.27379 |
| Genex: Option A | LeastC | rem_leastc | 161.7457 |
| Genex: Option A | LeastC | rem_leastc | 1.141023 |
| Genex: Option A | LeastC | rem_leastc | 67.52318 |
| Genex: Option A | LeastC | rem_leastc | 182.8862 |
| Genex: Option A | LeastC | rem_leastc | 34.12553 |
| Genex: Option A | LeastC | rem_leastc | 25.81363 |
| Genex: Option A | LeastC | rem_leastc | 1075.062 |
| Genex: Option A | LeastC | rem_leastc | 155.934 |
| Genex: Option A | LeastC | rem_leastc | 12.85443 |
| Genex: Option A | LeastC | rem_leastc | 3539.709 |
| Genex: Option A | LeastC | rem_leastc | 695.5142 |
| Genex: Option A | LeastC | rem_leastc | 28.58443 |
| Genex: Option A | LeastC | rem_leastc | 69.74197 |
| Genex: Option A | LeastC | rem_leastc | 0.853428 |
| Genex: Option A | LeastC | rem_leastc | 0.18627 |
| Genex: Option A | LeastC | rem_leastc | 0.001726 |
| Genex: Option A | LeastC | rem_leastc | 309.9822 |
| Genex: Option A | LeastC | rem_leastc | 11.33468 |
| Genex: Option A | LeastC | rem_leastc | 32.23451 |
| Genex: Option A | LeastC | rem_leastc | 59.20924 |
| Genex: Option A | LeastC | rem_leastc | 25.91885 |
| Genex: Option A | LeastC | rem_leastc | 39.92079 |
| Genex: Option A | LeastC | rem_leastc | 26.49348 |
| Genex: Option A | LeastC | rem_leastc | 151.5962 |
| Genex: Option A | LeastC | rem_leastc | 154.6605 |
| Genex: Option A | LeastC | rem_leastc | 226.7467 |
| Genex: Option A | LeastC | rem_leastc | 185.4138 |
| Genex: Option A | LeastC | rem_leastc | 6.451919 |
| Genex: Option A | LeastC | rem_leastc | 3.380721 |
| Genex: Option A | LeastC | rem_leastc | 473.4424 |
| Genex: Option A | LeastC | rem_leastc | 2.155563 |
| Genex: Option A | LeastC | rem_leastc | 0.978982 |
| Genex: Option A | LeastC | rem_leastc | 154.2547 |
| Genex: Option A | LeastC | rem_leastc | 912.1949 |
| Genex: Option A | LeastC | rem_leastc | 1.431118 |
| Genex: Option A | LeastC | rem_leastc | 46.05539 |
| Genex: Option A | LeastC | rem_leastc | 13.67831 |
| Genex: Option A | LeastC | rem_leastc | 0.00085 |
| Genex: Option A | LeastC | rem_leastc | 42.24882 |
| Genex: Option A | LeastC | rem_leastc | 0.250186 |
| Genex: Option A | LeastC | rem_leastc | 167.1931 |
| Genex: Option A | LeastC | rem_leastc | 18.74343 |
| Genex: Option A | LeastC | rem_leastc | 80.59614 |
| Genex: Option A | LeastC | rem_leastc | 319.192 |
| Genex: Option A | LeastC | rem_leastc | 45.31823 |

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|-----------------|--------|------------|----------|
| Genex: Option A | LeastC | rem_leastc | 68.2613 |
| Genex: Option A | LeastC | rem_leastc | 77.81073 |
| Genex: Option A | LeastC | rem_leastc | 0.388276 |
| Genex: Option A | LeastC | rem_leastc | 109.4388 |
| Genex: Option A | LeastC | rem_leastc | 1.866744 |
| Genex: Option A | LeastC | rem_leastc | 1411.093 |
| Genex: Option A | LeastC | rem_leastc | 12.58193 |
| Genex: Option A | LeastC | rem_leastc | 134.5518 |
| Genex: Option A | LeastC | rem_leastc | 972.373 |
| Genex: Option A | LeastC | rem_leastc | 24.79335 |
| Genex: Option A | LeastC | rem_leastc | 52.52491 |
| Genex: Option A | LeastC | rem_leastc | 421.2866 |
| Genex: Option A | LeastC | rem_leastc | 97.98 |
| Genex: Option A | LeastC | rem_leastc | 455.7125 |
| Genex: Option A | LeastC | rem_leastc | 1.622995 |
| Genex: Option A | LeastC | rem_leastc | 38.69352 |
| Genex: Option A | LeastC | rem_leastc | 31.32427 |
| Genex: Option A | LeastC | rem_leastc | 7.188786 |
| Genex: Option A | LeastC | rem_leastc | 235.663 |
| Genex: Option A | LeastC | rem_leastc | 301.155 |
| Genex: Option A | LeastC | rem_leastc | 27.47533 |
| Genex: Option A | LeastC | rem_leastc | 539.3737 |
| Genex: Option A | LeastC | rem_leastc | 6.576623 |
| Genex: Option A | LeastC | rem_leastc | 89.62867 |
| Genex: Option A | LeastC | rem_leastc | 4.997119 |
| Genex: Option A | LeastC | rem_leastc | 22.16766 |
| Genex: Option A | LeastC | rem_leastc | 474.5252 |
| Genex: Option A | LeastC | rem_leastc | 183.6038 |
| Genex: Option A | LeastC | rem_leastc | 256.3734 |
| Genex: Option A | LeastC | rem_leastc | 1596.657 |
| Genex: Option A | LeastC | rem_leastc | 10.11799 |
| Genex: Option A | LeastC | rem_leastc | 376.1155 |
| Genex: Option A | LeastC | rem_leastc | 591.401 |
| Genex: Option A | LeastC | rem_leastc | 187.4392 |
| Genex: Option A | LeastC | rem_leastc | 64.95695 |
| Genex: Option A | LeastC | rem_leastc | 44.80492 |
| Genex: Option A | LeastC | rem_leastc | 240.1405 |
| Genex: Option A | LeastC | rem_leastc | 0.000222 |
| Genex: Option A | LeastC | rem_leastc | 6.768497 |
| Genex: Option A | LeastC | rem_leastc | 2.94192 |
| Genex: Option A | LeastC | rem_leastc | 4.207578 |
| Genex: Option A | LeastC | rem_leastc | 1.623035 |
| Genex: Option A | LeastC | rem_leastc | 1.398633 |
| Genex: Option A | LeastC | rem_leastc | 3.79504 |
| Genex: Option A | LeastC | rem_leastc | 2.18134 |
| Genex: Option A | LeastC | rem_leastc | 8.046262 |
| Genex: Option A | LeastC | rem_leastc | 12.96229 |
| Genex: Option A | LeastC | rem_leastc | 1.289661 |
| Genex: Option A | LeastC | rem_leastc | 79.01004 |
| Genex: Option A | LeastC | rem_leastc | 0.004241 |
| Genex: Option A | LeastC | rem_leastc | 46.31915 |
| Genex: Option A | LeastC | rem_leastc | 0.037105 |
| Genex: Option A | LeastC | rem_leastc | 10.82383 |
| Genex: Option A | LeastC | rem_leastc | 0.217139 |
| Genex: Option A | LeastC | rem_leastc | 6.178431 |
| Genex: Option A | LeastC | rem_leastc | 4.681369 |
| Genex: Option A | LeastC | rem_leastc | 7.860195 |
| Genex: Option A | LeastC | rem_leastc | 55.38093 |
| Genex: Option A | LeastC | rem_leastc | 0.075479 |

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|-----------------|--------|------------|----------|
| Genex: Option A | LeastC | rem_leastc | 95.10482 |
| Genex: Option A | LeastC | rem_leastc | 81.64126 |
| Genex: Option A | LeastC | rem_leastc | 7.557274 |
| Genex: Option A | LeastC | rem_leastc | 13.22293 |
| Genex: Option A | LeastC | rem_leastc | 44.78436 |
| Genex: Option A | LeastC | rem_leastc | 23.87905 |
| Genex: Option A | LeastC | rem_leastc | 73.61523 |
| Genex: Option A | LeastC | rem_leastc | 149.9886 |
| Genex: Option A | LeastC | rem_leastc | 74.99154 |
| Genex: Option A | LeastC | rem_leastc | 3.286117 |
| Genex: Option A | LeastC | rem_leastc | 191.8055 |
| Genex: Option A | LeastC | rem_leastc | 13.39539 |
| Genex: Option A | LeastC | rem_leastc | 60.63732 |
| Genex: Option A | LeastC | rem_leastc | 137.9151 |
| Genex: Option A | LeastC | rem_leastc | 13.08896 |
| Genex: Option A | LeastC | rem_leastc | 612.04 |
| Genex: Option A | LeastC | rem_leastc | 61.22569 |
| Genex: Option A | LeastC | rem_leastc | 0.257113 |
| Genex: Option A | LeastC | rem_leastc | 4.220058 |
| Genex: Option A | LeastC | rem_leastc | 10.04527 |
| Genex: Option A | LeastC | rem_leastc | 2.741389 |
| Genex: Option A | LeastC | rem_leastc | 0.34877 |
| Genex: Option A | LeastC | rem_leastc | 0.008478 |
| Genex: Option A | LeastC | rem_leastc | 0.289362 |
| Genex: Option A | LeastC | rem_leastc | 25.32193 |
| Genex: Option A | LeastC | rem_leastc | 200.9618 |
| Genex: Option A | LeastC | rem_leastc | 53.11645 |
| Genex: Option A | LeastC | rem_leastc | 37.14543 |
| Genex: Option A | LeastC | rem_leastc | 32.21486 |
| Genex: Option A | LeastC | rem_leastc | 46.3546 |
| Genex: Option A | LeastC | rem_leastc | 0.008122 |
| Genex: Option A | LeastC | rem_leastc | 44.16289 |
| Genex: Option A | LeastC | rem_leastc | 5.923245 |
| Genex: Option A | LeastC | rem_leastc | 3.490973 |
| Genex: Option A | LeastC | rem_leastc | 131.4287 |
| Genex: Option A | LeastC | rem_leastc | 8.152129 |
| Genex: Option A | LeastC | rem_leastc | 63.09774 |
| Genex: Option A | LeastC | rem_leastc | 1.551911 |
| Genex: Option A | LeastC | rem_leastc | 6.945101 |
| Genex: Option A | LeastC | rem_leastc | 11.23512 |
| Genex: Option A | LeastC | rem_leastc | 3.025342 |
| Genex: Option A | LeastC | rem_leastc | 96.39073 |
| Genex: Option A | LeastC | rem_leastc | 15.80917 |
| Genex: Option A | LeastC | rem_leastc | 192.9281 |
| Genex: Option A | LeastC | rem_leastc | 0.037976 |
| Genex: Option A | LeastC | rem_leastc | 49.50354 |
| Genex: Option A | LeastC | rem_leastc | 125.1382 |
| Genex: Option A | LeastC | rem_leastc | 20.527 |
| Genex: Option A | LeastC | rem_leastc | 2.774712 |
| Genex: Option A | LeastC | rem_leastc | 102.0444 |
| Genex: Option A | LeastC | rem_leastc | 4.059098 |
| Genex: Option A | LeastC | rem_leastc | 0.453452 |
| Genex: Option A | LeastC | rem_leastc | 12.2734 |
| Genex: Option A | LeastC | rem_leastc | 8.720471 |
| Genex: Option A | LeastC | rem_leastc | 9.605091 |
| Genex: Option A | LeastC | rem_leastc | 0.326735 |
| Genex: Option A | LeastC | rem_leastc | 0.727728 |
| Genex: Option A | LeastC | rem_leastc | 0.288437 |
| Genex: Option A | LeastC | rem_leastc | 13.82986 |
| Genex: Option A | LeastC | rem_leastc | 57.22385 |
| Genex: Option A | LeastC | rem_leastc | 4.842688 |
| Genex: Option A | LeastC | rem_leastc | 32.01963 |
| Genex: Option A | LeastC | rem_leastc | 0.78514 |
| Genex: Option A | LeastC | rem_leastc | 31.26611 |
| Genex: Option A | LeastC | rem_leastc | 0.826022 |
| Genex: Option A | LeastC | rem_leastc | 0.584156 |
| Genex: Option A | LeastC | rem_leastc | 0.600281 |
| Genex: Option A | LeastC | rem_leastc | 6.922604 |
| Genex: Option A | LeastC | rem_leastc | 51.43218 |
| Genex: Option A | LeastC | rem_leastc | 133.6165 |
| Genex: Option A | LeastC | rem_leastc | 10.23287 |

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|-----------------|-------|--------|----------|------|-----------------------------------|
| Genex: Option A | O-dom | rem_oc | 100.3972 | 2059 | Total OC-dom remnant for Option A |
| Genex: Option A | O-dom | rem_oc | 694.5312 | | |
| Genex: Option A | O-dom | rem_oc | 33.51078 | | |
| Genex: Option A | O-dom | rem_oc | 118.4246 | | |
| Genex: Option A | O-dom | rem_oc | 23.384 | | |
| Genex: Option A | O-dom | rem_oc | 3.956503 | | |
| Genex: Option A | O-dom | rem_oc | 0.446083 | | |
| Genex: Option A | O-dom | rem_oc | 7.45513 | | |
| Genex: Option A | O-dom | rem_oc | 0.589727 | | |
| Genex: Option A | O-dom | rem_oc | 21.69239 | | |
| Genex: Option A | O-dom | rem_oc | 16.01724 | | |
| Genex: Option A | O-dom | rem_oc | 0.000035 | | |
| Genex: Option A | O-dom | rem_oc | 3.368585 | | |
| Genex: Option A | O-dom | rem_oc | 7.426551 | | |
| Genex: Option A | O-dom | rem_oc | 6.518863 | | |
| Genex: Option A | O-dom | rem_oc | 3.000528 | | |
| Genex: Option A | O-dom | rem_oc | 6.153842 | | |
| Genex: Option A | O-dom | rem_oc | 26.12089 | | |
| Genex: Option A | O-dom | rem_oc | 0.000001 | | |
| Genex: Option A | O-dom | rem_oc | 103.7197 | | |
| Genex: Option A | O-dom | rem_oc | 31.74373 | | |
| Genex: Option A | O-dom | rem_oc | 0.297039 | | |
| Genex: Option A | O-dom | rem_oc | 1.185374 | | |
| Genex: Option A | O-dom | rem_oc | 0.483261 | | |
| Genex: Option A | O-dom | rem_oc | 3.211757 | | |
| Genex: Option A | O-dom | rem_oc | 1.2572 | | |
| Genex: Option A | O-dom | rem_oc | 8.687105 | | |
| Genex: Option A | O-dom | rem_oc | 1.990018 | | |
| Genex: Option A | O-dom | rem_oc | 0.630736 | | |
| Genex: Option A | O-dom | rem_oc | 14.58421 | | |
| Genex: Option A | O-dom | rem_oc | 0.181752 | | |
| Genex: Option A | O-dom | rem_oc | 0.483626 | | |
| Genex: Option A | O-dom | rem_oc | 17.55465 | | |
| Genex: Option A | O-dom | rem_oc | 1.414196 | | |
| Genex: Option A | O-dom | rem_oc | 6.715692 | | |
| Genex: Option A | O-dom | rem_oc | 0 | | |
| Genex: Option A | O-dom | rem_oc | 0.000082 | | |
| Genex: Option A | O-dom | rem_oc | 0.946609 | | |
| Genex: Option A | O-dom | rem_oc | 1.013452 | | |
| Genex: Option A | O-dom | rem_oc | 0.720073 | | |
| Genex: Option A | O-dom | rem_oc | 1.988208 | | |
| Genex: Option A | O-dom | rem_oc | 5.081188 | | |
| Genex: Option A | O-dom | rem_oc | 6.756952 | | |
| Genex: Option A | O-dom | rem_oc | 86.20428 | | |
| Genex: Option A | O-dom | rem_oc | 14.47359 | | |
| Genex: Option A | O-dom | rem_oc | 9.568996 | | |
| Genex: Option A | O-dom | rem_oc | 27.99034 | | |
| Genex: Option A | O-dom | rem_oc | 47.06895 | | |
| Genex: Option A | O-dom | rem_oc | 0.925363 | | |
| Genex: Option A | O-dom | rem_oc | 0.182819 | | |
| Genex: Option A | O-dom | rem_oc | 0.144678 | | |
| Genex: Option A | O-dom | rem_oc | 8.038469 | | |
| Genex: Option A | O-dom | rem_oc | 0.001118 | | |
| Genex: Option A | O-dom | rem_oc | 5.780518 | | |
| Genex: Option A | O-dom | rem_oc | 2.728088 | | |
| Genex: Option A | O-dom | rem_oc | 0.792089 | | |
| Genex: Option A | O-dom | rem_oc | 2.647043 | | |
| Genex: Option A | O-dom | rem_oc | 1.321795 | | |
| Genex: Option A | O-dom | rem_oc | 1.075075 | | |
| Genex: Option A | O-dom | rem_oc | 5.615905 | | |
| Genex: Option A | O-dom | rem_oc | 11.75996 | | |
| Genex: Option A | O-dom | rem_oc | 1.028013 | | |
| Genex: Option A | O-dom | rem_oc | 4.05067 | | |
| Genex: Option A | O-dom | rem_oc | 9.522925 | | |
| Genex: Option A | O-dom | rem_oc | 0.001392 | | |
| Genex: Option A | O-dom | rem_oc | 0.003394 | | |
| Genex: Option A | O-dom | rem_oc | 20.59073 | | |
| Genex: Option A | O-dom | rem_oc | 0.001035 | | |
| Genex: Option A | O-dom | rem_oc | 33.69548 | | |
| Genex: Option A | O-dom | rem_oc | 1.381382 | | |
| Genex: Option A | O-dom | rem_oc | 0.928588 | | |
| Genex: Option A | O-dom | rem_oc | 0.4135 | | |
| Genex: Option A | O-dom | rem_oc | 3.286292 | | |
| Genex: Option A | O-dom | rem_oc | 0.813393 | | |
| Genex: Option A | O-dom | rem_oc | 4.770736 | | |
| Genex: Option A | O-dom | rem_oc | 21.60491 | | |
| Genex: Option A | O-dom | rem_oc | 1.561019 | | |
| Genex: Option A | O-dom | rem_oc | 2.309776 | | |
| Genex: Option A | O-dom | rem_oc | 9.712734 | | |
| Genex: Option A | O-dom | rem_oc | 5.799722 | | |

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|-----------------|----------|--------|----------|---|
| Genex: Option A | O-dom | rem_oc | 1.058237 | |
| Genex: Option A | O-dom | rem_oc | 0.046029 | |
| Genex: Option A | O-dom | rem_oc | 4.964713 | |
| Genex: Option A | O-dom | rem_oc | 5.369112 | |
| Genex: Option A | O-dom | rem_oc | 5.718127 | |
| Genex: Option A | O-dom | rem_oc | 2.128498 | |
| Genex: Option A | O-dom | rem_oc | 1.30439 | |
| Genex: Option A | O-dom | rem_oc | 14.87732 | |
| Genex: Option A | O-dom | rem_oc | 48.60826 | |
| Genex: Option A | O-dom | rem_oc | 0.43457 | |
| Genex: Option A | O-dom | rem_oc | 58.61665 | |
| Genex: Option A | O-dom | rem_oc | 62.13515 | |
| Genex: Option A | O-dom | rem_oc | 4.286207 | |
| Genex: Option A | O-dom | rem_oc | 8.433967 | |
| Genex: Option A | O-dom | rem_oc | 4.418017 | |
| Genex: Option A | O-dom | rem_oc | 0.816551 | |
| Genex: Option A | O-dom | rem_oc | 1.360325 | |
| Genex: Option A | O-dom | rem_oc | 0.61658 | |
| Genex: Option A | O-dom | rem_oc | 0.594068 | |
| Genex: Option A | O-dom | rem_oc | 9.111942 | |
| Genex: Option A | O-dom | rem_oc | 8.567498 | |
| Genex: Option A | O-dom | rem_oc | 5.563262 | |
| Genex: Option A | O-dom | rem_oc | 58.10314 | |
| Genex: Option A | O-dom | rem_oc | 11.76356 | |
| Genex: Option A | O-dom | rem_oc | 15.50552 | |
| Genex: Option A | O-dom | rem_oc | 4.488126 | |
| Genex: Option A | O-dom | rem_oc | 3.278022 | |
| Genex: Option A | O-dom | rem_oc | 3.436123 | |
| Genex: Option A | O-dom | rem_oc | 11.64185 | |
| Genex: Option A | O-dom | rem_oc | 18.22205 | |
| Genex: Option A | O-dom | rem_oc | 0.0018 | |
| Genex: Option A | O-dom | rem_oc | 4.444007 | |
| Genex: Option A | O-dom | rem_oc | 6.059981 | |
| Genex: Option A | O-dom | rem_oc | 0.338932 | |
| Genex: Option A | O-dom | rem_oc | 15.98738 | |
| Genex: Option A | O-dom | rem_oc | 0.645188 | |
| Genex: Option A | O-dom | rem_oc | 3.072902 | |
| Genex: Option A | O-dom | rem_oc | 0.000344 | |
| Genex: Option A | O-dom | rem_oc | 9.199158 | |
| Genex: Option A | O-dom | rem_oc | 6.182994 | |
| Genex: Option A | O-dom | rem_oc | 6.221117 | |
| Genex: Option A | O-subdom | rem_oc | 20.80435 | 1008 Total OC-subdom remnant for Option A |
| Genex: Option A | O-subdom | rem_oc | 130.6595 | |
| Genex: Option A | O-subdom | rem_oc | 345.7833 | |
| Genex: Option A | O-subdom | rem_oc | 48.92495 | |
| Genex: Option A | O-subdom | rem_oc | 18.5864 | |
| Genex: Option A | O-subdom | rem_oc | 348.0027 | |
| Genex: Option A | O-subdom | rem_oc | 95.19846 | |

Kidston Corridor Option B - Regional ecosystems v8

| Name | VM_POLY | VM_STATUS | Area_ha | |
|-----------------|---------|------------|----------|------------------------------------|
| Genex: Option B | LeastC | hvr_leastc | 11.76166 | 202 Total LC regrowth for Option B |
| Genex: Option B | LeastC | hvr_leastc | 0.071373 | |
| Genex: Option B | LeastC | hvr_leastc | 0.032936 | |
| Genex: Option B | LeastC | hvr_leastc | 0.275677 | |
| Genex: Option B | LeastC | hvr_leastc | 4.030559 | |
| Genex: Option B | LeastC | hvr_leastc | 4.565859 | |
| Genex: Option B | LeastC | hvr_leastc | 2.294056 | |
| Genex: Option B | LeastC | hvr_leastc | 1.055631 | |
| Genex: Option B | LeastC | hvr_leastc | 1.583837 | |
| Genex: Option B | LeastC | hvr_leastc | 4.886182 | |
| Genex: Option B | LeastC | hvr_leastc | 0.483842 | |
| Genex: Option B | LeastC | hvr_leastc | 0.022396 | |
| Genex: Option B | LeastC | hvr_leastc | 16.55398 | |
| Genex: Option B | LeastC | hvr_leastc | 0.847925 | |
| Genex: Option B | LeastC | hvr_leastc | 0.452182 | |
| Genex: Option B | LeastC | hvr_leastc | 0.355135 | |
| Genex: Option B | LeastC | hvr_leastc | 1.329568 | |
| Genex: Option B | LeastC | hvr_leastc | 7.449196 | |
| Genex: Option B | LeastC | hvr_leastc | 10.2054 | |
| Genex: Option B | LeastC | hvr_leastc | 0.252609 | |
| Genex: Option B | LeastC | hvr_leastc | 0.004932 | |
| Genex: Option B | LeastC | hvr_leastc | 2.193916 | |
| Genex: Option B | LeastC | hvr_leastc | 0.628194 | |
| Genex: Option B | LeastC | hvr_leastc | 4.798001 | |
| Genex: Option B | LeastC | hvr_leastc | 4.892764 | |
| Genex: Option B | LeastC | hvr_leastc | 0.857374 | |
| Genex: Option B | LeastC | hvr_leastc | 0.016948 | |
| Genex: Option B | LeastC | hvr_leastc | 0.026688 | |
| Genex: Option B | LeastC | hvr_leastc | 0.489348 | |
| Genex: Option B | LeastC | hvr_leastc | 0.001268 | |
| Genex: Option B | LeastC | hvr_leastc | 0.733646 | |
| Genex: Option B | LeastC | hvr_leastc | 0.001018 | |
| Genex: Option B | LeastC | hvr_leastc | 2.958507 | |
| Genex: Option B | LeastC | hvr_leastc | 2.596304 | |
| Genex: Option B | LeastC | hvr_leastc | 2.274126 | |
| Genex: Option B | LeastC | hvr_leastc | 0.860982 | |
| Genex: Option B | LeastC | hvr_leastc | 0.17804 | |
| Genex: Option B | LeastC | hvr_leastc | 1.002297 | |
| Genex: Option B | LeastC | hvr_leastc | 0.00441 | |
| Genex: Option B | LeastC | hvr_leastc | 13.17734 | |
| Genex: Option B | LeastC | hvr_leastc | 0.224692 | |
| Genex: Option B | LeastC | hvr_leastc | 1.836962 | |
| Genex: Option B | LeastC | hvr_leastc | 0.523549 | |
| Genex: Option B | LeastC | hvr_leastc | 5.202041 | |
| Genex: Option B | LeastC | hvr_leastc | 0.41416 | |
| Genex: Option B | LeastC | hvr_leastc | 0.004426 | |
| Genex: Option B | LeastC | hvr_leastc | 0.175718 | |
| Genex: Option B | LeastC | hvr_leastc | 1.371884 | |
| Genex: Option B | LeastC | hvr_leastc | 0.720414 | |
| Genex: Option B | LeastC | hvr_leastc | 0.086502 | |
| Genex: Option B | LeastC | hvr_leastc | 0.349904 | |
| Genex: Option B | LeastC | hvr_leastc | 9.197092 | |
| Genex: Option B | LeastC | hvr_leastc | 2.849699 | |
| Genex: Option B | LeastC | hvr_leastc | 1.297257 | |
| Genex: Option B | LeastC | hvr_leastc | 63.51923 | |
| Genex: Option B | LeastC | hvr_leastc | 0.000024 | |
| Genex: Option B | LeastC | hvr_leastc | 0.000132 | |
| Genex: Option B | LeastC | hvr_leastc | 0.000386 | |
| Genex: Option B | LeastC | hvr_leastc | 2.657052 | |
| Genex: Option B | LeastC | hvr_leastc | 1.646678 | |
| Genex: Option B | LeastC | hvr_leastc | 3.808301 | |
| Genex: Option B | LeastC | hvr_leastc | 0.001706 | |

| | | | | | |
|-----------------|---------|-------------|----------|-------|--|
| Genex: Option B | O-dom | hvr_oc | 0.888013 | 2.4 | Total OC-dom HVR regrowth for Option B |
| Genex: Option B | O-dom | hvr_oc | 0.034724 | | |
| Genex: Option B | O-dom | hvr_oc | 0.084695 | | |
| Genex: Option B | O-dom | hvr_oc | 0.476706 | | |
| Genex: Option B | O-dom | hvr_oc | 0.890819 | | |
| Genex: Option B | non-rem | non_remnant | 12.82744 | 2379 | Total non-remnant for Option B |
| Genex: Option B | non-rem | non_remnant | 1.191201 | | |
| Genex: Option B | non-rem | non_remnant | 3.098019 | | |
| Genex: Option B | non-rem | non_remnant | 6.002011 | | |
| Genex: Option B | non-rem | non_remnant | 10.64987 | | |
| Genex: Option B | non-rem | non_remnant | 18.11507 | | |
| Genex: Option B | non-rem | non_remnant | 7.444218 | | |
| Genex: Option B | non-rem | non_remnant | 103.7112 | | |
| Genex: Option B | non-rem | non_remnant | 1.27489 | | |
| Genex: Option B | non-rem | non_remnant | 1.573922 | | |
| Genex: Option B | non-rem | non_remnant | 0.416775 | | |
| Genex: Option B | non-rem | non_remnant | 0.284209 | | |
| Genex: Option B | non-rem | non_remnant | 0.934327 | | |
| Genex: Option B | non-rem | non_remnant | 32.73321 | | |
| Genex: Option B | non-rem | non_remnant | 0.21711 | | |
| Genex: Option B | non-rem | non_remnant | 7.341556 | | |
| Genex: Option B | non-rem | non_remnant | 1.536304 | | |
| Genex: Option B | non-rem | non_remnant | 1.624022 | | |
| Genex: Option B | non-rem | non_remnant | 1.525838 | | |
| Genex: Option B | non-rem | non_remnant | 6.35254 | | |
| Genex: Option B | non-rem | non_remnant | 0.311335 | | |
| Genex: Option B | non-rem | non_remnant | 7.245895 | | |
| Genex: Option B | non-rem | non_remnant | 8.656713 | | |
| Genex: Option B | non-rem | non_remnant | 0.284912 | | |
| Genex: Option B | non-rem | non_remnant | 0.799373 | | |
| Genex: Option B | non-rem | non_remnant | 1.586069 | | |
| Genex: Option B | non-rem | non_remnant | 393.879 | | |
| Genex: Option B | non-rem | non_remnant | 106.2974 | | |
| Genex: Option B | non-rem | non_remnant | 3.895228 | | |
| Genex: Option B | non-rem | non_remnant | 288.9389 | | |
| Genex: Option B | non-rem | non_remnant | 4.258125 | | |
| Genex: Option B | non-rem | non_remnant | 0.056622 | | |
| Genex: Option B | non-rem | non_remnant | 0.167595 | | |
| Genex: Option B | non-rem | non_remnant | 0.535546 | | |
| Genex: Option B | non-rem | non_remnant | 0.756154 | | |
| Genex: Option B | non-rem | non_remnant | 103.4499 | | |
| Genex: Option B | non-rem | non_remnant | 6.867542 | | |
| Genex: Option B | non-rem | non_remnant | 347.132 | | |
| Genex: Option B | non-rem | non_remnant | 0.000275 | | |
| Genex: Option B | non-rem | non_remnant | 0.000386 | | |
| Genex: Option B | non-rem | non_remnant | 0.234067 | | |
| Genex: Option B | non-rem | non_remnant | 282.7614 | | |
| Genex: Option B | non-rem | non_remnant | 0.000204 | | |
| Genex: Option B | non-rem | non_remnant | 0.000074 | | |
| Genex: Option B | non-rem | non_remnant | 8.914747 | | |
| Genex: Option B | non-rem | non_remnant | 1.286566 | | |
| Genex: Option B | non-rem | non_remnant | 1.685735 | | |
| Genex: Option B | non-rem | non_remnant | 0.526879 | | |
| Genex: Option B | non-rem | non_remnant | 0.121333 | | |
| Genex: Option B | non-rem | non_remnant | 3.735213 | | |
| Genex: Option B | non-rem | non_remnant | 117.347 | | |
| Genex: Option B | non-rem | non_remnant | 468.6799 | | |
| Genex: Option B | non-rem | non_remnant | 0.001706 | | |
| Genex: Option B | water | non_remnant | 87.63232 | 117 | Total water non-remnant for Option B |
| Genex: Option B | water | non_remnant | 0.341308 | | |
| Genex: Option B | water | non_remnant | 11.9254 | | |
| Genex: Option B | water | non_remnant | 17.22085 | | |
| Genex: Option B | LeastC | rem_leastc | 26.95741 | 51121 | Total LC remnant for Option B |
| Genex: Option B | LeastC | rem_leastc | 7.493854 | | |
| Genex: Option B | LeastC | rem_leastc | 255.6705 | | |
| Genex: Option B | LeastC | rem_leastc | 99.21011 | | |
| Genex: Option B | LeastC | rem_leastc | 337.5413 | | |
| Genex: Option B | LeastC | rem_leastc | 19.5728 | | |
| Genex: Option B | LeastC | rem_leastc | 2.196989 | | |
| Genex: Option B | LeastC | rem_leastc | 156.2433 | | |

| | | | |
|-----------------|--------|------------|----------|
| Genex: Option B | LeastC | rem_leastc | 2.363897 |
| Genex: Option B | LeastC | rem_leastc | 59.46574 |
| Genex: Option B | LeastC | rem_leastc | 326.0669 |
| Genex: Option B | LeastC | rem_leastc | 42.58946 |
| Genex: Option B | LeastC | rem_leastc | 79.24012 |
| Genex: Option B | LeastC | rem_leastc | 3.026556 |
| Genex: Option B | LeastC | rem_leastc | 14.37214 |
| Genex: Option B | LeastC | rem_leastc | 79.46571 |
| Genex: Option B | LeastC | rem_leastc | 169.7709 |
| Genex: Option B | LeastC | rem_leastc | 188.8082 |
| Genex: Option B | LeastC | rem_leastc | 1.809083 |
| Genex: Option B | LeastC | rem_leastc | 4.936312 |
| Genex: Option B | LeastC | rem_leastc | 41.46687 |
| Genex: Option B | LeastC | rem_leastc | 26.04 |
| Genex: Option B | LeastC | rem_leastc | 28.90649 |
| Genex: Option B | LeastC | rem_leastc | 55.9325 |
| Genex: Option B | LeastC | rem_leastc | 3.377138 |
| Genex: Option B | LeastC | rem_leastc | 13.57611 |
| Genex: Option B | LeastC | rem_leastc | 92.17016 |
| Genex: Option B | LeastC | rem_leastc | 27.56209 |
| Genex: Option B | LeastC | rem_leastc | 24.13472 |
| Genex: Option B | LeastC | rem_leastc | 36.77539 |
| Genex: Option B | LeastC | rem_leastc | 26.5067 |
| Genex: Option B | LeastC | rem_leastc | 0.114053 |
| Genex: Option B | LeastC | rem_leastc | 90.00732 |
| Genex: Option B | LeastC | rem_leastc | 8.935729 |
| Genex: Option B | LeastC | rem_leastc | 62.61951 |
| Genex: Option B | LeastC | rem_leastc | 502.94 |
| Genex: Option B | LeastC | rem_leastc | 41.45126 |
| Genex: Option B | LeastC | rem_leastc | 27.55622 |
| Genex: Option B | LeastC | rem_leastc | 457.4285 |
| Genex: Option B | LeastC | rem_leastc | 604.3354 |
| Genex: Option B | LeastC | rem_leastc | 13.58892 |
| Genex: Option B | LeastC | rem_leastc | 23.97449 |
| Genex: Option B | LeastC | rem_leastc | 1.36276 |
| Genex: Option B | LeastC | rem_leastc | 41.44455 |
| Genex: Option B | LeastC | rem_leastc | 766.9081 |
| Genex: Option B | LeastC | rem_leastc | 7.498845 |
| Genex: Option B | LeastC | rem_leastc | 1.855243 |
| Genex: Option B | LeastC | rem_leastc | 98.11036 |
| Genex: Option B | LeastC | rem_leastc | 11.92043 |
| Genex: Option B | LeastC | rem_leastc | 2.674089 |
| Genex: Option B | LeastC | rem_leastc | 421.3659 |
| Genex: Option B | LeastC | rem_leastc | 15.33338 |
| Genex: Option B | LeastC | rem_leastc | 0.033028 |
| Genex: Option B | LeastC | rem_leastc | 15.38248 |
| Genex: Option B | LeastC | rem_leastc | 602.6281 |
| Genex: Option B | LeastC | rem_leastc | 539.0101 |
| Genex: Option B | LeastC | rem_leastc | 45.58743 |
| Genex: Option B | LeastC | rem_leastc | 54.55858 |
| Genex: Option B | LeastC | rem_leastc | 26.25275 |
| Genex: Option B | LeastC | rem_leastc | 24.49658 |
| Genex: Option B | LeastC | rem_leastc | 4.012632 |
| Genex: Option B | LeastC | rem_leastc | 32.58558 |
| Genex: Option B | LeastC | rem_leastc | 2.735045 |
| Genex: Option B | LeastC | rem_leastc | 329.6436 |
| Genex: Option B | LeastC | rem_leastc | 78.50426 |
| Genex: Option B | LeastC | rem_leastc | 15.35245 |
| Genex: Option B | LeastC | rem_leastc | 50.55502 |
| Genex: Option B | LeastC | rem_leastc | 54.24811 |
| Genex: Option B | LeastC | rem_leastc | 106.3064 |
| Genex: Option B | LeastC | rem_leastc | 215.6079 |
| Genex: Option B | LeastC | rem_leastc | 2.555068 |
| Genex: Option B | LeastC | rem_leastc | 13.52695 |
| Genex: Option B | LeastC | rem_leastc | 100.1217 |
| Genex: Option B | LeastC | rem_leastc | 267.2011 |
| Genex: Option B | LeastC | rem_leastc | 7.561765 |
| Genex: Option B | LeastC | rem_leastc | 563.416 |
| Genex: Option B | LeastC | rem_leastc | 13.37656 |
| Genex: Option B | LeastC | rem_leastc | 698.7491 |
| Genex: Option B | LeastC | rem_leastc | 6.465764 |
| Genex: Option B | LeastC | rem_leastc | 43.71799 |
| Genex: Option B | LeastC | rem_leastc | 426.9156 |
| Genex: Option B | LeastC | rem_leastc | 142.4977 |
| Genex: Option B | LeastC | rem_leastc | 36.24586 |
| Genex: Option B | LeastC | rem_leastc | 0.351853 |
| Genex: Option B | LeastC | rem_leastc | 12.18548 |
| Genex: Option B | LeastC | rem_leastc | 39.95127 |

| | | | |
|-----------------|--------|------------|----------|
| Genex: Option B | LeastC | rem_leastc | 43.78872 |
| Genex: Option B | LeastC | rem_leastc | 16.76179 |
| Genex: Option B | LeastC | rem_leastc | 236.8411 |
| Genex: Option B | LeastC | rem_leastc | 45.65808 |
| Genex: Option B | LeastC | rem_leastc | 33.08399 |
| Genex: Option B | LeastC | rem_leastc | 18.19931 |
| Genex: Option B | LeastC | rem_leastc | 74.95996 |
| Genex: Option B | LeastC | rem_leastc | 6.095082 |
| Genex: Option B | LeastC | rem_leastc | 77.06789 |
| Genex: Option B | LeastC | rem_leastc | 80.45791 |
| Genex: Option B | LeastC | rem_leastc | 1.01019 |
| Genex: Option B | LeastC | rem_leastc | 72.92622 |
| Genex: Option B | LeastC | rem_leastc | 82.15856 |
| Genex: Option B | LeastC | rem_leastc | 368.5145 |
| Genex: Option B | LeastC | rem_leastc | 53.66492 |
| Genex: Option B | LeastC | rem_leastc | 40.47175 |
| Genex: Option B | LeastC | rem_leastc | 88.70847 |
| Genex: Option B | LeastC | rem_leastc | 17.2582 |
| Genex: Option B | LeastC | rem_leastc | 40.4714 |
| Genex: Option B | LeastC | rem_leastc | 30.47152 |
| Genex: Option B | LeastC | rem_leastc | 4.376344 |
| Genex: Option B | LeastC | rem_leastc | 349.1754 |
| Genex: Option B | LeastC | rem_leastc | 45.56187 |
| Genex: Option B | LeastC | rem_leastc | 366.7211 |
| Genex: Option B | LeastC | rem_leastc | 27.30528 |
| Genex: Option B | LeastC | rem_leastc | 237.8945 |
| Genex: Option B | LeastC | rem_leastc | 28.61304 |
| Genex: Option B | LeastC | rem_leastc | 21.1362 |
| Genex: Option B | LeastC | rem_leastc | 144.4847 |
| Genex: Option B | LeastC | rem_leastc | 110.4779 |
| Genex: Option B | LeastC | rem_leastc | 30.2618 |
| Genex: Option B | LeastC | rem_leastc | 9.529117 |
| Genex: Option B | LeastC | rem_leastc | 369.3495 |
| Genex: Option B | LeastC | rem_leastc | 302.0024 |
| Genex: Option B | LeastC | rem_leastc | 221.8051 |
| Genex: Option B | LeastC | rem_leastc | 394.3924 |
| Genex: Option B | LeastC | rem_leastc | 813.6089 |
| Genex: Option B | LeastC | rem_leastc | 1336.278 |
| Genex: Option B | LeastC | rem_leastc | 6.820337 |
| Genex: Option B | LeastC | rem_leastc | 42.57597 |
| Genex: Option B | LeastC | rem_leastc | 190.512 |
| Genex: Option B | LeastC | rem_leastc | 70.1625 |
| Genex: Option B | LeastC | rem_leastc | 338.8364 |
| Genex: Option B | LeastC | rem_leastc | 4.722484 |
| Genex: Option B | LeastC | rem_leastc | 12.75251 |
| Genex: Option B | LeastC | rem_leastc | 11.71659 |
| Genex: Option B | LeastC | rem_leastc | 11.7374 |
| Genex: Option B | LeastC | rem_leastc | 5.838685 |
| Genex: Option B | LeastC | rem_leastc | 19.6216 |
| Genex: Option B | LeastC | rem_leastc | 12.0518 |
| Genex: Option B | LeastC | rem_leastc | 6.919189 |
| Genex: Option B | LeastC | rem_leastc | 54.14043 |
| Genex: Option B | LeastC | rem_leastc | 19.80428 |
| Genex: Option B | LeastC | rem_leastc | 78.62039 |
| Genex: Option B | LeastC | rem_leastc | 15.51213 |
| Genex: Option B | LeastC | rem_leastc | 117.7604 |
| Genex: Option B | LeastC | rem_leastc | 165.1769 |
| Genex: Option B | LeastC | rem_leastc | 197.739 |
| Genex: Option B | LeastC | rem_leastc | 482.4364 |
| Genex: Option B | LeastC | rem_leastc | 66.28895 |
| Genex: Option B | LeastC | rem_leastc | 0.199872 |
| Genex: Option B | LeastC | rem_leastc | 21.28374 |
| Genex: Option B | LeastC | rem_leastc | 219.6841 |
| Genex: Option B | LeastC | rem_leastc | 76.77679 |
| Genex: Option B | LeastC | rem_leastc | 10.29573 |
| Genex: Option B | LeastC | rem_leastc | 380.5413 |
| Genex: Option B | LeastC | rem_leastc | 92.48148 |
| Genex: Option B | LeastC | rem_leastc | 6.691739 |
| Genex: Option B | LeastC | rem_leastc | 526.1154 |
| Genex: Option B | LeastC | rem_leastc | 428.0187 |
| Genex: Option B | LeastC | rem_leastc | 27.47299 |
| Genex: Option B | LeastC | rem_leastc | 34.75991 |
| Genex: Option B | LeastC | rem_leastc | 216.618 |
| Genex: Option B | LeastC | rem_leastc | 2.482518 |
| Genex: Option B | LeastC | rem_leastc | 192.9534 |
| Genex: Option B | LeastC | rem_leastc | 108.3536 |
| Genex: Option B | LeastC | rem_leastc | 14.38084 |
| Genex: Option B | LeastC | rem_leastc | 43.44386 |

| | | | |
|-----------------|--------|------------|----------|
| Genex: Option B | LeastC | rem_leastc | 0.004241 |
| Genex: Option B | LeastC | rem_leastc | 193.8193 |
| Genex: Option B | LeastC | rem_leastc | 183.4683 |
| Genex: Option B | LeastC | rem_leastc | 105.8241 |
| Genex: Option B | LeastC | rem_leastc | 30.87396 |
| Genex: Option B | LeastC | rem_leastc | 437.6609 |
| Genex: Option B | LeastC | rem_leastc | 26.50336 |
| Genex: Option B | LeastC | rem_leastc | 43.01024 |
| Genex: Option B | LeastC | rem_leastc | 2.674355 |
| Genex: Option B | LeastC | rem_leastc | 145.642 |
| Genex: Option B | LeastC | rem_leastc | 45.83799 |
| Genex: Option B | LeastC | rem_leastc | 1.750816 |
| Genex: Option B | LeastC | rem_leastc | 7.330887 |
| Genex: Option B | LeastC | rem_leastc | 80.91222 |
| Genex: Option B | LeastC | rem_leastc | 285.9006 |
| Genex: Option B | LeastC | rem_leastc | 1.802566 |
| Genex: Option B | LeastC | rem_leastc | 59.32959 |
| Genex: Option B | LeastC | rem_leastc | 12.23004 |
| Genex: Option B | LeastC | rem_leastc | 8.971527 |
| Genex: Option B | LeastC | rem_leastc | 13.00588 |
| Genex: Option B | LeastC | rem_leastc | 3.75467 |
| Genex: Option B | LeastC | rem_leastc | 178.9832 |
| Genex: Option B | LeastC | rem_leastc | 107.5745 |
| Genex: Option B | LeastC | rem_leastc | 61.24909 |
| Genex: Option B | LeastC | rem_leastc | 88.93272 |
| Genex: Option B | LeastC | rem_leastc | 8.600226 |
| Genex: Option B | LeastC | rem_leastc | 42.1064 |
| Genex: Option B | LeastC | rem_leastc | 526.2937 |
| Genex: Option B | LeastC | rem_leastc | 4.800436 |
| Genex: Option B | LeastC | rem_leastc | 12.7743 |
| Genex: Option B | LeastC | rem_leastc | 18.0793 |
| Genex: Option B | LeastC | rem_leastc | 70.34255 |
| Genex: Option B | LeastC | rem_leastc | 47.25853 |
| Genex: Option B | LeastC | rem_leastc | 289.9992 |
| Genex: Option B | LeastC | rem_leastc | 2.945584 |
| Genex: Option B | LeastC | rem_leastc | 0.027143 |
| Genex: Option B | LeastC | rem_leastc | 22.94944 |
| Genex: Option B | LeastC | rem_leastc | 241.1351 |
| Genex: Option B | LeastC | rem_leastc | 0.037105 |
| Genex: Option B | LeastC | rem_leastc | 1.018066 |
| Genex: Option B | LeastC | rem_leastc | 148.4483 |
| Genex: Option B | LeastC | rem_leastc | 1.735207 |
| Genex: Option B | LeastC | rem_leastc | 200.3061 |
| Genex: Option B | LeastC | rem_leastc | 6.178431 |
| Genex: Option B | LeastC | rem_leastc | 0.283346 |
| Genex: Option B | LeastC | rem_leastc | 63.82911 |
| Genex: Option B | LeastC | rem_leastc | 9.483077 |
| Genex: Option B | LeastC | rem_leastc | 5.112733 |
| Genex: Option B | LeastC | rem_leastc | 42.39342 |
| Genex: Option B | LeastC | rem_leastc | 217.1046 |
| Genex: Option B | LeastC | rem_leastc | 274.7574 |
| Genex: Option B | LeastC | rem_leastc | 44.75944 |
| Genex: Option B | LeastC | rem_leastc | 34.00366 |
| Genex: Option B | LeastC | rem_leastc | 15.84078 |
| Genex: Option B | LeastC | rem_leastc | 44.64747 |
| Genex: Option B | LeastC | rem_leastc | 122.9537 |
| Genex: Option B | LeastC | rem_leastc | 566.3628 |
| Genex: Option B | LeastC | rem_leastc | 14.21165 |
| Genex: Option B | LeastC | rem_leastc | 28.92059 |
| Genex: Option B | LeastC | rem_leastc | 237.4161 |
| Genex: Option B | LeastC | rem_leastc | 82.96334 |
| Genex: Option B | LeastC | rem_leastc | 60.5029 |
| Genex: Option B | LeastC | rem_leastc | 45.99594 |
| Genex: Option B | LeastC | rem_leastc | 87.13361 |
| Genex: Option B | LeastC | rem_leastc | 54.99165 |
| Genex: Option B | LeastC | rem_leastc | 47.59365 |
| Genex: Option B | LeastC | rem_leastc | 1.813457 |
| Genex: Option B | LeastC | rem_leastc | 14.67879 |
| Genex: Option B | LeastC | rem_leastc | 36.05249 |
| Genex: Option B | LeastC | rem_leastc | 345.0211 |
| Genex: Option B | LeastC | rem_leastc | 166.6805 |
| Genex: Option B | LeastC | rem_leastc | 543.976 |
| Genex: Option B | LeastC | rem_leastc | 7.497423 |
| Genex: Option B | LeastC | rem_leastc | 441.0962 |
| Genex: Option B | LeastC | rem_leastc | 13.40562 |
| Genex: Option B | LeastC | rem_leastc | 1.641803 |
| Genex: Option B | LeastC | rem_leastc | 74.30006 |
| Genex: Option B | LeastC | rem_leastc | 1.650331 |

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|-----------------|--------|------------|----------|
| Genex: Option B | LeastC | rem_leastc | 70.1032 |
| Genex: Option B | LeastC | rem_leastc | 46.96682 |
| Genex: Option B | LeastC | rem_leastc | 247.8017 |
| Genex: Option B | LeastC | rem_leastc | 164.7249 |
| Genex: Option B | LeastC | rem_leastc | 7.676785 |
| Genex: Option B | LeastC | rem_leastc | 497.7703 |
| Genex: Option B | LeastC | rem_leastc | 73.2098 |
| Genex: Option B | LeastC | rem_leastc | 15.16272 |
| Genex: Option B | LeastC | rem_leastc | 30.13856 |
| Genex: Option B | LeastC | rem_leastc | 24.79674 |
| Genex: Option B | LeastC | rem_leastc | 12.80719 |
| Genex: Option B | LeastC | rem_leastc | 30.18079 |
| Genex: Option B | LeastC | rem_leastc | 50.3982 |
| Genex: Option B | LeastC | rem_leastc | 2.007452 |
| Genex: Option B | LeastC | rem_leastc | 5.297635 |
| Genex: Option B | LeastC | rem_leastc | 4.628709 |
| Genex: Option B | LeastC | rem_leastc | 23.61133 |
| Genex: Option B | LeastC | rem_leastc | 73.136 |
| Genex: Option B | LeastC | rem_leastc | 95.10482 |
| Genex: Option B | LeastC | rem_leastc | 875.1531 |
| Genex: Option B | LeastC | rem_leastc | 5.458226 |
| Genex: Option B | LeastC | rem_leastc | 5.761792 |
| Genex: Option B | LeastC | rem_leastc | 61.16559 |
| Genex: Option B | LeastC | rem_leastc | 19.86604 |
| Genex: Option B | LeastC | rem_leastc | 144.7855 |
| Genex: Option B | LeastC | rem_leastc | 40.26181 |
| Genex: Option B | LeastC | rem_leastc | 239.4669 |
| Genex: Option B | LeastC | rem_leastc | 135.8535 |
| Genex: Option B | LeastC | rem_leastc | 6.56791 |
| Genex: Option B | LeastC | rem_leastc | 1.495947 |
| Genex: Option B | LeastC | rem_leastc | 42.50296 |
| Genex: Option B | LeastC | rem_leastc | 81.64126 |
| Genex: Option B | LeastC | rem_leastc | 0.284174 |
| Genex: Option B | LeastC | rem_leastc | 342.7593 |
| Genex: Option B | LeastC | rem_leastc | 90.20453 |
| Genex: Option B | LeastC | rem_leastc | 11.22949 |
| Genex: Option B | LeastC | rem_leastc | 370.7128 |
| Genex: Option B | LeastC | rem_leastc | 2.448721 |
| Genex: Option B | LeastC | rem_leastc | 89.05145 |
| Genex: Option B | LeastC | rem_leastc | 87.37309 |
| Genex: Option B | LeastC | rem_leastc | 11.05859 |
| Genex: Option B | LeastC | rem_leastc | 493.3194 |
| Genex: Option B | LeastC | rem_leastc | 53.89835 |
| Genex: Option B | LeastC | rem_leastc | 17.69808 |
| Genex: Option B | LeastC | rem_leastc | 7.514547 |
| Genex: Option B | LeastC | rem_leastc | 7.557274 |
| Genex: Option B | LeastC | rem_leastc | 508.631 |
| Genex: Option B | LeastC | rem_leastc | 427.6424 |
| Genex: Option B | LeastC | rem_leastc | 104.0435 |
| Genex: Option B | LeastC | rem_leastc | 13.22293 |
| Genex: Option B | LeastC | rem_leastc | 4.416903 |
| Genex: Option B | LeastC | rem_leastc | 0.859066 |
| Genex: Option B | LeastC | rem_leastc | 44.88932 |
| Genex: Option B | LeastC | rem_leastc | 10.31003 |
| Genex: Option B | LeastC | rem_leastc | 3.907877 |
| Genex: Option B | LeastC | rem_leastc | 0.286307 |
| Genex: Option B | LeastC | rem_leastc | 3.536081 |
| Genex: Option B | LeastC | rem_leastc | 4.302634 |
| Genex: Option B | LeastC | rem_leastc | 40.54574 |
| Genex: Option B | LeastC | rem_leastc | 46.35656 |
| Genex: Option B | LeastC | rem_leastc | 35.1372 |
| Genex: Option B | LeastC | rem_leastc | 21.46795 |
| Genex: Option B | LeastC | rem_leastc | 63.82186 |
| Genex: Option B | LeastC | rem_leastc | 6.597762 |
| Genex: Option B | LeastC | rem_leastc | 22.59072 |
| Genex: Option B | LeastC | rem_leastc | 14.81235 |
| Genex: Option B | LeastC | rem_leastc | 25.26813 |
| Genex: Option B | LeastC | rem_leastc | 44.78436 |
| Genex: Option B | LeastC | rem_leastc | 15.78862 |
| Genex: Option B | LeastC | rem_leastc | 488.7074 |
| Genex: Option B | LeastC | rem_leastc | 91.32114 |
| Genex: Option B | LeastC | rem_leastc | 17.66116 |
| Genex: Option B | LeastC | rem_leastc | 9.664155 |
| Genex: Option B | LeastC | rem_leastc | 27.0727 |
| Genex: Option B | LeastC | rem_leastc | 47.85526 |
| Genex: Option B | LeastC | rem_leastc | 76.16868 |
| Genex: Option B | LeastC | rem_leastc | 478.2442 |
| Genex: Option B | LeastC | rem_leastc | 4.100452 |

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|-----------------|--------|------------|----------|
| Genex: Option B | LeastC | rem_leastc | 145.1778 |
| Genex: Option B | LeastC | rem_leastc | 64.6371 |
| Genex: Option B | LeastC | rem_leastc | 0.226342 |
| Genex: Option B | LeastC | rem_leastc | 15.25306 |
| Genex: Option B | LeastC | rem_leastc | 167.5648 |
| Genex: Option B | LeastC | rem_leastc | 0.043366 |
| Genex: Option B | LeastC | rem_leastc | 0.249369 |
| Genex: Option B | LeastC | rem_leastc | 31.21998 |
| Genex: Option B | LeastC | rem_leastc | 21.50388 |
| Genex: Option B | LeastC | rem_leastc | 13.38243 |
| Genex: Option B | LeastC | rem_leastc | 48.91066 |
| Genex: Option B | LeastC | rem_leastc | 7.692077 |
| Genex: Option B | LeastC | rem_leastc | 3.140981 |
| Genex: Option B | LeastC | rem_leastc | 2.839104 |
| Genex: Option B | LeastC | rem_leastc | 65.74696 |
| Genex: Option B | LeastC | rem_leastc | 2.994388 |
| Genex: Option B | LeastC | rem_leastc | 0.739912 |
| Genex: Option B | LeastC | rem_leastc | 23.87905 |
| Genex: Option B | LeastC | rem_leastc | 17.49671 |
| Genex: Option B | LeastC | rem_leastc | 70.5411 |
| Genex: Option B | LeastC | rem_leastc | 13.06975 |
| Genex: Option B | LeastC | rem_leastc | 2.843588 |
| Genex: Option B | LeastC | rem_leastc | 47.54403 |
| Genex: Option B | LeastC | rem_leastc | 54.55183 |
| Genex: Option B | LeastC | rem_leastc | 73.61523 |
| Genex: Option B | LeastC | rem_leastc | 20.83647 |
| Genex: Option B | LeastC | rem_leastc | 22.70387 |
| Genex: Option B | LeastC | rem_leastc | 1388.618 |
| Genex: Option B | LeastC | rem_leastc | 149.9886 |
| Genex: Option B | LeastC | rem_leastc | 2023.063 |
| Genex: Option B | LeastC | rem_leastc | 23.4374 |
| Genex: Option B | LeastC | rem_leastc | 74.99154 |
| Genex: Option B | LeastC | rem_leastc | 16.91414 |
| Genex: Option B | LeastC | rem_leastc | 93.94763 |
| Genex: Option B | LeastC | rem_leastc | 126.8936 |
| Genex: Option B | LeastC | rem_leastc | 330.4297 |
| Genex: Option B | LeastC | rem_leastc | 18.47445 |
| Genex: Option B | LeastC | rem_leastc | 4.334424 |
| Genex: Option B | LeastC | rem_leastc | 7.76446 |
| Genex: Option B | LeastC | rem_leastc | 2.66187 |
| Genex: Option B | LeastC | rem_leastc | 101.9941 |
| Genex: Option B | LeastC | rem_leastc | 33.50958 |
| Genex: Option B | LeastC | rem_leastc | 500.0821 |
| Genex: Option B | LeastC | rem_leastc | 27.68105 |
| Genex: Option B | LeastC | rem_leastc | 50.82704 |
| Genex: Option B | LeastC | rem_leastc | 27.28552 |
| Genex: Option B | LeastC | rem_leastc | 123.2228 |
| Genex: Option B | LeastC | rem_leastc | 367.1263 |
| Genex: Option B | LeastC | rem_leastc | 34.76944 |
| Genex: Option B | LeastC | rem_leastc | 3.286117 |
| Genex: Option B | LeastC | rem_leastc | 107.844 |
| Genex: Option B | LeastC | rem_leastc | 191.8055 |
| Genex: Option B | LeastC | rem_leastc | 80.41676 |
| Genex: Option B | LeastC | rem_leastc | 180.466 |
| Genex: Option B | LeastC | rem_leastc | 1.27862 |
| Genex: Option B | LeastC | rem_leastc | 24.74313 |
| Genex: Option B | LeastC | rem_leastc | 0.952919 |
| Genex: Option B | LeastC | rem_leastc | 12.90265 |
| Genex: Option B | LeastC | rem_leastc | 0.324657 |
| Genex: Option B | LeastC | rem_leastc | 34.31719 |
| Genex: Option B | LeastC | rem_leastc | 4.292203 |
| Genex: Option B | LeastC | rem_leastc | 12.06587 |
| Genex: Option B | LeastC | rem_leastc | 3.785718 |
| Genex: Option B | LeastC | rem_leastc | 0.559217 |
| Genex: Option B | LeastC | rem_leastc | 170.6071 |
| Genex: Option B | LeastC | rem_leastc | 44.47043 |
| Genex: Option B | LeastC | rem_leastc | 2.756305 |
| Genex: Option B | LeastC | rem_leastc | 81.53098 |
| Genex: Option B | LeastC | rem_leastc | 8.319718 |
| Genex: Option B | LeastC | rem_leastc | 2.661891 |
| Genex: Option B | LeastC | rem_leastc | 13.44255 |
| Genex: Option B | LeastC | rem_leastc | 5.069492 |
| Genex: Option B | LeastC | rem_leastc | 17.85633 |
| Genex: Option B | LeastC | rem_leastc | 15.8381 |
| Genex: Option B | LeastC | rem_leastc | 13.39539 |
| Genex: Option B | LeastC | rem_leastc | 59.0309 |
| Genex: Option B | LeastC | rem_leastc | 60.63732 |
| Genex: Option B | LeastC | rem_leastc | 135.982 |

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|-----------------|--------|------------|----------|
| Genex: Option B | LeastC | rem_leastc | 26.17916 |
| Genex: Option B | LeastC | rem_leastc | 12.59796 |
| Genex: Option B | LeastC | rem_leastc | 29.47318 |
| Genex: Option B | LeastC | rem_leastc | 137.9151 |
| Genex: Option B | LeastC | rem_leastc | 109.8415 |
| Genex: Option B | LeastC | rem_leastc | 149.8079 |
| Genex: Option B | LeastC | rem_leastc | 462.3725 |
| Genex: Option B | LeastC | rem_leastc | 210.8056 |
| Genex: Option B | LeastC | rem_leastc | 96.2025 |
| Genex: Option B | LeastC | rem_leastc | 11.50008 |
| Genex: Option B | LeastC | rem_leastc | 10.76424 |
| Genex: Option B | LeastC | rem_leastc | 183.6566 |
| Genex: Option B | LeastC | rem_leastc | 17.68986 |
| Genex: Option B | LeastC | rem_leastc | 190.5614 |
| Genex: Option B | LeastC | rem_leastc | 12.3432 |
| Genex: Option B | LeastC | rem_leastc | 59.1258 |
| Genex: Option B | LeastC | rem_leastc | 8.331762 |
| Genex: Option B | LeastC | rem_leastc | 13.08896 |
| Genex: Option B | LeastC | rem_leastc | 2.857761 |
| Genex: Option B | LeastC | rem_leastc | 8.412393 |
| Genex: Option B | LeastC | rem_leastc | 612.04 |
| Genex: Option B | LeastC | rem_leastc | 604.5275 |
| Genex: Option B | LeastC | rem_leastc | 9.989402 |
| Genex: Option B | LeastC | rem_leastc | 26.86946 |
| Genex: Option B | LeastC | rem_leastc | 1.759112 |
| Genex: Option B | LeastC | rem_leastc | 129.2239 |
| Genex: Option B | LeastC | rem_leastc | 13.45173 |
| Genex: Option B | LeastC | rem_leastc | 2.664493 |
| Genex: Option B | LeastC | rem_leastc | 58.33691 |
| Genex: Option B | LeastC | rem_leastc | 17.44888 |
| Genex: Option B | LeastC | rem_leastc | 7.161197 |
| Genex: Option B | LeastC | rem_leastc | 348.5125 |
| Genex: Option B | LeastC | rem_leastc | 9.412106 |
| Genex: Option B | LeastC | rem_leastc | 1.264701 |
| Genex: Option B | LeastC | rem_leastc | 553.999 |
| Genex: Option B | LeastC | rem_leastc | 192.4199 |
| Genex: Option B | LeastC | rem_leastc | 9.22467 |
| Genex: Option B | LeastC | rem_leastc | 7.926539 |
| Genex: Option B | LeastC | rem_leastc | 29.46511 |
| Genex: Option B | LeastC | rem_leastc | 324.4124 |
| Genex: Option B | LeastC | rem_leastc | 4.364596 |
| Genex: Option B | LeastC | rem_leastc | 248.962 |
| Genex: Option B | LeastC | rem_leastc | 10.31886 |
| Genex: Option B | LeastC | rem_leastc | 215.5128 |
| Genex: Option B | LeastC | rem_leastc | 64.58989 |
| Genex: Option B | LeastC | rem_leastc | 25.19911 |
| Genex: Option B | LeastC | rem_leastc | 404.6123 |
| Genex: Option B | LeastC | rem_leastc | 0.053489 |
| Genex: Option B | LeastC | rem_leastc | 0.589376 |
| Genex: Option B | LeastC | rem_leastc | 25.03669 |
| Genex: Option B | LeastC | rem_leastc | 0.34877 |
| Genex: Option B | LeastC | rem_leastc | 120.4981 |
| Genex: Option B | LeastC | rem_leastc | 200.9618 |
| Genex: Option B | LeastC | rem_leastc | 192.5669 |
| Genex: Option B | LeastC | rem_leastc | 22.14615 |
| Genex: Option B | LeastC | rem_leastc | 17.90449 |
| Genex: Option B | LeastC | rem_leastc | 37.14543 |
| Genex: Option B | LeastC | rem_leastc | 100.6029 |
| Genex: Option B | LeastC | rem_leastc | 40.38307 |
| Genex: Option B | LeastC | rem_leastc | 16.41434 |
| Genex: Option B | LeastC | rem_leastc | 9.77248 |
| Genex: Option B | LeastC | rem_leastc | 32.21486 |
| Genex: Option B | LeastC | rem_leastc | 46.3546 |
| Genex: Option B | LeastC | rem_leastc | 0.008122 |
| Genex: Option B | LeastC | rem_leastc | 44.16289 |
| Genex: Option B | LeastC | rem_leastc | 5.923245 |
| Genex: Option B | LeastC | rem_leastc | 3.490973 |
| Genex: Option B | LeastC | rem_leastc | 131.4287 |
| Genex: Option B | LeastC | rem_leastc | 8.152129 |
| Genex: Option B | LeastC | rem_leastc | 0.000275 |
| Genex: Option B | LeastC | rem_leastc | 0.000024 |
| Genex: Option B | LeastC | rem_leastc | 63.09774 |
| Genex: Option B | LeastC | rem_leastc | 1.551911 |
| Genex: Option B | LeastC | rem_leastc | 6.945101 |
| Genex: Option B | LeastC | rem_leastc | 0.000132 |
| Genex: Option B | LeastC | rem_leastc | 11.23512 |
| Genex: Option B | LeastC | rem_leastc | 3.025342 |
| Genex: Option B | LeastC | rem_leastc | 96.39073 |

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|-----------------|--------|------------|----------|------|-----------------------------------|
| Genex: Option B | LeastC | rem_leastc | 15.80917 | | |
| Genex: Option B | LeastC | rem_leastc | 192.9281 | | |
| Genex: Option B | LeastC | rem_leastc | 0.037976 | | |
| Genex: Option B | LeastC | rem_leastc | 49.50354 | | |
| Genex: Option B | LeastC | rem_leastc | 125.1382 | | |
| Genex: Option B | LeastC | rem_leastc | 20.527 | | |
| Genex: Option B | LeastC | rem_leastc | 2.774712 | | |
| Genex: Option B | LeastC | rem_leastc | 102.0444 | | |
| Genex: Option B | LeastC | rem_leastc | 4.059098 | | |
| Genex: Option B | LeastC | rem_leastc | 0.453452 | | |
| Genex: Option B | LeastC | rem_leastc | 12.2734 | | |
| Genex: Option B | LeastC | rem_leastc | 8.720471 | | |
| Genex: Option B | LeastC | rem_leastc | 9.605091 | | |
| Genex: Option B | LeastC | rem_leastc | 0.326735 | | |
| Genex: Option B | LeastC | rem_leastc | 0.727728 | | |
| Genex: Option B | LeastC | rem_leastc | 0.288437 | | |
| Genex: Option B | LeastC | rem_leastc | 13.82986 | | |
| Genex: Option B | LeastC | rem_leastc | 57.22385 | | |
| Genex: Option B | LeastC | rem_leastc | 4.842688 | | |
| Genex: Option B | LeastC | rem_leastc | 32.01963 | | |
| Genex: Option B | LeastC | rem_leastc | 0.78514 | | |
| Genex: Option B | LeastC | rem_leastc | 31.26611 | | |
| Genex: Option B | LeastC | rem_leastc | 0.826022 | | |
| Genex: Option B | LeastC | rem_leastc | 0.584156 | | |
| Genex: Option B | LeastC | rem_leastc | 0.600281 | | |
| Genex: Option B | LeastC | rem_leastc | 6.922604 | | |
| Genex: Option B | LeastC | rem_leastc | 51.43218 | | |
| Genex: Option B | LeastC | rem_leastc | 133.6165 | | |
| Genex: Option B | LeastC | rem_leastc | 10.23287 | | |
| Genex: Option B | LeastC | rem_leastc | 0.001706 | | |
| Genex: Option B | O-dom | rem_oc | 1.471846 | 1891 | Total OC-dom remnant for Option B |
| Genex: Option B | O-dom | rem_oc | 195.4305 | | |
| Genex: Option B | O-dom | rem_oc | 153.7515 | | |
| Genex: Option B | O-dom | rem_oc | 138.478 | | |
| Genex: Option B | O-dom | rem_oc | 10.5891 | | |
| Genex: Option B | O-dom | rem_oc | 5.651625 | | |
| Genex: Option B | O-dom | rem_oc | 0.037097 | | |
| Genex: Option B | O-dom | rem_oc | 15.35427 | | |
| Genex: Option B | O-dom | rem_oc | 5.626584 | | |
| Genex: Option B | O-dom | rem_oc | 0.099917 | | |
| Genex: Option B | O-dom | rem_oc | 1.166769 | | |
| Genex: Option B | O-dom | rem_oc | 270.0271 | | |
| Genex: Option B | O-dom | rem_oc | 374.3618 | | |

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|-----------------|-------|--------|----------|
| Genex: Option B | O-dom | rem_oc | 27.99034 |
| Genex: Option B | O-dom | rem_oc | 47.06895 |
| Genex: Option B | O-dom | rem_oc | 1.946463 |
| Genex: Option B | O-dom | rem_oc | 1.771366 |
| Genex: Option B | O-dom | rem_oc | 108.0733 |
| Genex: Option B | O-dom | rem_oc | 0.590693 |
| Genex: Option B | O-dom | rem_oc | 26.872 |
| Genex: Option B | O-dom | rem_oc | 0.925363 |
| Genex: Option B | O-dom | rem_oc | 0.182819 |
| Genex: Option B | O-dom | rem_oc | 0.144678 |
| Genex: Option B | O-dom | rem_oc | 9.653946 |
| Genex: Option B | O-dom | rem_oc | 0.001118 |
| Genex: Option B | O-dom | rem_oc | 5.780518 |
| Genex: Option B | O-dom | rem_oc | 2.728088 |
| Genex: Option B | O-dom | rem_oc | 2.647043 |
| Genex: Option B | O-dom | rem_oc | 1.321795 |
| Genex: Option B | O-dom | rem_oc | 1.075075 |
| Genex: Option B | O-dom | rem_oc | 1.028013 |
| Genex: Option B | O-dom | rem_oc | 4.05067 |
| Genex: Option B | O-dom | rem_oc | 9.522925 |
| Genex: Option B | O-dom | rem_oc | 0.001392 |
| Genex: Option B | O-dom | rem_oc | 0.003394 |
| Genex: Option B | O-dom | rem_oc | 0.001035 |
| Genex: Option B | O-dom | rem_oc | 33.69548 |
| Genex: Option B | O-dom | rem_oc | 1.381382 |
| Genex: Option B | O-dom | rem_oc | 0.928588 |
| Genex: Option B | O-dom | rem_oc | 0.4135 |
| Genex: Option B | O-dom | rem_oc | 3.286292 |
| Genex: Option B | O-dom | rem_oc | 0.813393 |
| Genex: Option B | O-dom | rem_oc | 4.770736 |
| Genex: Option B | O-dom | rem_oc | 1.561019 |
| Genex: Option B | O-dom | rem_oc | 2.309776 |
| Genex: Option B | O-dom | rem_oc | 1.058237 |
| Genex: Option B | O-dom | rem_oc | 5.369112 |
| Genex: Option B | O-dom | rem_oc | 2.128498 |
| Genex: Option B | O-dom | rem_oc | 0.502309 |
| Genex: Option B | O-dom | rem_oc | 0.053237 |
| Genex: Option B | O-dom | rem_oc | 14.87732 |
| Genex: Option B | O-dom | rem_oc | 48.60826 |
| Genex: Option B | O-dom | rem_oc | 0.43457 |
| Genex: Option B | O-dom | rem_oc | 58.61665 |
| Genex: Option B | O-dom | rem_oc | 62.13515 |
| Genex: Option B | O-dom | rem_oc | 4.286207 |
| Genex: Option B | O-dom | rem_oc | 8.433967 |
| Genex: Option B | O-dom | rem_oc | 4.418017 |
| Genex: Option B | O-dom | rem_oc | 0.816551 |
| Genex: Option B | O-dom | rem_oc | 1.360325 |
| Genex: Option B | O-dom | rem_oc | 0.61658 |
| Genex: Option B | O-dom | rem_oc | 0.594068 |
| Genex: Option B | O-dom | rem_oc | 9.111942 |
| Genex: Option B | O-dom | rem_oc | 8.567498 |
| Genex: Option B | O-dom | rem_oc | 5.563262 |
| Genex: Option B | O-dom | rem_oc | 58.10314 |
| Genex: Option B | O-dom | rem_oc | 11.76356 |
| Genex: Option B | O-dom | rem_oc | 15.50552 |
| Genex: Option B | O-dom | rem_oc | 4.488126 |
| Genex: Option B | O-dom | rem_oc | 3.278022 |
| Genex: Option B | O-dom | rem_oc | 3.436123 |
| Genex: Option B | O-dom | rem_oc | 11.64185 |
| Genex: Option B | O-dom | rem_oc | 18.22205 |
| Genex: Option B | O-dom | rem_oc | 0.0018 |
| Genex: Option B | O-dom | rem_oc | 4.444007 |
| Genex: Option B | O-dom | rem_oc | 6.059981 |
| Genex: Option B | O-dom | rem_oc | 0.338932 |
| Genex: Option B | O-dom | rem_oc | 15.98738 |
| Genex: Option B | O-dom | rem_oc | 0.645188 |
| Genex: Option B | O-dom | rem_oc | 3.072902 |
| Genex: Option B | O-dom | rem_oc | 0.000344 |
| Genex: Option B | O-dom | rem_oc | 9.199158 |
| Genex: Option B | O-dom | rem_oc | 6.182994 |
| Genex: Option B | O-dom | rem_oc | 6.221117 |

| | | | | | |
|-----------------|----------|--------|----------|-----|--------------------------------------|
| Genex: Option B | O-subdom | rem_oc | 28.0519 | 442 | Total OC-subdom remnant for Option B |
| Genex: Option B | O-subdom | rem_oc | 46.6716 | | |
| Genex: Option B | O-subdom | rem_oc | 4.034857 | | |
| Genex: Option B | O-subdom | rem_oc | 187.4794 | | |
| Genex: Option B | O-subdom | rem_oc | 6.946681 | | |
| Genex: Option B | O-subdom | rem_oc | 2.117614 | | |
| Genex: Option B | O-subdom | rem_oc | 59.27586 | | |
| Genex: Option B | O-subdom | rem_oc | 21.51577 | | |
| Genex: Option B | O-subdom | rem_oc | 85.42148 | | |

Kidston Corridor Option C - Regional ecosystems v8

| Name | VM_POLY | VM_STATUS | Area_ha | |
|----------------|---------|------------|----------|------------------------------------|
| GENEX Option C | LeastC | hvr_leastc | 0.042944 | 266 Total LC regrowth for Option C |
| GENEX Option C | LeastC | hvr_leastc | 1.282108 | |
| GENEX Option C | LeastC | hvr_leastc | 3.724701 | |
| GENEX Option C | LeastC | hvr_leastc | 3.327094 | |
| GENEX Option C | LeastC | hvr_leastc | 0.198184 | |
| GENEX Option C | LeastC | hvr_leastc | 0.215019 | |
| GENEX Option C | LeastC | hvr_leastc | 0.871264 | |
| GENEX Option C | LeastC | hvr_leastc | 0.001538 | |
| GENEX Option C | LeastC | hvr_leastc | 0.330203 | |
| GENEX Option C | LeastC | hvr_leastc | 20.73632 | |
| GENEX Option C | LeastC | hvr_leastc | 5.521453 | |
| GENEX Option C | LeastC | hvr_leastc | 3.584613 | |
| GENEX Option C | LeastC | hvr_leastc | 0.039661 | |
| GENEX Option C | LeastC | hvr_leastc | 0.247062 | |
| GENEX Option C | LeastC | hvr_leastc | 0.779189 | |
| GENEX Option C | LeastC | hvr_leastc | 4.748415 | |
| GENEX Option C | LeastC | hvr_leastc | 1.859195 | |
| GENEX Option C | LeastC | hvr_leastc | 10.84232 | |
| GENEX Option C | LeastC | hvr_leastc | 0.563293 | |
| GENEX Option C | LeastC | hvr_leastc | 0.799334 | |
| GENEX Option C | LeastC | hvr_leastc | 0.1578 | |
| GENEX Option C | LeastC | hvr_leastc | 0.423847 | |
| GENEX Option C | LeastC | hvr_leastc | 0.022131 | |
| GENEX Option C | LeastC | hvr_leastc | 1.832039 | |
| GENEX Option C | LeastC | hvr_leastc | 2.074049 | |
| GENEX Option C | LeastC | hvr_leastc | 11.76166 | |
| GENEX Option C | LeastC | hvr_leastc | 0.071373 | |
| GENEX Option C | LeastC | hvr_leastc | 0.032936 | |
| GENEX Option C | LeastC | hvr_leastc | 0.275677 | |
| GENEX Option C | LeastC | hvr_leastc | 4.030559 | |
| GENEX Option C | LeastC | hvr_leastc | 4.565859 | |
| GENEX Option C | LeastC | hvr_leastc | 2.294056 | |
| GENEX Option C | LeastC | hvr_leastc | 1.055631 | |
| GENEX Option C | LeastC | hvr_leastc | 1.583837 | |
| GENEX Option C | LeastC | hvr_leastc | 4.886182 | |
| GENEX Option C | LeastC | hvr_leastc | 0.483842 | |
| GENEX Option C | LeastC | hvr_leastc | 0.022396 | |
| GENEX Option C | LeastC | hvr_leastc | 16.55398 | |
| GENEX Option C | LeastC | hvr_leastc | 0.847925 | |
| GENEX Option C | LeastC | hvr_leastc | 0.452182 | |
| GENEX Option C | LeastC | hvr_leastc | 0.355135 | |
| GENEX Option C | LeastC | hvr_leastc | 1.329568 | |
| GENEX Option C | LeastC | hvr_leastc | 7.449196 | |
| GENEX Option C | LeastC | hvr_leastc | 10.2054 | |
| GENEX Option C | LeastC | hvr_leastc | 0.252609 | |
| GENEX Option C | LeastC | hvr_leastc | 0.004932 | |
| GENEX Option C | LeastC | hvr_leastc | 2.193916 | |
| GENEX Option C | LeastC | hvr_leastc | 0.628194 | |
| GENEX Option C | LeastC | hvr_leastc | 4.798001 | |
| GENEX Option C | LeastC | hvr_leastc | 4.892764 | |
| GENEX Option C | LeastC | hvr_leastc | 0.857374 | |
| GENEX Option C | LeastC | hvr_leastc | 0.016948 | |
| GENEX Option C | LeastC | hvr_leastc | 0.026688 | |
| GENEX Option C | LeastC | hvr_leastc | 0.489348 | |
| GENEX Option C | LeastC | hvr_leastc | 0.001268 | |
| GENEX Option C | LeastC | hvr_leastc | 0.733646 | |
| GENEX Option C | LeastC | hvr_leastc | 0.001018 | |
| GENEX Option C | LeastC | hvr_leastc | 2.958507 | |
| GENEX Option C | LeastC | hvr_leastc | 2.596304 | |
| GENEX Option C | LeastC | hvr_leastc | 2.274126 | |
| GENEX Option C | LeastC | hvr_leastc | 0.860982 | |
| GENEX Option C | LeastC | hvr_leastc | 0.17804 | |
| GENEX Option C | LeastC | hvr_leastc | 1.002297 | |
| GENEX Option C | LeastC | hvr_leastc | 0.00441 | |
| GENEX Option C | LeastC | hvr_leastc | 13.17734 | |
| GENEX Option C | LeastC | hvr_leastc | 0.224692 | |
| GENEX Option C | LeastC | hvr_leastc | 1.836962 | |
| GENEX Option C | LeastC | hvr_leastc | 0.523549 | |
| GENEX Option C | LeastC | hvr_leastc | 5.202041 | |
| GENEX Option C | LeastC | hvr_leastc | 0.41416 | |
| GENEX Option C | LeastC | hvr_leastc | 0.004426 | |
| GENEX Option C | LeastC | hvr_leastc | 0.175718 | |
| GENEX Option C | LeastC | hvr_leastc | 1.371884 | |

| | | | | | |
|----------------|---------|-------------|----------|------|--|
| GENEX Option C | LeastC | hvr_leastc | 0.720414 | | |
| GENEX Option C | LeastC | hvr_leastc | 0.086502 | | |
| GENEX Option C | LeastC | hvr_leastc | 0.349904 | | |
| GENEX Option C | LeastC | hvr_leastc | 9.197092 | | |
| GENEX Option C | LeastC | hvr_leastc | 2.849699 | | |
| GENEX Option C | LeastC | hvr_leastc | 1.297257 | | |
| GENEX Option C | LeastC | hvr_leastc | 63.51923 | | |
| GENEX Option C | LeastC | hvr_leastc | 0.000024 | | |
| GENEX Option C | LeastC | hvr_leastc | 0.000132 | | |
| GENEX Option C | LeastC | hvr_leastc | 0.000386 | | |
| GENEX Option C | LeastC | hvr_leastc | 2.657052 | | |
| GENEX Option C | LeastC | hvr_leastc | 1.646678 | | |
| GENEX Option C | LeastC | hvr_leastc | 3.808301 | | |
| GENEX Option C | LeastC | hvr_leastc | 0.001706 | | |
| GENEX Option C | O-dom | hvr_oc | 0.888013 | 2.4 | Total OC-dom HVR regrowth for Option C |
| GENEX Option C | O-dom | hvr_oc | 0.034724 | | |
| GENEX Option C | O-dom | hvr_oc | 0.084695 | | |
| GENEX Option C | O-dom | hvr_oc | 0.476706 | | |
| GENEX Option C | O-dom | hvr_oc | 0.890819 | | |
| GENEX Option C | non-rem | non_remnant | 28.55118 | 2458 | Total non-remnant for Option C |
| GENEX Option C | non-rem | non_remnant | 4.598363 | | |
| GENEX Option C | non-rem | non_remnant | 3.133693 | | |
| GENEX Option C | non-rem | non_remnant | 19.4655 | | |
| GENEX Option C | non-rem | non_remnant | 11.13507 | | |
| GENEX Option C | non-rem | non_remnant | 3.84902 | | |
| GENEX Option C | non-rem | non_remnant | 1.69844 | | |
| GENEX Option C | non-rem | non_remnant | 29.78413 | | |
| GENEX Option C | non-rem | non_remnant | 1.037267 | | |
| GENEX Option C | non-rem | non_remnant | 631.163 | | |
| GENEX Option C | non-rem | non_remnant | 1.27489 | | |
| GENEX Option C | non-rem | non_remnant | 1.573922 | | |
| GENEX Option C | non-rem | non_remnant | 0.416775 | | |
| GENEX Option C | non-rem | non_remnant | 0.284209 | | |
| GENEX Option C | non-rem | non_remnant | 0.934327 | | |
| GENEX Option C | non-rem | non_remnant | 32.73321 | | |
| GENEX Option C | non-rem | non_remnant | 0.21711 | | |
| GENEX Option C | non-rem | non_remnant | 7.341556 | | |
| GENEX Option C | non-rem | non_remnant | 1.536304 | | |
| GENEX Option C | non-rem | non_remnant | 1.624022 | | |
| GENEX Option C | non-rem | non_remnant | 1.525838 | | |
| GENEX Option C | non-rem | non_remnant | 6.35254 | | |
| GENEX Option C | non-rem | non_remnant | 0.311335 | | |
| GENEX Option C | non-rem | non_remnant | 0.284912 | | |
| GENEX Option C | non-rem | non_remnant | 0.799373 | | |
| GENEX Option C | non-rem | non_remnant | 1.586069 | | |
| GENEX Option C | non-rem | non_remnant | 106.2974 | | |
| GENEX Option C | non-rem | non_remnant | 3.895228 | | |
| GENEX Option C | non-rem | non_remnant | 288.9389 | | |
| GENEX Option C | non-rem | non_remnant | 4.258125 | | |
| GENEX Option C | non-rem | non_remnant | 2.125011 | | |
| GENEX Option C | non-rem | non_remnant | 0.056622 | | |
| GENEX Option C | non-rem | non_remnant | 0.167595 | | |
| GENEX Option C | non-rem | non_remnant | 0.535546 | | |
| GENEX Option C | non-rem | non_remnant | 0.756154 | | |
| GENEX Option C | non-rem | non_remnant | 8.966574 | | |
| GENEX Option C | non-rem | non_remnant | 16.25738 | | |
| GENEX Option C | non-rem | non_remnant | 347.132 | | |
| GENEX Option C | non-rem | non_remnant | 0.000275 | | |
| GENEX Option C | non-rem | non_remnant | 0.000386 | | |
| GENEX Option C | non-rem | non_remnant | 0.234067 | | |
| GENEX Option C | non-rem | non_remnant | 282.7614 | | |
| GENEX Option C | non-rem | non_remnant | 0.000204 | | |
| GENEX Option C | non-rem | non_remnant | 0.000074 | | |
| GENEX Option C | non-rem | non_remnant | 8.914747 | | |
| GENEX Option C | non-rem | non_remnant | 1.286566 | | |
| GENEX Option C | non-rem | non_remnant | 1.685735 | | |
| GENEX Option C | non-rem | non_remnant | 0.526879 | | |
| GENEX Option C | non-rem | non_remnant | 0.121333 | | |
| GENEX Option C | non-rem | non_remnant | 3.735213 | | |
| GENEX Option C | non-rem | non_remnant | 117.347 | | |
| GENEX Option C | non-rem | non_remnant | 468.6799 | | |
| GENEX Option C | non-rem | non_remnant | 0.001706 | | |
| GENEX Option C | water | non_remnant | 0.341308 | 29 | Total water non-remnant for Option C |
| GENEX Option C | water | non_remnant | 11.9254 | | |
| GENEX Option C | water | non_remnant | 17.22085 | | |

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|----------------|--------|------------|----------|-------|-------------------------------|
| GENEX Option C | LeastC | rem_leastc | 38.01406 | 52609 | Total LC remnant for Option C |
| GENEX Option C | LeastC | rem_leastc | 0.714087 | | |
| GENEX Option C | LeastC | rem_leastc | 26.02467 | | |
| GENEX Option C | LeastC | rem_leastc | 170.1283 | | |
| GENEX Option C | LeastC | rem_leastc | 51.69668 | | |
| GENEX Option C | LeastC | rem_leastc | 3.551085 | | |
| GENEX Option C | LeastC | rem_leastc | 7.754542 | | |
| GENEX Option C | LeastC | rem_leastc | 108.8235 | | |
| GENEX Option C | LeastC | rem_leastc | 21.73775 | | |
| GENEX Option C | LeastC | rem_leastc | 418.7269 | | |
| GENEX Option C | LeastC | rem_leastc | 57.48674 | | |
| GENEX Option C | LeastC | rem_leastc | 52.76348 | | |
| GENEX Option C | LeastC | rem_leastc | 7.20723 | | |
| GENEX Option C | LeastC | rem_leastc | 4.89243 | | |
| GENEX Option C | LeastC | rem_leastc | 28.01646 | | |
| GENEX Option C | LeastC | rem_leastc | 4.747283 | | |
| GENEX Option C | LeastC | rem_leastc | 39.4278 | | |
| GENEX Option C | LeastC | rem_leastc | 5.172642 | | |
| GENEX Option C | LeastC | rem_leastc | 137.9748 | | |
| GENEX Option C | LeastC | rem_leastc | 1.521492 | | |
| GENEX Option C | LeastC | rem_leastc | 53.50867 | | |
| GENEX Option C | LeastC | rem_leastc | 46.62655 | | |
| GENEX Option C | LeastC | rem_leastc | 30.00713 | | |
| GENEX Option C | LeastC | rem_leastc | 331.3991 | | |
| GENEX Option C | LeastC | rem_leastc | 332.4453 | | |
| GENEX Option C | LeastC | rem_leastc | 21.32897 | | |
| GENEX Option C | LeastC | rem_leastc | 2.386717 | | |
| GENEX Option C | LeastC | rem_leastc | 102.9591 | | |
| GENEX Option C | LeastC | rem_leastc | 145.4984 | | |
| GENEX Option C | LeastC | rem_leastc | 963.089 | | |
| GENEX Option C | LeastC | rem_leastc | 76.38114 | | |
| GENEX Option C | LeastC | rem_leastc | 43.23859 | | |
| GENEX Option C | LeastC | rem_leastc | 47.90637 | | |
| GENEX Option C | LeastC | rem_leastc | 262.2519 | | |
| GENEX Option C | LeastC | rem_leastc | 19.36124 | | |
| GENEX Option C | LeastC | rem_leastc | 38.22447 | | |
| GENEX Option C | LeastC | rem_leastc | 67.2146 | | |
| GENEX Option C | LeastC | rem_leastc | 13.1407 | | |
| GENEX Option C | LeastC | rem_leastc | 319.7845 | | |
| GENEX Option C | LeastC | rem_leastc | 1.831239 | | |
| GENEX Option C | LeastC | rem_leastc | 31.41553 | | |
| GENEX Option C | LeastC | rem_leastc | 1097.731 | | |
| GENEX Option C | LeastC | rem_leastc | 45.09985 | | |
| GENEX Option C | LeastC | rem_leastc | 10.77315 | | |
| GENEX Option C | LeastC | rem_leastc | 11.55033 | | |
| GENEX Option C | LeastC | rem_leastc | 378.1576 | | |
| GENEX Option C | LeastC | rem_leastc | 61.16019 | | |
| GENEX Option C | LeastC | rem_leastc | 8.994313 | | |
| GENEX Option C | LeastC | rem_leastc | 306.4878 | | |
| GENEX Option C | LeastC | rem_leastc | 20.92654 | | |
| GENEX Option C | LeastC | rem_leastc | 35.97101 | | |
| GENEX Option C | LeastC | rem_leastc | 6.257186 | | |
| GENEX Option C | LeastC | rem_leastc | 94.1651 | | |
| GENEX Option C | LeastC | rem_leastc | 74.39137 | | |
| GENEX Option C | LeastC | rem_leastc | 1.175948 | | |
| GENEX Option C | LeastC | rem_leastc | 8.255441 | | |
| GENEX Option C | LeastC | rem_leastc | 110.7072 | | |
| GENEX Option C | LeastC | rem_leastc | 21.48688 | | |
| GENEX Option C | LeastC | rem_leastc | 0.579317 | | |
| GENEX Option C | LeastC | rem_leastc | 22.56373 | | |
| GENEX Option C | LeastC | rem_leastc | 2.539484 | | |
| GENEX Option C | LeastC | rem_leastc | 16.5365 | | |
| GENEX Option C | LeastC | rem_leastc | 224.1086 | | |
| GENEX Option C | LeastC | rem_leastc | 14.71189 | | |
| GENEX Option C | LeastC | rem_leastc | 92.26965 | | |
| GENEX Option C | LeastC | rem_leastc | 117.0921 | | |
| GENEX Option C | LeastC | rem_leastc | 339.8278 | | |
| GENEX Option C | LeastC | rem_leastc | 41.16227 | | |
| GENEX Option C | LeastC | rem_leastc | 21.93453 | | |
| GENEX Option C | LeastC | rem_leastc | 1.387434 | | |
| GENEX Option C | LeastC | rem_leastc | 14.70381 | | |
| GENEX Option C | LeastC | rem_leastc | 29.1314 | | |
| GENEX Option C | LeastC | rem_leastc | 16.62314 | | |
| GENEX Option C | LeastC | rem_leastc | 12.50073 | | |
| GENEX Option C | LeastC | rem_leastc | 7.261978 | | |
| GENEX Option C | LeastC | rem_leastc | 18.25935 | | |
| GENEX Option C | LeastC | rem_leastc | 30.77885 | | |
| GENEX Option C | LeastC | rem_leastc | 29.59063 | | |

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|----------------|--------|------------|----------|
| GENEX Option C | LeastC | rem_leastc | 3.675156 |
| GENEX Option C | LeastC | rem_leastc | 6.804901 |
| GENEX Option C | LeastC | rem_leastc | 325.6778 |
| GENEX Option C | LeastC | rem_leastc | 15.98994 |
| GENEX Option C | LeastC | rem_leastc | 257.9476 |
| GENEX Option C | LeastC | rem_leastc | 4.391148 |
| GENEX Option C | LeastC | rem_leastc | 5.114837 |
| GENEX Option C | LeastC | rem_leastc | 9.306435 |
| GENEX Option C | LeastC | rem_leastc | 103.875 |
| GENEX Option C | LeastC | rem_leastc | 306.8621 |
| GENEX Option C | LeastC | rem_leastc | 13.5309 |
| GENEX Option C | LeastC | rem_leastc | 23.87092 |
| GENEX Option C | LeastC | rem_leastc | 356.2161 |
| GENEX Option C | LeastC | rem_leastc | 2.204996 |
| GENEX Option C | LeastC | rem_leastc | 157.3748 |
| GENEX Option C | LeastC | rem_leastc | 23.59838 |
| GENEX Option C | LeastC | rem_leastc | 10.95056 |
| GENEX Option C | LeastC | rem_leastc | 2.856698 |
| GENEX Option C | LeastC | rem_leastc | 0.394979 |
| GENEX Option C | LeastC | rem_leastc | 12.14453 |
| GENEX Option C | LeastC | rem_leastc | 83.0943 |
| GENEX Option C | LeastC | rem_leastc | 407.5964 |
| GENEX Option C | LeastC | rem_leastc | 287.1895 |
| GENEX Option C | LeastC | rem_leastc | 3.004676 |
| GENEX Option C | LeastC | rem_leastc | 40.44207 |
| GENEX Option C | LeastC | rem_leastc | 12.50636 |
| GENEX Option C | LeastC | rem_leastc | 28.19659 |
| GENEX Option C | LeastC | rem_leastc | 55.5168 |
| GENEX Option C | LeastC | rem_leastc | 2.649882 |
| GENEX Option C | LeastC | rem_leastc | 1.431883 |
| GENEX Option C | LeastC | rem_leastc | 9.169954 |
| GENEX Option C | LeastC | rem_leastc | 7.708445 |
| GENEX Option C | LeastC | rem_leastc | 92.95 |
| GENEX Option C | LeastC | rem_leastc | 94.69141 |
| GENEX Option C | LeastC | rem_leastc | 5.433617 |
| GENEX Option C | LeastC | rem_leastc | 64.5069 |
| GENEX Option C | LeastC | rem_leastc | 2.113 |
| GENEX Option C | LeastC | rem_leastc | 3.737052 |
| GENEX Option C | LeastC | rem_leastc | 174.1968 |
| GENEX Option C | LeastC | rem_leastc | 78.54987 |
| GENEX Option C | LeastC | rem_leastc | 44.18646 |
| GENEX Option C | LeastC | rem_leastc | 302.4601 |
| GENEX Option C | LeastC | rem_leastc | 13.03633 |
| GENEX Option C | LeastC | rem_leastc | 0.02649 |
| GENEX Option C | LeastC | rem_leastc | 4.129607 |
| GENEX Option C | LeastC | rem_leastc | 3.67986 |
| GENEX Option C | LeastC | rem_leastc | 41.87516 |
| GENEX Option C | LeastC | rem_leastc | 123.6476 |
| GENEX Option C | LeastC | rem_leastc | 29.82518 |
| GENEX Option C | LeastC | rem_leastc | 709.0444 |
| GENEX Option C | LeastC | rem_leastc | 60.01941 |
| GENEX Option C | LeastC | rem_leastc | 1.604473 |
| GENEX Option C | LeastC | rem_leastc | 53.97776 |
| GENEX Option C | LeastC | rem_leastc | 186.7913 |
| GENEX Option C | LeastC | rem_leastc | 44.12555 |
| GENEX Option C | LeastC | rem_leastc | 134.2578 |
| GENEX Option C | LeastC | rem_leastc | 29.8517 |
| GENEX Option C | LeastC | rem_leastc | 14.57555 |
| GENEX Option C | LeastC | rem_leastc | 74.74253 |
| GENEX Option C | LeastC | rem_leastc | 12.649 |
| GENEX Option C | LeastC | rem_leastc | 121.5994 |
| GENEX Option C | LeastC | rem_leastc | 8.356103 |
| GENEX Option C | LeastC | rem_leastc | 70.14877 |
| GENEX Option C | LeastC | rem_leastc | 85.00014 |
| GENEX Option C | LeastC | rem_leastc | 8.976845 |
| GENEX Option C | LeastC | rem_leastc | 114.0486 |
| GENEX Option C | LeastC | rem_leastc | 5.472839 |
| GENEX Option C | LeastC | rem_leastc | 34.84204 |
| GENEX Option C | LeastC | rem_leastc | 101.7071 |
| GENEX Option C | LeastC | rem_leastc | 48.67651 |
| GENEX Option C | LeastC | rem_leastc | 32.7168 |
| GENEX Option C | LeastC | rem_leastc | 59.34102 |
| GENEX Option C | LeastC | rem_leastc | 140.7262 |
| GENEX Option C | LeastC | rem_leastc | 49.51686 |
| GENEX Option C | LeastC | rem_leastc | 0.707326 |
| GENEX Option C | LeastC | rem_leastc | 7.045497 |
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| GENEX Option C | LeastC | rem_leastc | 8.480949 |

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| GENEX Option C | LeastC | rem_leastc | 28.6392 |
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| GENEX Option C | LeastC | rem_leastc | 22.65911 |
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| GENEX Option C | LeastC | rem_leastc | 8.082343 |
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| GENEX Option C | LeastC | rem_leastc | 61.08123 |
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| GENEX Option C | LeastC | rem_leastc | 0.252096 |
| GENEX Option C | LeastC | rem_leastc | 41.80824 |
| GENEX Option C | LeastC | rem_leastc | 296.3187 |
| GENEX Option C | LeastC | rem_leastc | 101.5743 |
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| GENEX Option C | LeastC | rem_leastc | 14.47524 |
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| GENEX Option C | LeastC | rem_leastc | 34.29543 |
| GENEX Option C | LeastC | rem_leastc | 42.10126 |
| GENEX Option C | LeastC | rem_leastc | 14.19841 |
| GENEX Option C | LeastC | rem_leastc | 7.371037 |
| GENEX Option C | LeastC | rem_leastc | 1.347521 |
| GENEX Option C | LeastC | rem_leastc | 183.2169 |
| GENEX Option C | LeastC | rem_leastc | 31.9329 |
| GENEX Option C | LeastC | rem_leastc | 111.3151 |
| GENEX Option C | LeastC | rem_leastc | 27.00255 |
| GENEX Option C | LeastC | rem_leastc | 9.83722 |
| GENEX Option C | LeastC | rem_leastc | 7.45148 |
| GENEX Option C | LeastC | rem_leastc | 11.17567 |
| GENEX Option C | LeastC | rem_leastc | 82.99118 |
| GENEX Option C | LeastC | rem_leastc | 15.84509 |
| GENEX Option C | LeastC | rem_leastc | 310.9522 |
| GENEX Option C | LeastC | rem_leastc | 34.4065 |
| GENEX Option C | LeastC | rem_leastc | 55.20887 |
| GENEX Option C | LeastC | rem_leastc | 3.677472 |
| GENEX Option C | LeastC | rem_leastc | 371.3333 |
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| GENEX Option C | LeastC | rem_leastc | 143.1277 |
| GENEX Option C | LeastC | rem_leastc | 5.565565 |
| GENEX Option C | LeastC | rem_leastc | 49.50317 |
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| GENEX Option C | LeastC | rem_leastc | 17.08195 |
| GENEX Option C | LeastC | rem_leastc | 99.73551 |
| GENEX Option C | LeastC | rem_leastc | 376.538 |
| GENEX Option C | LeastC | rem_leastc | 48.17882 |
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| GENEX Option C | LeastC | rem_leastc | 203.148 |
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| GENEX Option C | LeastC | rem_leastc | 123.3955 |

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| GENEX Option C | LeastC | rem_leastc | 60.74509 |
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| GENEX Option C | LeastC | rem_leastc | 14.57307 |
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| GENEX Option C | LeastC | rem_leastc | 3.825454 |
| GENEX Option C | LeastC | rem_leastc | 27.65567 |
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| GENEX Option C | LeastC | rem_leastc | 83.46924 |
| GENEX Option C | LeastC | rem_leastc | 61.9752 |
| GENEX Option C | LeastC | rem_leastc | 22.51092 |
| GENEX Option C | LeastC | rem_leastc | 78.81351 |
| GENEX Option C | LeastC | rem_leastc | 1.1722 |
| GENEX Option C | LeastC | rem_leastc | 23.31453 |
| GENEX Option C | LeastC | rem_leastc | 587.4325 |
| GENEX Option C | LeastC | rem_leastc | 204.1666 |
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| GENEX Option C | LeastC | rem_leastc | 120.4324 |
| GENEX Option C | LeastC | rem_leastc | 865.5664 |
| GENEX Option C | LeastC | rem_leastc | 29.93223 |
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| GENEX Option C | LeastC | rem_leastc | 312.3949 |
| GENEX Option C | LeastC | rem_leastc | 99.10889 |
| GENEX Option C | LeastC | rem_leastc | 10.33737 |
| GENEX Option C | LeastC | rem_leastc | 31.16894 |
| GENEX Option C | LeastC | rem_leastc | 43.44386 |
| GENEX Option C | LeastC | rem_leastc | 193.8193 |
| GENEX Option C | LeastC | rem_leastc | 183.4683 |
| GENEX Option C | LeastC | rem_leastc | 105.8241 |
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| GENEX Option C | LeastC | rem_leastc | 26.50336 |
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| GENEX Option C | LeastC | rem_leastc | 1.750816 |
| GENEX Option C | LeastC | rem_leastc | 7.330887 |
| GENEX Option C | LeastC | rem_leastc | 80.91222 |
| GENEX Option C | LeastC | rem_leastc | 285.9006 |
| GENEX Option C | LeastC | rem_leastc | 1.802566 |
| GENEX Option C | LeastC | rem_leastc | 59.32959 |
| GENEX Option C | LeastC | rem_leastc | 12.23004 |
| GENEX Option C | LeastC | rem_leastc | 8.971527 |
| GENEX Option C | LeastC | rem_leastc | 13.00588 |
| GENEX Option C | LeastC | rem_leastc | 3.75467 |
| GENEX Option C | LeastC | rem_leastc | 178.9832 |
| GENEX Option C | LeastC | rem_leastc | 107.5745 |
| GENEX Option C | LeastC | rem_leastc | 46.31915 |
| GENEX Option C | LeastC | rem_leastc | 61.24909 |
| GENEX Option C | LeastC | rem_leastc | 88.93272 |
| GENEX Option C | LeastC | rem_leastc | 8.600226 |
| GENEX Option C | LeastC | rem_leastc | 42.1064 |
| GENEX Option C | LeastC | rem_leastc | 526.2937 |
| GENEX Option C | LeastC | rem_leastc | 4.800436 |
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| GENEX Option C | LeastC | rem_leastc | 18.0793 |
| GENEX Option C | LeastC | rem_leastc | 70.34255 |
| GENEX Option C | LeastC | rem_leastc | 47.25853 |
| GENEX Option C | LeastC | rem_leastc | 289.9992 |
| GENEX Option C | LeastC | rem_leastc | 2.945584 |
| GENEX Option C | LeastC | rem_leastc | 0.027143 |
| GENEX Option C | LeastC | rem_leastc | 22.94944 |
| GENEX Option C | LeastC | rem_leastc | 241.1351 |
| GENEX Option C | LeastC | rem_leastc | 10.82383 |
| GENEX Option C | LeastC | rem_leastc | 0.217139 |
| GENEX Option C | LeastC | rem_leastc | 1.018066 |
| GENEX Option C | LeastC | rem_leastc | 148.4483 |
| GENEX Option C | LeastC | rem_leastc | 1.735207 |
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| GENEX Option C | LeastC | rem_leastc | 63.82911 |
| GENEX Option C | LeastC | rem_leastc | 9.483077 |
| GENEX Option C | LeastC | rem_leastc | 5.112733 |
| GENEX Option C | LeastC | rem_leastc | 42.39342 |
| GENEX Option C | LeastC | rem_leastc | 217.1046 |
| GENEX Option C | LeastC | rem_leastc | 274.7574 |
| GENEX Option C | LeastC | rem_leastc | 44.75944 |
| GENEX Option C | LeastC | rem_leastc | 34.00366 |
| GENEX Option C | LeastC | rem_leastc | 15.84078 |
| GENEX Option C | LeastC | rem_leastc | 44.64747 |
| GENEX Option C | LeastC | rem_leastc | 122.9537 |
| GENEX Option C | LeastC | rem_leastc | 566.3628 |
| GENEX Option C | LeastC | rem_leastc | 14.21165 |
| GENEX Option C | LeastC | rem_leastc | 28.92059 |
| GENEX Option C | LeastC | rem_leastc | 237.4161 |
| GENEX Option C | LeastC | rem_leastc | 82.96334 |
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| GENEX Option C | LeastC | rem_leastc | 45.99594 |
| GENEX Option C | LeastC | rem_leastc | 87.13361 |
| GENEX Option C | LeastC | rem_leastc | 54.99165 |
| GENEX Option C | LeastC | rem_leastc | 47.59365 |
| GENEX Option C | LeastC | rem_leastc | 1.813457 |
| GENEX Option C | LeastC | rem_leastc | 14.67879 |
| GENEX Option C | LeastC | rem_leastc | 36.05249 |
| GENEX Option C | LeastC | rem_leastc | 345.0211 |
| GENEX Option C | LeastC | rem_leastc | 166.6805 |
| GENEX Option C | LeastC | rem_leastc | 55.38093 |
| GENEX Option C | LeastC | rem_leastc | 543.976 |
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| GENEX Option C | LeastC | rem_leastc | 70.1032 |
| GENEX Option C | LeastC | rem_leastc | 46.96682 |
| GENEX Option C | LeastC | rem_leastc | 247.8017 |
| GENEX Option C | LeastC | rem_leastc | 164.7249 |
| GENEX Option C | LeastC | rem_leastc | 7.676785 |
| GENEX Option C | LeastC | rem_leastc | 497.7703 |
| GENEX Option C | LeastC | rem_leastc | 73.2098 |
| GENEX Option C | LeastC | rem_leastc | 15.16272 |
| GENEX Option C | LeastC | rem_leastc | 30.13856 |
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| GENEX Option C | LeastC | rem_leastc | 12.80719 |
| GENEX Option C | LeastC | rem_leastc | 30.18079 |
| GENEX Option C | LeastC | rem_leastc | 50.3982 |
| GENEX Option C | LeastC | rem_leastc | 2.007452 |
| GENEX Option C | LeastC | rem_leastc | 5.297635 |
| GENEX Option C | LeastC | rem_leastc | 4.628709 |
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| GENEX Option C | LeastC | rem_leastc | 875.1531 |
| GENEX Option C | LeastC | rem_leastc | 5.458226 |
| GENEX Option C | LeastC | rem_leastc | 5.761792 |
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| GENEX Option C | LeastC | rem_leastc | 19.86604 |
| GENEX Option C | LeastC | rem_leastc | 144.7855 |
| GENEX Option C | LeastC | rem_leastc | 40.26181 |
| GENEX Option C | LeastC | rem_leastc | 239.4669 |
| GENEX Option C | LeastC | rem_leastc | 135.8535 |
| GENEX Option C | LeastC | rem_leastc | 6.56791 |
| GENEX Option C | LeastC | rem_leastc | 1.495947 |
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| GENEX Option C | LeastC | rem_leastc | 17.69808 |

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| GENEX Option C | LeastC | rem_leastc | 7.514547 |
| GENEX Option C | LeastC | rem_leastc | 508.631 |
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| GENEX Option C | LeastC | rem_leastc | 104.0435 |
| GENEX Option C | LeastC | rem_leastc | 4.416903 |
| GENEX Option C | LeastC | rem_leastc | 0.859066 |
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| GENEX Option C | LeastC | rem_leastc | 4.302634 |
| GENEX Option C | LeastC | rem_leastc | 40.54574 |
| GENEX Option C | LeastC | rem_leastc | 46.35656 |
| GENEX Option C | LeastC | rem_leastc | 35.1372 |
| GENEX Option C | LeastC | rem_leastc | 21.46795 |
| GENEX Option C | LeastC | rem_leastc | 63.82186 |
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| GENEX Option C | LeastC | rem_leastc | 488.7074 |
| GENEX Option C | LeastC | rem_leastc | 91.32114 |
| GENEX Option C | LeastC | rem_leastc | 17.66116 |
| GENEX Option C | LeastC | rem_leastc | 9.664155 |
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| GENEX Option C | LeastC | rem_leastc | 47.85526 |
| GENEX Option C | LeastC | rem_leastc | 76.16868 |
| GENEX Option C | LeastC | rem_leastc | 478.2442 |
| GENEX Option C | LeastC | rem_leastc | 4.100452 |
| GENEX Option C | LeastC | rem_leastc | 145.1778 |
| GENEX Option C | LeastC | rem_leastc | 64.6371 |
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| GENEX Option C | LeastC | rem_leastc | 0.043366 |
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| GENEX Option C | LeastC | rem_leastc | 31.21998 |
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| GENEX Option C | LeastC | rem_leastc | 17.49671 |
| GENEX Option C | LeastC | rem_leastc | 70.5411 |
| GENEX Option C | LeastC | rem_leastc | 13.06975 |
| GENEX Option C | LeastC | rem_leastc | 2.843588 |
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| GENEX Option C | LeastC | rem_leastc | 20.83647 |
| GENEX Option C | LeastC | rem_leastc | 22.70387 |
| GENEX Option C | LeastC | rem_leastc | 1388.618 |
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| GENEX Option C | LeastC | rem_leastc | 126.8936 |
| GENEX Option C | LeastC | rem_leastc | 330.4297 |
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| GENEX Option C | LeastC | rem_leastc | 33.50958 |
| GENEX Option C | LeastC | rem_leastc | 500.0821 |
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| GENEX Option C | LeastC | rem_leastc | 50.82704 |
| GENEX Option C | LeastC | rem_leastc | 27.28552 |
| GENEX Option C | LeastC | rem_leastc | 123.2228 |
| GENEX Option C | LeastC | rem_leastc | 367.1263 |
| GENEX Option C | LeastC | rem_leastc | 34.76944 |
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| GENEX Option C | LeastC | rem_leastc | 80.41676 |

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| GENEX Option C | LeastC | rem_leastc | 1.27862 |
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| GENEX Option C | LeastC | rem_leastc | 12.90265 |
| GENEX Option C | LeastC | rem_leastc | 0.324657 |
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| GENEX Option C | LeastC | rem_leastc | 4.292203 |
| GENEX Option C | LeastC | rem_leastc | 12.06587 |
| GENEX Option C | LeastC | rem_leastc | 3.785718 |
| GENEX Option C | LeastC | rem_leastc | 0.559217 |
| GENEX Option C | LeastC | rem_leastc | 170.6071 |
| GENEX Option C | LeastC | rem_leastc | 44.47043 |
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| GENEX Option C | LeastC | rem_leastc | 81.53098 |
| GENEX Option C | LeastC | rem_leastc | 8.319718 |
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| GENEX Option C | LeastC | rem_leastc | 13.44255 |
| GENEX Option C | LeastC | rem_leastc | 5.069492 |
| GENEX Option C | LeastC | rem_leastc | 17.85633 |
| GENEX Option C | LeastC | rem_leastc | 15.8381 |
| GENEX Option C | LeastC | rem_leastc | 59.0309 |
| GENEX Option C | LeastC | rem_leastc | 135.982 |
| GENEX Option C | LeastC | rem_leastc | 26.17916 |
| GENEX Option C | LeastC | rem_leastc | 12.59796 |
| GENEX Option C | LeastC | rem_leastc | 29.47318 |
| GENEX Option C | LeastC | rem_leastc | 109.8415 |
| GENEX Option C | LeastC | rem_leastc | 149.8079 |
| GENEX Option C | LeastC | rem_leastc | 462.3725 |
| GENEX Option C | LeastC | rem_leastc | 210.8056 |
| GENEX Option C | LeastC | rem_leastc | 96.2025 |
| GENEX Option C | LeastC | rem_leastc | 11.50008 |
| GENEX Option C | LeastC | rem_leastc | 10.76424 |
| GENEX Option C | LeastC | rem_leastc | 183.6566 |
| GENEX Option C | LeastC | rem_leastc | 17.68986 |
| GENEX Option C | LeastC | rem_leastc | 190.5614 |
| GENEX Option C | LeastC | rem_leastc | 12.3432 |
| GENEX Option C | LeastC | rem_leastc | 59.1258 |
| GENEX Option C | LeastC | rem_leastc | 8.331762 |
| GENEX Option C | LeastC | rem_leastc | 2.857761 |
| GENEX Option C | LeastC | rem_leastc | 8.412393 |
| GENEX Option C | LeastC | rem_leastc | 604.5275 |
| GENEX Option C | LeastC | rem_leastc | 9.989402 |
| GENEX Option C | LeastC | rem_leastc | 61.22569 |
| GENEX Option C | LeastC | rem_leastc | 26.86946 |
| GENEX Option C | LeastC | rem_leastc | 1.759112 |
| GENEX Option C | LeastC | rem_leastc | 129.2239 |
| GENEX Option C | LeastC | rem_leastc | 13.45173 |
| GENEX Option C | LeastC | rem_leastc | 2.664493 |
| GENEX Option C | LeastC | rem_leastc | 58.33691 |
| GENEX Option C | LeastC | rem_leastc | 17.44888 |
| GENEX Option C | LeastC | rem_leastc | 7.161197 |
| GENEX Option C | LeastC | rem_leastc | 348.5125 |
| GENEX Option C | LeastC | rem_leastc | 0.257113 |
| GENEX Option C | LeastC | rem_leastc | 9.412106 |
| GENEX Option C | LeastC | rem_leastc | 1.264701 |
| GENEX Option C | LeastC | rem_leastc | 553.999 |
| GENEX Option C | LeastC | rem_leastc | 192.4199 |
| GENEX Option C | LeastC | rem_leastc | 9.22467 |
| GENEX Option C | LeastC | rem_leastc | 7.926539 |
| GENEX Option C | LeastC | rem_leastc | 29.46511 |
| GENEX Option C | LeastC | rem_leastc | 324.4124 |
| GENEX Option C | LeastC | rem_leastc | 4.364596 |
| GENEX Option C | LeastC | rem_leastc | 248.962 |
| GENEX Option C | LeastC | rem_leastc | 10.31886 |
| GENEX Option C | LeastC | rem_leastc | 215.5128 |
| GENEX Option C | LeastC | rem_leastc | 64.58989 |
| GENEX Option C | LeastC | rem_leastc | 25.19911 |
| GENEX Option C | LeastC | rem_leastc | 404.6123 |
| GENEX Option C | LeastC | rem_leastc | 0.053489 |
| GENEX Option C | LeastC | rem_leastc | 4.220058 |
| GENEX Option C | LeastC | rem_leastc | 10.04527 |
| GENEX Option C | LeastC | rem_leastc | 2.741389 |
| GENEX Option C | LeastC | rem_leastc | 0.589376 |
| GENEX Option C | LeastC | rem_leastc | 25.03669 |
| GENEX Option C | LeastC | rem_leastc | 0.008478 |
| GENEX Option C | LeastC | rem_leastc | 0.289362 |
| GENEX Option C | LeastC | rem_leastc | 25.32193 |

| | | | |
|----------------|--------|------------|----------|
| GENEX Option C | LeastC | rem_leastc | 120.4981 |
| GENEX Option C | LeastC | rem_leastc | 192.5669 |
| GENEX Option C | LeastC | rem_leastc | 53.11645 |
| GENEX Option C | LeastC | rem_leastc | 22.14615 |
| GENEX Option C | LeastC | rem_leastc | 17.90449 |
| GENEX Option C | LeastC | rem_leastc | 100.6029 |
| GENEX Option C | LeastC | rem_leastc | 40.38307 |
| GENEX Option C | LeastC | rem_leastc | 16.41434 |
| GENEX Option C | LeastC | rem_leastc | 9.77248 |
| GENEX Option C | LeastC | rem_leastc | 32.21486 |
| GENEX Option C | LeastC | rem_leastc | 46.3546 |
| GENEX Option C | LeastC | rem_leastc | 0.008122 |
| GENEX Option C | LeastC | rem_leastc | 44.16289 |
| GENEX Option C | LeastC | rem_leastc | 5.923245 |
| GENEX Option C | LeastC | rem_leastc | 3.490973 |
| GENEX Option C | LeastC | rem_leastc | 131.4287 |
| GENEX Option C | LeastC | rem_leastc | 8.152129 |
| GENEX Option C | LeastC | rem_leastc | 0.000275 |
| GENEX Option C | LeastC | rem_leastc | 0.000024 |
| GENEX Option C | LeastC | rem_leastc | 63.09774 |
| GENEX Option C | LeastC | rem_leastc | 1.551911 |
| GENEX Option C | LeastC | rem_leastc | 6.945101 |
| GENEX Option C | LeastC | rem_leastc | 0.000132 |
| GENEX Option C | LeastC | rem_leastc | 11.23512 |
| GENEX Option C | LeastC | rem_leastc | 3.025342 |
| GENEX Option C | LeastC | rem_leastc | 96.39073 |
| GENEX Option C | LeastC | rem_leastc | 15.80917 |
| GENEX Option C | LeastC | rem_leastc | 192.9281 |
| GENEX Option C | LeastC | rem_leastc | 0.037976 |
| GENEX Option C | LeastC | rem_leastc | 49.50354 |
| GENEX Option C | LeastC | rem_leastc | 125.1382 |
| GENEX Option C | LeastC | rem_leastc | 20.527 |
| GENEX Option C | LeastC | rem_leastc | 2.774712 |
| GENEX Option C | LeastC | rem_leastc | 102.0444 |
| GENEX Option C | LeastC | rem_leastc | 4.059098 |
| GENEX Option C | LeastC | rem_leastc | 0.453452 |
| GENEX Option C | LeastC | rem_leastc | 12.2734 |
| GENEX Option C | LeastC | rem_leastc | 8.720471 |
| GENEX Option C | LeastC | rem_leastc | 9.605091 |
| GENEX Option C | LeastC | rem_leastc | 0.326735 |
| GENEX Option C | LeastC | rem_leastc | 0.727728 |
| GENEX Option C | LeastC | rem_leastc | 0.288437 |
| GENEX Option C | LeastC | rem_leastc | 13.82986 |
| GENEX Option C | LeastC | rem_leastc | 57.22385 |
| GENEX Option C | LeastC | rem_leastc | 4.842688 |
| GENEX Option C | LeastC | rem_leastc | 32.01963 |
| GENEX Option C | LeastC | rem_leastc | 0.78514 |
| GENEX Option C | LeastC | rem_leastc | 31.26611 |
| GENEX Option C | LeastC | rem_leastc | 0.826022 |
| GENEX Option C | LeastC | rem_leastc | 0.584156 |
| GENEX Option C | LeastC | rem_leastc | 0.600281 |
| GENEX Option C | LeastC | rem_leastc | 6.922604 |
| GENEX Option C | LeastC | rem_leastc | 51.43218 |
| GENEX Option C | LeastC | rem_leastc | 133.6165 |
| GENEX Option C | LeastC | rem_leastc | 10.23287 |
| GENEX Option C | LeastC | rem_leastc | 0.001706 |
| GENEX Option C | O-dom | rem_oc | 36.82174 |
| GENEX Option C | O-dom | rem_oc | 204.122 |
| GENEX Option C | O-dom | rem_oc | 11.61961 |
| GENEX Option C | O-dom | rem_oc | 1.779747 |
| GENEX Option C | O-dom | rem_oc | 8.058584 |
| GENEX Option C | O-dom | rem_oc | 0.817491 |
| GENEX Option C | O-dom | rem_oc | 2.47765 |
| GENEX Option C | O-dom | rem_oc | 3.34409 |
| GENEX Option C | O-dom | rem_oc | 5.401993 |
| GENEX Option C | O-dom | rem_oc | 5.250489 |
| GENEX Option C | O-dom | rem_oc | 4.760309 |
| GENEX Option C | O-dom | rem_oc | 0.746089 |
| GENEX Option C | O-dom | rem_oc | 270.0271 |
| GENEX Option C | O-dom | rem_oc | 374.3618 |
| GENEX Option C | O-dom | rem_oc | 1.946463 |
| GENEX Option C | O-dom | rem_oc | 1.771366 |
| GENEX Option C | O-dom | rem_oc | 108.0733 |
| GENEX Option C | O-dom | rem_oc | 0.590693 |
| GENEX Option C | O-dom | rem_oc | 26.872 |
| GENEX Option C | O-dom | rem_oc | 8.038469 |
| GENEX Option C | O-dom | rem_oc | 9.653946 |
| GENEX Option C | O-dom | rem_oc | 0.792089 |

1519 Total OC-dom remnant for Option C

| | | | |
|----------------|----------|--------|----------|
| GENEX Option C | O-dom | rem_oc | 5.615905 |
| GENEX Option C | O-dom | rem_oc | 11.75996 |
| GENEX Option C | O-dom | rem_oc | 20.59073 |
| GENEX Option C | O-dom | rem_oc | 21.60491 |
| GENEX Option C | O-dom | rem_oc | 9.712734 |
| GENEX Option C | O-dom | rem_oc | 5.799722 |
| GENEX Option C | O-dom | rem_oc | 0.046029 |
| GENEX Option C | O-dom | rem_oc | 4.964713 |
| GENEX Option C | O-dom | rem_oc | 5.718127 |
| GENEX Option C | O-dom | rem_oc | 1.30439 |
| GENEX Option C | O-dom | rem_oc | 0.502309 |
| GENEX Option C | O-dom | rem_oc | 0.053237 |
| GENEX Option C | O-dom | rem_oc | 0.43457 |
| GENEX Option C | O-dom | rem_oc | 58.61665 |
| GENEX Option C | O-dom | rem_oc | 62.13515 |
| GENEX Option C | O-dom | rem_oc | 4.286207 |
| GENEX Option C | O-dom | rem_oc | 8.433967 |
| GENEX Option C | O-dom | rem_oc | 4.418017 |
| GENEX Option C | O-dom | rem_oc | 0.816551 |
| GENEX Option C | O-dom | rem_oc | 1.360325 |
| GENEX Option C | O-dom | rem_oc | 0.61658 |
| GENEX Option C | O-dom | rem_oc | 0.594068 |
| GENEX Option C | O-dom | rem_oc | 9.111942 |
| GENEX Option C | O-dom | rem_oc | 8.567498 |
| GENEX Option C | O-dom | rem_oc | 5.563262 |
| GENEX Option C | O-dom | rem_oc | 58.10314 |
| GENEX Option C | O-dom | rem_oc | 11.76356 |
| GENEX Option C | O-dom | rem_oc | 15.50552 |
| GENEX Option C | O-dom | rem_oc | 4.488126 |
| GENEX Option C | O-dom | rem_oc | 3.278022 |
| GENEX Option C | O-dom | rem_oc | 3.436123 |
| GENEX Option C | O-dom | rem_oc | 11.64185 |
| GENEX Option C | O-dom | rem_oc | 18.22205 |
| GENEX Option C | O-dom | rem_oc | 0.0018 |
| GENEX Option C | O-dom | rem_oc | 4.444007 |
| GENEX Option C | O-dom | rem_oc | 6.059981 |
| GENEX Option C | O-dom | rem_oc | 0.338932 |
| GENEX Option C | O-dom | rem_oc | 15.98738 |
| GENEX Option C | O-dom | rem_oc | 0.645188 |
| GENEX Option C | O-dom | rem_oc | 3.072902 |
| GENEX Option C | O-dom | rem_oc | 0.000344 |
| GENEX Option C | O-dom | rem_oc | 9.199158 |
| GENEX Option C | O-dom | rem_oc | 6.182994 |
| GENEX Option C | O-dom | rem_oc | 6.221117 |
| GENEX Option C | O-subdom | rem_oc | 11.81888 |
| GENEX Option C | O-subdom | rem_oc | 24.94581 |
| GENEX Option C | O-subdom | rem_oc | 0.873514 |
| GENEX Option C | O-subdom | rem_oc | 63.09472 |
| GENEX Option C | O-subdom | rem_oc | 58.16346 |
| GENEX Option C | O-subdom | rem_oc | 7.270746 |
| GENEX Option C | O-subdom | rem_oc | 2.117614 |
| GENEX Option C | O-subdom | rem_oc | 59.27586 |
| GENEX Option C | O-subdom | rem_oc | 21.51577 |
| GENEX Option C | O-subdom | rem_oc | 85.42148 |

334 Total OC-subdom remnant for Option C

Kidston Corridor Option A - Woody vegetation assessment

| Name | Class_name | VMA_Status | Area_ha_options | | |
|-----------------|------------------|------------------------------------|-----------------|-------|---|
| Genex: Option A | AdjustNC_LeastC | Least concern | 0.3024611 | 37602 | Total Least concern remnant for Option A |
| Genex: Option A | NONREMNANT | Non-remnant | 0.0865846 | 2174 | Total non-remnant vegetation for Option A |
| Genex: Option A | EASE | Non-remnant bare earth and water | 0.08631 | 4670 | Total non-remnant bare earth and water for Option A |
| Genex: Option A | O-dom | Of concern - dominant | 0.0896216 | 1535 | Total Of concern-dom remnant for Option A |
| Genex: Option A | grassOC_O-subdom | Of concern - sub dominant | 0.09 | 549 | Total Of concern-subdom for Option A |
| Genex: Option A | ScatNC_LeastC | Potential least concern | 0.0945669 | 9002 | Total Potential Least concern remnant for Option A |
| Genex: Option A | ScatNC_O-dom | Potential of concern - dominant | 0.1799997 | 240 | Total Potential Of concern-dom remnant for Option A |
| Genex: Option A | ScatOC_O-subdom | Potential of concern - subdominant | 0.36 | 364 | Total Potential Of concern-subdom remnant vegetation for Option A |
| Genex: Option A | REGROWTH | Potential regrowth | 0.18 | 235 | Total Potential regrowth for Option A |
| Genex: Option A | Regrowth_LeastC | Regrowth Least concern | 1.2600001 | 48 | Total Least concern regrowth for Option A |
| Genex: Option A | Regrowth_O-dom | Regrowth Of concern dominant | 1.2599993 | 6.9 | Total Of concern-dom regrowth for Option A |

Kidston Corridor Option B - Woody vegetation assessment

| Name | Class_name | VMA_Status | Area_ha_options | | |
|-----------------|-------------------|------------------------------------|-----------------|-------|--|
| Genex: Option B | AdjustNC_LeastC | Least concern | 0.3024611 | 37969 | Total Least concern remnant for Option B |
| Genex: Option B | NONREMNANT | Non-remnant | 0.0865846 | 1812 | Total non-remnant vegetation for Option B |
| Genex: Option B | EASE | Non-remnant bare earth and water | 0.08631 | 5428 | Total non-remnant bare earth and water for Option B |
| Genex: Option B | O-dom | Of concern - dominant | 0.0896216 | 1460 | Total Of concern-dom remnant for Option B |
| Genex: Option B | AdjustOC_O-subdom | Of concern - sub dominant | 0.09 | 295 | Total Of concern-subdom for Option B |
| Genex: Option B | ScatNC_LeastC | Potential least concern | 0.0945669 | 8439 | Potential Least concern remnant for Option B |
| Genex: Option B | ScatOC_O-dom | Potential of concern - dominant | 1.2775804 | 344 | Total Potential Of concern-dom remnant for Option B |
| Genex: Option B | dryOC_O-subdom | Potential of concern - subdominant | 0.1759937 | 87 | Total Potential Of concern-subdom remnant for Option B |
| Genex: Option B | REGROWTH | Potential regrowth | 0.18 | 219 | Total Potential regrowth for Option B |
| Genex: Option B | Regrowth_LeastC | Regrowth Least concern | 1.2600001 | 214 | Total Least concern regrowth for Option B |
| Genex: Option B | NONREMNANT | Regrowth Of concern dominant | 0.09 | 6.6 | Total Of concern-dom regrowth for Option B |

Kidston Corridor Option C - Woody vegetation assessment

| Name | Class_name | VMA_Status | Area_ha_options | | |
|----------------|-------------------|------------------------------------|-----------------|-------|---|
| GENEX Option C | AdjustNC_LeastC | Least concern | 0.3024611 | 38808 | Total Least concern remnant for Option C |
| GENEX Option C | NONREMNANT | Non-remnant | 0.0865846 | 1718 | Total non-remnant vegetation for Option C |
| GENEX Option C | EASE | Non-remnant bare earth and water | 0.08631 | 5771 | Total non-remnant bare earth and water for Option C |
| GENEX Option C | O-dom | Of concern - dominant | 0.0896216 | 1223 | Total Of concern-dom remnant for Option C |
| GENEX Option C | AdjustOC_O-subdom | Of concern - sub dominant | 0.09 | 618 | Total Of concern-subdom for Option C |
| GENEX Option C | ScatNC_LeastC | Potential least concern | 0.0945669 | 8494 | Total Potential Least concern remnant for Option C |
| GENEX Option C | ScatOC_O-dom | Potential of concern - dominant | 1.2775804 | 431 | Total Potential Of concern-dom remnant for Option C |
| GENEX Option C | dryOC_O-subdom | Potential of concern - subdominant | 0.1759937 | 37 | Total Potential Of concern-subdom remnant vegetation for Option C |
| GENEX Option C | REGROWTH | Potential regrowth | 0.18 | 291 | Total Potential regrowth for Option C |
| GENEX Option C | Regrowth_LeastC | Regrowth Least concern | 1.2600001 | 172 | Total Least concern regrowth for Option C |
| GENEX Option C | Regrowth_O-dom | Regrowth Of concern dominant | 1.2599993 | 28.8 | Total Of concern-dom regrowth for Option C |

Kidston Corridor Option A - Regulated remnant watercourse vegetation

| Name | Scale | Bioregion_type | SO_group | Buffer_m | Area_ha | | |
|-----------------|--------|----------------|--------------|----------|----------|------|-----------------------|
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 2579.422 | | |
| Genex: Option A | 250000 | Non-coastal | 1 or 2 | 25 | 520.0739 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 45.31245 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 21.86686 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 243.4169 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 11.34511 | | |
| Genex: Option A | 250000 | Non-coastal | 1 or 2 | 25 | 4.666213 | | |
| Genex: Option A | 250000 | Non-coastal | 1 or 2 | 25 | 5.498384 | | |
| Genex: Option A | 250000 | Non-coastal | 1 or 2 | 25 | 0.118428 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 0.414786 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 5.22667 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 2.777769 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 173.8444 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 3.009753 | | |
| Genex: Option A | 100000 | Non-coastal | 1 or 2 | 25 | 1.857839 | 3619 | Total SO 1 or 2 |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 815.3475 | | |
| Genex: Option A | 250000 | Non-coastal | 3 or 4 | 50 | 304.8283 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 45.31245 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 13.60399 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 64.05599 | | |
| Genex: Option A | 250000 | Non-coastal | 3 or 4 | 50 | 4.666213 | | |
| Genex: Option A | 250000 | Non-coastal | 3 or 4 | 50 | 15.28811 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 0.414786 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 5.22667 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 1.382051 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 14.05157 | | |
| Genex: Option A | 250000 | Non-coastal | 3 or 4 | 50 | 13.67417 | | |
| Genex: Option A | 100000 | Non-coastal | 3 or 4 | 50 | 3.009753 | 1301 | Total SO 3 or 4 |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 569.3731 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 21.86686 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 13.60399 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 44.12056 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 0.414786 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 2.777769 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 1.382051 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 9.204484 | | |
| Genex: Option A | 100000 | Non-coastal | 5 or greater | 100 | 1.857839 | 665 | Total SO 5 or greater |

| Name | Scale | Bioregion_type | SO_group | Buffer_m | Area_ha | | |
|-----------------|--------|----------------|----------|----------|----------|----|-----------------|
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 32.52427 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 1.026032 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 9.624821 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 2.416613 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 0.273101 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 0.132366 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 18.08111 | | |
| Genex: Option A | 100000 | Coastal | 1 or 2 | 10 | 0.545677 | 65 | Total SO 1 or 2 |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 25.12747 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 1.026032 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 5.460993 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 7.603141 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 0.273101 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 0.132366 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 13.3057 | | |
| Genex: Option A | 100000 | Coastal | 3 or 4 | 25 | 0.545677 | 53 | Total SO 3 or 4 |

Kidston Corridor Option B - Regulated remnant watercourse vegetation

| Name | Scale | Bioregion_type | SO_group | Buffer_m | Area_ha | | |
|-----------------|--------|----------------|--------------|----------|----------|------|-----------------------|
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 1060.103 | | |
| Genex: Option B | 250000 | Non-coastal | 1 or 2 | 25 | 177.1531 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 21.94918 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 7.799067 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 243.4169 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 1370.482 | | |
| Genex: Option B | 250000 | Non-coastal | 1 or 2 | 25 | 5.498384 | | |
| Genex: Option B | 250000 | Non-coastal | 1 or 2 | 25 | 400.4101 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 5.22667 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 32.08263 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 2.777769 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 9.573953 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 173.8444 | | |
| Genex: Option B | 250000 | Non-coastal | 1 or 2 | 25 | 2.500361 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 0.164711 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 3.009753 | | |
| Genex: Option B | 100000 | Non-coastal | 1 or 2 | 25 | 1.857839 | 3518 | Total SO 1 or 2 |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 521.8199 | | |
| Genex: Option B | 250000 | Non-coastal | 3 or 4 | 50 | 60.40728 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 21.94918 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 7.825659 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 64.05599 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 426.1213 | | |
| Genex: Option B | 250000 | Non-coastal | 3 or 4 | 50 | 144.8488 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 5.22667 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 32.08263 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 1.382051 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 5.80639 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 14.05157 | | |
| Genex: Option B | 250000 | Non-coastal | 3 or 4 | 50 | 2.500361 | | |
| Genex: Option B | 250000 | Non-coastal | 3 or 4 | 50 | 13.67417 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 0.164711 | | |
| Genex: Option B | 100000 | Non-coastal | 3 or 4 | 50 | 3.009753 | 1325 | Total SO 3 or 4 |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 313.161 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 7.799067 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 7.825659 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 44.12056 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 300.0754 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 2.777769 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 9.573953 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 1.382051 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 5.80639 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 9.204484 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 0.164711 | | |
| Genex: Option B | 100000 | Non-coastal | 5 or greater | 100 | 1.857839 | 704 | Total SO 5 or greater |

| Name | Scale | Bioregion_type | SO_group | Buffer_m | Area_ha | | |
|-----------------|--------|----------------|----------|----------|----------|----|-----------------|
| Genex: Option B | 100000 | Coastal | 1 or 2 | 10 | 0.844454 | | |
| Genex: Option B | 100000 | Coastal | 1 or 2 | 10 | 9.624821 | | |
| Genex: Option B | 100000 | Coastal | 1 or 2 | 10 | 0.502938 | | |
| Genex: Option B | 100000 | Coastal | 1 or 2 | 10 | 0.273101 | | |
| Genex: Option B | 100000 | Coastal | 1 or 2 | 10 | 18.08111 | | |
| Genex: Option B | 100000 | Coastal | 1 or 2 | 10 | 0.545677 | 30 | Total SO 1 or 2 |
| Genex: Option B | 100000 | Coastal | 3 or 4 | 25 | 5.460993 | | |
| Genex: Option B | 100000 | Coastal | 3 or 4 | 25 | 0.273101 | | |
| Genex: Option B | 100000 | Coastal | 3 or 4 | 25 | 13.3057 | | |
| Genex: Option B | 100000 | Coastal | 3 or 4 | 25 | 0.545677 | 20 | Total SO 3 or 4 |

Kidston Corridor Option C - Regulated remnant watercourse vegetation

| Name | Scale | Bioregion_type | SO_group | Buffer_m | Area_ha | |
|----------------|--------|----------------|--------------|----------|----------|---------------------------|
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 1196.949 | |
| GENEX Option C | 250000 | Non-coastal | 1 or 2 | 25 | 269.3936 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 32.64234 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 5.424669 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 11.34511 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 1370.482 | |
| GENEX Option C | 250000 | Non-coastal | 1 or 2 | 25 | 1.467238 | |
| GENEX Option C | 250000 | Non-coastal | 1 or 2 | 25 | 0.118428 | |
| GENEX Option C | 250000 | Non-coastal | 1 or 2 | 25 | 400.4101 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 32.08263 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 9.573953 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 173.8444 | |
| GENEX Option C | 250000 | Non-coastal | 1 or 2 | 25 | 2.500361 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 0.164711 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 3.009753 | |
| GENEX Option C | 100000 | Non-coastal | 1 or 2 | 25 | 1.857839 | 3511 Total SO 1 or 2 |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 608.131 | |
| GENEX Option C | 250000 | Non-coastal | 3 or 4 | 50 | 70.14473 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 32.64234 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 8.930733 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 426.1213 | |
| GENEX Option C | 250000 | Non-coastal | 3 or 4 | 50 | 1.467238 | |
| GENEX Option C | 250000 | Non-coastal | 3 or 4 | 50 | 15.28811 | |
| GENEX Option C | 250000 | Non-coastal | 3 or 4 | 50 | 144.8488 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 32.08263 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 5.80639 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 14.05157 | |
| GENEX Option C | 250000 | Non-coastal | 3 or 4 | 50 | 2.500361 | |
| GENEX Option C | 250000 | Non-coastal | 3 or 4 | 50 | 13.67417 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 0.164711 | |
| GENEX Option C | 100000 | Non-coastal | 3 or 4 | 50 | 3.009753 | 1379 Total SO 3 or 4 |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 261.5098 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 5.424669 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 8.930733 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 300.0754 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 9.573953 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 5.80639 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 9.204484 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 0.164711 | |
| GENEX Option C | 100000 | Non-coastal | 5 or greater | 100 | 1.857839 | 603 Total SO 5 or greater |

| Name | Scale | Bioregion_type | SO_group | Buffer_m | Area_ha | |
|----------------|--------|----------------|----------|----------|----------|--------------------|
| GENEX Option C | 100000 | Coastal | 1 or 2 | 10 | 1.590327 | |
| GENEX Option C | 100000 | Coastal | 1 or 2 | 10 | 2.416613 | |
| GENEX Option C | 100000 | Coastal | 1 or 2 | 10 | 0.502938 | |
| GENEX Option C | 100000 | Coastal | 1 or 2 | 10 | 0.132366 | |
| GENEX Option C | 100000 | Coastal | 1 or 2 | 10 | 18.08111 | |
| GENEX Option C | 100000 | Coastal | 1 or 2 | 10 | 0.545677 | 23 Total SO 1 or 2 |
| GENEX Option C | 100000 | Coastal | 3 or 4 | 25 | 7.603141 | |
| GENEX Option C | 100000 | Coastal | 3 or 4 | 25 | 0.132366 | |
| GENEX Option C | 100000 | Coastal | 3 or 4 | 25 | 13.3057 | |
| GENEX Option C | 100000 | Coastal | 3 or 4 | 25 | 0.545677 | 22 Total SO 3 or 4 |

Kidston Corridor Options - Regulated remnant wetland vegetation

| Name | RE | PERCENT | VM_POLY | Area_ha | |
|-----------------|------------------------------|------------|----------|----------|--|
| Genex: Option A | 9.11.15a | 100 | LeastC | 1.926624 | |
| Genex: Option A | 9.3.25 | 100 | LeastC | 0.175368 | |
| Genex: Option A | 9.3.19a/9.3.3a/9.3.23 | 70/20/10 | O-subdom | 2.611455 | 4.7 Total remnant wetland vegetation for Option A |
| Genex: Option B | 9.3.26 | 100 | LeastC | 3.298466 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 7.444698 | |
| Genex: Option B | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 3.873757 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 3.716969 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 3.716969 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 0.039454 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 0.039454 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 6.792229 | |
| Genex: Option B | 9.8.1a/9.8.13 | 80/20 | LeastC | 6.792229 | |
| Genex: Option B | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 0.692628 | |
| Genex: Option B | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 0.692628 | |
| Genex: Option B | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 2.587155 | |
| Genex: Option B | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 2.587155 | 42.3 Total remnant wetland vegetation for Option B |
| GENEX Option C | 9.8.1a/9.8.13 | 80/20 | LeastC | 3.716969 | |
| GENEX Option C | 9.8.1a/9.8.13 | 80/20 | LeastC | 3.716969 | |
| GENEX Option C | 9.8.1a/9.8.13 | 80/20 | LeastC | 0.039454 | |
| GENEX Option C | 9.8.1a/9.8.13 | 80/20 | LeastC | 0.039454 | |
| GENEX Option C | 9.8.1a/9.8.13 | 80/20 | LeastC | 6.792229 | |
| GENEX Option C | 9.8.1a/9.8.13 | 80/20 | LeastC | 6.792229 | |
| GENEX Option C | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 0.692628 | |
| GENEX Option C | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 0.692628 | |
| GENEX Option C | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 2.587155 | |
| GENEX Option C | 9.8.13/9.8.1a/9.8.1b/9.3.10b | 60/20/15/5 | LeastC | 2.587155 | 27.7 Total remnant wetland vegetation for Option C |

Kidston Corridor Options - MSES Protected areas

| Name | M_Table1_1 | M1_1 | M1_1_Type | M1_1_Name | Area_ha | |
|-----------------|--------------------------|-----------------|-----------|--|----------|--|
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NR | Newcastle Range-The Oaks Nature Refuge | 439.8409 | 439.8 Newcastle Range-The Oaks Nature Refuge |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 1.316996 | 4.7 Liefway Nature Refuge |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 0.323124 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 36.85525 | 213.7 Girringun National Park |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 0.000382 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 1.478203 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 28.1685 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 4.236403 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 1.381377 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 2.078499 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 0.414249 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 0.548143 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 117.5568 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 18.62776 | |
| Genex: Option A | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 5.381855 | 658.2 Total hectares for Option A |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 36.85525 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 0.000382 | 214.4 Girringun National Park |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 1.478203 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 28.1685 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 4.236403 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 1.381377 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 0.719896 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 117.5568 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 18.62776 | |
| Genex: Option B | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 5.381855 | 214.4 Total hectares for Option B |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 2.078499 | |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 0.414249 | 3.0 Liefway Nature Refuge |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NR | Liefway Nature Refuge | 0.548143 | |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 0.719896 | 142.3 Girringun National Park |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 117.5568 | |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 18.62776 | |
| GENEX Option C | STATE CONSERVATION AREAS | Protected Areas | NP | Girringun National Park | 5.381855 | 145.3 Total hectares for Option C |

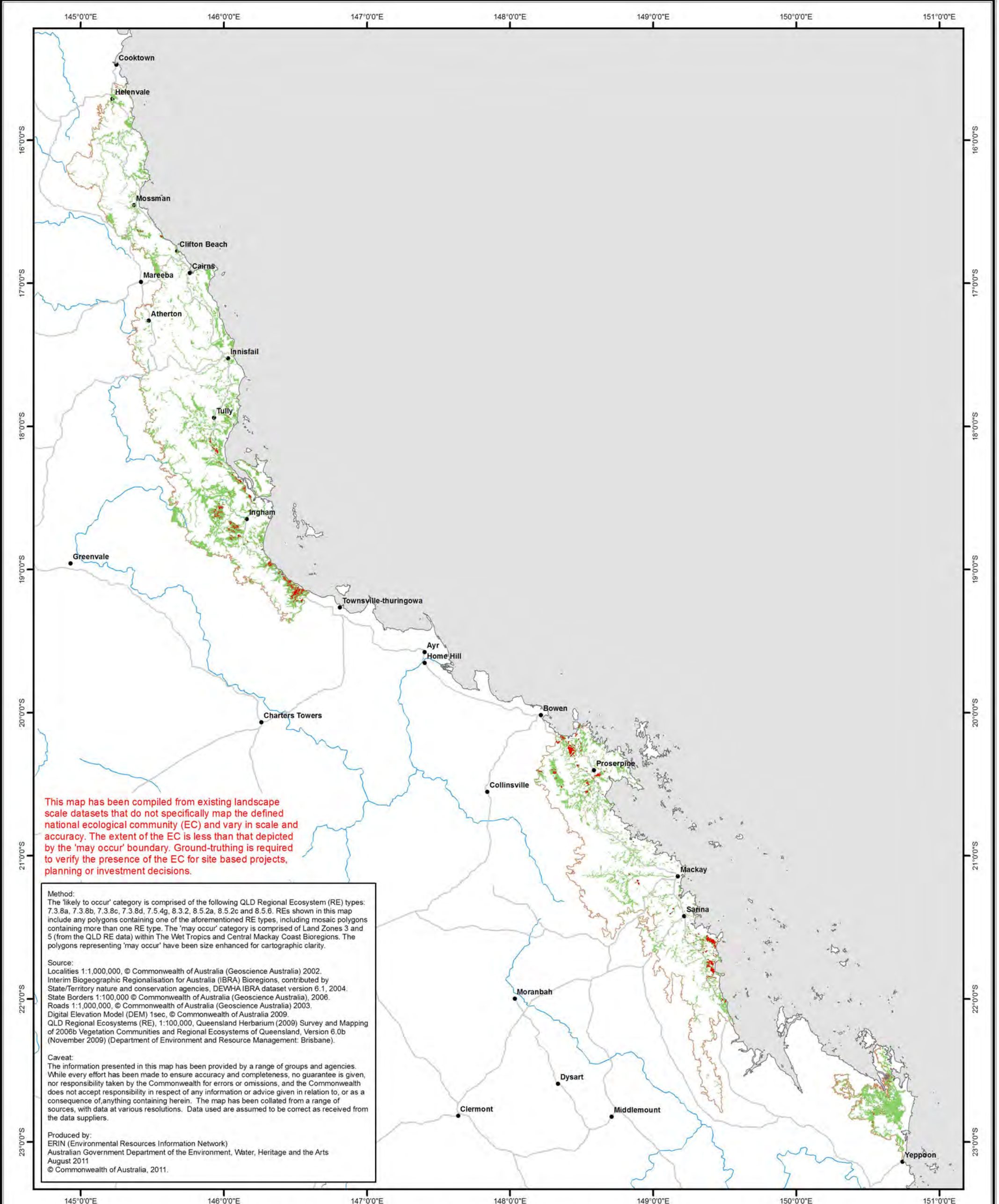
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Kidston Corridor Options - HES Wetlands

| | | | | | | | |
|-----------------|------------------------|--------------|-------------|---------------------------------|----------|-----|-----------------------------|
| Name | M_Table1_2 | M2_1 | M2_1_Des | M2_1_Dat | Area_ha | | |
| Genex: Option B | WETLANDS AND WATERWAYS | HES wetlands | WPA wetland | wetland protection area-wetland | 1.127498 | 1.1 | Total hectares for Option B |

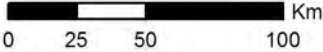
Appendix H

TEC DISTRIBUTION MAP



Melaleuca viridiflora Woodlands in High Rainfall Coastal North Queensland

- Likely
- May
- Localities
- Major Roads
- Drainage
- IBRA regions

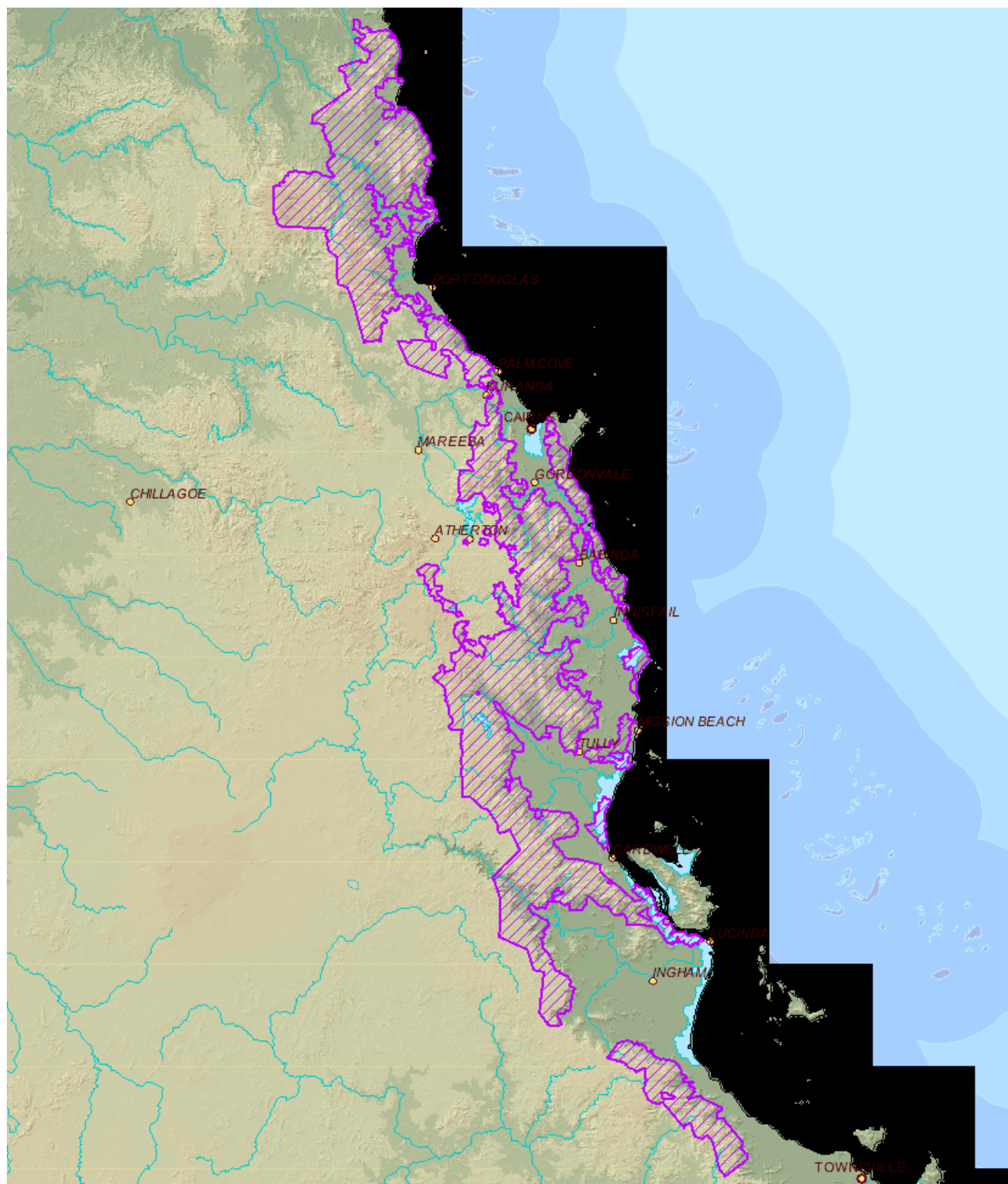


Projection: Geographic
Datum: GDA 1994
1:2,750,000



Appendix I

WORLD HERITAGE PROPERTIES



Place Details



Scale 1:2000000

Place Name: Wet Tropics of Queensland

Place ID: 105689

Heritage List: National Heritage List

Class: Natural

Status: Listed place

Street Name:

Suburb or Town: Cairns

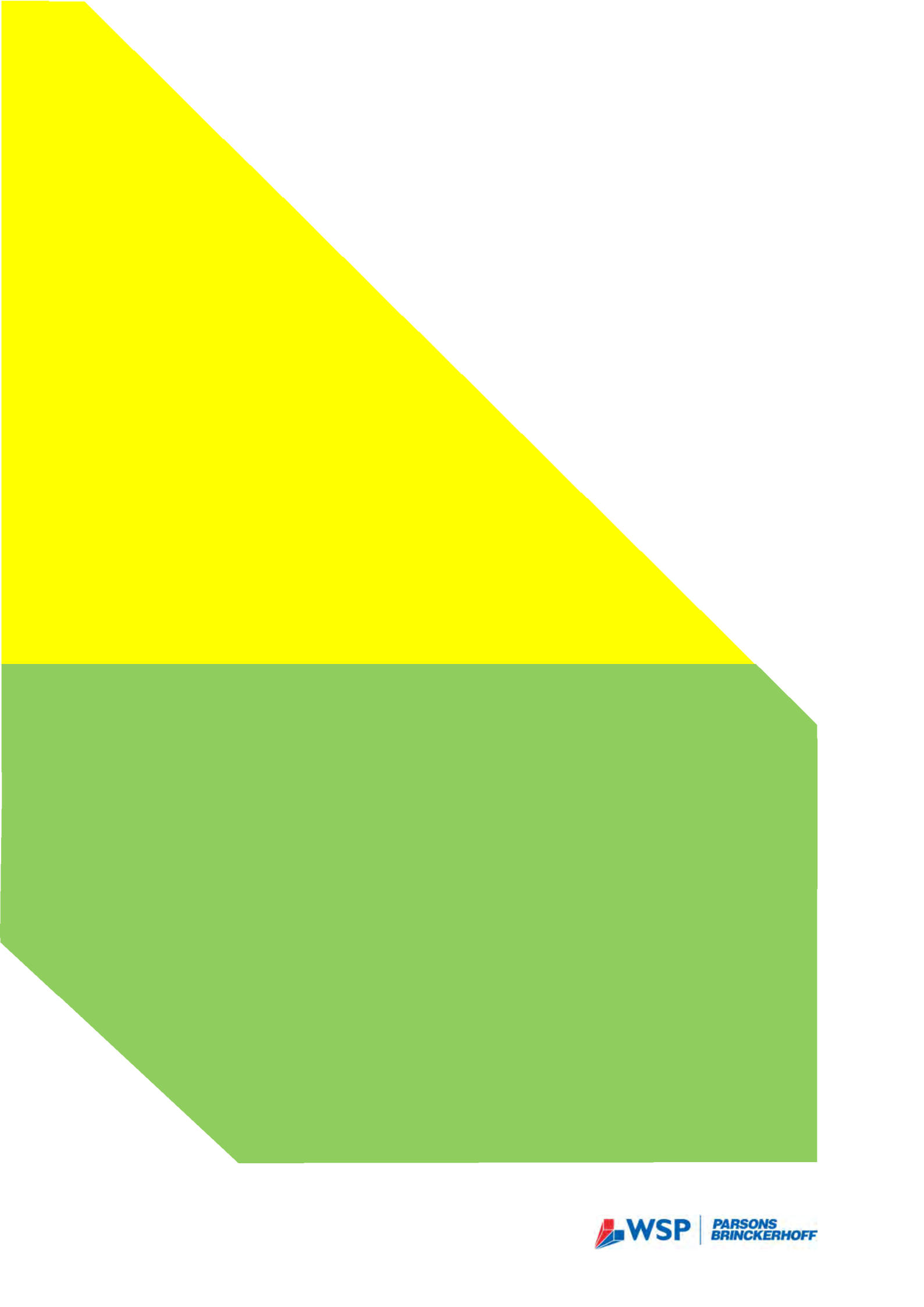
State: QLD

Printed by: LWALL

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Australian Government
Department of the Environment and Water Resources





Attachment 2 – Remote Sensing Report

Genex Kidston Final Corridor Selection Project – Brief Report Woody Vegetation Mapping

The Virtual GIS Group Pty Ltd

53 Wesley Street, Lutwyche QLD 4030 – Commercial in confidence

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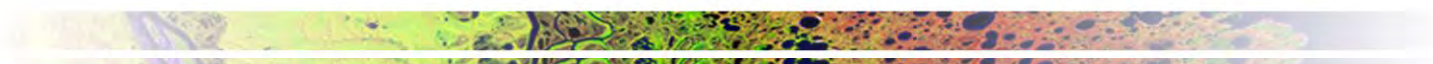
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Introduction

Powerlink have been commissioned to provide final corridor options for the Genex Kidston upgrade. To assist the assessment of potential ecological and environmental relative to the three options being considered, the extent of woody vegetation needed to be mapped. This report summarises the process to map woody vegetation for the Genex Kidston project.

Overview

The purpose of this project was to map the extent of woody vegetation using best available broad scale satellite imagery to assist in subsequent assessment of the ecological value of remnant vegetation near three potential corridor routes.

The work conducted included a review and acquisition of freely available satellite imagery to form the basis of the desktop mapping of woody vegetation. Analysis was conducted using Landsat multispectral satellite imagery at a 30-metre spatial resolution.

The project provides a high-level overview of current woody vegetation cover in relation to existing State mapping, highlighting areas where current mapping may be improved through further investigation. Areas that could be regrowth due to absence of vegetated cover around 15 years ago together with areas where the distribution of canopy could indicate poor condition in existing remnant areas were mapped.

The results of this mapping will be used to assist Parsons Brinckerhoff ecological consultants to produce a desktop assessment of the ecological value of remnant vegetation in and near the proposed easement options and to inform Powerlink of any potential issues in relation to the EPBC Act reporting obligations.

Project Extent

The area of interest is presented in Figure 1. The extent of the project was derived from a one kilometre buffer around the external limits of the provided corridor options, which start in the east near Mount Fox and run westwards for approximately 185 kilometres through the Greenvale and Conjuboy districts in North Queensland. The project extent covers an area of approximately 1,520 km². The project is in a region of relatively dry, scrubby country. The current regional ecosystem mapping indicates that the project extends across bioregions 9 (Einasleigh Uplands) and 7 (Wet Tropics), with most of the area west of Mt Fox falling into the former bioregion. The area is bisected by waterways which tend to run north-south across the project extent and dominant landzones are 3, 5 and 11. Landzone 11 are hills and lowlands on metamorphic rocks. Landzone 5 represents areas of tertiary-early Quaternary loamy and sandy plains and plateaus. Landzone 3 incorporates recent Quaternary alluvial systems along river and creek flats. Landzones 7,8, 10 and 12 are also present across the project extent.

The current regional ecosystem mapping indicates that the project extent, away from the waterways, is dominated by vegetation communities with a scattered canopy. When mapping at a broad scale, this presents as vegetation with low greenness, particularly when the groundcover is very dry grassland. Different images were used to assist in the mapping, particularly to consider changes reflecting the moisture regime at the time of image acquisition.



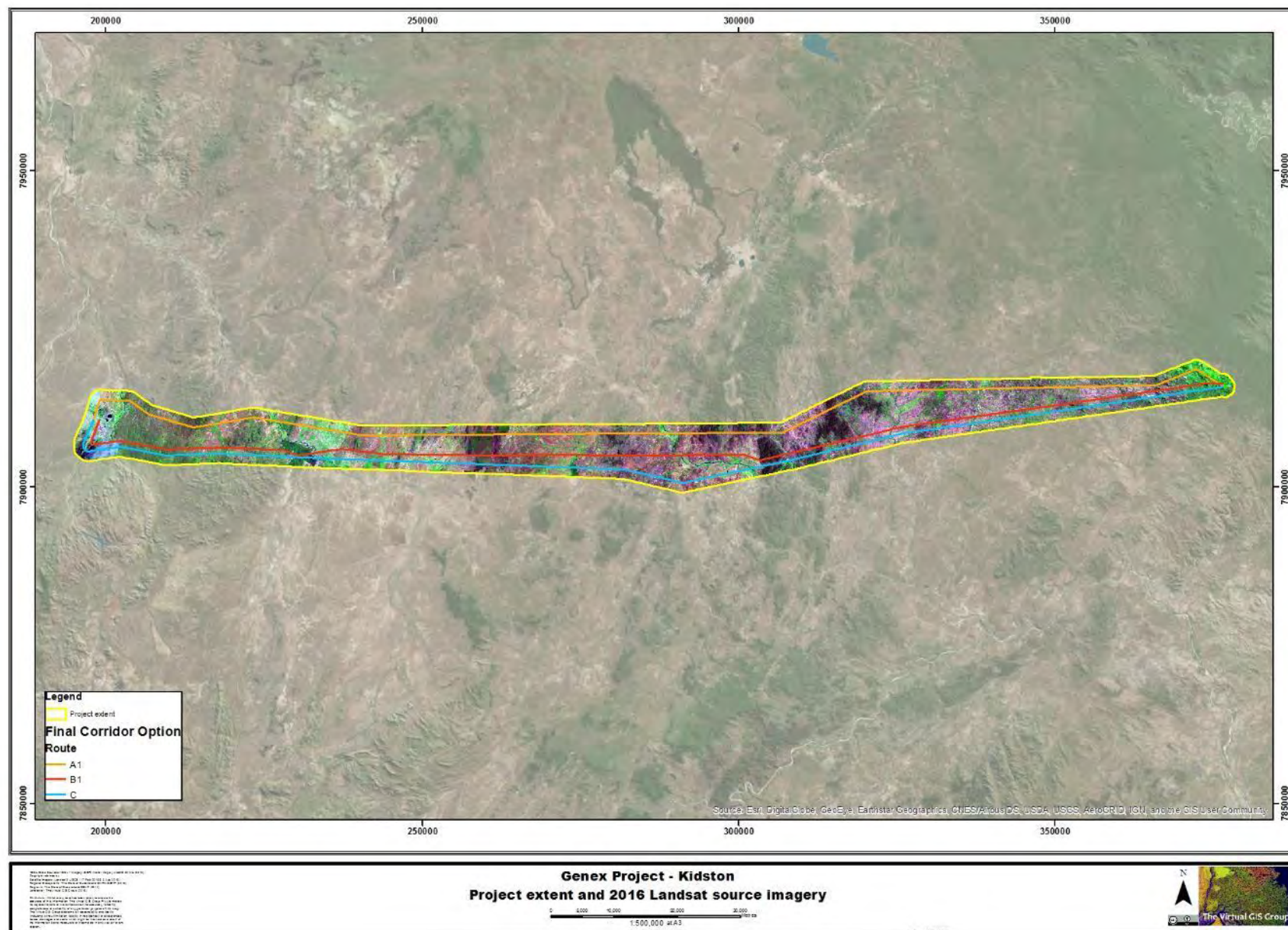


Figure 1: GENEX Kidston project extent and 2016 Landsat source imagery

Source data

Remotely sensed data

This project requires the use of remotely sensed imagery to detect and map woody vegetation across the project extent. Remotely sensed data can be sourced from satellite imagery and aerial photography and the suitability for this project is determined by availability of access, frequency of capture, distribution of cloud cover, availability of legacy or archive data for temporal assessment.

As the project extended over an area of approximately 1,520 square kilometres, a remotely sensed solution based on aerial photography was not considered and satellite imagery was used.

Satellite imagery

Satellite imagery is widely available from a range of international custodians. Most commercial operators charge on an area coverage basis. No budget had been allocated for the purchase of satellite imagery, so available commercial satellites who charge for their data were not considered.

Availability of access

Access was determined for this project by cost and timeframe for the supply. Due to the extent of the project and the need for the project to commence immediately, multi-temporal Landsat data is free to download from the NASA/USGS website and provides broad scale imagery at 30-metre spatial resolution with multispectral coverage. Landsat imagery was sourced from the United States Geological Society (USGS). Two image scenes cover the project extent from Path/Row 96/73 and 95/73.

Frequency of capture

Both Landsat 8 and 7 are currently operational. Landsat 8 is the preferred satellite and has a repeat cycle over the project extent every 16 days. Landsat 7 provides optional infill coverage and legacy coverage from early 2000s.

Distribution of cloud cover

Although the repeat cycle is 16 days for each satellite, the suitability of the imagery is determined by the presence and extent of cloud over the project extent. To select suitable imagery, each capture was reviewed in relation to the GENEX Kidston corridor options to identify which recent scenes would be suit the assessment of woody vegetation.

Availability of legacy or archive satellite imagery

As the Landsat programme has been operational since 1972, legacy data from 2000-2002 was acquired to provide an overview on whether clearing or cultivation had occurred in the past 15 years within the project area. Landsat is the only programme which provides free consistent legacy data at the same spatial resolution over such an extended period.

Suitable cloud-free imagery was available during 2016, to provide a current view on the extent and spatial distribution of the woody vegetation. Additional Landsat scenes for each tile were used to compare different moisture conditions and to infill the 96/73 scene which did include a small amount of cloud in the far western region. Only the primary scene across the full corridor was analysed, to keep costs to a minimum. Legacy scenes were acquired to provide a baseline reference for determining if the vegetated cover is likely to be remnant. Although this is an extension to mapping woody vegetation, it does contribute to the overall assessment of the ecological value of the mapped areas.



The images acquired for the GENEX Kidston assessment are listed in Table 1:

Table 1: Landsat scenes acquired for the GENEX woody vegetation assessment

| Landsat scene (Path/Row) | Primary scene date | Reference scene date | Legacy scene date |
|-------------------------------------|---------------------------|-----------------------------|--------------------------|
| 96/73 (western) | 17 Feb 2016 | 28 Aug 2016 | 23 July 2000 |
| 95/73 (eastern) | 5 August 2016 | 17 July 2015 | 5 July 2002 |

Standard ortho-ready image products were used which contain some variability due to terrain distortions but are usually within 1 pixel accuracy in the horizontal. Where available, surface reflectance imagery was acquired to mitigate the impact of differing atmospheric conditions. This was only available for some sourced imagery and not for all required source data. Adjustments in the methodology were deployed to compensate for these differences. The imagery was therefore not pre-processed, relying on the geometric and radiometric accuracies of the source data. The imagery is suitable for analysis to detect and map woody vegetation at a broad scale.

The methodology used to map the woody vegetation can be deployed using any multispectral source imagery if budget or finer resolution imagery becomes available once the final corridor selection has been made.

Other geospatial datasets

Reference geospatial datasets were sourced to expedite the mapping of woody vegetation. These included:

- Remnant vegetation over the Einasleigh bioregion
- Remnant vegetation over the North-west bioregion
- Regrowth vegetation over the scene extent
- Queensland 1:25,000 drainage
- Queensland Major rivers
- Queensland Statewide landcover and tree study (2000 to 2015) (SLATS)

Other spatial datasets were also generated using finer resolution backdrop only imagery. These data, which were digitised from the screen, included:

- Built structures
- Linear easements, including roads, tracks, powerlines and fences
- Dams
- Waterways

These additional datasets were specifically designed to be aligned with the source imagery and to assist in the assessment of woody vegetation.

SLATS data was aggregated across the 2000 to 2015 assessment period, with all clearance types except damage due to natural disaster being flagged as non-remnant (1,370 sites).

All project-related datasets were prepared and reprojected into GDA 1994 Zone 55.

Methodology

The methodology deployed captured the extent and spatial distribution of current woody vegetation using an object based image classification process. This methodology has been previously deployed



at a wide range of scales and using different remotely sensed source datasets for organisations across Australia and internationally.

The scale of the source imagery determined the granularity achievable for mapping woody vegetation. Given the type of vegetation present within the project extent, woody vegetation was mapped using an approach that enabled the separate discrimination of areas presenting a range of greenness indicators.

The methodology was based on an eCognition Geographic Object Based Image Analysis (GEOBIA) approach which isolated undisturbed, woody areas from other landcovers. Using GEOBIA enabled the use of neighbourhood functions to isolate features, which is critical when discriminating between spectrally similar regions which are contextually different.

2016 vegetation cover mapping

State Government datasets, both existing remnant and regrowth datasets, were used to inform the process, which identified areas which were consistent with current remnant and regrowth vegetation cover mapping. Areas mapped as cleared in the SLATS mapping program from 2000 to 2015 were also attributed as non-remnant, except where those areas were specifically noted as being subject to natural disaster damage in any given year.

Additionally, those areas which appeared to be very scattered with lower levels of vegetated cover were separately identified as potential woody vegetation. The remnant areas were grouped by their VMA status in State Government regional ecosystem mapping and attributed as either remnant or potentially remnant. This interim dataset was used as part of the process to inform woody vegetation mapping and was not included as one of the final deliverables.

Areas where the imagery pattern appeared to be consistent with other areas that have been verified as non-remnant and were adjacent to those areas were mapped as non-remnant. Areas which did not appear to have consistency in the imagery with other areas mapped as remnant were flagged as potential remnant. Some areas of fire scarring were detected but were not separately mapped.

Objects that were identified as nonvegetated 15 years ago but now mapped as woody vegetation were separated from those which were consistently mapped as woody vegetation, to separate potential regrowth zones from remnant and potential remnant areas.

The methodology adopted thresholds to assign classes into remnant, potential remnant or scattered using the spectral characteristics in the Landsat imagery. This was refined through visual reference to the larger scale reference imagery presented above.

2016 woody vegetation mapping

Within the project extent, landcover was mapped to separately identify remnant vegetation cover, from which woody vegetation was aggregated.

The assessment sequence was consistent with the method described by (Neldner, Wilson, E.J.Thompson, & Dillewaard, 2012) for vegetation assessment from imagery only and included an inspection of the legacy scenes across each tile to check for baseline disturbance and/or cultivation in the last 15 years.

Minor variations in vegetation cover were not captured due to the scale of the imagery and the minimum mappable area associated with the spatial resolution of the source Landsat imagery.



The mapping products generated within the GEOBIA environment were exported into vector shapefiles for delivery.

Results and discussion

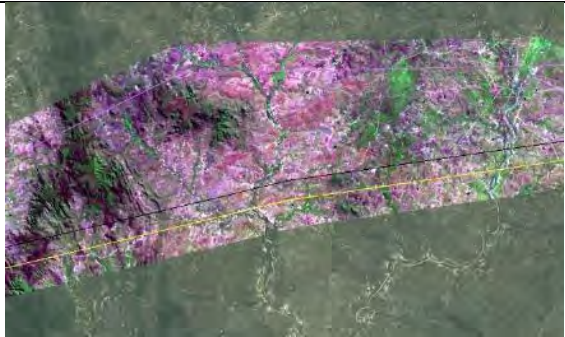

The Landsat satellite imagery was used to derive landcover classification for the project extent from which indicative regional ecosystem mapping was generated. This was then aggregated into the mapping of woody vegetation for the project.

Although the methodology was consistent with that implemented in other major infrastructure projects in central Queensland, the lack of availability of high resolution multispectral imagery limited the ability to reliably discriminate between non-vegetated and dry, scrubby vegetation.

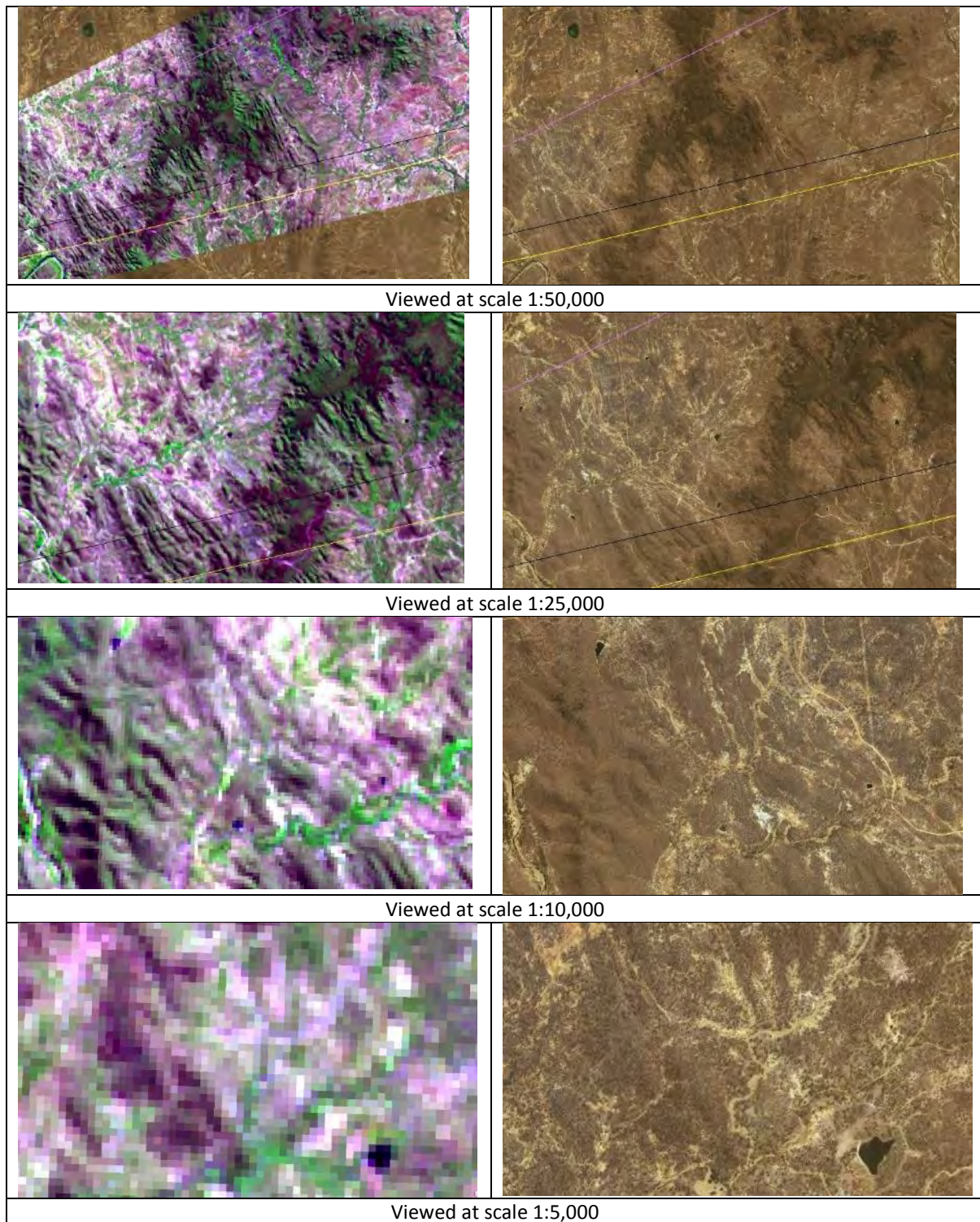
To highlight these limitations, the following set of examples have been generated to demonstrate the resolvable landcover using Landsat data compared to higher resolution imagery. Table 2 contains a set of screen snapshots over the project area captured at a range of viewing scales. The left-hand column contains the Landsat imagery used in this project, while the right-hand column contains examples obtained from the view-only world imagery available through the ESRI ArcGIS online web service.

The examples used include scales from the recommended publication scale of 1:80,000 for Landsat 7 and 8 at 30-metre resolution (Geoimage, 2016) and demonstrate how the reliability of mapping woody vegetation using Landsat imagery only will deteriorate as the scale of mapping required becomes larger. In the Landsat imagery, the spectral bands displayed are 7,5,2 to RGB. Healthy vegetation appears green whereas areas dominated by exposed soil or very dry grasses appear light pink. Woody vegetation with low chlorophyll levels present as dark magenta. In the alternative, higher spatial resolution true-colour reference data, the heavily vegetated areas appear darker than the surrounding grassland and exposed soils.

Table 2: Examples of imagery at viewing scale

| Landsat imagery (30-metre pixel suitable for mapping to 1:80,000) | ESRI ArcGIS online world imagery (indeterminate source date and resolution) |
|---|--|
|  |  |
| Viewed at scale 1:80,000 | |





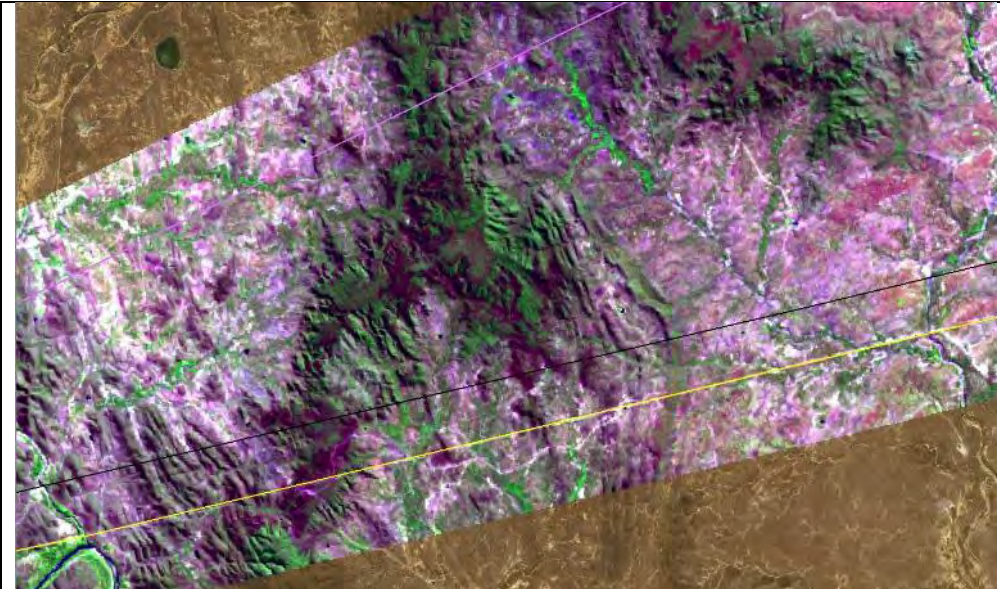
As the viewing scale gets larger, the differences in ability to discriminate woody vegetation from non-vegetated areas becomes harder. The detail available in the ESRI data clearly shows vegetation whereas the Landsat pixels are dominated by the groundcover and vegetation contain low chlorophyll levels rather than highly reflective woody vegetation.





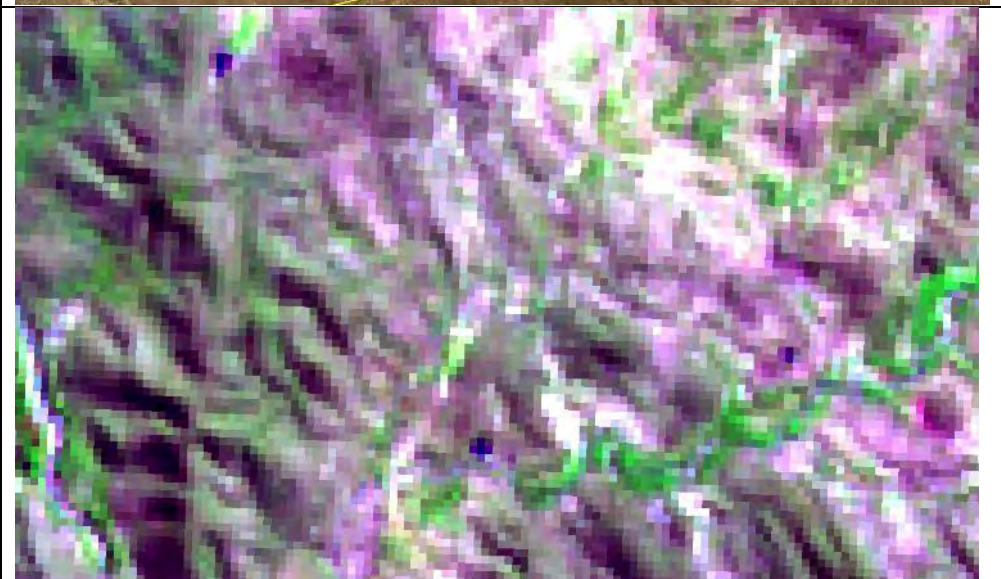
This is partly due to the spatial resolution but also to the leaf composition of the dominant vegetation communities on all landzones except landzone 3. This is evident in the example at 1:5,000 scale imagery, where only the riparian corridor appears as healthy, green vegetation and the upland areas expected to be dominated by regional ecosystem 9.7.1 and 9.11.5 are not reflecting well in the near infrared part of the spectrum compared to the red channel. This results in low vegetation index levels which usually present across regions which are not vegetated. The two regional ecosystems expected in this small area in the 1:5000 scale example are both sparse structurally. 9.7.1 community contains *Eucalyptus persiciens* woodland on lateritised and deeply weathered surfaces on undulating terrain. 9.11.5 contains *Eucalyptus persiciens* +/- *E. crebra* woodland on low metamorphic hills. *E. crebra* is commonly known as narrow leaf ironbark, which goes some way to explaining why the leaves are not reflecting well in the multispectral imagery.

The data presented in Table 3 demonstrates how Landsat is fit for purpose when mapping woody vegetation at a broad scale and how the quality of the result reduces as the viewing scale is increased. Landsat supports mapping typically to 1:80,000 so even the examples shown in this table exceed the suitability of the data for discriminating vegetation cover. In saying that, it is evident that the results are differentiating between areas that are dominated by vegetation and areas which experience higher levels of soil erosion gullies and other disturbances.



Table 3: Comparison between imagery and mapped woody vegetation at scale

| | |
|---|-----------------------------|
|  | 1:50,000 Landsat imagery |
|---|-----------------------------|



| | |
|--|--|
|  | <p>Mapped woody and potential woody vegetation at 1:50,000</p> |
|  | <p>Reference imagery at 1:50,000 viewing scale</p> |
|  | <p>Landsat at 1:10,000 viewing scale</p> |



| | |
|---|--|
|  | <p>Mapped woody vegetation at 1:10,000 viewing scale</p> |
|  | <p>Reference imagery at 1:10,000 viewing scale</p> |

The results generated for this study must be applied at a scale which is fit for purpose. This is 1:80,000 or at best 1:50,000 when considering woody vegetation only.

Please note that the data captured from the ESRI web services cannot be used for analytical purposes and therefore can only support the project through visual verification.

Landcover mapping was undertaken initially to map the distribution of vegetation cover across the project extent. This was conducted in two steps: 2016 vegetation cover mapping followed by 2016 woody vegetation mapping. These steps were performed independently of the SLATS clearance mapping, presented in Figure 2. A large area in the central-western section of the project extent was impacted by natural disaster damage during the 2010-2011 assessment period covering an area of 1,178 hectares. This is presented as cyan in Figure 2. This was not assigned as non-remnant due to the type of clearance mapped.



Of the remaining area mapped by the SLATS program as being cleared between 2000 and 2015, only 678 hectares were identified. Where these areas were mapped as remnant in the vegetation cover and the woody vegetation mapping, they were recorded as areas of non-remnant in the metrics and mapping, except where they fell below the minimum mapping area in size.

2016 vegetation cover mapping

Due to the nature of the distributed and scattered vegetation across most of the project extent, the aggregation of vegetation with very low vegetation greenness indices was incrementally applied to bring dry, scrubby areas into the mapped remnant category. Given the characteristics of the vegetation, some areas remained classified as potential remnant due to the scattered, dry or grassland dominated nature of those communities. These differences in vegetation cover density were provided to assist the PB ecologists review the remnant vegetation status and were generated without further field verification or input from an ecological perspective. Results are shown in Figure 3 and metrics reported in Table 4.

The SLATS data shown in Figure 2 was used to reassign the areas mapped as potential remnant to adjusted remnant where they had been impacted by disturbance caused by natural disaster damage.

Some minor areas of disturbance were observed in the 2000-2002 images which were initially mapped as remnant. These were reassigned potential regrowth accordingly. No evidence of cultivation was detected other than plantations already mapped as non-remnant in the eastern section of the project extent.

The classes of vegetation mapped are listed in Table 4, which were used to aggregate up into woody vegetation.

2016 woody vegetation mapping

Using the derived regional ecosystem mapping, the woody vegetation was aggregated into the class groupings described in Table 4 and the results are mapped in Figure 4. The groupings combine all remnant classes into the Woody vegetation class and the Scattered vegetation classes described in the table.

Table 4: Landcover classes used to map woody vegetation

| Woody veg class grouping | Woody veg area (ha) within project extent (after MMU removal) | RE class grouping | Class description | RE area (ha) within project extent (before MMU removal) |
|--------------------------|---|-------------------|--|---|
| Woody vegetation | 108503 | Remnant O-dom | Woody vegetation spatially coincident with Of concern dominant REs including lower and higher vegetation indices | 2336 |
| | | O-subdom | Woody vegetation spatially coincident with Of concern sub-dominant REs including lower and higher vegetation indices | 1531 |
| | | LeastC | Woody vegetation spatially coincident with Least Concern REs including lower and higher vegetation indices | 101550 |



| | | | | |
|-----------------------------|---------------|---------------------------|--|---------------|
| Scattered vegetation | 23818 | Scattered or dry O-dom | Scattered or dry dominated areas spatially coincident with Of concern dominant REs | 769 |
| | | Scattered or dry O-subdom | Scattered or dry dominated areas spatially coincident with Of concern sub-dominant REs | 731 |
| | | Scattered or dry LeastC | Scattered or dry dominated areas spatially coincident with Least concern dominant REs | 24163 |
| Regrowth | 500 | Regrowth | Areas mapped by State Government as regrowth (2014) | 476 |
| Potential regrowth | 245 | Potential regrowth | Areas mapped a remnant but which did not appear to contain woody vegetation in 2000 and 2002 depending on the image scene referenced | 240 |
| Non-remnant | 3888 | Non-remnant | Areas mapped by State Government as non-remnant | 3836 |
| Non-vegetated | 12129 | Bare | Areas with no or very low greenness considered to comprise very dry grassland, bare, exposed soil, cleared or eroded areas | 4117 |
| | | Built structures | Buildings, sheds, other structures | 8 |
| | | Easements | Including roads, tracks, power easements and fence lines | 5927 |
| | | Water | Dams and waterways | 3399 |
| Total | 149084 | | | 149084 |

The results of this mapping are presented in Figure 3 and Figure 4.

Minimum mapping area tolerances were applied to retain the integrity of the results, consistent with the source data used to generate the outcomes. Mapping products have been generated at 1:500,000 at A3 to cover the full proposed project extent and support the digital data supplied as a deliverable.

Regional ecosystem RE_Label attribution has been retained on the resultant digital datasets, with merging of class groups being limited by the RE extents.

Field verification will support the refinement and improvement of outcomes but does need to be aligned with the source imagery. This requires field-based observations to be aggregated based on dominant cover over a sample extent equivalent to the MMU for the imagery. Field-based observations were not available in support of this desktop-only project.



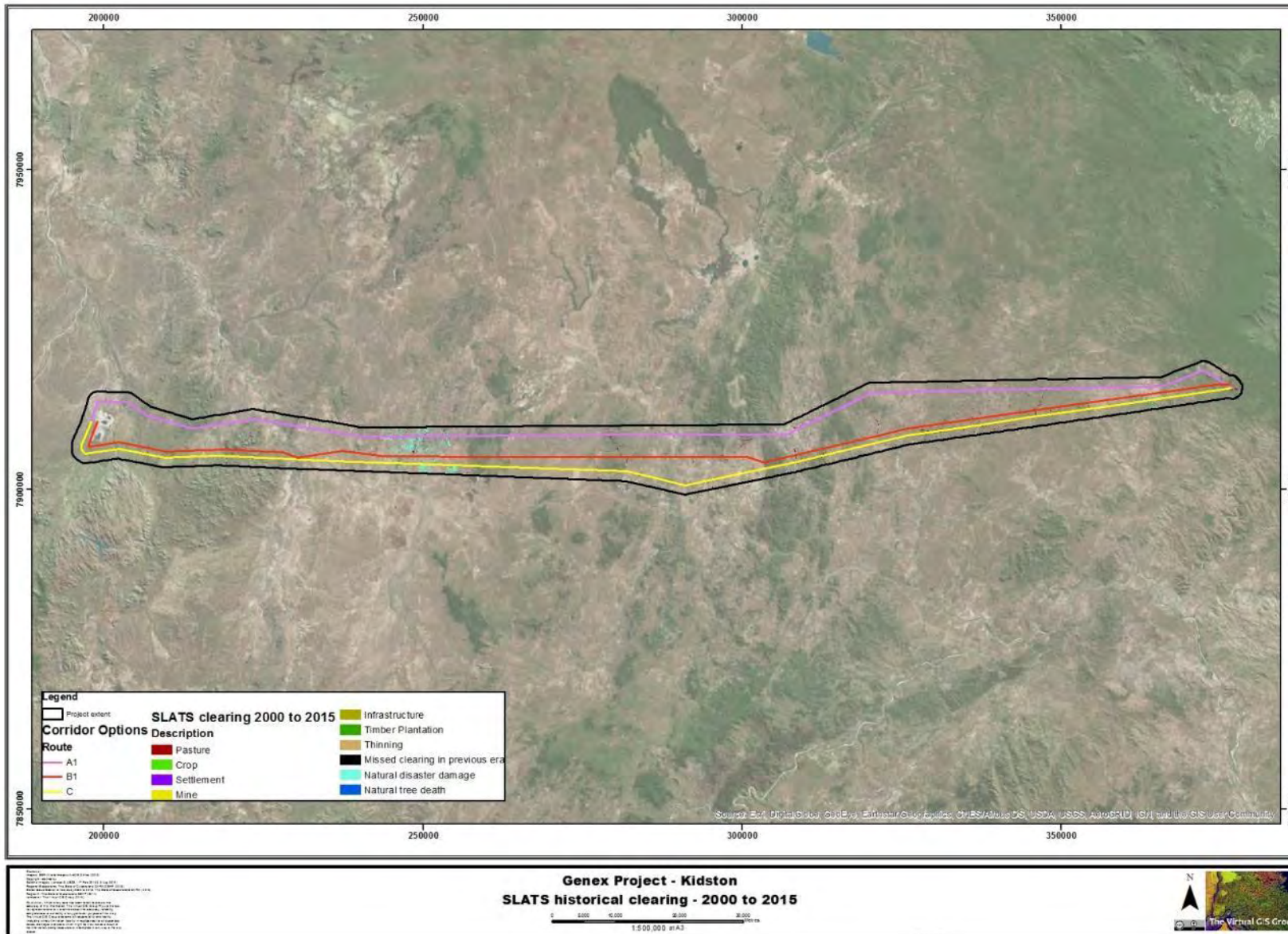


Figure 2: Statewide Landcover and Tree Study clearance 2000 to 2015

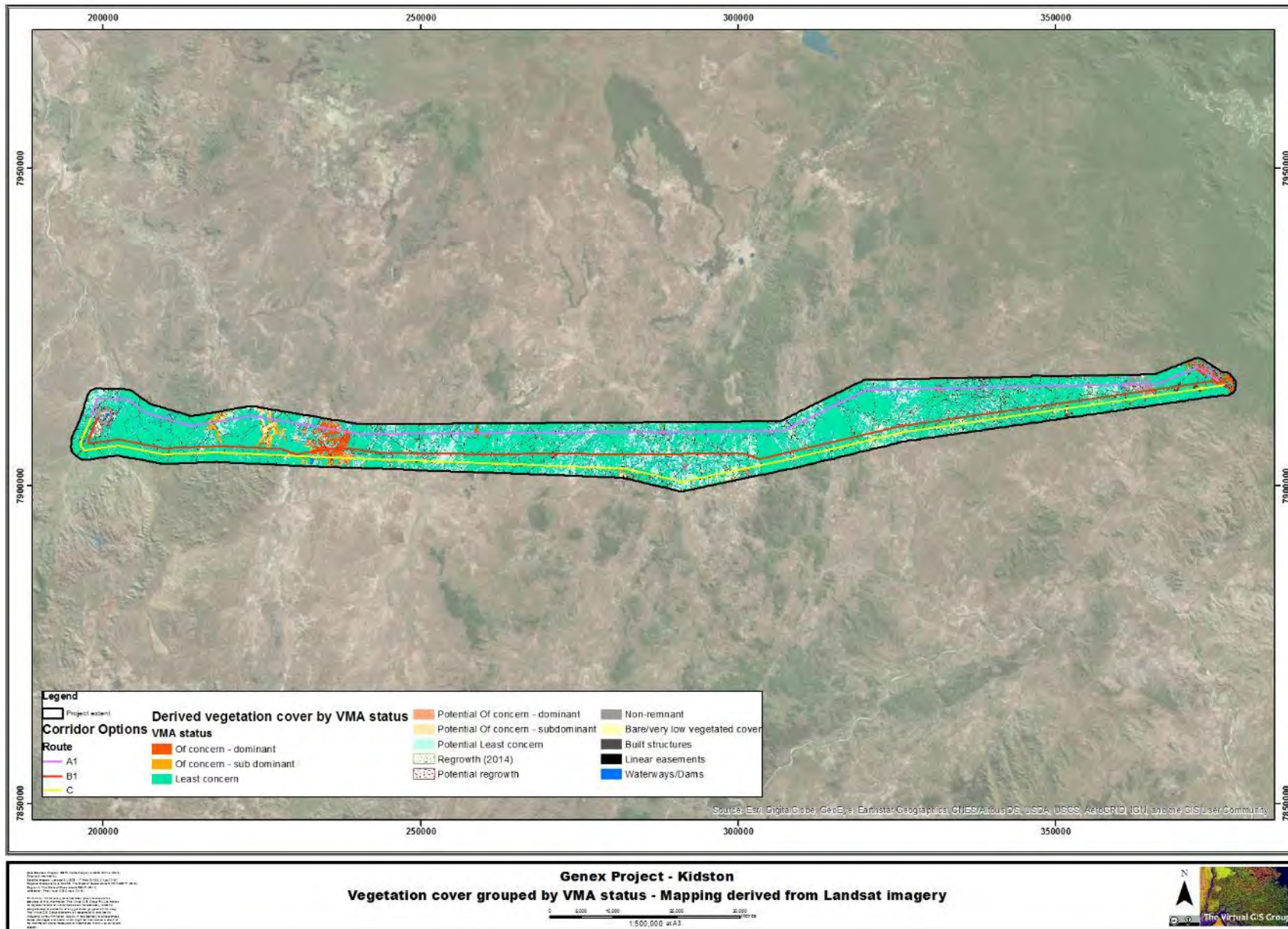


Figure 3: Derived vegetation cover symbolised by VMA status

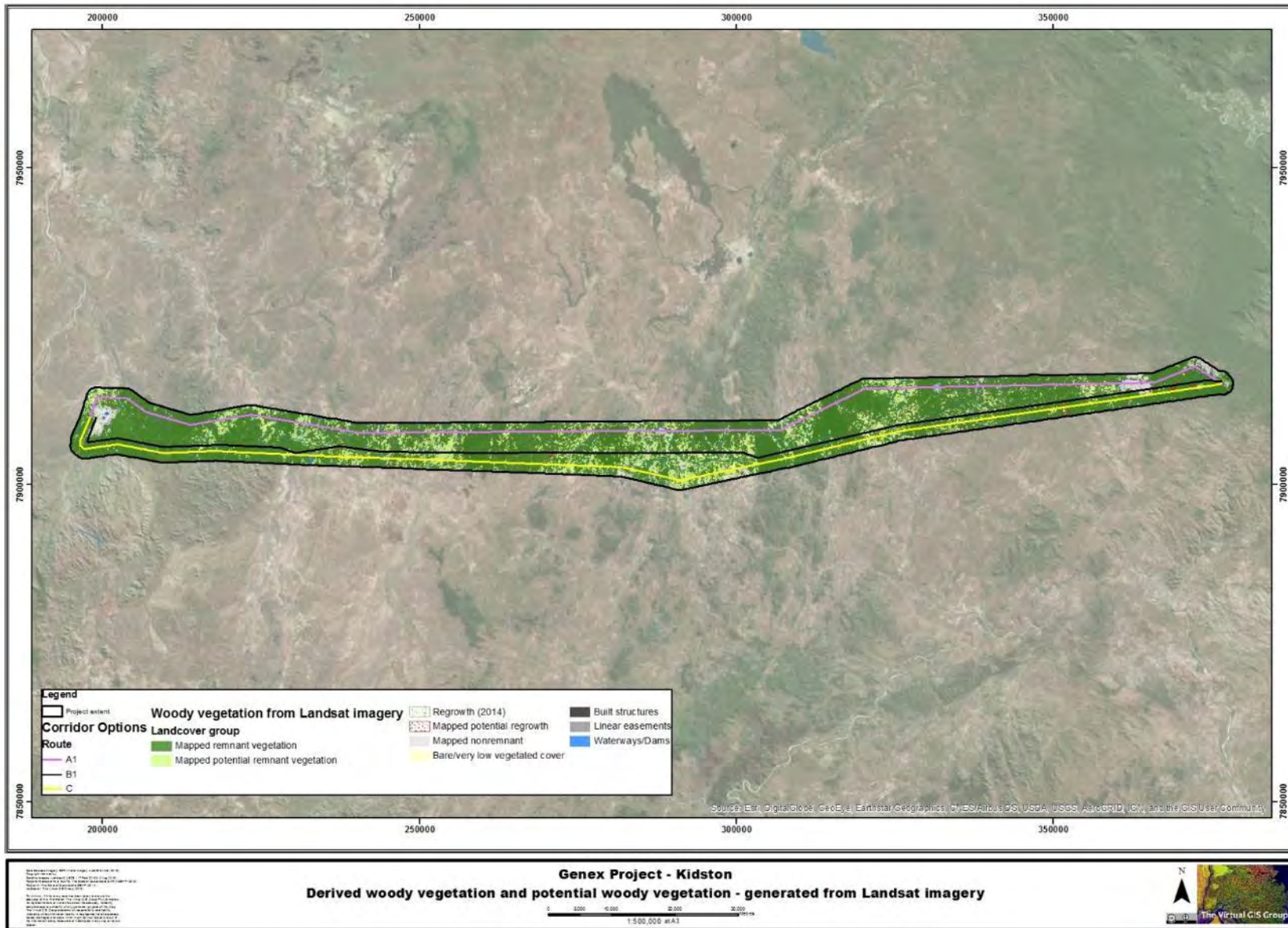


Figure 4: Derived woody vegetation and potential woody vegetation

Quality Assurance

As with most remotely sensed approaches to mapping landcover, accuracy of results increases with careful review of the results, and where necessary, the manual improvement of outcomes in areas of mixed pixels and/or mixed landcovers. Although the process does not require extensive manual intervention, some of the targets in this project are expected to be below the minimum mapping unit in size and so will be eliminated through quality control. Where the integrity of the data reduces with the removal of MMU areas, such as around waterways, easements and adjacent to areas mapped from State Government data, these areas may be retained. Dam, buildings, easements and waterways are not dissolved by MMU due to being point or linear features.

Formal accuracy assessment was not possible due to lack of field-based documentation but the results should be suitable to assist the assessment of potential ecological and environmental relative to the three options being considered.

Quality Assurance will be performed throughout the project. These functions will include geometric and attribute tests to ensure the data is clean and suitable for delivery. Standard checks for geometric errors such as undershoots, overshoots, closed polygons were performed as well as checking for duplicate objects.

To meet the timeframe and budgetary limitations associated with this project, a series of limitations, assumptions and exclusions were identified at the proposal stage and these were consistent with the project outcomes. Please refer to the proposal for a summary of these.

Future options

Further benefit could be gained by conducting analytics using both the current Landsat imagery and legacy imagery from 2000 and 2002, to be able to map change in vegetation cover.

Additionally, finer resolution satellite imagery would enable more detailed mapping of areas which could be considered non-remnant based on vegetation cover and density which may be inconsistent with the expectations of the regional ecosystems mapped by the State Government.

As with any desktop solution, particularly one which has relied on broad scale imagery without the benefit of field verification data, any results could be improved with the acquisition of field data confirming the vegetation cover, dominant regional ecosystem and woody vegetation status.

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- Geoimage. (2016, November 11). *Landsat 7 specifications*. Retrieved from Geoimage website:
<http://www.geoimage.com.au/satellite/landsat7>
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Attachment 3 – Likelihood of Occurrence Assessment

POWERLINK

Preliminary Desktop-Based Likelihood of Occurrence Assessment

KIDSTON POWER
TRANSMISSION LINE

PUBLIC

FEBRUARY 2017

Preliminary Desktop-Based Likelihood of Occurrence Assessment

KIDSTON POWER TRANSMISSION LINE

Powerlink

Public

| REV | DATE | DETAILS |
|-----|------------|---------|
| A | 10/02/2017 | Draft |
| B | 14/02/2017 | Final |

AUTHOR, REVIEWER AND APPROVER DETAILS

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1 INTRODUCTION

Powerlink is investigating corridor options for a powerline to connect a renewable energy generator (Genex) at Kidston in Far North Queensland, to the electricity transmission grid at Mount Fox, approximately 200 km east of Kidston (the Project). The site at Kidston will contain a mix of solar and pumped storage (hydro) technology.

The connection point to Kidston is at Mount Fox, approximately 200 km east of Kidston. It is most likely that a 275 kV transmission line will be required to provide adequate capacity for the connection distance. Powerlink was commissioned by Genex to produce a Corridor Selection Report, to identify a preferred corridor option from a broad study area, and a preliminary alignment for the connection. As part of this work an Initial Desktop Assessment and Preliminary Ecological Constraints Advice report was prepared for Powerlink. It identified the Matters of National Environmental Significance (MNES) and Matters of State Environmental Significance (MSES) of relevance to each corridor option.

The Project is located in a region of Queensland that is relatively remote and where very little to no ecological studies have been conducted. This was apparent by the low number of threatened species records revealed by Wildlife Online database searches. The *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) Protected Matters Search Tool also identified a number of threatened species predicted with potential to occur in the corridor options.

Subsequent to this work, the Department of Environment and Heritage Protection (DEHP) suggested the provision of a likelihood of occurrence assessment of threatened flora and fauna species listed under the *Nature Conservation Act 1994* (NC Act), to identify those species that maybe of relevance to the corridor options. This Preliminary Desktop-based Likelihood of Occurrence Assessment has been prepared for Powerlink in response to this request. To ensure completeness, this assessment also includes a likelihood of occurrence assessment for threatened flora and fauna species and threatened ecological communities listed under the EPBC Act.

1.1 Purpose

The study area for the Project is located in a region where little to no ecological studies have been undertaken and as a result records for threatened species are limited.

In support of the Initial Desktop Assessment and Preliminary Ecological Constraints Advice, this Preliminary Desktop-based Likelihood of Occurrence Assessment identifies the threatened species and ecological communities listed under the NC Act and/or EPBC Act that may potentially occur in the corridor options, for which future ecological surveys can be targeted. Essentially, it helps fill the gap in information resulting from the lack of species records in the study area.

The findings of this Preliminary Desktop-based Likelihood of Occurrence Assessment will also be useful in terms of identifying the threatened species and ecological communities that may be subject to project related impacts.

1.2 Study limitations

The likelihood of occurrence assessment presented herein is based upon a desktop assessment only, no field surveys have been undertaken to verify the presence and extent of the broad vegetation groups, regional ecosystems and/or fauna habitats within the corridor options.

It is a high level assessment, and on that basis the assessment has been conducted using a conservative approach. Therefore, the subsequent number of species with a moderate or high likelihood of occurrence is higher than the number that would likely result if field verification surveys of vegetation and habitats had been performed.

This assessment has relied on database searches conducted to the extent of local government area (LGA) boundaries, and State published broad vegetation group (BVG) mapping to predict the extent of potential habitats that may be supporting threatened species.

This likelihood of occurrence assessment will be updated at the impact assessment stage of the Project as field studies occur, with the potential that species may be both removed and added to the assessment.

2 METHODS

The methods used to inform the desktop-based likelihood of occurrence assessment have involved database searches and an assessment against publically available information to inform the habitat types that may potentially support threatened species.

The database searches included of the Protected Matters Search Tool and Wildlife Online covering the local government area (LGA) searches for the following LGAs:

- Hinchinbrook Shire Council
- Charters Towers Regional Council
- Etheridge Shire Council.

Because of the lack of records obtained from the search areas used for the Initial Desktop Assessment and Preliminary Ecological Constraints Advice, LGA wide database searches have been conducted to identify the species that may occur within the vegetation and habitats associated with the corridor options.

The publically available information included:

- State Department of Natural Resources and Mines – regional ecosystem mapping (Version 8) to identify Broad Vegetation Groups (BVGs) for assessing the likelihood of occurrence.
- Species or ecological community information (i.e. habitat requirements and distribution) from:
 - State Department of Science, Information Technology and Innovation's – Species profile search
 - Commonwealth Government administered Species Profile (SPRAT)
 - Commonwealth Government administered Atlas of Living Australia
 - Royal Botanic Gardens NSW administered PlantNET.

2.1 Determination of potential habitats within the corridor options

The regional ecosystem mapping associated with the corridor options was interrogated to identify the BVGs of relevance to the corridor options, as presented in Appendix A. Given the current scale of the project and associated desktop assessment, the BVGs are an effective way to identify the type of habitats available for threatened flora and fauna species.

The assessment for threatened flora species habitats was determined in reference to the 1: 1,000,000 scale BVG groups and sub-types associated with the corridor options. This approach accounts for the vegetation community associations and geology that is required for the threatened flora species to potentially occur.

The assessment for threatened fauna species is also determined in reference to the 1: 1,000,000 scale BVG groups with the corridor options, but only in the context of vegetation structural types (e.g. open forest, tussock grasslands, woodlands etc.). BVG sub-types are only used if the species is a specialist and very habitat specific (e.g. Green-eyed Tree Frog (*Litoria serrata*) only found in rainforest).

2.2 Assessment criteria

The likelihood of occurrence for threatened species and ecological communities listed under the EPBC Act and/or NC Act, has been assessed against the criteria outlined below in Table 2.1.

Note: In the absence of publically available species and habitat information, a conservative ranking of '**Moderate**' is applied. This is only relevant to some NC Act listed flora species revealed by database searches and does not apply to EPBC Act listed flora or fauna.

Table 2.1 Likelihood of occurrence assessment criteria

| LIKELIHOOD OF OCCURRENCE | ASSESSMENT CRITERIA |
|--------------------------|---|
| Low | <p>One or more of the following criteria is met:</p> <ul style="list-style-type: none"> → suitable habitat unlikely to be present in the corridor options → species considered extinct in the wild. |
| Moderate | <p>The following criteria is met:</p> <ul style="list-style-type: none"> → suitable habitat potentially present in the corridor options. |
| High | <p>The following criteria is met:</p> <ul style="list-style-type: none"> → suitable habitat likely to be present in the corridor options area → previous records in study area. |

3 SUMMARY OF LIKELIHOOD OF OCCURRENCE

The threatened flora and fauna species and migratory fauna species that are of moderate or high likelihood of occurrence in the corridor options are presented in the following sections.

None of the threatened ecological communities revealed by database searches are likely to occur in the corridor options. This low likelihood of occurrence is primarily on the basis of the bioregions they are restricted to under the EPBC Act, or because they are only found in near coastal environments:

- Brigalow (*Acacia harpophylla* dominant and codominant) - restricted to Brigalow Belt and Mulga Lands bioregions
- Broad leaf tea-tree (*Melaleuca viridiflora*) woodlands in high rainfall coastal north Queensland – restricted to coastal floodplains of the wet tropics bioregion
- Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions – restricted to the Brigalow Belt and Nandewar bioregions
- Littoral Rainforest and Coastal Vine Thickets of Eastern Australia – restricted to coastline.

3.1 Threatened flora species

The outcome of the likelihood of occurrence for threatened flora species of moderate or high likelihood in the corridor options, is presented in Table 3.1. The complete likelihood of occurrence for threatened flora species is presented in Appendix B.

Table 3.1 Threatened flora species assessed as having of moderate or high likelihood of occurrence in the corridor options

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|-------------|-----------------|---------------|--|
| <i>Acacia armitii</i> | – | – | NT | Moderate |
| <i>Acacia crombiei</i> | – | V | V | Moderate |
| <i>Acacia guyeri</i> | – | – | V | Moderate |
| <i>Acacia longipedunculata</i> | – | – | NT | Moderate |
| <i>Acacia tingoorensis</i> | – | – | V | High |
| <i>Ammannia robertsii</i> | – | – | E | Moderate |
| <i>Aristida thompsonii</i> | – | – | E | Moderate |
| <i>Arytera dictyoneura</i> | – | – | NT | Moderate |
| * <i>Borya inopinata</i> | – | – | E | Moderate |
| <i>Cajanus mareebensis</i> | – | E | E | Moderate |
| <i>Canarium acutifolium</i> var. <i>acutifolium</i> | – | V | V | Moderate |
| <i>Cerbera dumicola</i> | – | – | NT | Moderate |
| * <i>Corchorus subargenteus</i> | – | – | V | Moderate |
| <i>Corybas cerasinus</i> | – | – | NT | Moderate |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--|-------------|-----------------|---------------|--|
| <i>Corymbia leptoloma</i> | – | V | V | Moderate |
| <i>Croton magneticus</i> | – | – | V | Moderate |
| <i>Cycas cairnsiana</i> | – | V | V | Moderate |
| <i>Cycas couttsiana</i> | – | – | NT | Moderate |
| <i>Cycas cupida</i> | – | – | V | Moderate |
| <i>Cycas desolata</i> | – | – | V | Moderate |
| <i>Cycas platyphylla</i> | – | V | V | Moderate |
| <i>Dichanthium queenslandicum</i> | – | E | V | Moderate |
| <i>Dichanthium setosum</i> | – | V | NT | High |
| <i>Diuris oporina</i> | – | – | NT | Moderate |
| <i>Dodonaea uncinata</i> | – | – | NT | Moderate |
| <i>Drosera adelae</i> | – | – | NT | Moderate |
| <i>*Drummondita calida</i> | – | – | V | Moderate |
| <i>Elaeocarpus coorangooloo</i> | – | – | NT | Moderate |
| <i>Eucalyptus paedoglauca</i> | – | V | V | Moderate |
| <i>Eucalyptus raveretiana</i> | – | V | V | Moderate |
| <i>Euphorbia carissoides</i> | – | V | V | Moderate |
| <i>*Gastrodia urceolata</i> | – | – | V | Moderate |
| <i>Genoplesium tectum</i> | – | E | E | Moderate |
| <i>*Glossocardia orthochaeta</i> | – | – | E | Moderate |
| <i>Graptophyllum excelsum</i> | – | – | NT | Moderate |
| <i>Grevillea glossadenia</i> | – | V | V | Moderate |
| <i>Habenaria rumphii</i> | – | – | NT | Moderate |
| <i>Homoranthus porteri</i> | – | V | V | Moderate |
| <i>Ipomoea saintronanensis</i> | – | – | V | Moderate |
| <i>Kardomia squarrulosa</i> | – | – | V | Moderate |
| <i>*Kunzea calida</i> | – | – | E | Moderate |
| <i>Labichea brassii</i> | – | – | NT | Moderate |
| <i>*Lawrencia buchananensis</i> | – | – | V | Moderate |
| <i>*Leptospermum pallidum</i> | – | – | NT | Moderate |
| <i>*Lepturus minutus</i> | – | – | V | Moderate |
| <i>Lindsaea pulchella</i> var. <i>blanda</i> | – | V | PE | Moderate |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|-----------------------------------|-------------|-----------------|---------------|--|
| <i>Livistona drudei</i> | – | – | V | Moderate |
| <i>Livistona lanuginosa</i> | – | V | V | Moderate |
| <i>Macropteranthes leiocaulis</i> | – | – | NT | Moderate |
| <i>Macropteranthes montana</i> | – | V | V | Moderate |
| <i>Marsdenia brevifolia</i> | – | V | V | Moderate |
| * <i>Micromyrtus rotundifolia</i> | – | – | V | Moderate |
| * <i>Oenanthe javanica</i> | – | – | NT | Moderate |
| <i>Oldenlandia polyclada</i> | – | – | NT | Moderate |
| <i>Omphalea celata</i> | – | V | V | Moderate |
| <i>Parsonsia largiflorens</i> | – | – | E | Moderate |
| <i>Paspalidium udum</i> | – | – | V | Moderate |
| <i>Peristylus banfieldii</i> | – | – | E | Moderate |
| * <i>Pluchea punctata</i> | – | – | E | Moderate |
| * <i>Solanum angustum</i> | – | – | E | Moderate |
| <i>Solanum carduiforme</i> | – | – | V | Moderate |
| <i>Solanum graniticum</i> | – | – | E | Moderate |
| <i>Solanum sporadotrichum</i> | – | – | NT | Moderate |
| <i>Tephrosia leveillei</i> | – | V | V | Moderate |

Key: * indicates where species and habitat information is not publically available and a conservative ranking of '**Moderate**' is applied to the species in the likelihood of occurrence assessment.

3.2 Threatened and migratory fauna species

The outcome of the likelihood of occurrence for threatened and/or migratory fauna species of moderate or high likelihood in the corridor options, is presented in Table 3.2. The complete likelihood of occurrence for threatened and/or migratory fauna species is presented in Appendix C.

Table 3.2 Threatened and/or migratory fauna species assessed as having of moderate or high likelihood of occurrence in the corridor options

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|----------------------------|-------------------|-----------------|---------------|--|
| Amphibians | | | | |
| <i>Litoria nannotis</i> | Torrent Tree Frog | E | E | Moderate |
| <i>Litoria nyakalensis</i> | Nyakala Frog | CE | E | Moderate |
| <i>Litoria rheocola</i> | Common Mistfrog | E | E | Moderate |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--|--|-----------------|---------------|--|
| Birds (threatened under EPBC Act and/or NC Act) | | | | |
| <i>Calidris ferruginea</i> | Curlew Sandpiper | M | E | Moderate |
| <i>Calyptorhynchus lathamii erebus</i> | Glossy Black-Cockatoo | – | V | Moderate |
| <i>Casuarius casuarius johnsonii</i> (southern population) | Southern Cassowary | E | E | Moderate |
| <i>Cyclopsitta diophthalma macleayana</i> | Macleay's Fig-Parrot | – | V | Moderate |
| <i>Epthianura crocea macgregori</i> | Yellow Chat (Dawson) | CE | E | Moderate |
| <i>Erythrotriorchis radiatus</i> | Red Goshawk | V (M) | E | Moderate |
| <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | Moderate |
| <i>Erythrura trichroa</i> | Blue-faced Parrot-finch | – | NT | Moderate |
| <i>Falco hypoleucos</i> | Grey Falcon | – | V | Moderate |
| <i>Geophaps scripta scripta</i> | Squatter Pigeon (southern subspecies) | V | V | High |
| <i>Grantiella picta</i> | Painted Honeyeater | V | V | High |
| <i>Neochmia ruficauda ruficauda</i> | Star Finch (eastern subspecies) | E | E | Moderate |
| <i>Poephila cincta cincta</i> | Black-Throated Finch (White-Rumped subspecies) | E | E | High |
| <i>Rostratula australis</i> (syn. <i>R. benghalensis</i>) | Australian Painted Snipe | V | V | High |
| <i>Turnix olivii</i> | Buff-breasted Button-quail | E | E | Moderate |
| <i>Tyto novaehollandiae kimberli</i> | Masked Owl (northern) | V | V | Moderate |
| Birds (migratory under EPBC Act and special least concern under NC Act) | | | | |
| <i>Actitis hypoleucos</i> | Common Sandpiper | M | SLC | Moderate |
| <i>Apus pacificus</i> | Fork-tailed Swift | M | SLC | High |
| <i>Calidris acuminata</i> | Sharp-tailed Sandpiper | M | SLC | Moderate |
| <i>Calidris ruficollis</i> | Red-necked Stint | M | SLC | Moderate |
| <i>Charadrius ruficapillus</i> | Red-capped Plover | M | SLC | Moderate |
| <i>Charadrius veredus</i> | Oriental Plover | M | SLC | Moderate |
| <i>Chlidonias leucopterus</i> | White-winged Black Tern | M | SLC | Moderate |
| <i>Cuculus opatus</i> (syn. <i>Cuculus saturatus</i>) | Oriental Cuckoo | M | SLC | High |
| <i>Gallinago hardwickii</i> | Latham's Snipe | M | SLC | High |
| <i>Gallinago megala</i> | Swinhoe's Snipe | M | SLC | High |
| <i>Gallinago stenura</i> | Pintail Snipe | M | SLC | High |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|--|-----------------|---------------|--|
| <i>Gelochelidon nilotica</i> (syn. <i>Sterna nilotica</i>) | Gull-billed Tern | M | SLC | High |
| <i>Glareola maldivarum</i> | Oriental Pratincole | M | SLC | Moderate |
| <i>Hirundapus caudacutus</i> | White-throated Needletail | M | SLC | High |
| <i>Hirundo rustica</i> | Barn Swallow | M | SLC | High |
| <i>Hydroprogne caspia</i> (syn. <i>Sterna caspia</i>) | Caspian Tern | M | SLC | Moderate |
| <i>Monarcha frater</i> | Black-winged Monarch | M | SLC | Moderate |
| <i>Monarcha melanopsis</i> | Black-faced Monarch | M | SLC | Moderate |
| <i>Motacilla cinerea</i> | Grey Wagtail | M | SLC | Moderate |
| <i>Myiagra cyanoleuca</i> | Satin Flycatcher | M | SLC | High |
| <i>Numenius minutus</i> | Little Curlew | M | SLC | Moderate |
| <i>Plegadis falcinellus</i> | Glossy Ibis | M | SLC | High |
| <i>Rhipidura rufifrons</i> | Rufous Fantail | M | SLC | High |
| <i>Tringa glareola</i> | Wood Sandpiper | M | SLC | Moderate |
| <i>Tringa nebularia</i> | Common Greenshank | M | SLC | Moderate |
| <i>Tringa stagnatilis</i> | Marsh Sandpiper | M | SLC | Moderate |
| Mammals | | | | |
| <i>Dasyurus hallucatus</i> | Northern Quoll | E | – | High |
| <i>Dasyurus maculatus gracilis</i> | Spotted-Tailed Quoll (Northern Subspecies) | E | E | Moderate |
| <i>Hipposideros diadema reginae</i> | Diadem Leaf-Nosed Bat | – | NT | Moderate |
| <i>Hipposideros semoni</i> | Semon's Leafnosed-bat | E | E | Moderate |
| <i>Macroderma gigas</i> | Ghost Bat | V | V | Moderate |
| <i>Macrotis lagotis</i> | Greater Bilby | V | E | High |
| <i>Onychogalea fraenata</i> | Bridled Nailtail Wallaby | E | E | Moderate |
| <i>Ornithorhynchus anatinus</i> | Platypus | – | SLC | High |
| <i>Petauroides volans</i> | Greater Glider | V | V | High |
| <i>Petaurus gracilis</i> | Mahogany Glider | E | E | High |
| <i>Phascolarctos cinereus</i> | Koala | V | V | High |
| <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | V | Moderate |
| <i>Rhinolophus robertsi</i> | Large-eared Horseshoe-bat | E | E | Moderate |
| <i>Sminthopsis archeri</i> | Chestnut Dunnart | – | NT | Moderate |
| <i>Tachyglossus aculeatus</i> | Short-beaked Echidna | – | SLC | High |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT STATUS | NC ACT STATUS | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--------------------------------|---------------------------------|-----------------|---------------|--|
| Reptiles | | | | |
| <i>Acanthophis antarcticus</i> | Common Death Adder | – | V | Moderate |
| <i>Delma mitella</i> | – | V | NT | Moderate |
| <i>Egernia rugosa</i> | Yakka Skink | V | V | Moderate |
| <i>Lampropholis mirabilis</i> | – | – | NT | Moderate |
| <i>Lerista cinerea</i> | Vine-thicket Fine-lined Slider | – | V | Moderate |
| <i>Lerista hobsoni</i> | Hobson's fine-liner slider | – | V | Moderate |
| <i>Lerista vanderduysi</i> | Leaden-bellied fine-line slider | V | V | Moderate |
| <i>Lerista vittata</i> | – | V | V | Moderate |

The numbers of threatened and/or migratory species listed under the EPBC Act and/or NC Act that are of moderate or high likelihood of occurring in habitats potentially supported by the corridor options are presented below:

EPBC ACT

Threatened flora species:

- **1** threatened flora species as having a high likelihood of occurrence, including:
 - 1 vulnerable
- **19** threatened flora species as having a moderate likelihood of occurrence, including:
 - 3 endangered
 - 16 vulnerable

Threatened fauna species:

- **9** threatened fauna species as having a high likelihood of occurrence, including:
 - 3 endangered
 - 6 vulnerable
- **20** threatened fauna species as having a moderate likelihood of occurrence, including:
 - 2 critically endangered
 - 10 endangered
 - 8 vulnerable
- Migratory fauna species:
 - **11** migratory fauna species as having a high likelihood of occurrence
 - **15** migratory fauna species as having a moderate likelihood of occurrence

NC ACT

Threatened flora species:

- **2** threatened flora species as having a high likelihood of occurrence, including:
 - 1 vulnerable
 - 1 near threatened
- **62** threatened flora species as having a moderate likelihood of occurrence, including:
 - 1 presumed extinct
 - 12 endangered
 - 31 vulnerable
 - 18 near threatened

Threatened fauna species (including special least concern):

- **21** threatened fauna species as having a high likelihood of occurrence, including:
 - 3 endangered
 - 5 vulnerable
 - 13 special least concern
- **46** threatened fauna species as having a moderate likelihood of occurrence, including:
 - 14 endangered
 - 12 vulnerable
 - 5 near threatened
 - 15 special least concern.

4 CONCLUSION

This preliminary desktop-based likelihood of occurrence has identified the threatened flora and fauna species, and migratory fauna species, listed under the EPBC Act and/or NC Act that have a moderate to high likelihood of occurring in the Project's study area.

It has identified the species of conservation significance that should be considered when designing field surveys. It also identifies those species with a high ranking that may be at risk of project related impacts.

The findings of this assessment will be beneficial in planning the next phase of the Project.

Appendix A

BROAD VEGETATION GROUPS (1:1,000,000 SCALE)

1:1,000,000 scale - Broad vegetation groups (BVG) used for likelihood of occurrence a

| BVG_1M | BVG DESCRIPTION |
|-------------|--|
| 1:1 Million | |
| 7 | Semi-evergreen to deciduous microphyll vine thicket |
| 7a | Semi-evergreen vine thickets on wide range of substrates. (land zones 8, 9, 11, 12, 5, 4, 3, 10, [7]) (BRB, EIU, SEQ, CQC, [WET, GUP]) (Tracey 1982 11) |
| | EUCALYPT WOODLANDS TO OPEN FORESTS (mainly eastern Qld) |
| 9 | Moist to dry eucalypt open forests to woodlands usually on coastal lowlands and ranges |
| 9c | Open forests of <i>Corymbia clarksoniana</i> (grey bloodwood) (or <i>C. intermedia</i> (pink bloodwood) or <i>C. novoguineensis</i>), <i>C. tessellaris</i> (carbeen) ± <i>Eucalyptus tereticornis</i> (blue gum) predominantly on coastal ranges. Other frequent tree species include <i>Eucalyptus drepanophylla</i> (grey ironbark), <i>E. pellita</i> (large-fruited red mahogany), <i>E. brassiana</i> (Cape York red gum) and <i>Lophostemon suaveolens</i> (swamp box). (land zones 12, 11, 8, 5). (WET, CQC, CYP, BRB, [SEQ]) |
| 9d | Moist to dry open forest to woodland dominated by <i>Eucalyptus portuensis</i> , <i>Corymbia intermedia</i> (pink bloodwood), <i>E. drepanophylla</i> , <i>E. resinifera</i> or <i>E. reducta</i> +/- <i>Syncarpia glomulifera</i> (turpentine) or <i>E. cloeziana</i> (Gympie messmate) on ranges. Also includes mixed forests with <i>Eucalyptus pellita</i> or <i>C. torelliana</i> (cadaghi) emergents and rainforest understories (land zones 12, 11, 3, 5, 9, 8). (WET, CQC, EIU) |
| 9e | Open forests, woodlands and open woodlands dominated by <i>Corymbia clarksoniana</i> (grey bloodwood) (or <i>C. novoguineensis</i> or <i>C. intermedia</i> (pink bloodwood) or <i>C. polycarpa</i> (long-fruited bloodwood)) frequently with <i>Erythrophloeum chlorostachys</i> (red ironwood) or <i>Eucalyptus platyphylla</i> (poplar gum) predominantly on coastal sandplains and alluvia. (land zones 3, 5, 2) (CYP, BRB, CQC, WET, EIU) |
| 11 | Moist to dry eucalypt open forests to woodlands mainly on basalt areas |
| 11b | Moist to dry open forests to woodlands dominated by <i>Eucalyptus crebra</i> (narrow-leaved red ironbark) or <i>E. tereticornis</i> (blue gum), frequently with <i>Corymbia</i> species or <i>E. microneura</i> (Gilbert River box) on red krasnozems on undulating terrain. (land zone 8) (EIU) |
| 11c | Moist woodlands dominated by <i>Eucalyptus leptophleba</i> (Molloy red box) ± <i>Corymbia papuana</i> (ghost gum) ± <i>C. tessellaris</i> (carbeen). (land zones 8, 11) (EIU, CYP) |
| 12 | Dry eucalypt woodlands to open woodlands, mostly on shallow soils in hilly terrain (mainly on sandstone and weathered rocks) |
| 12b | Woodlands and open woodlands dominated by <i>Eucalyptus crebra</i> (sens. lat) (narrow-leaved red ironbark) and/or <i>Corymbia</i> spp. such as <i>C. clarksoniana</i> (grey bloodwood), <i>C. stockeri</i> , <i>C. setosa</i> (rough leaved bloodwood) or <i>C. peltata</i> (yellowjacket) on hilly terrain. (land zones 7, 10, 11) (GUP, EIU, DEU, CYP) |
| 13 | Dry to moist eucalypt woodlands and open forests, mainly on undulating to hilly terrain of mainly metamorphic and acid igneous rocks |
| 13a | Woodlands and open woodlands dominated by ironbarks such <i>Eucalyptus cullenii</i> (Cullen's ironbark), <i>E. staigeriana</i> (lemon-scented ironbark) or <i>E. melanophloia</i> (silver-leaved ironbark) and bloodwoods such as <i>Corymbia stockeri</i> subsp. <i>peninsularis</i> , <i>C. clarksoniana</i> (grey bloodwood) or <i>C. leichhardtii</i> (rustyjacket). (land zones 11, 12, 7, 5) (EIU, CYP, GUP) |
| 13b | Woodlands to open woodlands dominated by <i>Eucalyptus microneura</i> (Gilbert River box) on shallow soils on rolling hills. (land zones 12, 11, 9) (EIU, GUP) |
| 13c | Woodlands of <i>Eucalyptus crebra</i> (sens. lat.) (narrow-leaved red ironbark), <i>E. drepanophylla</i> (grey ironbark), <i>E. fibrosa</i> (dusky-leaved ironbark), <i>E. shirleyi</i> (Shirley's silver-leaved ironbark) on granitic and metamorphic ranges (land zones 12, 11, 9, [5]) (BRB, EIU, SEQ, NET, CQC) |
| | EUCALYPT OPEN FORESTS TO WOODLANDS ON FLOODPLAINS |
| 16 | <i>Eucalyptus</i> spp. dominated open forest and woodlands drainage lines and alluvial plains |
| 16a | Open forest and woodlands dominated by <i>Eucalyptus camaldulensis</i> (river red gum) (or <i>E. tereticornis</i> (blue gum)) and/or <i>E. coolabah</i> (coolabah) (or <i>E. microtheca</i> (coolabah)) fringing drainage lines. Associated species may include <i>Melaleuca</i> spp., <i>Corymbia tessellaris</i> (carbeen), <i>Angophora</i> spp., <i>Casuarina cunninghamiana</i> (riveroak). Does not include alluvial areas dominated by herb and grasslands or alluvial plains that are not flooded. (land zone 3) (MGD, BRB, GUP, CHC, MUL, DEU, EIU, NWH, SEQ, [NET, WET]) (All bioregions except CYP and CQC) |
| 16b | Woodlands dominated by <i>Eucalyptus leptophleba</i> (Molloy red box), with <i>Corymbia tessellaris</i> (carbeen) or <i>C. clarksoniana</i> (grey bloodwood) or <i>C. dallachiana</i> . On sandy levees. (land zones 3, 5) (GUP, EIU, CYP) |
| 16c | Woodlands and open woodlands dominated by <i>Eucalyptus coolabah</i> (coolabah) or <i>E. microtheca</i> (coolabah) or <i>E. largiflorens</i> (black box) or <i>E. tereticornis</i> (blue gum) or <i>E. chlorophylla</i> on floodplains. Does not include alluvial areas dominated by herb and grasslands or alluvial plains that are not flooded. (land zone 3) (All bioregions except WET, principally GUP, BRB, MUL, SEQ) |
| 16d | River beds, open water or sand, or rock, frequently unvegetated. (land zone 3) (GUP, EIU, BRB, CYP, WET, SEQ, DEU, [CQC, MUL]) |
| | EUCALYPT DRY WOODLANDS ON INLAND DEPOSITIONAL PLAINS |
| 17 | <i>Eucalyptus populnea</i> (poplar box) or <i>E. melanophloia</i> (silver-leaved ironbark) (or <i>E. whitei</i> (White's ironbark)) dry woodlands to open woodlands on sandplains or depositional plains |
| 17a | Woodlands dominated by <i>Eucalyptus populnea</i> (poplar box) (or <i>E. brownii</i> (Reid River box)) on alluvium, sand plains and footslopes of hills and ranges. (land zones 3, 5, 10, 9, 4, 11, 12, [8]) (BRB, MUL, DEU, EIU) |
| 17b | Woodlands to open woodlands dominated by <i>Eucalyptus melanophloia</i> (silver-leaved ironbark) (or <i>E. shirleyi</i> (shirley's silver-leaved ironbark)) on sand plains and footslopes of hills and ranges. (land zones 5, 12, 3, 11, 9, 7) (BRB, DEU, EIU, SEQ, NET, GUP, NWH) |
| 18 | Dry eucalypt woodlands to open woodlands primarily on sandplains or depositional plains |

Appendix B

FLORA LIKELIHOOD OF OCCURRENCE

Flora likelihood of occurrence

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--------------------------------|-------------|----------|--------|--|--|--|
| <i>Acacia armitii</i> | – | – | NT | Only known from the Einasleigh R. area in central-northern Qld and on a sandstone plateau S of Goomadeer, as well as Coopers Ck at Nabarlek, N.T. Locally common in sandy or shallow, rocky soils, on creek banks and river flats {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate (Potential to occur in BVGs 16 associated subtypes) |
| <i>Acacia crombiei</i> | – | V | V | Occurs in small isolated subpopulations in central Queensland. It occurs in the Burke, Mitchell, and North Kennedy pastoral regions. It inhabits wooded downs in woodland and open woodland often associated with gidgee (<i>Acacia cambagei</i>) and whitewood (<i>Atalaya hemiglauca</i>), on alluvial, sandstone and basalt derived soils {Department of the Environment and Energy, 2017 #7538}. | PMST - Charters Towers LGA, Etheridge LGA Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 24 and 27 and associated subtypes) |
| <i>Acacia guymeri</i> | – | - | V | The species grows in skeletal soils on rocky ridges in disturbed areas and eucalypt woodland. Commonly associated plants include <i>Eucalyptus cullenii</i> , <i>Lamprolobium fruticosum</i> , and a range of different <i>Eucalyptus</i> and <i>Corymbia</i> species {Department of the Environment and Energy, 2017 #7539}. | Wildlife Online - Etheridge LGA | Moderate (Potential to occur in BVGs 12 and associated subtypes) |
| <i>Acacia longipedunculata</i> | – | - | NT | Restricted an area near Herberton and in the Paluma Ra., north-eastern Qld. Grows on shallow sandy and rocky soils, in open forest {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 9, 12 and 13 and associated subtypes) |
| <i>Acacia tingoorensis</i> | – | - | V | Grows in eucalypt woodland or forest, on deep red loam, shallow loamy or sandy soils. | Wildlife Online - Charters Towers LGA | High (Potential to occur in BVGs 9,11,12,13 and associated subtypes) |
| <i>Ammannia robertsii</i> | – | - | E | Low open woodland of <i>Acacia cambagei</i> on alluvial clay plain. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 16, 24 , 27 and associated subtypes) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|----------------------------------|------------------|----------|--------|---|---|--|
| <i>Aristida thompsonii</i> | – | - | E | Restricted distribution around North Kennedy in Queensland. Inhabits patchy heath of <i>Kunzea callida</i> on rocky areas. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 12 and associated subtypes) |
| <i>Arytera dictyoneura</i> | – | - | NT | Recorded from scattered locations in northern and southern Queensland. In northern Queensland <i>A. dictyoneura</i> occurs in Girringun National Park, on the Cardwell Range, Cardwell Forest Reserve, near Meunga Creek, Clement State Forest and Paluma Range. There is also one record of the species from Strathdickie, near Proserpine. In southern Queensland, there are numerous records of <i>A. dictyoneura</i> in Bulburin National Park, two records in Mount Colosseum National Park, one population near 'shirley' Miriam Vale and one population in Eurimbula National Park. Found in semi-evergreen rainforest, on granite boulder slopes/ soil derived from granite {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Borya inopinata</i> | – | - | E | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Bulbophyllum globuliforme</i> | Hoop Pine Orchid | V | NT | Restricted to the MacPherson Range and north to Gladstone, e.g. Grady's Creek (Border Ranges). In NSW occurs at altitudes between 300 - 600 m where it grows on Hoop Pines (<i>Araucaria cunninghamii</i>) in upland subtropical rainforest. Usually found on the upper trunk and branches of emergent trees {NSW National Parks and Wildlife Service, 2002 #93; Harden, 1993 #4}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA, Wildlife Online - Charters Towers LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Cajanus mareebensis</i> | – | E | E | Occurs in grassy woodlands of Melaleuca-Acacia, Eucalyptus-Callitris and Eucalyptus-Corymbia woodlands on sandy soils derived from granite with a lower horizon of impeded drainage {Department of the Environment Water Heritage and the Arts, 2008 #7540}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Moderate (Potential to occur in BVG 13 and associated subtypes) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|-------------|----------|--------|--|---|--|
| <i>Canarium acutifolium</i> var. <i>acutifolium</i> | – | V | V | Its distribution occurs between Mossman and Tully in Queensland. Altitudinal range very small, from sea level to 100 m. almost confined to creek and river banks in lowland rain forest {Department of the Environment Water Heritage and the Arts, 2008 #7541}. | PMST - Charters Towers LGA | Moderate (Potential to occur in BVG 16 and associated subtypes) |
| <i>Cerbera dumicola</i> | – | - | NT | Occurs across a range of habitats in central and southern Queensland. Associated vegetation and species include: sandstone hills in open E. umbra subsp. carnea; on plateaus, in woodland of Acacia shirleyi with Corymbia dolichocarpa; acidic soils in mine rehabilitation area; woodland of A. catenulata and A. shirleyi with E. thozetiana on a slope of sand/clay soil; semi-deciduous notophyll-microphyll vine forest of Brachychiton australis, Gyrocarpus americanus, Flindersia australis, Pleiogynium timorense, Drypetes deplanchei and Sterculia quadrifida on rhyolite hillslopes; open-woodland of E. melanophloia with occasional Acacia shirleyi, E. populnea and E. brownii; semi-evergreen vine thicket with Corymbia citriodora and Corymbia aureola emergents; woodland of A. rhodoxylon on brown, sandy loam; and in Corymbia tessellaris - Acacia aneura open woodland {Queensland Herbarium, 2011 #7542}. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 7, 9, and 12 and associated subtypes) |
| <i>Corchorus subargenteus</i> | – | - | V | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Corybas cerasinus</i> | – | - | NT | Occurs in north-eastern Queensland with a distribution from Cooktown to the Herbert River near Ingham and also on Dunk Island. Occurs in moist to wet forests on exposed ridges and in drier forests. It grows in well-drained sand and gravelly loam{Department of Sustainability Environment water Population and Communities, 2010 #7543}. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate (Potential to occur in BVGs 9 and 11 and associated subtypes) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---------------------------|-------------|----------|--------|--|---|--|
| <i>Corymbia leptoloma</i> | – | V | V | <i>Corymbia leptoloma</i> is known only from a small area north-west of Townsville, Queensland. The species grows in wet sclerophyll forest in association with Turpentine (<i>Syncarpia glomulifera</i>), Red Mahogany (<i>Eucalyptus resinifera</i>) and Pink Bloodwood (<i>Corymbia intermedia</i>) in gullies or on hill slopes. It occurs in coarse sandy soils derived from granite {Department of the Environment Water Heritage and the Arts, 2008 #7544}. | PMST - Charters Towers LGA, Hinchinbrook LGA, Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate (Potential to occur in BVGs 9 and 11 and associated subtypes) |
| <i>Croton magneticus</i> | – | - | V | The species is endemic to eastern Queensland. It is distributed mainly between Townsville and Proserpine, but is known to extend inland to Greenvale and Collinsville. <i>Croton magneticus</i> is found in Araucarian microphyll or notophyll vineforest, or semi-evergreen vine thickets, on a range of substrates including sandstone, granite and granodiorite. It is sometimes found along rocky seashores. Altitudes range from 5 to 540m. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Cyathea celebica</i> | – | - | NT | <i>Cyathea celebica</i> occurs on steep slopes and river banks in rainforest, vine forest and forest margins, above 100m altitude. It grows on granitic soil, reddish soils and over metamorphic rock {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Cycas cairnsiana</i> | – | V | V | Known from only two rather extensive and scattered populations about the Newcastle Range in the drier country of north-eastern Queensland, on shallow to skeletal gritty soils over siliceous granites. Plants from the population near Forsayth have slightly wider leaflets than those from near Mt Surprise {Royal Botanic Gardens, 2010 #7525}. | PMST - Charters Towers LGA, Etheridge LGA, Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate (Potential to occur in BVGs 12b, 13b.) |
| <i>Cycas couttsiana</i> | – | - | NT | Known from several populations in the southern Gregory Range, Qld. Occurs in open grassy woodlands in red sandy loams derived from basalt or dolerite {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate (Potential to occur in BVGs 11b and 11c) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|----------------------------|-------------|----------|--------|---|--|--|
| <i>Cycas cupida</i> | – | - | V | This species is known from a single, quite extensive population in the Terrace Range south of Charters Towers, South Kennedy District, Queensland. Found widely scattered in open woodland on low sandstone hills. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs and 12 and associated subtypes) |
| <i>Cycas desolata</i> | – | - | V | Known only from a single stand near Charters Towers, eastern Qld. Grows on Eucalypt woodland on shallow skeletal soils or low rocky outcrops in flat country of open ironbark woodland. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs and 12 and associated subtypes) |
| <i>Cycas platyphylla</i> | – | V | V | The main population of <i>C. platyphylla</i> is known from the Petford district, west of the Atherton Tableland, Queensland. There are three smaller quite disjunct populations recorded from Taravale, Wandovale, and at White Mountains, north of Torrens Creek. Occurs in sparse Eucalyptus sideroxylon woodland with a grassy understorey, often on rocky slopes in shallow red stony loams. | PMST - Charters Towers LGA, Etheridge LGA, Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 9 and 11 and associated subtypes) |
| <i>Cyperus cephalotes</i> | – | E | E | Known from Rockingham Bay, near Cardwell and Trebonne Creek south-east of Ingham in Queensland. It occurs on floating islands in rivers, with the roots entangled in a mass of decaying vegetation. | PMST - Hinchinbrook LGA, Wildlife Online - Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Dendrobium bigibbum</i> | – | V | V | Subpopulations of the Cooktown orchid group are epiphytic (growing on branches) and epilithic (growing on rocks), and occurs at sites with moderate light intensity. The area where it occurs has moderate to high rainfall that is seasonal (more rainfall in summer and autumn). Collections have been made from sea level (including on branches overhanging salt water) to altitudes of at least 250 m above sea level. Many collections have been made along creeks or on rocky hillsides where fire cannot penetrate. Vegetation associations where it occurs include closed forest (low deciduous scrub, coastal dunes, gallery forest), open monsoon forest, mangrove, heath and inland dry scrub | PMST - Etheridge LGA | Low (Suitable habitat is unlikely to occur) |

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|-----------------------------------|-------------|----------|--------|---|---|--|
| <i>Dendrobium lithocola</i> | – | E | - | Subpopulations of the Cooktown orchid group are epiphytic (growing on branches) and epilithic (growing on rocks), and occurs at sites with moderate light intensity. The area where it occurs has moderate to high rainfall that is seasonal (more rainfall in summer and autumn). Collections have been made from sea level (including on branches overhanging salt water) to altitudes of at least 250 m above sea level. Many collections have been made along creeks or on rocky hillsides where fire cannot penetrate. Vegetation associations where it occurs include closed forest (low deciduous scrub, coastal dunes, gallery forest), open monsoon forest, mangrove, heath and inland dry scrub | PMST - Etheridge LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Dichanthium queenslandicum</i> | – | E | V | Occurs within the South Eastern Queensland, Brigalow Belt South, Brigalow Belt North, Central Mackay Coast, Desert Uplands, Mitchell Grass Downs and Einasleigh Uplands Bioregions; and the South East Queensland, Condamine, Border Rivers Maranoa-Balonne, Burnett Mary, Fitzroy, Burdekin, Mackay Whitsunday, Southern Gulf and Desert Channels Natural Resource Management Regions. | PMST - Charters Towers LGA, Etheridge LGA | Moderate (Potential to occur in BVGs 30b and 32a) |
| <i>Dichanthium setosum</i> | – | V | NT | Grows in woodland and grassland {Harden, 1993 #4}. On the New England Tablelands and North West Slopes it grows on stony red-brown hard-setting soils over basalt, or on black soil {Department of Environment and Conservation, 2006 #1093}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | High (Potential to occur in BVGs 11,16,17,30,32 and associated subtypes) |
| <i>Diuris oporina</i> | – | - | NT | Found in Queensland on ridges and slopes in sparse grassy forests at elevations of 700 to 1200 meters as a miniature to small sized, warm to cool growing terrestrial species. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 11,12 and 13 and associated subtypes) |
| <i>Dodonaea uncinata</i> | – | - | NT | Confined to the Mt Spec area NW of Townsville, Qld. Grows in open forest or woodland, usually in sandstone soils {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 12 and associated subtypes) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---------------------------------|-------------|----------|--------|---|---|--|
| <i>Drosera adela</i> | – | - | NT | An endemic species that occurs in a restricted area in NEQ from Tully southwards to Hitchenbrook Island. Altitudinal range from 50-800 m. Occurs on creek beds and on moss-covered rocks along creeks in rainforest, open forest, mesophyll vine forest and in Eucalypt forest. | Wildlife Online - Hinchinbrook LGA | Moderate (Potential to occur in BVGs 16 and associated subtypes) |
| <i>Drummondita calida</i> | – | - | V | Species and habitat information is not publically available. | Wildlife Online - Etheridge LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Elaeocarpus coorangooloo</i> | – | - | NT | Endemic to NEQ, known only from the Windsor Tableland, Atherton Tableland and another site southwest of Paluma. Altitudinal range from 700-1000 m. Grows in drier rain forest often associated with Kauri Pine (<i>Agathis robusta</i>). | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Eriocaulon carsonii</i> | – | E | E | Grows in running water and forms dense mats in wet soil around shallow springs. The species is an endemic of active or flowing artesian mound springs on the margins of the Great Artesian Basin. Mound springs are natural outlets of the Basin, associated with fractures and fault lines, often having mounds of various sizes. Accumulated evaporite and mud deposits form mounds 1 to 10 metres high and 2 to 100+ metres in diameter. The faults provide direct access for the artesian water to reach the surface. These landforms are probably one of the rarest habitats in Australia. Originally restricted to a single mound at Peery Lake in NSW, in an area of many mounds. More recently the plant has spread to adjacent mounds, indicating that the plant can survive for long periods as a small population and then spontaneously expand. The population structure of <i>Eriocaulon carsonii</i> changed after fencing at Elizabeth Springs in Qld, with large numbers of small immature plants replaced by a smaller number of larger plants. Observations of density of kangaroo scats at Peery Lake suggest that kangaroos heavily graze the mounds. Kangaroo grazing apparently limits the growth of sedges on the mounds, reducing competition, thus benefiting <i>Eriocaulon carsonii</i> . The species is often recorded growing in dense mats of numerous individuals {Harden, 1993 #4} {Royal Botanic Gardens, 2006 #990}. | PMST Etheridge LGA Wildlife Online - Etheridge LGA | Low (Suitable habitat is unlikely to occur) |

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|--|-------------|----------|--------|---|---|--|
| <i>Eriocaulon carsonii</i> subsp. <i>orientale</i> | – | E | E | Entirely restricted to vents and tails of mound spring wetlands, particularly springs with shallow standing water with slow flow. It is generally associated with vegetated mounds that, over considerable time, have formed organic fen soils (alkaline equivalent of the acidic peat bog). | Wildlife Online - Etheridge LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Eryngium fontanum</i> | – | E | E | Known from two spring wetland complexes (Moses (Doongmabulla) and Edgbaston-Myross) in central Queensland in the Barcaldine spring super-group (larger regional groups of springs). Occurs in very restricted habitat in shallow permanent ponded water of wetlands associated with artesian springs (Department of the Environment and Energy, 2017 #7539). | PMST - Charters Towers LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Eucalyptus paedoglauca</i> | – | V | V | Occurs only in the Townsville area of north-east Queensland. Situated on ridges or hill slopes on shallow sandy-loam soil. | PMST - Charters Towers LGA | Moderate (Potential to occur in BVGs 11,12 and 13 and associated subtypes) |
| <i>Eucalyptus raveretiana</i> | – | V | V | Wide distribution in coastal and sub-coastal areas of Queensland, from south of Townsville to Nebo, around Rockhampton and areas 100km west of the city. Usually grows along watercourses, and sometimes on river flats or open woodland. Soil varies from sand through to heavy clay. | PMST - Charters Towers LGA | Moderate (Potential to occur in BVGs 16 and associated subtypes) |
| <i>Euphorbia carissoides</i> | – | V | V | Chamaesyce carissoides is restricted to north-east Queensland where it is known from near Georgetown and east to Stannary Hills, with a disjunct occurrence near Hopevale. The species grows on cliffines, among rocky outcrops and hillsides in shrubland and eucalypt low open woodland communities in generally shallow soils derived from sandstone, granite and rhyolite substrates. | PMST - Etheridge LGA Wildlife Online - Etheridge LGA | Moderate (Potential to occur in BVGs 13 and associated subtypes) |
| <i>Gastrodia urceolata</i> | – | - | V | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |

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|---------------------------------|-------------|----------|--------|---|--|--|
| <i>Genoplesium tectum</i> | – | E | E | Known only from a small area south of Cardwell in north-eastern Queensland. Occurs in dense scrub not far from a creek among dense sedges and low shrubs in woodland dominated by <i>Melaleuca viridiflora</i> . Soils are seasonally inundated sandy loams {Department of the Environment and Energy, 2017 #7539}. | PMST - Hinchinbrook LGA | Moderate (Potential to occur in BVG 21a) |
| <i>Glossocardia orthochaeta</i> | – | - | E | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Graptophyllum excelsum</i> | – | - | NT | Occurs in NEQ and coastal central Queensland. Altitudinal range in NEQ from 350-600 m. Often grows on limestone in monsoon forest and vine thickets. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Grevillea glossadenia</i> | – | V | V | Occurs in north-east Queensland mainly in the Einasleigh Uplands (IBRA) bioregion, with a few collections from the Wet Tropics Bioregion. Grows in eucalypt woodland or low open forest, in shallow to skeletal granitic soils on rolling hills, gravel terraces near stream beds, and along roadsides and mining tracks {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA | Moderate (Potential to occur in BVGs 12 and 13 and associated subtypes) |
| <i>Habenaria rumphii</i> | – | - | NT | Grows on sandy soils in seasonally-flooded grassy areas in open forest and woodland. Found both in Queensland and the Northern Territory. | Wildlife Online - Hinchinbrook LGA | Moderate (Potential to occur in BVGs 16 and 17 and associated subtypes) |
| <i>Homoranthus porteri</i> | – | V | V | Restricted to north-east Queensland from near Mareeba southwards to near Ravenshoe. Occurs in shallow soils on a variety of rock types (including rhyolite), usually in woodland or heath. It has been recorded on sandstone pavement, rock outcrops and scree slopes, on the edge of rocky escarpments and rocky hillsides {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA, Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 12 and 13 and associated subtypes) |

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|---------------------------------|-------------|----------|--------|--|---|--|
| <i>Ipomoea saintronanensis</i> | – | - | V | Endemic to NEQ. Altitudinal range from 600-900 m. Grows in vine thicket and monsoon forest. | Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Kardomia squarrulosa</i> | – | - | V | On sandstone outcrops, with <i>Acacia shirleyi</i> . | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 12 and associated subtypes) |
| <i>Kunzea calida</i> | – | - | E | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Labichea brassii</i> | – | - | NT | Confined to northern Qld. Known from Mt Mulligan in the north south-west to Agate Creek. Recorded growing along creek and river beds {Department of the Environment and Energy, 2017 #7537}. | Wildlife Online - Etheridge LGA | Moderate (Potential to occur in BVGs 16 and 17 and associated subtypes) |
| <i>Lawrencia buechananensis</i> | – | - | V | Species and habitat information is not publically available. | PMST - Charters Towers LGA Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Leptospermum pallidum</i> | – | - | NT | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |

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|--|-------------|----------|--------|--|---|--|
| <i>Lepturus minutus</i> | – | - | V | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Lindsaea pulchella</i> var. <i>blanda</i> | – | V | PE | Known in Australia from a single specimen collected at 'Rockingham, 4000ft alt.. This is a very poorly known taxon in Australia with only one record from an uncertain locality, but possibly in the Rockingham Bay Range, Queensland. This species occurs within the Wet Tropics (Queensland) Natural Resource Management Region. | PMST - Charters Towers LGA, Hinchinbrook LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Livistona drudei</i> | – | - | V | Occurs in NEQ from Tully to Conway Beach. Altitudinal range from near sea level to 300 m. Grows along stream banks and coastal plains in Melaleuca swamp forest to fringes of gallery rainforest and rainforest to eucalypt forest. | Wildlife Online - Hinchinbrook LGA | Moderate (Potential to occur in BVGs 21 and 22 and associated subtypes) |
| <i>Livistona lanuginosa</i> | – | V | V | Endemic to the Burdekin-Ravenswood-Cape River area inland from Ayr, where it is found on the tributaries of the Burdekin River. Forms colonies along streambanks and gullies well inland from the coast and is found at altitudes of 150–300m above sea level. Its habitat is open woodland on sandy river and creek channels which flow for part of the year, with permanent pools or soaks {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA, Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 16 and 17 and associated subtypes) |
| <i>Macropteranthes leiocaulis</i> | – | - | NT | Occur in the semi-evergreen vine thickets. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Macropteranthes montana</i> | – | V | V | Known from a small area just south of Cape York Peninsula, Queensland. As far north as Hutchinson (inland from Cape Tribulation) and from localities near Mount Mulligan, Chillagoe, Dimbulah, Petford, Irvinebank, Elizabeth Creek Gorge, Bulleringa National Park and south west as far as the northern Newcastle Range. Occurs in shallow soil in low woodland or vine thicket and occurs within the Northern Gulf and Wet Tropics (Queensland) Natural Resource Management Regions {Department of the Environment and Energy, 2017 #7539}. | PMST - Etheridge LGA Wildlife Online - Etheridge LGA | Moderate (Potential to occur in BVG 7a) |

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|---------------------------------|-------------|----------|--------|--|---|--|
| <i>Marsdenia araujacea</i> | – | X | PE | Was endemic to far northern Queensland between Cooktown and Ingham, south of Cairns. Grew in lowland rainforest | Wildlife Online - Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Marsdenia brevifolia</i> | – | V | V | Occurs in north and central Queensland where it is known from near Townsville, Springsure and north of Rockhampton. Grows on serpentine rock outcrops or crumbly black soils derived from serpentine in eucalypt woodland, often with Broad-leaved Ironbark (<i>Eucalyptus fibrosa</i>) and <i>Corymbia xanthope</i> {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 11 and associated subtypes) |
| <i>Micromyrtus rotundifolia</i> | – | - | V | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Myrmecodia beccarii</i> | – | V | V | Occurs in coastal woodland and mangrove between Cooktown and Ingham in Queensland. It is a unique epiphyte that has a special association with the golden ant which lives in the chambers of the tuber, and the Apollo Jewel Butterfly which lays its eggs on the plant. | PMST - Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Oenanthe javanica</i> | – | - | NT | Species and habitat information is not publically available. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Oldenlandia polyclada</i> | – | - | NT | Occurs in NEQ with a restricted distribution from Cooktown to Townsville. Altitudinal range from 160-300 m. Grows along drainage lines in forest and vine thicket, occasionally in woodland. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 16 and 17 and associated subtypes) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|-------------------------------|-----------------------|----------|--------|--|---|---|
| <i>Omphalea celata</i> | – | V | V | Known from three sites in central east Queensland. Locations include Hazlewood Gorge, near Eungella; Gloucester Island, near Bowen; and Cooper Creek in the Homevale Station area, north-west of Nebo. Grows in fragmented semi-evergreen vine thicket along a watercourse on weathered metamorphics in a steep-sided gorge at an altitude of 560m {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Parsonsia largiflorens</i> | – | - | E | Grows in rainforest, including drier types; from the Cairns area south to the Tweed River, now apparently extinct in NSW {Royal Botanic Gardens, 2017 #3885}. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Paspalidium udum</i> | – | - | V | Endemic to tropical Australia. Rare in NT. Occurs on black soil plains. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 11 and associated subtypes) |
| <i>Peristylus banfieldii</i> | – | - | E | Grows in open forest and on swamp margins in seasonally wet (monsoon season) soils. | Wildlife Online - Hinchinbrook LGA | Moderate (Potential to occur in BVGs 16, 21 and 22 and associated subtypes) |
| <i>Phaius australis</i> | Southern Swamp Orchid | E | E | Previously occurred as far south as Port Macquarie but is now thought to only occur north of Coffs Harbour. Grows in coastal areas in swampy grassland or forest including rainforest, eucalypt or paperbark forest. Flowers sept-oct (Harden 1993; NPWS 2002). | PMST - Charters Towers LGA, Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Phaius pictus</i> | – | V | V | Occurs in north-east Queensland, sporadically from the McIlwraith Range, Bloomfield River to Kirrama Range. It is highly localised, restricted to rainforests from 0–600m altitude, and usually occurs in sheltered humid sites close to streams and seepage among forest litter on boulders {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA, PMST Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|-------------|----------|--------|--|--|--|
| <i>Phalaenopsis amabilis</i> subsp. <i>rosenstromii</i> | – | E | E | The Native Moth Orchid is found in humid rainforest areas, close to waterfalls or streams, in deep gorges, sheltered slopes or gullies in notophyll vine thickets, deciduous vine thickets and in open forest. The Native Moth Orchid grows in shaded or partially shaded positions, on trees and less commonly on rocks. The species is found at altitudes from 200–500 m above sea level {Department of the Environment, 2015 #7233} | PMST - Charters Towers LGA, Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Phlegmariurus phlegmarioides</i> | – | - | V | The Layered Tassel Fern occurs in the lowland tropical rainforest of north eastern Queensland, Australia. | Wildlife Online - Charters Towers LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Pluchea punctata</i> | – | - | E | Species and habitat information is not publically available. | Wildlife Online - Etheridge LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Solanum angustum</i> | – | - | E | Species and habitat information is not publically available. | Wildlife Online - Etheridge LGA | Moderate Conservative ranking applied, due to lack of species and habitat information. |
| <i>Solanum carduiforme</i> | – | - | V | Known from 15 populations in a disjunct distribution from Queensland, the Northern Territory and Western Australia. In Queensland, the distributional range is 600 km and it occurs in two main areas: Bowthorne, Boodjamulla (Lawn Hill) National Park, and nearby 'Musselbrook' (north-west Queensland) and Cobbold Gorge, Forsayth and Richmond (southern Gulf). Known to occur on conglomerate rock formations. Other locations are on sandstone or deeper sandy soil adjacent to sandstone outcrops {Department of the Environment and Energy, 2017 #7539}. | Wildlife Online - Etheridge LGA | Moderate (Potential to occur in BVGs 11, 12 and 13 and associated subtypes) |
| <i>Solanum graniticum</i> | – | - | E | Found in Qld on the mainland in the Bowen area and on adjacent Gloucester Island and also in the Eungulla Dam area. Occurs in Eucalypt woodland on soils derived from granite or granodiorite. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVGs 13 and associated subtypes) |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--------------------------------|-------------|----------|--------|---|--|---|
| <i>Solanum sporadotrichum</i> | – | - | NT | Grows in association with semi-evergreen vine thicket, notophyll rainforest or littoral rainforest with <i>Brachychiton australis</i> , <i>Gyrocarpus americanus</i> , <i>Flindersia collina</i> , <i>Araucaria cunninghamii</i> , <i>Acacia fasciculifera</i> and <i>Drypetes deplanchei</i> , or in eucalypt open forest or woodland. Soils are moderately to very fertile. | Wildlife Online - Charters Towers LGA | Moderate (Potential to occur in BVG 7a) |
| <i>Tephrosia leveillei</i> | – | V | V | Known from the area between Chillagoe and Forty Mile Scrub with one specimen further south, near Ravenswood. Recorded growing on alluvial plains in <i>Eucalyptus cullenii</i> woodland with <i>Corymbia erythrophloia</i> , <i>Erythrophleum chlorostachys</i> and <i>Grevillea glauca</i> , and in tall open forest of <i>Eucalyptus</i> and <i>Corymbia</i> species over dense <i>Heteropogon contortus</i> on red sand. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA, Wildlife Online - Etheridge LGA | Moderate (Potential to occur in BVGs 11, 12 and 13 and associated subtypes) |
| <i>Tropilis callitrophilis</i> | – | V | V | Distributed in north-eastern Queensland from Mount Finnigan to the Evelyn Tableland. Occurs in rainforests and rainforest margins at high altitudes. It favours Stringybark Cypress Pine (<i>Callitris macleayana</i>) as a host, but also grows on various shrubby myrtles, such as <i>Rhodamnia</i> and <i>Austromyrtus</i> . Flowering between August-September. {Department of the Environment and Energy, 2017 #7521} | PMST - Charters Towers LGA, Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |
| <i>Zeuxine polygonoides</i> | – | V | V | In Australia, the Velvet Jewel Orchid grows in moist shady sites in rainforests (mesophyll vine forests and simple notophyll vine forests) in leaf litter on the ground or on large boulders adjacent to streams. Altitudinal range is 450–820 m above sea level. Found mostly from moist, cloudy or very wet rainfall zones on metamorphic substrates, granite or rhyolite. The species can be found in humus on flat topped rocks in association with <i>Anoetochilus yatesiae</i> , <i>Goodyera viridiflora</i> and <i>Liparis simmondsii</i> {Department of the Environment and Energy, 2017 #7526} | PMST - Hinchinbrook LGA | Low (Suitable habitat is unlikely to occur) |

Key: X = Extinct, PE= Presumed Extinct, CE = Critically Endangered, E = Endangered, V= Vulnerable, NT = Near Threatened

Appendix C

FAUNA LIKELIHOOD OF OCCURRENCE

Fauna likelihood of occurrence

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|--------------------------------|----------|--------|---|---|---|
| Amphibians | | | | | | |
| <i>Litoria dayi</i> (syn. <i>Nyctimystes dayi</i>) | Australian Lacelid, Day's Frog | E | E | The Lace-eyed Tree Frog is a rainforest species, endemic to the Wet Tropics Bioregion. The Lace-eyed Tree Frog occurred throughout the Wet Tropics Bioregion from Paluma to Cooktown, northern Queensland, at altitudes between 0 and 1200 m. It is associated with rainforests and rainforest margins. In montane areas the species prefers fast-flowing rocky streams although they also frequent slower watercourses where ample vegetation exists along the margins. At low elevations, the Lace-eyed Tree Frog favours rock soaks, narrow ephemeral streams and rock outcrops in larger watercourses. It may also be found on rocks, boulders and vegetation in or adjacent to streams {Department of the Environment and Energy, 2017 #7520}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Rainforest not present. |
| <i>Litoria nannotis</i> | Torrent Tree Frog | E | E | The Torrent Tree Frog occurs throughout the Wet Tropics Bioregion, North Queensland, from Paluma to Cooktown, but only has stable populations at lowland sites (180-400 m). It is restricted to rocky stream habitats in rainforest or wet sclerophyll forest where there is fast flowing water, waterfalls and cascades {Department of the Environment and Energy, 2017 #7527}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in open forest riparian habitats (BVG 16 and subsets). |
| <i>Litoria nyakalensis</i> | Nyakala Frog | CE | E | Endemic to the Wet Tropics Bioregion in Far North Queensland. Adults occur in rainforest and wet sclerophyll forest, next to white water sections of fast flowing streams. Often found on rocks adjacent to the stream or overhanging vegetation (Department of the Environment and Water Resources, 2007). | PMST - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in open forest riparian habitats (BVG 16 and subsets). |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---------------------------|----------------------|----------|--------|---|--|---|
| <i>Litoria rheocola</i> | Common Mistfrog | E | E | Endemic to the Wet Tropics Bioregion (Williams & Hero 1998, 2001). The species is restricted to fast flowing rocky creeks and streams in rainforest as well as wet sclerophyll forest (Liem 1974; McDonald 1992). Within these streams this species are often found in the slower more open sections, away from waterfalls (Hodgkison & Hero 2002). Individuals can be found on rocks, logs and vegetation in or adjacent to streams (Hero & Fickling 1994). | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Moderate May occur in open forest riparian habitats (BVG 16 and subsets). |
| <i>Litoria serrata</i> | Green-eyed Tree Frog | - | V | Occurs from Paluma to Big Tableland in north-eastern Queensland in rainforest habitats. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Rainforest not present. |
| Birds | | | | | | |
| <i>Actitis hypoleucos</i> | Common Sandpiper | M | SLC | The Common Sandpiper frequents a wide range of coastal wetlands and some inland wetlands, with varying levels of salinity. It is mostly encountered along muddy margins or rocky shores and rarely on mudflats. It has been recorded in estuaries and deltas of streams, banks farther upstream; around lakes, pools, billabongs, reservoirs, dams and claypans, and occasionally piers and jetties. The muddy margins utilised by the species are often narrow, and may be steep. The species is often associated with mangroves, and sometimes found in areas of mud littered with rocks or snags {Geering, 2007 #3752}{Higgins, 1996 #648}. Roost sites are typically on rocks or in roots or branches of vegetation, especially mangroves. The species is known to perch on posts, jetties, moored boats and other artificial structures, and to sometimes rest on mud or 'loaf' on rocks {Higgins, 1996 #648}. | PMST - Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in wetland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|----------------------------------|------------------------|----------|--------|--|--|---|
| <i>Apus pacificus</i> | Fork-tailed Swift | M | SLC | Breeds in the northern hemisphere, wintering south to Australia. It is almost exclusively aerial, flying from less than 1 m to at least 300 m above ground. It mostly occurs over inland plains but sometimes above foothills or in coastal areas over cliffs, beaches, islands and well out to sea. It also occurs over towns and cities. It mostly occurs over dry and/or open habitats, including riparian woodland and tea-tree swamps, low scrub, heathland or saltmarsh, grassland, spinifex sandplains, farmland and sand-dunes. It sometimes occurs above forests. It probably roosts aerially, but has occasionally been observed to land {Higgins, 1999 #531}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | High Likely to occur periodically in or above all habitats. |
| <i>Calidris (Crocethia) alba</i> | Sanderling | M | SLC | A coastal species found on low and open sand beaches exposed to open sea-swells. A migratory species, it has been recorded in NSW from September to May {Pizzey, 1997 #24}. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present. |
| <i>Calidris acuminata</i> | Sharp-tailed Sandpiper | M | SLC | Occurs in a variety of habitats: tidal mudflat, mangrove swamps, saltmarshes, shallow fresh, brackish, salt inland swamps and lakes; flooded and irrigated paddocks, sewage farms and commercial saltfields {Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Moderate May occur periodically in wetland habitats. |
| <i>Calidris canutus</i> | Red Knot | E (M) | SLC | In Australasia the Red Knot mainly inhabit intertidal mudflats, sandflats and sandy beaches of sheltered coasts, in estuaries, bays, inlets, lagoons and harbours; sometimes on sandy ocean beaches or shallow pools on exposed wave-cut rock platforms or coral reefs. They are occasionally seen on terrestrial saline wetlands near the coast, such as lakes, lagoons, pools and pans, and recorded on sewage ponds and saltworks, but rarely use freshwater swamps. They rarely use inland lakes or swamps {Higgins, 1996 #648}. | PMST - Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|------------------------------|------------------|----------|--------|--|--|--|
| <i>Calidris ferruginea</i> | Curlew Sandpiper | M | E | Occurs in inter-tidal mudflats of estuaries, lagoons, mangrove channels and also around lakes, dams, floodwaters and flooded saltbush surrounding inland lakes {Morcombe, 2003 #992}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur periodically in wetland habitats. |
| <i>Calidris ruficollis</i> | Red-necked Stint | M | SLC | Mostly found in coastal areas, including sheltered inlets, bays lagoons and estuaries. They also occur in shallow wetlands near the coast or inland, including lakes, waterholes and dams {Higgins, 1996 #648}. They forage in mudflats, shallow water, sandy open beaches, flooded paddocks and in samphire feeding along the edges. The species roosts on sheltered beaches, spits, banks or islets, of sand, mud, coral or shingle. Occasionally they roost on exposed reefs or shoals {Higgins, 1996 #648} and amongst seaweed, mud and cow-pats {Hobbs, 1961 #3753}. During high tides they may also use sand dunes and claypans. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur periodically in wetland habitats. |
| <i>Calidris tenuirostris</i> | Great Knot | CE (M) | SLC | Generally a coastal species found on tidal mudflats and sandy ocean shores. A migratory species visiting Australian waters between September and March {Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--|-----------------------|----------|--------|--|---|--|
| <i>Calyptorhynchus lathamii erebus</i> | Glossy Black-Cockatoo | - | V | <i>Calyptorhynchus lathamii erebus</i> occurs in the north and central east coast of Queensland. This subspecies ranges from the Dawson-Mackenzie-Isaac Rivers basin, north to the Connors-Clarke Ranges, south to Dawes and Many Peaks Ranges, and inland to the Expedition, Peak and Denham Ranges, including the Blackdown Tableland. It prefers woodland areas dominated by she-oak <i>Allocasuarina</i> , or open sclerophyll forests and woodlands with a stratum of <i>Allocasuarina</i> beneath <i>Eucalyptus</i> , <i>Corymbia</i> or <i>Angophora</i> . An obligate hollow nester, glossy black-cockatoos require large old trees (living or dead), usually eucalypts, for breeding. As such, nesting sites are mainly in areas containing large old trees {C.Hourigan, 2012 #7528}. | Wildlife Online - Charters Towers LGA | Moderate May occur in habitats supporting <i>Casuarina</i> and <i>Allocasuarina</i> flora species. |
| <i>Casuarius casuarius johnsonii</i> (southern population) | Southern Cassowary | E | E | Although occurring primarily in rainforest and associated vegetation, the cassowary also uses woodland, swamp and disturbed habitats for a year-round supply of fleshy fruits. It occurs in three broad populations. In the Wet Tropics it is distributed widely from Cooktown to just north of Townsville. Core habitat is coastal lowlands between Ingham and Mossman, and uplands in the southern Atherton Tablelands and other ranges. On Cape York, it occurs as two disjunct populations in vine-forest communities: one in MacIlwraith and Iron Ranges, the other in Shelburne Bay {P.Latch, 2007 #7529}. | PMST Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in SEVT, open forest and woodland habitats. |
| <i>Charadrius leschenaultii</i> | Greater Sand Plover | V (M) | SLC | Entirely coastal in NSW foraging on intertidal sand and mudflats in estuaries, and roosting during high tide on sand beaches or rocky shores. A migratory species it is found in New South Wales generally during the summer months {Pizzey, 2007 #24}. | PMST Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--------------------------------|--------------------|----------|--------|--|---|--|
| <i>Charadrius mongolus</i> | Lesser Sand Plover | E (M) | SLC | Migratory bird that migrates from the northern hemisphere to coastal areas of northern and east coast of Australia {Garnett, 2000 #21}. The species is almost strictly coastal during the non-breeding season, preferring sandy beaches, mudflats of coastal bays and estuaries, sand-flats and dunes near the coast, occasionally frequenting mangrove mudflats (IUCN Redlist entry). | PMST Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present. |
| <i>Charadrius ruficapillus</i> | Red-capped Plover | M | SLC | A shoreline species inhabiting both coastal and inland wetland habitats; including broad sandy and shelly beaches, intertidal flats, broad flat margins of saline and freshwater lakes and rivers, saltmarsh, dunes and occasionally shallow coastal fresh or saline wetlands {Pizzey, 2012 #3921}. It is distributed widely throughout Australia and Tasmania where suitable habitats occur {Pizzey, 2012 #3921}. | PMST - Charters Towers LGA | Moderate May occur periodically in wetland habitats. |
| <i>Charadrius veredus</i> | Oriental Plover | M | SLC | Oriental Plovers are found in coastal habitats, including estuarine mudflats and sandbanks, on sandy or rocky ocean beaches, nearby reefs, or near-coastal grasslands. They also disperse further inland inhabiting flat, open, semi-arid or arid grasslands, where the grass is short and sparse, and interspersed with hard, bare ground, such as claypans, dry paddocks, playing fields, lawns and cattle camps or open areas that have been recently burnt. Oriental Plovers may move to lightly wooded grasslands in wet season and sometimes roost on soft wet mud or in shallow waters of ocean or mudflats and also occasionally in dry, open habitats, such as saltmarsh or paddocks {McCrie, 1984 #3674}{Park, 1983 #3676}{Patterson, 1983 #3677}. | PMST Etheridge LGA Wildlife Online - Hinchinbrook LGA | Moderate May occur periodically in wetland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--|-----------------------------------|----------|--------|---|--|--|
| <i>Chlidonias leucopterus</i> | White-winged Black Tern | M | SLC | In Australia, and elsewhere in their non-breeding range, the species mostly inhabits fresh, brackish or saline, and coastal or subcoastal wetlands. It frequents tidal wetlands, such as harbours, bays, estuaries and lagoons, and their associated tidal sandflats and mudflats. Terrestrial wetlands, including swamps, lakes, billabongs, rivers, floodplains, reservoirs, saltworks, sewage ponds and outfalls are also inhabited. They rarely occur on inland wetlands in Australia {Chan, 2007 #3655}{Chan, 2008 #3656}{Chatto, 2006 #3657}{Cramp, 1985 #3658}{Denig, 2003 #3659}{Gochfeld, 1996 #3660}{Higgins, 1996 #648}{Johnstone, 1998 #3661}{Urban, 1986 #3662}. | Wildlife Online - Hinchinbrook LGA | Moderate May occur periodically in wetland habitats. |
| <i>Cuculus opatus</i> (syn. <i>Cuculus saturatus</i>) | Oriental Cuckoo, Himalayan Cuckoo | M | SLC | A non-breeding migrant to Australia, it often inhabits rainforest, vine thickets, wet sclerophyll forest and open woodland and sometimes occurs in mangroves, wooded swamps and as vagrants in gardens {Higgins, 1999 #531}. The population trend appears to be stable {BirdLife International, 2009 #3694}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | High Likely to occur in open forest to woodland habitats. |
| <i>Cyclopsitta diophthalma macleayana</i> | Macleay's Fig-Parrot | - | V | Found in upland and lowland rainforests, usually containing fig trees (<i>Ficus</i>); including dry cool subtropical and littoral rainforests, tropical semi-deciduous vine forests and gallery forests. Usually in large tracts of forest, particularly near edges, and rarely in partly cleared and fragmented rainforest {Higgins, 1999 #531}. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in SEVT along the great dividing range. |
| <i>Epthianura crocea macgregori</i> | Yellow Chat (Dawson) | CE | E | Inhabits marine plain wetlands that experience inundations of both fresh and saltwater tidal influences (Barnard 1913; Houston et al. 2004a, 2004b; Jaensch et al. 2004a). Specifically occupies areas that contain networks of shallow drainage channels and nearby grassland depressions. It breeds, shelters and forages in grasslands and dense beds of rush and sedge, but it also forages in more open habitats nearby, especially more sparse grasslands and Samphire vegetation (Houston et al. 2004a, 2004b; Jaensch et al. 2004a). | Wildlife Online - Etheridge LGA | Moderate May occur in wetland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|----------------------------------|-------------------------|----------|--------|--|--|---|
| <i>Erythrotriorchis radiatus</i> | Red Goshawk | V (M) | E | Lives in coastal and sub-coastal tall open forests and woodlands, tropical savannas traversed by wooded or forested rivers and along edges of rainforest. Nests are only built in trees taller than 20 meters which occur within 1 kilometre of a watercourse or wetland. Has a home range of 200 square kilometres and hunts for medium to large birds in open forests and gallery forest {Garnett, 2000 #21}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in open forest riparian habitats (BVG 16 and subsets) |
| <i>Erythrura gouldiae</i> | Gouldian Finch | E | E | The Gouldian Finch inhabits open woodlands that are dominated by Eucalyptus trees and support a ground cover of Sorghum and other grasses. It has also been recorded in undescribed thickets of vegetation along streams and gorges, and at the margins of stands of mangroves. It sometimes occurs around homesteads and townships. The Gouldian Finch drinks regularly and thus is often seen at watering points and associated habitat such as beds of grass and grass-covered banks around shallow waterholes, watercourses, soaks and springs {Department of the Environment and Energy, 2017 #7530}. | PMST - Charters Towers LGA, Etheridge LGA Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate May occur in grassland and open grassy woodland habitats near water. |
| <i>Erythrura trichroa</i> | Blue-faced Parrot-finch | - | NT | The Blue-faced Parrot Finch inhabits Hill forest and montane forest and forest edge, rainforest, and dense secondary growth often observed eating the seeds of introduced grasses such as Signal Grass (<i>Brachiaria decumbens</i>) and Guinea or Hamil Grass (<i>Megathyrsus maximus</i>). | Wildlife Online - Charters Towers LGA | Moderate May occur in SEVT toward range. |
| <i>Esacus neglectus</i> | Beach Stone-curlew | CE | - | Found on beaches within species range, including short stretches of muddy sand among mangroves, coralline sands on atolls and prime surf beaches. Does not occupy long stretches of continuous mangroves or cliffs though beaches associated with estuaries or near mangroves are favoured {Garnett, 2000 #21}. | Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|-----------------------------|-----------------|----------|--------|--|--|--|
| <i>Falco hypoleucos</i> | Grey Falcon | - | V | Generally centred on inland drainage systems where the average rainfall is less than 500 millimetres. It is found in timbered lowland plains that are crossed by tree-lined water courses. Nests in the old nests of other birds, particularly raptors {Garnett, 2000 #21}. | Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Moderate May occur in open forest riparian habitats (BVG 16 and subsets) |
| <i>Gallinago hardwickii</i> | Latham's Snipe | M | SLC | Occurs in freshwater or brackish wetlands generally near protective vegetation cover. This species feeds on small invertebrates, seeds and vegetation. It migrates to the northern hemisphere to breed {Garnett, 2000 #21}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | High Likely to occur in wetland habitats. |
| <i>Gallinago megala</i> | Swinhoe's Snipe | M | SLC | During the non-breeding season Swinhoe's Snipe occurs at the edges of wetlands, such as wet paddy fields, swamps and freshwater streams. The species is also known to occur in grasslands, drier cultivated areas (including crops of rapeseed and wheat) and market gardens. Habitat specific to Australia includes the dense clumps of grass and rushes round the edges of fresh and brackish wetlands. This includes swamps, billabongs, river pools, small streams and sewage ponds. They are also found in drying claypans and inundated plains pitted with crab holes {Environment, 2015 #3579}. | PMST - Hinchinbrook LGA | High Likely to occur in wetland habitats. |
| <i>Gallinago stenura</i> | Pintail Snipe | M | SLC | During non-breeding period the Pin-tailed Snipe occurs most often in or at the edges of shallow freshwater swamps, ponds and lakes with emergent, sparse to dense cover of grass/sedge or other vegetation. The species is also found in drier, more open wetlands such as claypans in more arid parts of species' range. It is also commonly seen at sewage ponds; not normally in saline or inter-tidal wetlands {Department of the Environment, 2015 #3580}. | PMST - Hinchinbrook LGA | High Likely to occur in wetland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--|--|----------|--------|---|--|--|
| <i>Gelochelidon nilotica</i> (syn. <i>Sterna nilotica</i>) | Gull-billed Tern | M | SLC | Prefer shallow, often ephemeral, terrestrial wetlands, either fresh or saline, especially lakes, swamps and lagoons, particularly those with mudflats; sometimes on inundated ground, including saltpans, claypans and saltmarsh or watercourses and associated floodplains. Also occur in sheltered coastal embayments, estuaries and river deltas with tidal sandflats, mudflats or beaches. Inland, often occur well away from water, on dry samphire, grassy plains or even gibber. Usually breed on large, often ephemeral, inland lakes and swamps, on low exposed islands, banks, flats or spits of dry mud, sand or, occasionally, rocks; either bare or vegetated with sparse dry grass, reeds and rushes or scattered samphire {Higgins, 1997 #2274}. | Wildlife Online - Etheridge LGA, Hinchinbrook LGA | High Likely to occur in wetland habitats. |
| <i>Geophaps scripta scripta</i> | Squatter Pigeon (Southern Subspecies) | V | V | The Squatter Pigeon (southern) occurs mainly in grassy woodlands and open forests that are dominated by eucalypts. It has also been recorded in sown grasslands with scattered remnant trees, disturbed habitats (i.e. around stockyards, along roads and railways, and around settlements), in scrub and acacia growth, and remains common in heavily-grazed country north of the Tropic of Capricorn. The species is commonly observed in habitats that are located close to bodies of water {Department of Sustainability Environment Water Population and Communities, 2011 #3366}. | PMST - Charters Towers LGA, Wildlife Online - Charters Towers LGA | High Likely to occur in grassland and open grassy woodland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|------------------------------|---------------------------|----------|--------|--|---|--|
| <i>Glareola maldivarum</i> | Oriental Pratincole | M | SLC | Within Australia the Oriental Pratincole is widespread in northern areas, especially along the coasts of the Pilbara Region and the Kimberley Division in Western Australia, the Top End of the Northern Territory, and parts of the Gulf of Carpentaria. It is also widespread but scattered inland, mostly north of 20° S. In non-breeding grounds in Australia, the Oriental Pratincole usually inhabits open plains, floodplains or short grassland (including farmland or airstrips), often with extensive bare areas. They often occur near terrestrial wetlands, such as billabongs, lakes or creeks, and artificial wetlands such as reservoirs, saltworks and sewage farms, especially around the margins. The species also occurs along the coast, inhabiting beaches, mudflats and islands, or around coastal lagoons {Department of the Environment and Energy, 2017 #7531}. | PMST - Etheridge LGA | Moderate Likely to occur in grassland, grazing land and open grassy woodland habitats. |
| <i>Grantiella picta</i> | Painted Honeyeater | V | V | Lives in dry forests and woodlands. Primary food is the mistletoes in the genus Amyema, though it will take some nectar and insects. Its breeding distribution is dictated by presence of mistletoes which are largely restricted to older trees. Less likely to be found in in strips of remnant box-ironbark woodlands, such as occur along roadsides and in windbreaks, than in wider blocks {Garnett, 2000 #21}. | PMST - Charters Towers LGA, Wildlife Online - Etheridge LGA | High Likely to occur in forests to open grassy woodland habitats. |
| <i>Hirundapus caudacutus</i> | White-throated Needletail | M | SLC | Occurs in airspace over forests, woodlands, farmlands, plains, lakes, coasts and towns. Breeds in the northern hemisphere and migrates to Australia in October-April {Pizzey, 2007 #24}. | PMST - Hinchinbrook LGA, Charters Towers LGA Wildlife Online - Hinchinbrook LGA, Etheridge LGA | High Likely to occur periodically in or above all habitats. |
| <i>Hirundo rustica</i> | Barn Swallow | M | SLC | Usually found in airspace over open grassland and wetland habitats such as ponds, freshwater wetlands swimming pools, coastal lagoons and tidal pools. This species is a regular visitor to northern Australia in Qld, NT and WA. This species has been occasional records in NSW at Newcastle, Mullumbimby and Nowra {Higgins, 2006 #2278}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | High Likely to occur periodically in or above all habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|----------------------|----------|--------|---|--|--|
| <i>Hydroprogne caspia</i> (syn. <i>Sterna caspia</i>) | Caspian Tern | M | SLC | The Caspian Tern is found in sheltered coastal embayments preferring sandy or muddy margins. Also found in near-coastal or inland terrestrial wetlands. It forages in open wetlands, preferring sheltered shallow water near the margins. It usually breeds in low islands, cays, spits, banks, ridges, beaches of sand or shell, terrestrial wetlands and stony or rocky islets or banks and occasionally among beach-cast debris above the high-water mark or at artificial sites, including islands in reservoirs, or on dredge-spoil. Generally roosting occurs on bare exposed sand or shell spits, banks or shores. {Higgins, 1996 #648}. | Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur in wetland habitats. |
| <i>Limosa lapponica</i> | Bar-tailed Godwit | M | SLC | Occurs in coastal mudflats, sandbars, shores of estuaries, salt marsh and sewage ponds {Morcombe, 2003 #992}. | PMST - Hinchinbrook LGA, Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present. |
| <i>Limosa limosa</i> | Black-tailed Godwit | M | SLC | A coastal species found on tidal mudflats, swamps, shallow river margins and sewage farms. Also found inland on larger shallow fresh or brackish waters. A migratory species visiting Australia between September and May {Pizzey, 2007 #24}. | PMST - Charters Towers LGA Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Low Coastal habitats not present. |
| <i>Monarcha frater</i> | Black-winged Monarch | M | SLC | Found along the coast of eastern Australia, becoming less common further south. It is found in rainforests, eucalypt woodlands, coastal scrub and damp gullies. It may be found in more open woodland when migrating. | Wildlife Online - Hinchinbrook LGA | Moderate May occur in SEVT toward range. |
| <i>Monarcha melanopsis</i> | Black-faced Monarch | M | SLC | Occurs in rainforests, eucalypt woodlands, coastal scrubs, damp gullies in rainforest, eucalypt forest and in more open woodland when migrating {Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Moderate May occur periodically in open forest to woodland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---------------------------|------------------|----------|--------|---|--|--|
| <i>Motacilla cinerea</i> | Grey Wagtail | M | SLC | A scarce but regular visitor to northern Australia, generally arriving in October and departing around March. The species has a strong association with water. In their normal breeding range, Grey Wagtails are found across a variety of wetlands, especially water courses, but also on the banks of lakes and marshes, as well as artificial wetlands such as sewage farms, reservoirs and fishponds. This association with water extends into non-breeding habitats with all confirmed Australian records being associated with water; especially creeks, rivers and waterfalls. On migration they may forage on rocky tidal flats. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Moderate May occur in wetland and riverine habitats. |
| <i>Motacilla flava</i> | Yellow Wagtail | M | SLC | This species occurs in a range of habitats including estuarine habitats such as sand dunes, mangrove forests and coastal saltmarshes. This species also occurs in open grassy areas including disturbed sites such as sports grounds and has been recorded on the edges of wetlands, swamps, lakes and farm dams. This species migrates from Asia to Australia in spring-summer. It has been recorded in the estuarine areas of the Hunter River in Newcastle NSW and in QLD and the north of NT and WA {Higgins, 2006 #2278}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present. |
| <i>Myiagra cyanoleuca</i> | Satin Flycatcher | M | SLC | Widespread in eastern Australia. In Queensland, it is widespread but scattered in the east. In NSW, they are widespread on and east of the Great Divide and sparsely scattered on the western slopes, with very occasional records on the western plains. In Victoria, the species is widespread in the south and east. Inhabit heavily vegetated gullies in eucalypt-dominated forests and taller woodlands, and on migration, occur in coastal forests, woodlands, mangroves and drier woodlands and open forests. Satin Flycatchers mainly inhabit eucalypt forests, often near wetlands or watercourses. They generally occur in moister, taller forests, often occurring in gullies. They also occur in eucalypt woodlands with open understorey and grass ground cover, and are generally absent from rainforest {Department of the Environment, 2016 #7313}{Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | High Likely to occur in riparian forests, open forests to woodlands. |

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|-------------------------------------|---------------------------------|----------|--------|---|---|---|
| <i>Neochmia ruficauda ruficauda</i> | Star Finch (Eastern Subspecies) | E | E | The Star Finch (eastern) occurs mainly in grasslands and grassy woodlands that are located close to bodies of fresh water. It also occurs in cleared or suburban areas such as along roadsides and in towns {Department of Sustainability Environment Water Population and Communities, 2011 #3375}. | PMST - Charters Towers LGA, Etheridge LGA | Moderate May occur in grassland and open grassy woodland habitats near water. |
| <i>Numenius madagascariensis</i> | Eastern Curlew | CE (M) | V | Inhabits coastal estuaries, mangroves, mud flats and sand pits. It is a migratory shorebird which generally inhabits sea and lake shore mud flats, deltas and similar areas, where it forages for crabs and other crustaceans, clam worms and other annelids, molluscs, insects and other invertebrates. Its migration route ranges from its wintering grounds in Australia to its breeding grounds in northern China, Korea and Russia {Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present. |
| <i>Numenius minutus</i> | Little Curlew | M | SLC | On passage the species shows a preference for foraging and resting in swampy meadows near lakes and along river valleys. It overwinters on dry inland grassland, bare cultivation, dry mudflats and coastal plains of black soil with scattered shallow pools of freshwater, swamps, lakes or flooded ground. It shows a preference for short grass swards of less than 20 cm tall, and occasionally occurs in dry saltmarshes, coastal swamps, mudflats or sandflats in estuaries, or on the beaches of sheltered coasts {BirdLife International, 2009 #3757}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur in wetland habitats. |
| <i>Numenius phaeopus</i> | Whimbrel | M | SLC | Migrates to Taiwan, Philippines, PNG, and a race breeding in NE Siberia is found on the north and south-eastern coastlines of Australia. Juveniles arrive to Australia from spring to early summer. Usually only juveniles remain in Australia but very occasionally adults in breeding plumage may be seen in Australian winters {Pizzey, 2007 #24}. | PMST - Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present. |

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|---|-----------------------|----------|--------|---|---|---|
| <i>Pandion cristatus</i> (syn. <i>P. haliaetus</i>) | Eastern Osprey | M | SLC | Generally a coastal species, occurring in estuaries, bays, inlets, islands and surrounding waters, coral atolls, reefs, lagoons, rock cliffs and stacks. Sometimes ascends larger rivers to far inland. Builds nests high in tree, on pylon or on ground on islands. Feeds on fish {Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Plegadis falcinellus</i> | Glossy Ibis | M | SLC | It feeds in very shallow water and nests in freshwater or brackish wetlands with tall dense stands of emergent vegetation (e.g. reeds or rushes) and low trees or bushes. It shows a preference for marshes at the edges of lakes and rivers, as well as lagoons, flood-plains, wet meadows, swamps, reservoirs, sewage ponds, rice-fields and irrigated cultivation. It less often occurs in coastal locations such as estuaries, deltas, saltmarshes and coastal lagoons. Roosting sites are often large trees that may be far from water. The nest is a platform of twigs and vegetation usually positioned less than 1 m above water in tall dense stands of emergent vegetation (e.g. reeds or rushes), low trees or bushes over water {BirdLife International, 2009 #3757}. | Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | High Likely to occur in wetland habitats. |
| <i>Pluvialis fulva</i> | Pacific Golden Plover | M | SLC | Prefers sandy, muddy or rocky shores, estuaries and lagoons, reefs, saltmarsh, and or short grass in paddocks and crops. The species is usually coastal, including offshore islands; rarely far inland. Often observed on beaches and mudflats, sandflats and occasionally rock shelves, or where these substrates intermingle; harbours, estuaries and lagoons {Higgins, 1993 #534}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |

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|-------------------------------|--|----------|--------|---|---|---|
| <i>Pluvialis squatarola</i> | Grey Plover | M | SLC | In non-breeding grounds in Australia, Grey Plovers occur almost entirely in coastal areas, where they usually inhabit sheltered embayments, estuaries and lagoons with mudflats and sandflats, and occasionally on rocky coasts with wave-cut platforms or reef-flats, or on reefs within muddy lagoons. They also occur around terrestrial wetlands such as near-coastal lakes and swamps, or salt-lakes. The species is also very occasionally recorded further inland, where they occur around wetlands or salt-lakes {Marchant, 1993 #534}. They usually forage on large areas of exposed mudflats and beaches and occasionally in pasture and on muddy margins of inland wetlands {Marchant, 1993 #534}. They usually roost in sandy areas, such as on unvegetated sandbanks or sand-spits on sheltered beaches or other sheltered environments {Jaensch, 1988 #3754}{Pegler, 1983 #3755}. | PMST - Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Poephila cincta cincta</i> | Black-Throated Finch (White-Rumped Subspecies) | E | E | Occurs in grassy woodland dominated by eucalypts, paperbarks or acacias where there are seeding grasses and water. Nests in tree hollows or builds domed nests in trees {Garnett, 2000 #21}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | High Likely to occur in grassy open woodland habitats near water. Previous records in corridor options. |
| <i>Rhipidura rufifrons</i> | Rufous Fantail | M | SLC | Occurs in a range of habitats including the undergrowth of rainforests/wetter eucalypt forests/gullies, monsoon forests paperbarks, sub-inland and coastal scrubs, mangroves, watercourses, parks and gardens. When migrating they may also be recorded on farms, streets and buildings. Migrates to SE Australia in October-April to breed, mostly in or on the coastal side of the Great Dividing Range {Pizzey, 2007 #24}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA | High Likely to occur in riparian and moist forest habitats. |

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|--|--|----------|--------|---|---|---|
| <i>Rostratula australis</i> (syn. <i>R. benghalensis</i>) | Australian Painted Snipe (Painted Snipe) | V | V | Inhabits shallow, vegetated, temporary or infrequently filled wetlands, including where there are trees such as <i>Eucalyptus camaldulensis</i> (River Red Gum), <i>E. populnea</i> (Poplar Box) or shrubs such as <i>Muehlenbeckia florulenta</i> (Lignum) or <i>Sarcocornia quinqueflora</i> (Samphire). Feeds at the water's edge and on mudflats on seeds and invertebrates, including insects, worms, molluscs and crustaceans. Males incubate eggs in a shallow scrape nest {Garnett, 2000 #21}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Etheridge LGA | High Likely to occur in wetland habitats. |
| <i>Sterna albifrons</i> | Little Tern | M | E | Little Terns inhabit sheltered coastal environments, including lagoons, estuaries, river mouths and deltas, lakes, bays, harbours and inlets. They nest on sand-spits, sandbanks, ridges or islets in these habitats or gently sloping sandy ocean beaches and occasionally in sand-dunes {Garnett, 2000 #21}. | PMST - Hinchinbrook LGA, Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Sterna dougallii</i> | Roseate Tern | M | SLC | In Queensland, scattered records occur in the south-east Gulf of Carpentaria and west Cape York Peninsula, but birds are possibly more widespread, with large numbers nesting on south-east Bountiful Island. Birds are widespread along the east coast of Australia, south to about Hervey Bay. They are more sparsely distributed, further south, occasionally reaching north Fraser Island. It occurs in coastal and marine areas in subtropical and tropical seas. The species inhabits rocky and sandy beaches, coral reefs, sand cays and offshore islands. Birds rarely occur in inshore waters or near the mainland, usually venturing into these areas only accidentally, when nesting islands are nearby {Higgins, 1997 #2274}. | Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Sterna hirundo</i> | Common Tern | M | SLC | A non-breeding migrant to Australia, occurring mainly on the east coast and inhabiting marine, pelagic and coastal habitats. Mostly oceanic but often recorded in bays, harbours and estuaries and occasionally in coastal wetlands. Roosting occurs on unvegetated intertidal sandy ocean beaches, shores of estuaries, lagoons and sand bars {Higgins, 1996 #648}. | Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |

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|---|---------------------|----------|--------|--|--|--|
| <i>Sterna sumatrana</i> | Black-naped Tern | M | SLC | In Australia, Black-naped Terns are found mainly in the central north and north-east of the country, in central and eastern Northern Territory, the Gulf of Carpentaria and Torres Strait and through the islands and waters of the Great Barrier Reef and Coral Sea. The species is rarely found in inshore waters except when breeding. Black-naped Terns breed and roost on islands, which are very occasionally close to or attached to the mainland at low tides, and forage in seas surrounding colonies. Black-naped Terns are mainly associated with small, offshore sand and coral cays, coral reefs and lagoons, and sandy and rocky islands and islets, and in the surrounding seas. The species is only occasionally recorded in inshore waters away from their breeding colonies or coastal mainland Australia, such as harbours or bays, with their occurrence inshore probably being influenced by climatic conditions {Higgins, 1997 #2274}. | Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Tringa brevipes</i> (syn. <i>Heteroscelus brevipes</i>) | Grey-tailed Tattler | M | SLC | It is often found on sheltered coasts with reefs, rock platforms or with intertidal mudflats. It is also found at intertidal rocky, coral or stony reefs, platforms and islets that are exposed at low tide. It has also been found in embayments, estuaries and coastal lagoons, especially fringed with mangroves. It is rarely seen on open beaches and occasionally found around near-coastal wetlands, such as lagoons, lakes and ponds in sewage farms and saltworks. Inland records for the species are rare {Higgins, 1996 #648}. The species forages in shallow water, hard intertidal substrates, rock pools, intertidal mudflats, mangroves, banks of seaweed and among rocks and coral rubble, over which water may surge. The species roosts in mangroves, dense stands of shrubs, snags, rocks, beaches, reefs, artificial structures (sea walls, oyster racks), occasionally in near-coastal saltworks and sewage ponds and rarely on sandy beaches or sand banks {Higgins, 1996 #648}{Rogers, 1999 #3758}. | PMST - Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present |

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|-------------------------|-------------------|----------|--------|--|--|---|
| <i>Tringa glareola</i> | Wood Sandpiper | M | SLC | Found in well-vegetated, shallow, freshwater wetlands, such as swamps, billabongs, lakes, pools and waterholes. They are typically associated with emergent, aquatic plants or grass, and dominated by taller fringing vegetation, such as dense stands of rushes or reeds, shrubs, or dead or live trees and often with fallen timber. They also inhabit inundated grasslands, short herbage or wooded floodplains, where floodwaters are temporary or receding, and irrigated crops. This species uses artificial wetlands, including open sewage ponds, reservoirs, large farm dams, and bore drains and occasionally found in stony wetlands. The species forages on mud at the edges of wetlands, either along shores, among open scattered aquatic vegetation, or in clear shallow water (Higgins, 1996 #648). | PMST - Charters Towers LGA, Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur in wetland habitats. |
| <i>Tringa incana</i> | Wandering Tattler | CE (M) | SLC | Generally found on rocky coasts with reefs and platforms, points, spits, piers, offshore islands and shingle beaches or beds. Occasionally seen on coral reefs or beaches, and tends to avoid mudflats. Foraging habitat is among rocks or shingle, or in shallow pools at edges of reefs or beaches, mainly along the tideline. Wandering Tattlers have been recorded roosting or perching on top of boulders surrounded by or close to water (Higgins, 1996 #648). | Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Tringa nebularia</i> | Common Greenshank | M | SLC | Occurs in a range of inland and coastal environments. Inland, it occurs in both permanent and temporary wetlands, billabongs, swamps, lakes floodplains, sewage farms, saltworks ponds, flooded irrigated crops. On the coast, it occurs in sheltered estuaries and bays with extensive mudflats, mangrove swamps, muddy shallows of harbours and lagoons, occasionally rocky tidal ledges. It generally prefers wet and flooded mud and clay rather than sand (Morcombe, 2003 #992). | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur in wetland habitats. |

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|--------------------------------------|----------------------------|----------|--------|--|--|---|
| <i>Tringa stagnatilis</i> | Marsh Sandpiper | M | SLC | Occurs in coastal and inland wetlands (salt or fresh water), estuarine and mangrove mudflats, beaches, shallow or swamps, lakes, billabongs, temporary floodwaters, sewage farms and saltworks ponds {Morcombe, 2003 #992}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Etheridge LGA, Hinchinbrook LGA | Moderate May occur in wetland habitats. |
| <i>Turnix olivii</i> | Buff-breasted Button-quail | E | E | Poorly recorded species occurring in Northeast Queensland, from Iron Range and near Coen, Cooktown, Musgrave, Mount Molloy, Mareeba, Chillagoe and Ingham, although most recent records are from the Mt Molloy area. Said to prefer sparse short grassy areas on stony ground, and avoiding densely grassed areas (DoE 2015) | Wildlife Online - Hinchinbrook LGA | Moderate May occur in rocky open grassy habitats. |
| <i>Tyto novaehollandiae kimberli</i> | Masked Owl (northern) | V | V | In Queensland, there are historical records from the Normanton region, and from Pascoe, Archer, Chester and Watson Rivers on Cape York Peninsula. It occurs along the southern rim of the Gulf of Carpentaria, Cape York Peninsula and south to Atherton Tablelands and the Einasleigh-Burdekin divide. Individuals have been recorded from riparian forest, rainforest, open forest, Melaleuca swamps and the edges of mangroves, as well as along the margins of sugar cane fields {Higgins, 1999 #531}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in riparian forest and open forest to woodland habitats. |
| <i>Xenus cinereus</i> | Terek Sandpiper | M | SLC | Found on tidal mudflats and estuaries and on shores and reefs of offshore islands {Pizzey, 2007 #24}. | PMST - Hinchinbrook LGA, Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Coastal habitats not present |

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|---|---------------------------------------|----------|--------|--|---|--|
| Fish | | | | | | |
| <i>Pristis pristis</i> (syn. <i>Pristis microdon</i>) | Freshwater Sawfish | V | - | The Freshwater Sawfish may potentially occur in all large rivers of northern Australia from the Fitzroy River, Western Australia, to the western side of Cape York Peninsula, Queensland. It is mainly confined to the main channels of large rivers. It is a marine/estuarine species that spends its first three–four years in freshwater growing to about half its adult size (4 m+). Juveniles and sub-adult Freshwater Sawfish predominantly occur in rivers and estuaries, while large mature animals tend to occur more often in coastal and offshore waters up to 25 m depth. The preferred habitat of this species is mud bottoms of river embayments and estuaries, but they are also found well upstream. They are not found near riparian vegetation. They are usually found in turbid channels of large rivers over soft mud bottoms more than 1 m deep, but they will move into shallow waters when travelling upstream or while hunting prey {Department of the Environment and Energy, 2017 #7522} | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Low Unlikely to occur in riverine habitats. |
| Invertebrates | | | | | | |
| <i>Hypochrysops apollo</i> | Apollo Jewel (Wet Tropics Subspecies) | - | V | Shares a mutualistic relationship with Golden Ant (<i>Iridomyrmex cordatus</i>) and Ant Plant (<i>Myrmecodia beccarii</i>), which occur in coastal woodlands between Cooktown and Ingham in Queensland. | Wildlife Online - Hinchinbrook LGA | Low Outside of species known range |

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|----------------------------|------------------|----------|--------|---|---|---|
| Mammals | | | | | | |
| <i>Bettongia tropica</i> | Northern Bettong | E | E | The Northern Bettong currently occurs in three geographically isolated locations: the Lamb Range, Paluma and Mt Zero, Queensland. Mt Windsor Tableland was known to have an existing population as recently as January 1989. However, despite considerable effort no Northern Bettongs have been seen since this time. Its preferred habitat is tall and medium open eucalypt forest with grassy understorey. These habitat types occur as a narrow fragmented strip along the western edge of wet tropical rainforests {Department of the Environment and Energy, 2017 #7533}. | PMST - Charters Towers LGA, Hinchinbrook LGA, Wildlife Online - Charters Towers LGA | Low Outside of species known range |
| <i>Dasyurus hallucatus</i> | Northern Quoll | E | - | The Northern Quoll occupies a diversity of habitats across its range which includes rocky areas, eucalypt forest and woodlands, rainforests, sandy lowlands and beaches, shrubland, grasslands and desert. Northern Quoll are also known to occupy non rocky lowland habitats such as beachscrub communities in central Queensland. Northern Quoll habitat generally encompasses some form of rocky area for denning purposes with surrounding vegetated habitats used for foraging and dispersal. Rocky habitats are usually of high relief, often rugged and dissected but can also include tor fields or caves in low lying areas such as in Western Australia. Eucalypt forest or woodland habitats usually have a high structural diversity containing large diameter trees, termite mounds or hollow logs for denning purposes. Dens are made in rock crevices, tree holes or occasionally termite mounds. Northern Quolls sometimes occur around human dwellings and campgrounds. Northern Quolls appear to be most abundant in habitats within 150 km of the coast {Department of Sustainability Environment Water Population and Communities, 2011 #3587}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | High Likely to occur in forest and woodland habitats supporting rocky areas for denning / breeding. |

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|-------------------------------------|--|----------|--------|---|---|---|
| <i>Dasyurus maculatus gracilis</i> | Spotted-Tailed Quoll (Northern Subspecies) | E | E | The northern subspecies is now thought to be confined to two extant populations: one centered on the Windsor and Carbine Tablelands, Thornton Peak, Mount Finnegan and associated smaller ranges; and the other centered on the Atherton Tablelands and associated mountain ranges. Its habitat is mostly confined to the relatively cool, wet and climatically equable upland closed-forests (mostly above 900 m altitude) that occur in the upper catchments of rivers draining east and west of the Eastern Escarpment in the Wet Tropics bioregion of north-eastern Queensland. It utilises dens for resting and for raising young. Dens have been found in tree hollows, logs, rock crevasses and even among building materials. Maternal dens often have long entrances {Department of the Environment and Energy, 2017 #7534}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in forest to open woodland habitats in elevated areas. |
| <i>Hipposideros diadema reginae</i> | Diadem Leaf-Nosed Bat | - | NT | This subspecies is endemic to Queensland, occurring from Cape York Peninsula south to Townsville and inland to Chillagoe, with records from Iron Range, Hinchinbrook Island, Cape Melville, Chillagoe, Cairns and Coen. It roosts throughout the year in caves and disused mines, preferring those with large chambers, high domed ceilings and multiple entrances. They have also been recorded roosting in buildings and culverts. It occurs in a variety of habitat types including lowland rainforest, Melaleuca forests, eucalypt woodland, deciduous vine thickets, and open woodland; where suitable roosts are available throughout its range. Typical foraging sites are at vegetation edges or gaps adjacent to open space {C.Hourigan, 2011 #7535}. | Wildlife Online - Charters Towers LGA, Etheridge LGA | Moderate Likely to occur in forest and open woodland habitats on landforms that supporting cave roosting sites. |

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|---------------------------------------|-----------------------|----------|--------|---|---|---|
| <i>Hipposideros semoni</i> | Semon's Leafnosed-bat | E | E | Distribution for Semon's Leaf-nosed Bat includes coastal Queensland from Cape York to just south of Cooktown. Semon's Leaf-nosed Bat is found in tropical rainforest, monsoon forest, wet sclerophyll forest and open savannah woodland. This species does not have an obligatory requirement for cave roosts. Daytime roost sites include tree hollows, deserted buildings in rainforest, road culverts and shallow caves amongst granite boulders or in fissures {Department of the Environment and Energy, 2017 #7536}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Moderate May occur in open forest habitats associated with hollow bearing trees and cave roosting sites. |
| <i>Macroderma gigas</i> | Ghost Bat | V | V | Ghost bats occur in a wide range of habitats from rainforest, monsoon and vine scrub, to open woodlands in arid areas. These habitats are used for foraging, while roost habitat is more specific. Favoured roosting sites of the ghost bat are undisturbed caves or mineshafts which have several openings {Department of Environment and Heritage Protection, 2013 #7230}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Moderate Likely to occur in forest and open woodland habitats on landforms that supporting cave roosting sites. |
| <i>Macrotis lagotis</i> | Greater Bilby | V | E | This species is restricted predominantly to the Tanami Desert, Northern Territory, the Great Sandy and Gibson Deserts, Western Australia and an outlying population between Boulia and Birdsville in south-west Queensland. The species occurs in a variety of habitats, usually on landforms with level to low slope topography and light to medium soils. It occupies three major vegetation types; open tussock grassland on uplands and hills, mulga woodland/shrubland growing on ridges and rises, and hummock grassland in plains and alluvial areas{Department of the Environment, 2015 #3988}. | PMST - Charters Towers LGA | High Likely to occur in tussock grassland habitats. |
| <i>Mesembriomys gouldii rattoides</i> | Black-footed Tree-rat | V | - | It has been recorded mostly from eucalypt forests and woodlands (but not rainforests) around Mareeba, but there are records sparsely across Cape York Peninsula. In north Queensland, this species mostly occurs in eucalypt forests and woodlands, especially where hollows are relatively plentiful. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | Low Outside of species known range |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---------------------------------|------------------------------|----------|--------|--|---|---|
| <i>Murina florum</i> | Tube-nosed Insectivorous Bat | - | V | Occurs within the wet tropics, and further north in the Iron Range on Cape York Peninsula. The limits to its distribution in Queensland are not well known. It has been recorded from a range of rainforest types, and from rainforest with emergent <i>Eucalyptus grandis</i> , at altitudes from near sea level to 1200m {Department of Environment and Heritage Protection, 2016 #7547}. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Rainforest habitats not present. |
| <i>Onychogalea fraenata</i> | Bridled Nailtail Wallaby | E | E | The species is recorded in habitats west of the Great Dividing Range in a mixture of tall shrubland and grassy woodland, and on the fertile soils which support open eucalypt forest and woodland, and Brigalow scrub. The species has a preference for scrub edges and adjacent vegetation, grazing and sheltering in the shrubland and grazing the grassy woodland {Strahan, 1995 #185}. | Wildlife Online - Charters Towers LGA | Moderate May occur in open grassy woodland, tussock grassland and woody shrublands. |
| <i>Ornithorhynchus anatinus</i> | Platypus | - | SLC | Inhabits freshwater creeks and occasionally lakes in the coastal ranges of eastern Australia and throughout Tasmania. Largely crepuscular in habits, but may be seen throughout the day. Shelters in burrows dug into stream banks and feeds on aquatic invertebrates. | Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | High Likely to occur in waterways / streams. |
| <i>Petauroides volans</i> | Greater Glider | V | V | The Greater Glider has a restricted distribution in eastern Australia, from the Windsor Tableland in north Queensland to central Victoria, with an elevated range from sea level to 1200m above sea level. The species is largely restricted to eucalypt forests and woodlands, with a diet comprising of eucalypt leaves and occasional flowers. It is found in abundance in montane eucalypt forest with relatively old trees and an abundance of hollows. It also favours forests with a diversity of eucalypts to cater for seasonal variation in food abundance {Department of the Environment, 2015 #7227}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | High Likely to occur in riparian forest and open forest to woodland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---------------------------|------------------------|----------|--------|---|---|---|
| <i>Petaurus gracilis</i> | Mahogany Glider | E | E | Restricted to the coastal southern Wet Tropics region of northern Queensland. They live in a narrow and highly fragmented band of lowland sclerophyll forest extending around 140 km from Toomulla, north of Townsville, to Tully and up to 40 km inland. Most recorded sightings have been at altitudes below 120 m. The main canopy and sub-canopy trees are eucalypts, bloodwoods and paperbarks and less commonly swamp mahogany and turpentine with an open mid-stratum of smaller trees and shrubs (e.g. wattles, forest siris, golden parrot tree, black she-oak, pandanus) and a grassy ground stratum in which grass trees may be present. The mahogany glider requires a relatively open forest structure for efficient gliding and tends to avoid dense vegetation such as rainforest {Department of Environment and Heritage Protection, 2017 #7548}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | High Likely to occur in riparian forest and open forest to woodland habitats. |
| <i>Petrogale sharmani</i> | Sharman's Rock-Wallaby | V | V | Sharman's rock-wallaby has a restricted distribution, centred on the Seaview and Coane Ranges, west of Ingham in north-east Queensland. It inhabits rocky slopes, rocky outcrops, boulder piles, cliff lines and gorges, usually associated with tropical woodland with a grassy understorey {Department of Environment and Heritage Protection, 2015 #7232}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Low Outside of species known range. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--------------------------------|---|----------|--------|--|---|---|
| <i>Phascolarctos cinereus</i> | Koala (NSW, ACT & QLD - excluding SE QLD) | V | V | The Koala has a fragmented distribution throughout eastern Australia from north-east Queensland to the Eyre Peninsula in South Australia. In NSW it mainly occurs on the central and north coasts with some populations in the west of the Great Dividing Range. Inhabits eucalypt woodlands and forests. Koalas Feed on the foliage of more than 70 eucalypt species and 30 non-eucalypt species, but in any one area will select preferred browse species. The preferred tree species vary widely on a regional and local basis. Some preferred species include Forest Red Gum <i>Eucalyptus tereticornis</i> , Grey Gum <i>E. punctata</i> . In coastal areas, Tallowwood <i>E. microcorys</i> and Swamp Mahogany <i>E. robusta</i> are important food species, while in inland areas White Box <i>E. albens</i> , Bimble Box <i>E. populnea</i> and River Red Gum <i>E. camaldulensis</i> are favoured {NSW National Parks and Wildlife Service, 1999 #43; NSW National Parks and Wildlife Service, 2003 #31}{Office of Environment & Heritage, 2015 #7299}. Hawks Nest and Tea Gardens Population and population in the Pittwater LGA listed as Endangered under the NSW TSC Act{Office of Environment & Heritage, 2016 #7300}{Office of Environment & Heritage, 2013 #7301}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA | High Likely to occur in riparian forest and open forest to woodland habitats. Previous records in corridor options. |
| <i>Pteropus conspicillatus</i> | Spectacled Flying-fox | V | V | The Spectacled Flying-fox occurs in north-eastern Queensland, north of Cardwell with past records from Brisbane and Chillagoe. The Spectacled Flying-fox feeds on fruits and blossom, primarily in the canopy vegetation of a wide range of vegetation communities, including closed forest, gallery forest, eucalypt open forest and woodland, Melaleuca thickets, coastal swamps, mangroves, vegetation in urban settings, and commercial fruit crops. It roosts in large camps {Department of the Environment, 2015 #3675}. | PMST - Charters Towers LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA, Hinchinbrook LGA | Moderate May occur in riparian, open forest and woodland habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|-------------------------------|---------------------------|----------|--------|--|--|--|
| <i>Pteropus poliocephalus</i> | Grey-headed Flying-fox | V | - | Occurs in the coastal belt from Rockhampton in central Queensland to Melbourne in Victoria. The species is widespread throughout their range in summer, whilst in autumn it occupies coastal lowlands and is uncommon inland. Occurs in subtropical and temperate rainforests, tall sclerophyll forests and woodlands, heaths and swamps as well as urban gardens and cultivated fruit crops. Roosting camps are generally located within 20 km of a regular food source and are commonly found in gullies, close to water, in vegetation with a dense canopy. Feed on the nectar and pollen of native trees, in particular Eucalyptus, Melaleuca and Banksia, and fruits of rainforest trees and vines {Office of Environment & Heritage, 2015 #7341} {Department of the Environment, 2016 #7342}. | PMST - Hinchinbrook LGA | Low Outside of species known range. |
| <i>Rhinolophus robertsi</i> | Large-eared Horseshoe-bat | E | E | The Greater Large-eared Horseshoe Bat occurs only in northern Queensland, from the Iron Range southwards to Townsville and west to the karst regions of Chillagoe and Mitchell-Palmer. The Greater Large-eared Horseshoe Bat is found in lowland rainforest, along gallery forest-lined creeks within open eucalypt forest, Melaleuca forest with rainforest understorey, open savannah woodland and tall riparian woodland of Melaleuca, Forest Red Gum (<i>E. tereticornis</i>) and Moreton Bay Ash (<i>E. tessellaris</i>). Daytime roosting habitat for the Greater Large-eared Horseshoe Bat includes caves and underground mines located in rainforest, and open eucalypt forest and woodland. Roosts have also been observed in road culverts, and it is suspected that the species uses basal hollows of large trees, dense vegetation, rockpiles and areas beneath creekbanks {Department of the Environment and Energy, 2017 #7524} {Churchill, 2008 #6883}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA | Moderate May occur in open forest habitats associated with hollow bearing trees and cave roosting sites. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|---|-----------------------------|----------|--------|---|---|---|
| <i>Saccolaimus saccolaimus nudiclunatus</i> | Bare-rumped Sheath-tail Bat | CE | E | Known to occur in north-eastern Queensland and the monsoonal tropics of the Northern Territory. In Queensland, it occurs from Ayr to the Iron Range, including Magnetic and possibly Prince of Wales Islands. Most records are near-coastal mostly in eucalypt forests and woodlands. Known to be associated with coastal lowland rainforests, and more open forests dominated by Eucalyptus or Corymbia species interspersed with coastal lowland rainforest {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Hinchinbrook LGA | Low Rainforest habitats not present. |
| <i>Sminthopsis archeri</i> | Chestnut Dunnart | - | NT | This predator was thought to be restricted to southern Papua New Guinea and Cape York, until it was recorded woodlands 200 km west of Townsville. It is found in open woodland to tall open forest and heathlands {Van Dyck and Strahan, 2008}. | Wildlife Online - Etheridge LGA | Moderate May occur in open woodland and tall open forest habitats |
| <i>Sminthopsis douglasi</i> | Julia Creek Dunnart | E | E | Endemic to north-western Queensland, where it occurs in the Mitchell Grass Downs and Desert Uplands bioregions. It is closely associated with tussock grasslands on cracking clay soils, with habitat quality associated particularly with increasing densities of cracks and holes, and with the extent and density of grass cover {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA | Low Outside of species known range. |
| <i>Tachyglossus aculeatus</i> | Short-beaked Echidna | - | SLC | Occurs throughout most terrestrial habitats across mainland Australia and Tasmania, where its favoured ant and termite prey are available. | Wildlife Online - Etheridge LGA, Hinchinbrook LGA | High Likely to occur in all terrestrial habitats. |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|----------------------------|-------------------------|----------|--------|---|------------------------------------|--|
| <i>Taphozous australis</i> | Coastal Sheath-tail-bat | - | V | Occurs along a very narrow coastal zone in Queensland from Shoalwater Bay, through Cape York Peninsula, to Moa Island in the Torres Strait. <i>Taphozous australis</i> also occurs on numerous coastal islands off Queensland throughout its range. Its presence depends on coastal roosts, preferring sea caves and rocky clefts. Also known to roost in disused mines, boulder piles, rock fissures, concrete bunkers, and occasionally in buildings. It forages above the canopy in areas of coastal dune scrubland, melaleuca swamps, open eucalypt forest, grasslands, coastal heathland, monsoon forests, and mangroves on lowlands and foothills {Department of the Environment and Energy, 2017 #7539}. | Wildlife Online - Hinchinbrook LGA | Low Coastal habitats not present |
| <i>Xeromys myoides</i> | False Water-rat | V | V | <p>The only known False Water Rat populations in Australia are in coastal areas of the Northern Territory and Queensland. It is found in coastal wetlands such as lagoons, swamps and sedged lakes close to fore dunes. It forages amongst the mangroves at night when the tide is low, and when the tide rises it returns to the adjacent sedgeland for shelter.</p> <p>The False Water Rat builds large mud nests like termite mounds, up to 60 centimetres high and usually in areas where they can escape the highest of tides. They often use exposed tree roots to form the foundation for the mounds {Australian Government, 2003 #3581}</p> | PMST - Hinchinbrook LGA | Low Coastal habitats not present |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|--------------------------------|--------------------|----------|--------|---|--|--|
| Reptiles | | | | | | |
| <i>Acanthophis antarcticus</i> | Common Death Adder | - | V | <p>The Common Death Adder occurs from the Gulf region of the Northern Territory across to central and eastern Queensland and New South Wales, and through to the southern parts of South Australia and Western Australia. Once abundant in many areas, this species has experienced a dramatic reduction in numbers.</p> <p>Within this range the species is found in a wide variety of habitats in association with deep leaf litter, including rainforests, wet sclerophyll forests, woodland, grasslands, chenopod dominated shrublands, and coastal heathlands {Department of Environment and Resource Management, 2011 #3598}.</p> | Wildlife Online - Charters Towers LGA, Wildlife Online - Etheridge LGA | <p>Moderate</p> <p>May occur in forest and SEVT habitats.</p> |
| <i>Delma mitella</i> | | V | NT | <p>The Atherton Delma is known from the eastern side of the Atherton Tablelands in northeastern Queensland. The Atherton Delma is known only from tall open forests and rainforest interfaces in the Herberton, Ravenshoe and Paluma districts {Australian Government, 2008 #3979}.</p> | Wildlife Online - Charters Towers LGA | <p>Moderate</p> <p>May occur in open forest habitats</p> |
| <i>Denisonia maculata</i> | Ornamental Snake | V | V | <p>The species is known only from the Brigalow Belt North and parts of the Brigalow Belt South biogeographical regions. The core of the species' distribution occurs within the drainage system of the Fitzroy and Dawson Rivers. The Ornamental Snake's preferred habitat is within, or close to, habitat that is favoured by its prey - frogs. The species is known to occur in RE 11.4.3, 11.4.6, 11.4.8, 11.4.9, 11.3.3, and 11.5.16 {Department of the Environment, 2015 #3980}.</p> | PMST - Charters Towers LGA, Etheridge LGA Wildlife Online - Charters Towers LGA | <p>Low</p> <p>Outside of species known range (Brigalow Belt).</p> |

| SCIENTIFIC NAME | COMMON NAME | EPBC ACT | NC ACT | HABITAT | DATA SOURCE | LIKELIHOOD OF OCCURRENCE IN CORRIDOR OPTIONS |
|-------------------------------|---------------------------------|----------|--------|---|--|---|
| <i>Egernia rugosa</i> | Yakka Skink | V | V | The Yakka Skink is commonly found in cavities under and between partly buried rocks, logs or tree stumps, root cavities and abandoned animal burrows. The species often takes refuge in large hollow logs and has been known to excavate deep burrow systems, sometimes under dense ground vegetation. In cleared habitat, this species can persist where there are shelter sites such as raked log piles, deep gullies, tunnel erosion/sinkholes and rabbit warrens. The species has also been found sheltering under sheds and loading ramps. This species is not generally found in trees or rocky habitats {Department of Sustainability Environment Water Population and Communities, 2011 #2273}. | PMST - Charters Towers LGA, Etheridge LGA, Hinchinbrook LGA Wildlife Online - Charters Towers LGA | Moderate May occur in forest to open woodland habitats. |
| <i>Lampropholis mirabilis</i> | - | - | NT | Distributed from Magnetic Island and parts of adjacent mainland, QLD. Found among granitic rocks at the edges of, or in clearings, rain- and monsoon forest, vine thickets and denser woodland habitats {Cogger, 2000 #20}. | Wildlife Online - Charters Towers LGA | Moderate May occur in SEVT. |
| <i>Lerista ameles</i> | - | - | V | Known from one locality 30km east of Mt Surprise, QLD. Inhabits woodland in loose soil beneath rocks on low, weathered granite outcrops {Cogger, 2000 #20}. | Wildlife Online - Etheridge LGA | Low Outside of species known range |
| <i>Lerista cinerea</i> | Vine-thicket Fine-lined Slider | - | V | Occurs in leaf litter and loose soils in vine-thickets and adjacent forests (Greer 1983). | Wildlife Online - Charters Towers LGA | Moderate May occur in SEVT habitats. |
| <i>Lerista hobsoni</i> | Hobson's fine-liner slider | - | V | Found in scattered open forest localities in the Upper Burdekin Drainage Basin. In associated IBRA regions of Brigalow Belt North, Desert Uplands and Einasleigh Uplands. | Wildlife Online - Charters Towers LGA | Moderate May occur in open forest habitats. |
| <i>Lerista vanderduysi</i> | Leaden-bellied fine-line slider | V | V | Typically found in semi-evergreen vine thickets. | Wildlife Online - Etheridge LGA | Moderate May occur in SEVT habitats. |

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|---|------------------------|----------|--------|--|--|--|
| <i>Lerista vittata</i> | - | V | V | <i>Lerista vittata</i> was first described at Mount Cooper Station, approximately 80 km south-east of Charters Towers, Queensland. It has since been discovered 100–200 km NNW of Hughenden on the Chudleigh Plateau, though populations are fragmented and appear to be distinctively different. The species is found in Semi-evergreen Vine Thickets of the Brigalow Belt (North and South) and Nandewar Bioregions, an ecological community listed under the Environment Protection and Biodiversity Conservation Act 1999 as Endangered. It is also found more broadly, in spinifex communities as well as eucalyptus dominated woodlands with well-developed grassy understories {Department of the Environment, 2015 #3978}. | PMST - Charters Towers LGA, Etheridge LGA Wildlife Online - Charters Towers LGA | Moderate May occur in SEVT habitats. |
| <i>Lygisaurus rococo</i> (syn. <i>Carlia rococo</i>) | Chillagoe litter-skink | - | NT | Currently known only from limestone rock outcrops near Chillagoe, north-east QLD. Found amongst ground litter which has accumulated between rock outcrops {Cogger, 2000 #20}. | Wildlife Online - Etheridge LGA | Low Outside of species known range |
| <i>Phyllurus gulbaru</i> | Gulbaru Gecko | - | E | Has a very restricted distribution in Queensland, found in rocky slopes and gullies in rainforest habitat. The species is located near a UNESCO World Heritage site. The Gulbaru gecko was discovered in 2001. The species has only been found at three sites despite extensive survey {Department of the Environment and Energy, 2017 #7539}. | PMST - Charters Towers LGA | Low Outside of species known range |

Key: CE = Critically Endangered, E = Endangered, V= Vulnerable, NT = Near Threatened, M = Migratory, SLC = Special Least Concern

