



CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 7231/4
Permit Holder:	Commissioner of Main Roads Western Australia
Duration of Permit:	From 20 November 2017 to 20 November 2027

The Permit Holder is authorised to clear native vegetation subject to the following conditions of this Permit.

1. Purpose for which clearing may be done

Clearing for the purpose of road construction and upgrades including associated activities.

2. Land on which clearing is to be done

PART LOT 1904 ON PLAN 228281, DALWALLINU
LOT M626 ON PLAN 3041, BINDI BINDI
LOT M624 ON PLAN 3041, BINDI BINDI
LOT M624 ON PLAN 3041, WALEBING
LOT M412 ON PLAN 3015, WALEBING
LOT M393 ON PLAN 3017, WALEBING
LOT M2136 ON DIAGRAM 24508, MILING
LOT M1560 ON DIAGRAM 7031, MILING
LOT M1488 ON DIAGRAM 6650, MILING
LOT M1487 ON DIAGRAM 6649, MILING
LOT M1330 ON PLAN 3041, BINDI BINDI
LOT M1146 ON DIAGRAM 4967, MILING
LOT 9 ON PLAN 7367, MILING
LOT 9889 ON PLAN 208166, NUGADONG
LOT 9888 ON PLAN 208166, NUGADONG
LOT 9888 ON PLAN 208166, WUBIN
LOT 97 ON PLAN 219806, WUBIN
LOT 9776 ON PLAN 28338, NUGADONG
LOT 95 ON PLAN 201951, PITHARA
LOT 94 ON PLAN 191900, WUBIN
LOT 92 ON PLAN 202010, WUBIN
LOT 91 ON PLAN 142808, WUBIN
LOT 9002 ON PLAN 76386, DALWALLINU
LOT 9001 ON PLAN 72299, MILING
LOT 8 ON PLAN 7367, MILING
LOT 8 ON PLAN 229929, PITHARA
LOT 86 ON PLAN 184816, WUBIN
LOT 85 ON PLAN 4936, MILING
LOT 85 ON PLAN 184815, WUBIN
LOT 848 ON PLAN 58553, WALEBING
LOT 847 ON PLAN 58553, WALEBING
LOT 846 ON PLAN 58554, WALEBING
LOT 845 ON PLAN 58554, WALEBING

LOT 844 ON PLAN 58554, WALEBING
LOT 843 ON PLAN 58554, WALEBING
LOT 842 ON PLAN 58554, WALEBING
LOT 841 ON PLAN 58554, WALEBING
LOT 840 ON PLAN 58577, WALEBING
LOT 839 ON PLAN 58577, WALEBING
LOT 835 ON PLAN 58552, WALEBING
LOT 834 ON PLAN 58552, WALEBING
LOT 833 ON PLAN 58551, WALEBING
LOT 832 ON PLAN 58551, WALEBING
LOT 831 ON PLAN 58551, WALEBING
LOT 830 ON PLAN 58551, WALEBING
LOT 829 ON PLAN 58550, BINDI BINDI
LOT 828 ON PLAN 58550, BINDI BINDI
LOT 827 ON PLAN 58550, BINDI BINDI
LOT 826 ON PLAN 58550, BINDI BINDI
LOT 825 ON PLAN 58549, BINDI BINDI
LOT 824 ON PLAN 58549, BINDI BINDI
LOT 823 ON PLAN 58546, BINDI BINDI
LOT 822 ON PLAN 58546, BINDI BINDI
LOT 821 ON PLAN 58547, BINDI BINDI
LOT 820 ON PLAN 58547, BINDI BINDI
LOT 811 ON PLAN 73300, DALWALLINU
LOT 80 ON PLAN 33218, MILING
LOT 803 ON PLAN 58548, WALEBING
LOT 802 ON PLAN 58548, WALEBING
LOT 801 ON PLAN 73300, DALWALLINU
LOT 801 ON PLAN 58548, WALEBING
LOT 800 ON PLAN 58548, WALEBING
LOT 7 ON PLAN 7367, MILING
LOT 7 ON PLAN 229929, PITHARA
LOT 7827 ON PLAN 150499, WUBIN
LOT 7707 ON PLAN 148396, WUBIN
LOT 7706 ON PLAN 148396, NUGADONG
LOT 70 ON PLAN 142810, WUBIN
LOT 6 ON PLAN 7367, MILING
LOT 6 ON PLAN 229929, PITHARA
LOT 69 ON PLAN 142810, WUBIN
LOT 65 ON PLAN 136032, WUBIN
LOT 64 ON PLAN 136031, WUBIN
LOT 616 ON PLAN 24599, DALWALLINU
LOT 607 ON PLAN 221059, DALWALLINU
LOT 603 ON PLAN 221059, DALWALLINU
LOT 602 ON PLAN 221059, DALWALLINU
LOT 601 ON PLAN 221059, DALWALLINU
LOT 5 ON PLAN 7367, MILING
LOT 5 ON PLAN 47978, DALWALLINU
LOT 5 ON PLAN 229929, PITHARA
LOT 5 ON PLAN 14334, WALEBING
LOT 599 ON PLAN 194975, DALWALLINU
LOT 598 ON PLAN 194974, DALWALLINU
LOT 597 ON PLAN 194974, DALWALLINU
LOT 594 ON PLAN 220542, DALWALLINU
LOT 563 ON PLAN 182912, DALWALLINU
LOT 562 ON PLAN 182912, DALWALLINU
LOT 55 ON DIAGRAM 63363, WALEBING
LOT 54 ON PLAN 232215, WUBIN

LOT 534 ON PLAN 247895, WALEBING
LOT 51 ON PLAN 229919, WUBIN
LOT 51 ON DIAGRAM 98174, DALWALLINU
LOT 512 ON PLAN 400056, BINDI BINDI
LOT 50 ON PLAN 69362, PITHARA
LOT 50 ON PLAN 232215, WUBIN
LOT 50 ON PLAN 229919, WUBIN
LOT 508 ON PLAN 400053, BINDI BINDI
LOT 502 ON PLAN 401294, WALEBING
LOT 502 ON PLAN 400051, MILING
LOT 501 ON PLAN 77608, WUBIN
LOT 501 ON PLAN 58637, WUBIN
LOT 500 ON PLAN 77608, WUBIN
LOT 500 ON PLAN 58637, WUBIN
LOT 500 ON PLAN 401293, WALEBING
LOT 500 ON PLAN 400049, MILING
LOT 500 ON PLAN 3989, WUBIN
LOT 4 ON PLAN 7367, MILING
LOT 4 ON DIAGRAM 28767, MILING
LOT 49 ON PLAN 232215, WUBIN
LOT 49 ON PLAN 229919, WUBIN
LOT 4310 ON PLAN 32955, WALEBING
LOT 4309 ON PLAN 32955, WALEBING
LOT 4248 ON PLAN 194903, MARNE
LOT 4247 ON PLAN 194903, PITHARA
LOT 4159 ON DIAGRAM 9954, MILING
LOT 3 ON PLAN 9461, MARNE
LOT 3 ON PLAN 7367, MILING
LOT 3 ON PLAN 229929, PITHARA
LOT 3 ON DIAGRAM 28767, MILING
LOT 39 ON PLAN 91958, NUGADONG
LOT 39 ON PLAN 229929, PITHARA
LOT 397 ON PLAN 172714, DALWALLINU
LOT 3954 ON PLAN 175371, MILING
LOT 394 ON PLAN 170882, DALWALLINU
LOT 38 ON PLAN 229929, PITHARA
LOT 3848 ON PLAN 4938, MILING
LOT 37 ON PLAN 229929, PITHARA
LOT 36 ON PLAN 229929, PITHARA
LOT 3695 ON PLAN 254434, WALEBING
LOT 3655 ON PLAN 142427, WUBIN
LOT 35 ON PLAN 229929, PITHARA
LOT 351 ON PLAN 302626, MILING
LOT 34 ON PLAN 23866, WALEBING
LOT 34 ON PLAN 229929, PITHARA
LOT 33 ON PLAN 23866, WALEBING
LOT 33 ON PLAN 229929, PITHARA
LOT 3328 ON PLAN 228282, DALWALLINU
LOT 31 ON PLAN 23866, WALEBING
LOT 30 ON PLAN 43661, DALWALLINU
LOT 301 ON PLAN 300375, PITHARA
LOT 301 ON PLAN 194974, DALWALLINU
LOT 300 ON PLAN 300375, PITHARA
LOT 300 ON PLAN 194974, DALWALLINU
LOT 2 ON PLAN 9461, PITHARA
LOT 2 ON PLAN 7367, MILING
LOT 2 ON PLAN 26251, MARNE

LOT 2 ON PLAN 229929, PITHARA
LOT 2 ON DIAGRAM 63363, WALEBING
LOT 2 ON DIAGRAM 14975, MILING
LOT 29 ON PLAN 43661, DALWALLINU
LOT 2725 ON PLAN 87387, MARNE
LOT 2706 ON PLAN 88314, PITHARA
LOT 269 ON PLAN 209477, DALWALLINU
LOT 2690 ON PLAN 229801, PITHARA
LOT 2509 ON PLAN 228280, DALWALLINU
LOT 24 ON PLAN 229929, PITHARA
LOT 23 ON PLAN 229929, PITHARA
LOT 2321 ON PLAN 228280, NUGADONG
LOT 22 ON PLAN 229929, PITHARA
LOT 21 ON PLAN 229929, PITHARA
LOT 2053 ON PLAN 228280, NUGADONG
LOT 204 ON PLAN 400053, BINDI BINDI
LOT 202 ON PLAN 400051, MILING
LOT 200 ON PLAN 400049, MILING
LOT 1 ON PLAN 9461, PITHARA
LOT 1 ON PLAN 229929, PITHARA
LOT 1 ON DIAGRAM 79610, MILING
LOT 1 ON DIAGRAM 27737, WALEBING
LOT 1 ON DIAGRAM 14204, MILING
LOT 19 ON PLAN 229929, PITHARA
LOT 1979 ON PLAN 142042, NUGADONG
LOT 1925 ON PLAN 228283, PITHARA
LOT 1911 ON PLAN 228282, DALWALLINU
LOT 1907 ON PLAN 228281, DALWALLINU
LOT 18 ON PLAN 229929, PITHARA
LOT 1894 ON PLAN 228280, NUGADONG
LOT 1889 ON PLAN 228280, NUGADONG
LOT 1885 ON PLAN 228281, DALWALLINU
LOT 1884 ON PLAN 228280, DALWALLINU
LOT 17 ON PLAN 85707, PITHARA
LOT 17 ON PLAN 229919, WUBIN
LOT 17 ON DIAGRAM 38157, MILING
LOT 178 ON PLAN 209477, DALWALLINU
LOT 16 ON PLAN 229919, WUBIN
LOT 1694 ON PLAN 131632, WALEBING
LOT 1543 ON PLAN 127481, PITHARA
LOT 1541 ON PLAN 228234, MARNE
LOT 1541 ON PLAN 228234, PITHARA
LOT 13 ON PLAN 229919, WUBIN
LOT 12 ON PLAN 229919, WUBIN
LOT 1286 ON PLAN 127501, PITHARA
LOT 1284 ON PLAN 127610, PITHARA
LOT 1283 ON PLAN 127500, DALWALLINU
LOT 11 ON PLAN 229919, WUBIN
LOT 114 ON PLAN 229929, PITHARA
LOT 110 ON PLAN 229929, PITHARA
LOT 10 ON PLAN 229919, WUBIN
LOT 107 ON PLAN 148398, WUBIN
LOT 1079 ON PLAN 148312, PITHARA
LOT 106 ON PLAN 184154, PITHARA
LOT 1050 ON PLAN 202006, PITHARA
LOT 104 ON PLAN 69362, PITHARA
LOT 1035 ON PLAN 201951, PITHARA

LOT 102 ON PLAN 73304, MILING
LOT 102 ON PLAN 29447, PITHARA
LOT 102 ON PLAN 184154, PITHARA
LOT 101 ON PLAN 73304, MILING
LOT 100 ON DIAGRAM 9973, MILING
MELBOURNE LOCATION 3847, MILING
ROAD RESERVE - 11706850, NUGADONG
RAILWAY RESERVE, PITHARA
ROAD RESERVE - 11706856, PITHARA
ROAD RESERVE - 11715595, PITHARA
ROAD RESERVE - 1258360, PITHARA
ROAD RESERVE - 11288337, DALWALLINU
ROAD RESERVE - 11409752, DALWALLINU
ROAD RESERVE - 11409751, DALWALLINU
ROAD RESERVE - 11409750, DALWALLINU
ROAD RESERVE - 11288326, PITHARA
ROAD RESERVE - 11288323, PITHARA
ROAD RESERVE - 11424552, PITHARA
ROAD RESERVE - 11288324, PITHARA
ROAD RESERVE - 1258358, PITHARA
ROAD RESERVE - 1258361, PITHARA
ROAD RESERVE - 1258365, DALWALLINU
ROAD RESERVE - 11715593, DALWALLINU
ROAD RESERVE - 11715590, DALWALLINU
ROAD RESERVE - 11288327, DALWALLINU
RAILWAY RESERVE, DALWALLINU
ROAD RESERVE - 1258350, DALWALLINU
ROAD RESERVE - 1258366, DALWALLINU
ROAD RESERVE - 11288328, DALWALLINU
ROAD RESERVE - 1258364, DALWALLINU
CLOSED ROAD, DALWALLINU
ROAD RESERVE - 11288340, NUGADONG
ROAD RESERVE - 11708951, PITHARA
ROAD RESERVE - 11288338, DALWALLINU
ROAD RESERVE - 11424547, PITHARA
ROAD RESERVE - 11288339, NUGADONG
ROAD RESERVE - 11424551, PITHARA
ROAD RESERVE - 11288336, DALWALLINU
ROAD RESERVE - 11424546, PITHARA
ROAD RESERVE - 11409779, DALWALLINU
ROAD RESERVE - 11708956, PITHARA
ROAD RESERVE - 11409781, DALWALLINU
ROAD RESERVE - 11409782, DALWALLINU
ROAD RESERVE - 11424539, PITHARA
ROAD RESERVE - 1338697, DALWALLINU
ROAD RESERVE - 11288334, DALWALLINU
ROAD RESERVE - 11409784, DALWALLINU
ROAD RESERVE - 11288335, DALWALLINU
ROAD RESERVE - 11431344, DALWALLINU
ROAD RESERVE - 11409753, DALWALLINU
ROAD RESERVE - 11409797, DALWALLINU
ROAD RESERVE - 11409796, DALWALLINU
ROAD RESERVE - 11409783, DALWALLINU
ROAD RESERVE - 11431338, DALWALLINU
ROAD RESERVE - 11409785, DALWALLINU
ROAD RESERVE - 11409798, DALWALLINU
ROAD RESERVE - 11409790, DALWALLINU

ROAD RESERVE - 11409769, DALWALLINU
ROAD RESERVE - 11409799, DALWALLINU
ROAD RESERVE - 1337864, DALWALLINU
ROAD RESERVE - 1181667, DALWALLINU
ROAD RESERVE - 11288332, DALWALLINU
ROAD RESERVE - 1337868, DALWALLINU
ROAD RESERVE - 11288329, DALWALLINU
ROAD RESERVE - 11409775, DALWALLINU
ROAD RESERVE - 11431334, DALWALLINU
ROAD RESERVE - 11431337, DALWALLINU
ROAD RESERVE - 11409774, DALWALLINU
ROAD RESERVE - 11288341, NUGADONG
ROAD RESERVE - 11409772, DALWALLINU
ROAD RESERVE - 11728871, NUGADONG
ROAD RESERVE - 11706965, WUBIN
UNALLOCATED CROWN LAND, DALWALLINU
RAILWAY RESERVE, NUGADONG
ROAD RESERVE - 11288342, NUGADONG
ROAD RESERVE - 11424550, PITHARA
ROAD RESERVE - 11450435, NUGADONG
ROAD RESERVE - 11450425, NUGADONG
ROAD RESERVE - 11450426, NUGADONG
ROAD RESERVE - 11263840, PITHARA
ROAD RESERVE - 11709537, PITHARA
ROAD RESERVE - 11706792, WUBIN
ROAD RESERVE - 11288343, WUBIN
ROAD RESERVE - 11707298, NUGADONG
RAILWAY RESERVE, WUBIN
ROAD RESERVE - 11708955, PITHARA
ROAD RESERVE - 11704726, WUBIN
ROAD RESERVE - 11288321, WUBIN
ROAD RESERVE - 11706785, WUBIN
ROAD RESERVE - 11707297, WUBIN
UNALLOCATED CROWN LAND, WUBIN
ROAD RESERVE - 1239270, WUBIN
ROAD RESERVE - 11288344, WUBIN
ROAD RESERVE - 11288361, WUBIN
ROAD RESERVE - 11467620, WUBIN
ROAD RESERVE - 11288358, WUBIN
ROAD RESERVE - 11288357, WUBIN
ROAD RESERVE - 11288345, WUBIN
ROAD RESERVE - 11706786, WUBIN
ROAD RESERVE - 11288362, WUBIN
ROAD RESERVE - 11706794, WUBIN
ROAD RESERVE - 11707286, DALWALLINU
ROAD RESERVE - 11708954, PITHARA
ROAD RESERVE - 11410060, PITHARA
ROAD RESERVE - 11410061, PITHARA
ROAD RESERVE - 11707228, PITHARA
ROAD RESERVE - 11707279, PITHARA
ROAD RESERVE - 11707268, MILING
ROAD RESERVE - 11708118, MILING
ROAD RESERVE - 11290858, MILING
ROAD RESERVE - 11708558, MILING
ROAD RESERVE - 11290856, MILING
ROAD RESERVE - 11453284, MILING
ROAD RESERVE - 11290852, MILING

ROAD RESERVE - 11290851, MILING
ROAD RESERVE - 11290882, BINDI BINDI
ROAD RESERVE - 11290892, BINDI BINDI
ROAD RESERVE - 11676150, MILING
ROAD RESERVE - 11290867, MILING
ROAD RESERVE - 11290860, MILING
ROAD RESERVE - 11290865, MILING
ROAD RESERVE - 11290863, MILING
ROAD RESERVE - 11719792, BINDI BINDI
ROAD RESERVE - 11290891, BINDI BINDI
ROAD RESERVE - 11290883, BINDI BINDI
ROAD RESERVE - 11290864, MILING
ROAD RESERVE - 11290868, MILING
ROAD RESERVE - 11290890, BINDI BINDI
ROAD RESERVE - 1170982, BINDI BINDI
ROAD RESERVE - 11290884, BINDI BINDI
ROAD RESERVE - 11290885, WALEBING
ROAD RESERVE - 11290886, WALEBING
ROAD RESERVE - 11290887, WALEBING
ROAD RESERVE - 11296194, WALEBING
ROAD RESERVE - 11296193, WALEBING
ROAD RESERVE - 11296196, WALEBING
ROAD RESERVE - 11296195, WALEBING
ROAD RESERVE - 11296192, WALEBING
ROAD RESERVE - 11296197, WALEBING
ROAD RESERVE - 11275855, WALEBING
ROAD RESERVE - 11275847, WALEBING
ROAD RESERVE - 11275844, WALEBING
ROAD RESERVE - 11275848, WALEBING
ROAD RESERVE - 11275846, WALEBING
ROAD RESERVE - 11275857, WALEBING
ROAD RESERVE - 1319072, WALEBING
ROAD RESERVE - 11296191, WALEBING
ROAD RESERVE - 11275856, WALEBING
ROAD RESERVE - 11296189, WALEBING
ROAD RESERVE - 11275850, WALEBING
ROAD RESERVE - 11275851, WALEBING
ROAD RESERVE - 11275852, WALEBING
ROAD RESERVE - 11296190, WALEBING
ROAD RESERVE - 11428664, WALEBING

3. Area of clearing

- (a) The Permit Holder must not clear more than 68.5 hectares of native vegetation within the combined areas cross-hatched yellow on attached Plan 7231/4a, Plan 7231/4b, Plan 7231/4c, Plan 7231/4d, Plan 7231/4e, Plan 7231/4f, Plan 7231/4g, Plan 7231/4h and Plan 7231/4i.
- (b) The clearing of 68.5 hectares of native vegetation must not include more than:
- (i) 30 hectares of Carnaby's cockatoo (*Calyptorhynchus latirostris*) habitat being the native vegetation mapped as Carnaby's cockatoo habitat in a shapefile provided to the Department on 8 September 2017; and
 - (ii) 15 hectares of the Eucalypt Woodlands of the Western Australian Wheatbelt threatened ecological community being the native vegetation mapped as the community in a shapefile provided to the Department on 30 May 2017.

4. Period within which clearing is authorised

The Permit Holder shall not clear any native vegetation after 30 June 2022.

5. Application

This Permit allows the Permit Holder to authorise persons, including employees, contractors and agents of the Permit Holder, to clear native vegetation for the purposes of this Permit subject to compliance with the conditions of this Permit and approval from the Permit Holder.

6. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation for the activities described in condition 1 of this Permit to the extent that the Permit Holder has the power to carry out works involving clearing for those activities under the *Main Roads Act 1930* or any other written law.

7. Weed management

When undertaking any clearing authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds*:

- (a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the combined areas cross-hatched yellow on attached Plan 7231/4a, Plan 7231/4b, Plan 7231/4c, Plan 7231/4d, Plan 7231/4e, Plan 7231/4f, Plan 7231/4g, Plan 7231/4h and Plan 7231/4i;
- (b) clean earth-moving machinery of soil and vegetation prior to entering within 50 metres of Nugadong Nature Reserve;
- (c) clean earth-moving machinery of soil and vegetation prior to entering within 50 metres of Crown Reserve 15867;
- (d) ensure that no *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
- (e) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

8. Flora management

- (a) Prior to undertaking any clearing of Population 3 of *Eremophila pinnatifida*, the Permit Holder must:
 - (i) obtain approval of a translocation site for salvaged topsoil from the Department of Biodiversity, Conservation and Attractions; and
 - (ii) provide to the *CEO* the size and location of the approved translocation site recorded as a shapefile consisting of polygons using the Geocentric Datum Australia 1994 (GDA94) coordinate system
- (b) When undertaking clearing of Population 3 of *Eremophila pinnatifida*, the Permit Holder must salvage the topsoil and translocate it to the approved translocation site.
- (c) Post-translocation of Population 3 of *Eremophila pinnatifida*, the Permit Holder must monitor both the translocation site and the original site of Population 3 to record:
 - (i) the number of any germinants of *Eremophila pinnatifida*;
 - (ii) the location of each germinant of *Eremophila pinnatifida* recorded using a GPS unit set to GDA94, expressing the geographical coordinates in Eastings and Northings or decimal degrees;
 - (iii) the health of each germinant of *Eremophila pinnatifida*;
 - (iv) the extent of *weed* cover within 50 metres of each germinant of *Eremophila pinnatifida* recorded as a percentage;
 - (v) any threats to the survival of each germinant of *Eremophila pinnatifida*; and
 - (vi) a photo of each germinant of *Eremophila pinnatifida*.
- (d) The monitoring required by condition 8(c) must be undertaken on a biannual basis for a period of at least five years.
- (e) The Permit Holder must remove or kill any *weeds* growing at both the translocation site and the original site of Population 3 of *Eremophila pinnatifida* on a biannual basis for a period of at least five years post translocation. A permit to take threatened flora pursuant to section 40 of the *Biodiversity Conservation Act 2016* must be obtained with the specific purpose of undertaking weed control, before any weed control activities using herbicides occurs at these sites.

- (f) Any *weed* control undertaken to meet the requirements of condition 8(e) must not include the use of any herbicide that would likely inhibit the germination of *Eremophila pinnatifida*.

9. Offset – Black Cockatoos

The Permit Holder must fund the purchase of the area cross-hatched red on attached Plan 7231/4j for inclusion in the conservation estate managed by the Department of Biodiversity, Conservation and Attractions.

10. Offset – Threatened Ecological Community and Significant Vegetation in an Extensively Cleared Landscape

- (a) The Permit Holder must fund the purchase of 217.49 ha of the area cross-hatched red on attached plan 7231/4k to be ceded to the Department of Biodiversity, Conservation and Attractions for conservation; and
- (b) The Permit Holder shall provide documentary evidence to the *CEO* that the area cross-hatched red on attached Plan 7231/4k has been ceded to the Department of Biodiversity, Conservation and Attractions within six months of executing the land transfer.

11. Record keeping

The Permit Holder must maintain the following records:

- (a) In relation to clearing:
 - (i) the date that clearing commenced;
 - (ii) the size and location where clearing of Carnaby's cockatoo habitat occurred recorded as a shapefile consisting of polygons using the GDA94 coordinate system;
 - (iii) the size and location where clearing of the Eucalypt Woodlands of the Western Australian Wheatbelt threatened ecological community occurred recorded as a shapefile consisting of polygons using the GDA94 coordinate system;
 - (iv) the date that clearing of Population 3 of *Eremophila pinnatifida* occurred;
 - (v) the size and location where topsoil was removed from Population 3 of *Eremophila pinnatifida* recorded as a shapefile consisting of polygons using the GDA94 coordinate system; and
 - (vi) the date that Population 3 of *Eremophila pinnatifida* was translocated.
- (b) In relation to condition 8:
 - (i) A report documenting the information recorded by each monitoring event as required by conditions 8(c) and 8(d); and
 - (ii) A report documenting the methods and results of each *weed* control event as required by conditions 8(e) and 8(f).

12. Reporting

- (a) The Permit Holder must provide to the *CEO* on or before 30 June of each year, a written report:
 - (i) of records required under condition 11 of this Permit; and
 - (ii) concerning activities done by the Permit Holder under this Permit between 1 January to 31 December of the preceding calendar year.
- (b) If no clearing authorised under this Permit has been undertaken, a written report confirming that no clearing under this Permit has been undertaken, must be provided to the *CEO* on or before 30 June of each year.
- (c) Prior to 20 August 2027, the Permit Holder must provide to the *CEO* a written report of records required under condition 11 of this Permit where these records have not already been provided under condition 12(a) of this Permit.
- (d) On or before 30 June of each year post-translocation of Population 3 of *Eremophila pinnatifida*, the Permit Holder must provide to the Species and Communities Branch of the Department of Biodiversity, Conservation and Attractions a written report of records required under condition 11(b) of this Permit.

DEFINITIONS

The following meanings are given to terms used in this Permit:


CEO means the Chief Executive Officer of the Department responsible for the administration of the clearing provisions under the *Environmental Protection Act 1986*;

fill means material used to increase the ground level, or fill a hollow;

mulch means the use of organic matter, wood chips or rocks to slow the movement of water across the soil surface and to reduce evaporation; and

weed/s means any plant -

- (a) that is a declared pest under section 22 of the *Biosecurity and Agriculture Management Act 2007*; or
- (b) published in a Department of Biodiversity, Conservation and Attractions species-led ecological impact and invasiveness ranking summary, regardless of ranking; or
- (c) not indigenous to the area concerned.

 Ryan Mincham
2020.10.16
11:11:34
+08'00'

Ryan Mincham
MANAGER
NATIVE VEGETATION REGULATION

Officer delegated under section 20
of the *Environmental Protection Act 1986*

16 October 2020

Plan 7231/4a

116°12'0.000"E

116°15'0.000"E

30°39'0.000"S

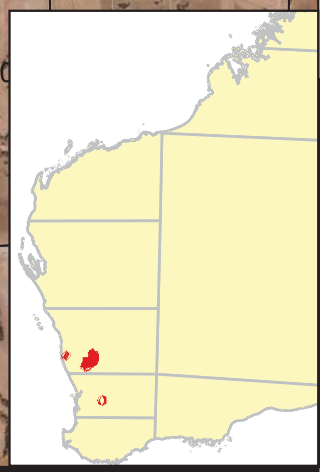
30°39'0.000"S

30°42'0.000"S







30°42'0.000"S

116°12'0.000"E

116°15'0.000"E



Legend

-  CPS areas approved to clear
-  Land Tenure LGATE - 226
-  Local Government Authorities
- Road Centrelines
 -  Highway
 -  Main Roads
 -  Local Rd - Sealed
 -  Local Rd - Other
 -  No Classification



1:46774

MGA Zone 50
Geocentric Datum of Australia 1994

R. Mincham
Ryan Mincham
2020.10.16
10:40:21
+08'00'

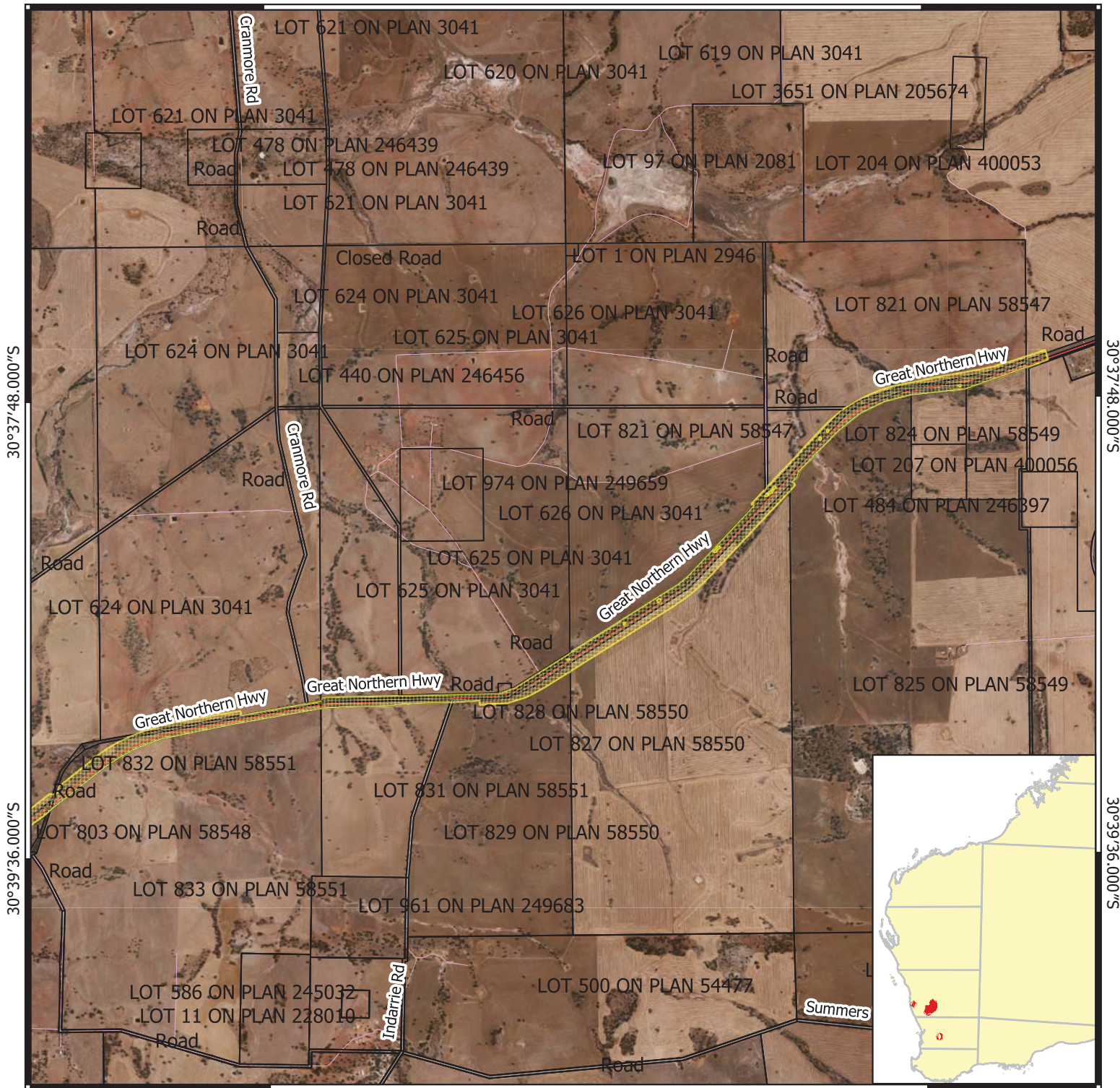
Officer delegated under section 20 of the
Environmental Protection Act 1986



Plan 7231/4b

116°18'0.000"E







116°21'0.000"E



116°18'0.000"E

116°21'0.000"E

Legend

-  CPS areas approved to clear
-  Land TenureLGATE - 226
-  Local Government Authorities
- Road Centrelines
-  Highway
-  Local Rd - Other
-  No Classification




0 500 1000 1500 2000 m



1:39727

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
2020.10.16
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+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986



Plan 7231/4c

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116°22'12.000"E

30°28'48.000"S

30°28'48.000"S

30°30'36.000"S

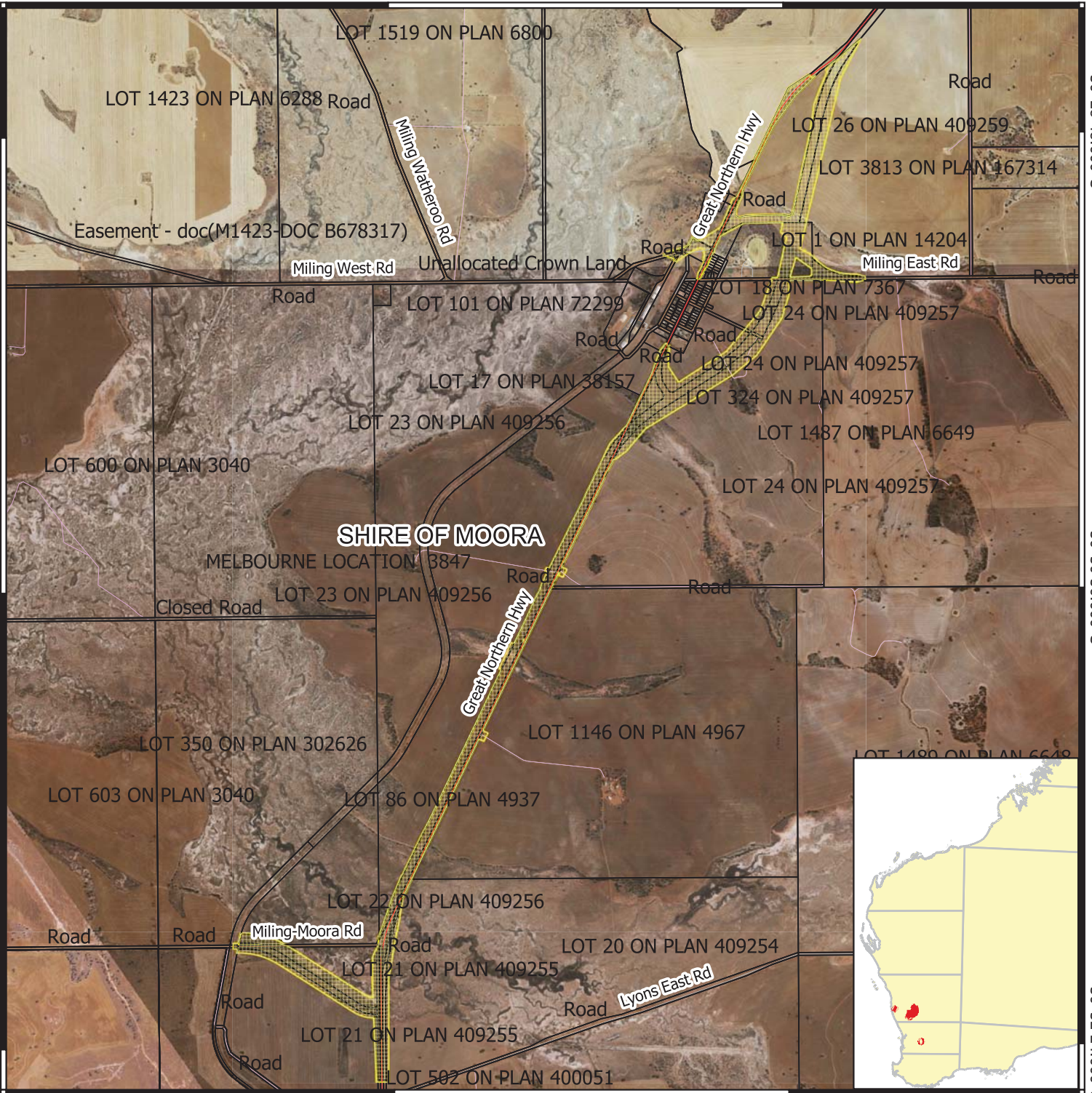
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30°32'24.000"S








30°32'24.000"S

116°20'24.000"E

116°22'12.000"E



Legend

-  CPS areas approved to clear
-  Land Tenure LGATE - 226
-  Local Government Authorities
- Road Centrelines
 -  Highway
 -  Local Rd - Sealed
 -  Local Rd - Other
 -  No Classification




0 500 1000 1500 2000 m



1:40081

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
2020.10.16
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Officer delegated under section 20 of the
Environmental Protection Act 1986

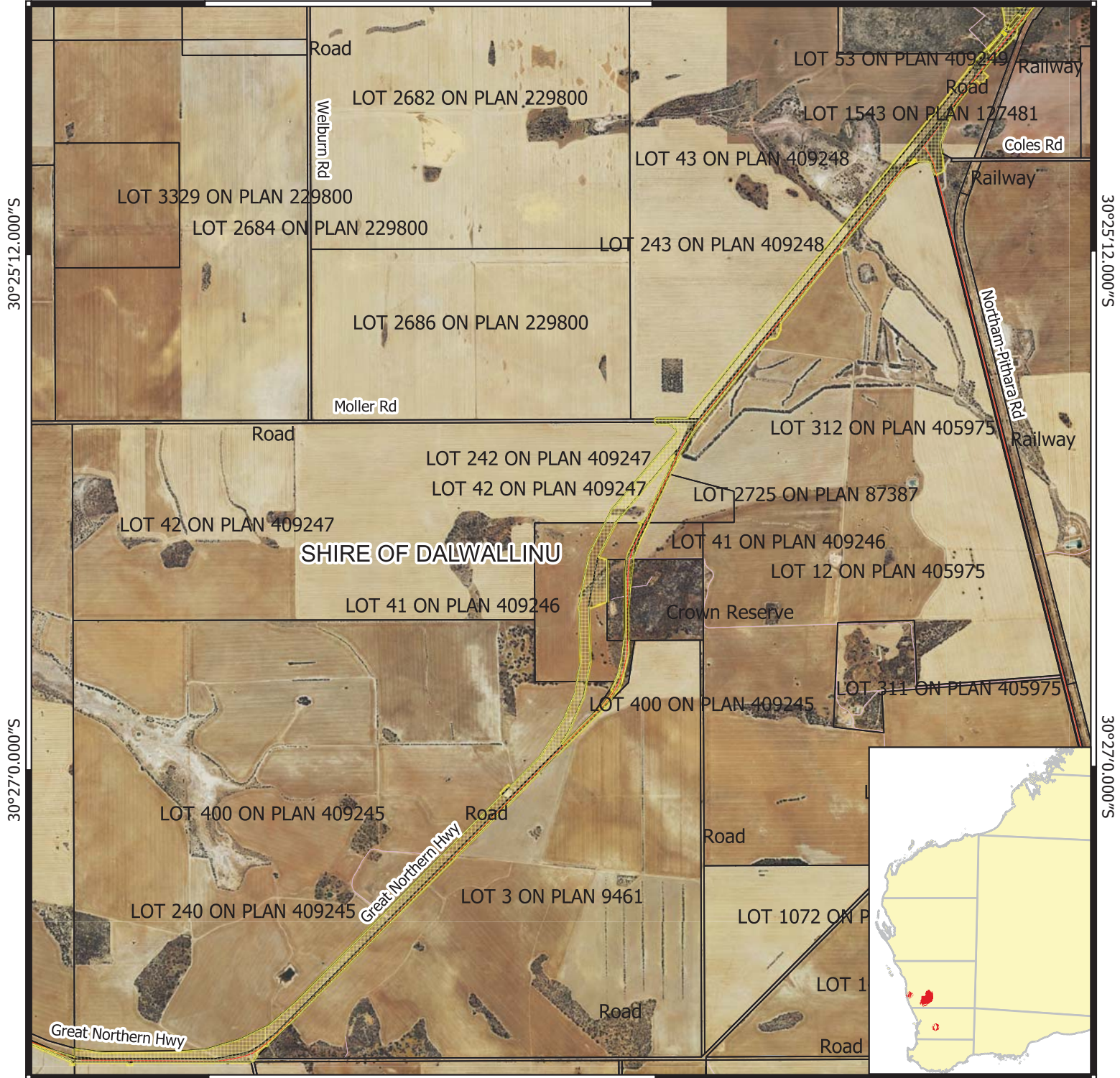


GOVERNMENT OF
WESTERN AUSTRALIA

Plan 7231/4d

116°36'36.000"E








116°38'24.000"E



116°36'36.000"E

116°38'24.000"E

Legend

-  CPS areas approved to clear
-  Land TenureLGATE - 226
-  Local Government Authorities
- Road Centrelines
 -  Highway
 -  Main Roads
 -  Local Rd - Other
 -  No Classification




0 500 1000 1500 2000 m



1:34975

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
2020.10.16
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+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986

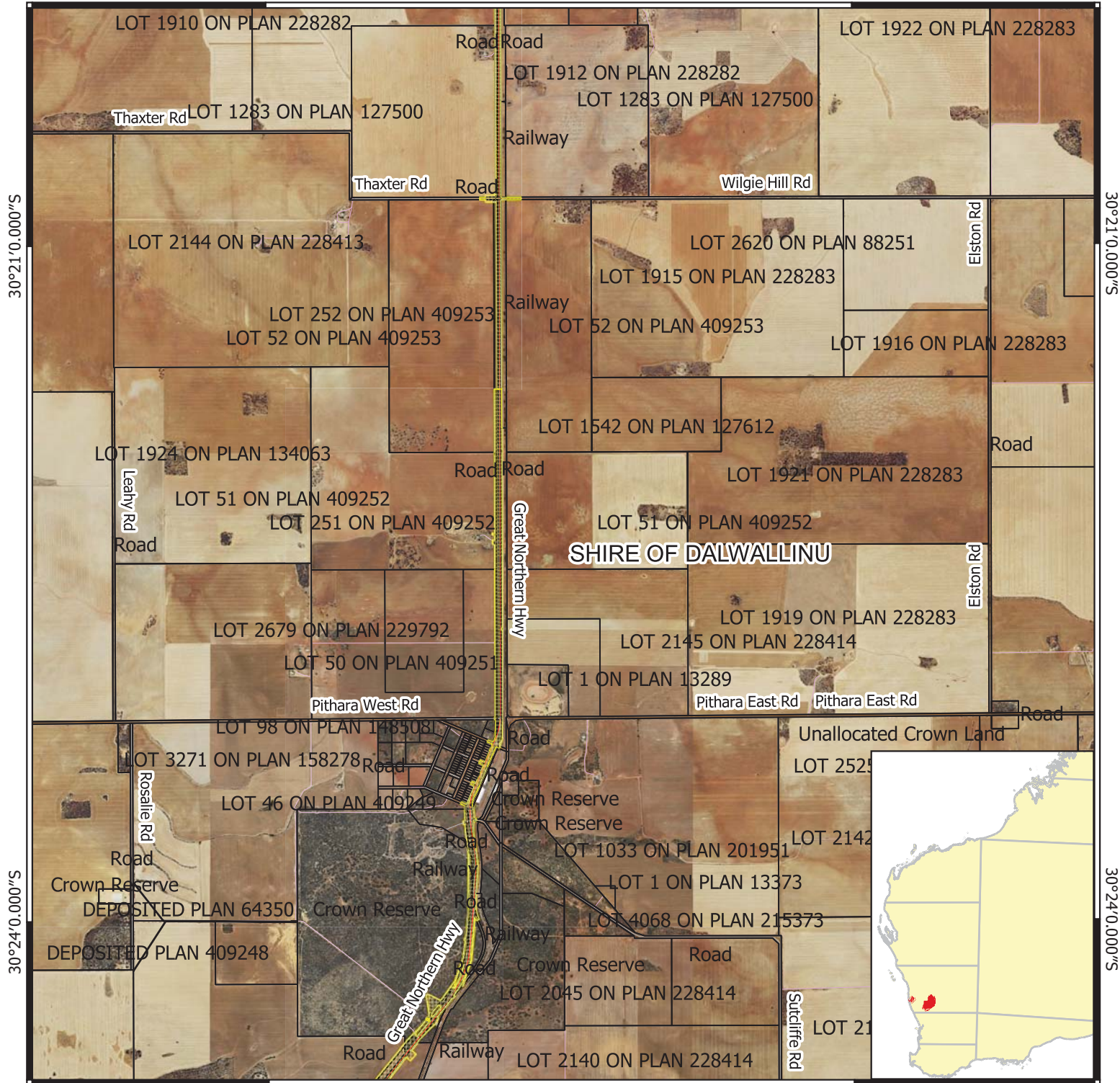


GOVERNMENT OF
WESTERN AUSTRALIA

Plan 7231/4e

116°39'0.000"E


116°42'0.000"E



116°39'0.000"E

116°42'0.000"E

Legend

-  CPS areas approved to clear
-  Land Tenure LGATE - 226
-  Local Government Authorities

Road Centrelines

-  Highway
-  Local Rd - Sealed
-  Local Rd - Other
-  No Classification



0 500 1000 1500 2000 m



1:44638

MGA Zone 50
Geocentric Datum of Australia 1994

Ryan Mincham
2020.10.16
10:48:06
+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986

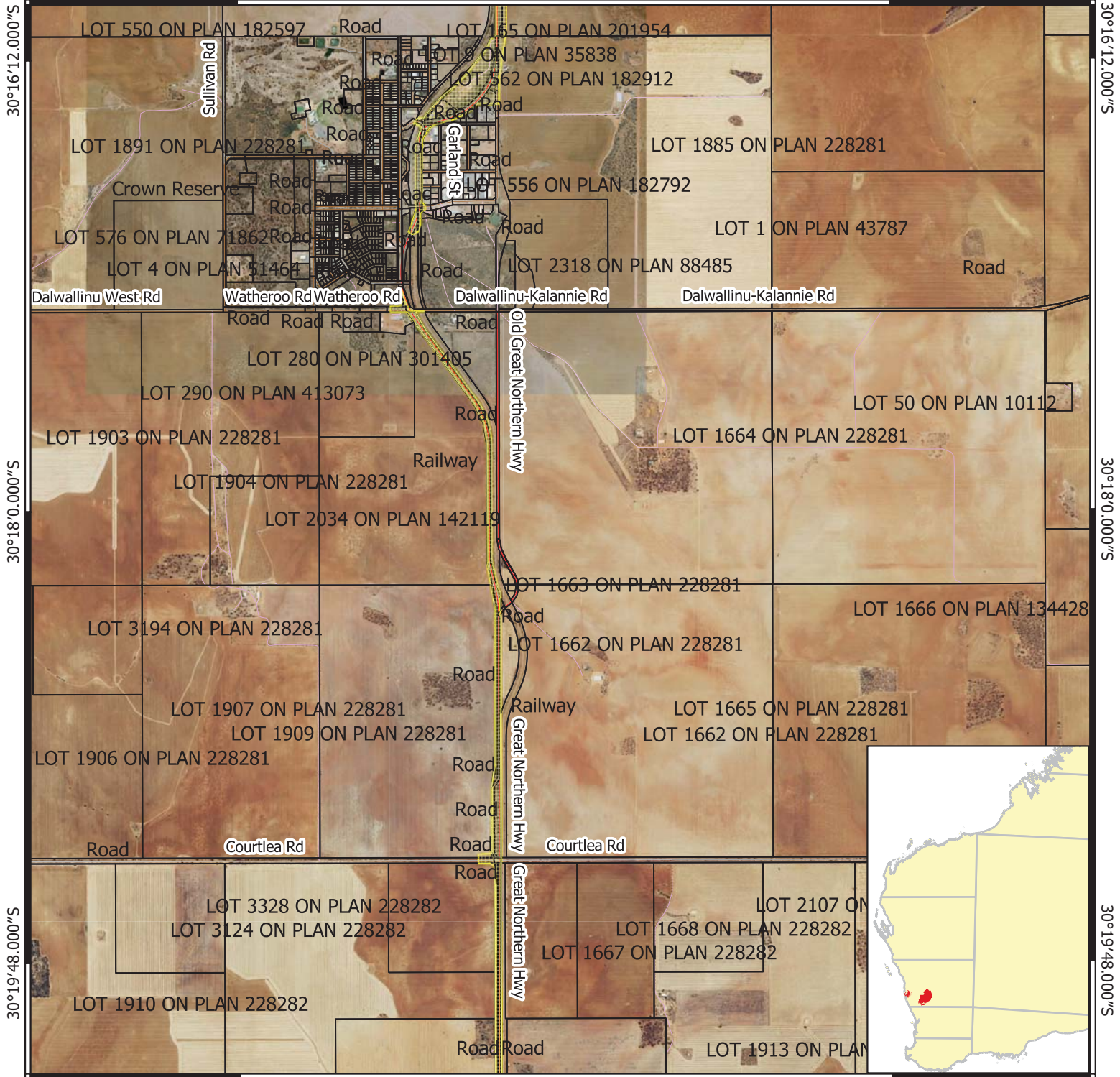


GOVERNMENT OF
WESTERN AUSTRALIA

Plan 7231/4f

116°39'0.000"E








116°42'0.000"E



116°39'0.000"E

116°42'0.000"E

Legend

-  CPS areas approved to clear
-  Land Tenure L GATE - 226
-  Local Government Authorities
- Road Centrelines
-  Highway
-  Local Rd - Sealed
-  Local Rd - Other
-  No Classification



0 500 1000 1500 2000 m



1:40000

MGA Zone 50
Geocentric Datum of Australia 1994

Ryan Mincham
2020.10.16
10:48:51
+08'00'

R. Mincham

Officer delegated under section 20 of the
Environmental Protection Act 1986



Plan 7231/4g

116°39'0.000"E

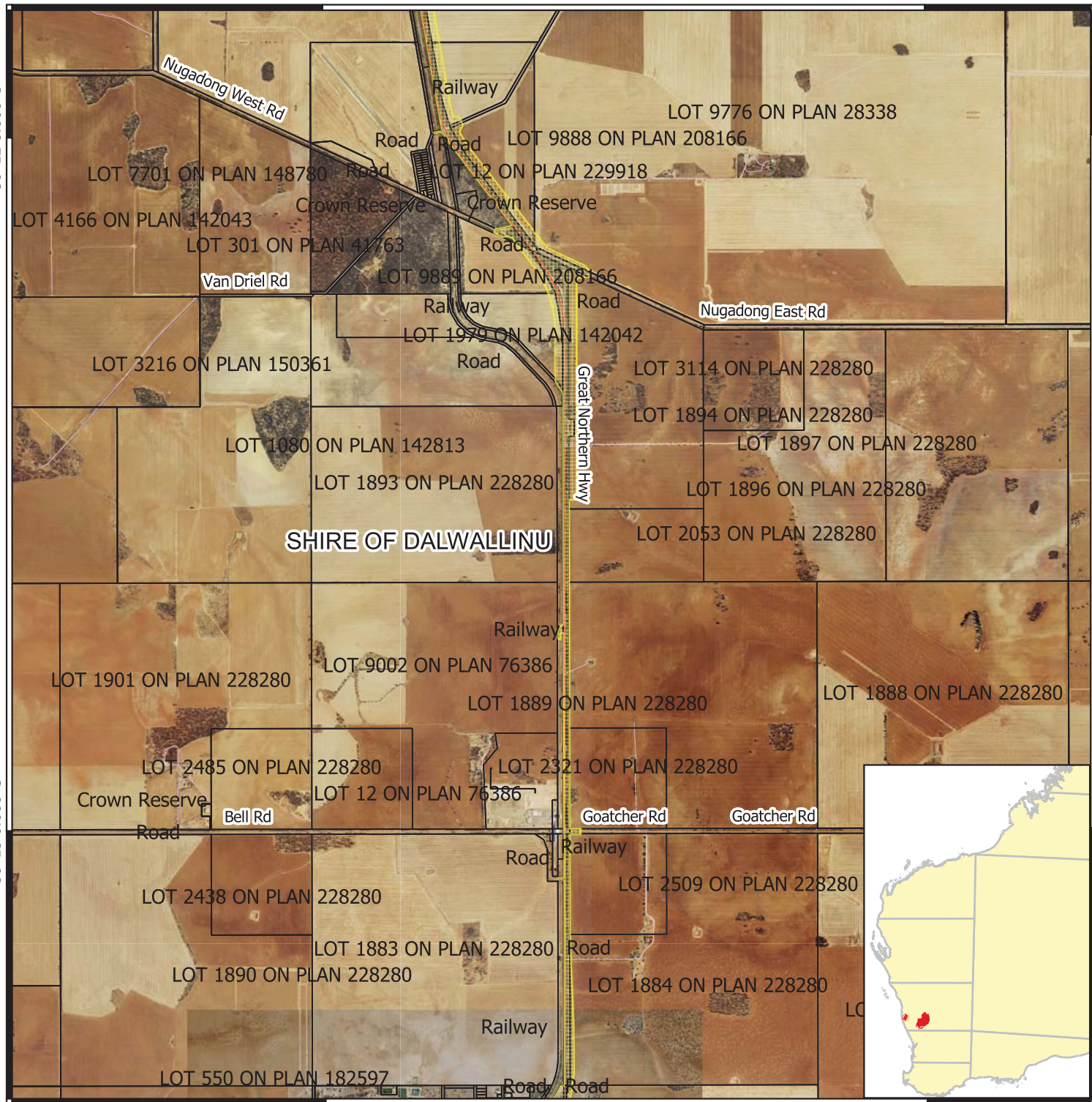
116°42'0.000"E

30°12'0.000"S

30°12'0.000"S

30°15'0.000"S








30°15'0.000"S



116°39'0.000"E

116°42'0.000"E

Legend

-  CPS areas approved to clear
-  Land TenureLGATE - 226
-  Local Government Authorities
- Road Centrelines
 -  Highway
 -  Local Rd - Sealed
 -  Local Rd - Other
 -  No Classification




0 500 1000 1500 2000 m



1:44190

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
2020.10.16
10:49:36
+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986



Plan 7231/4h

116°39'0.000"E

116°42'0.000"E



30°9'0.000"S

30°9'0.000"S


30°12'0.000"S

30°12'0.000"S

116°39'0.000"E

116°42'0.000"E

Legend

 CPS areas approved to clear

 Land TenureLGATE - 226

 Local Government Authorities

Road Centrelines

 Highway

 Local Rd - Sealed

 Local Rd - Other

 No Classification




0 500 1000 1500 2000 m



1:44638

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
2020.10.16
10:50:23
+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986



GOVERNMENT OF
WESTERN AUSTRALIA

Plan 7231/4i

116°38'24.000"E

116°40'12.000"E

30°5'24.000"S

30°5'24.000"S

30°7'12.000"S









30°7'12.000"S



116°38'24.000"E

116°40'12.000"E

Legend

-  CPS areas approved to clear
-  Land Tenure LGA - 226
-  Local Government Authorities
- Road Centrelines
 -  Highway
 -  Main Roads
 -  Local Rd - Sealed
 -  Local Rd - Other
 -  No Classification



0 500 1000 1500 2000 m



1:31405

MGA Zone 50
Geocentric Datum of Australia 1994

Ryan Mincham
2020.10.16
10:51:12
+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986



GOVERNMENT OF
WESTERN AUSTRALIA

Plan 7231/4j

115°12'36.000"E

115°13'12.000"E

115°13'48.000"E

30°10'12.000"S

30°10'48.000"S

30°11'24.000"S

30°10'12.000"S

30°10'48.000"S

30°11'24.000"S

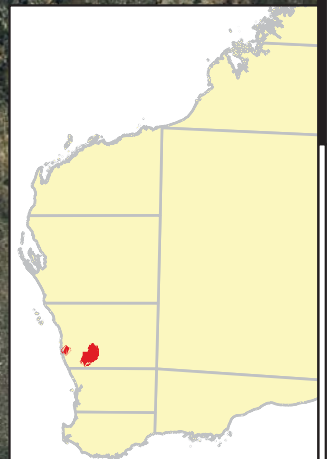
LOT 3860 ON PLAN 7231/4j

SHIRE OF COOROW

SHIRE OF DANDARAGAN

Southern Trk

Cocklees Trk






115°12'36.000"E



115°13'12.000"E

115°13'48.000"E

Legend

-  CPS subject to conditions
-  Land Tenure LGATE - 226
-  Local Government Authorities

Road Centrelines

-  Local Rd - Other
-  No Classification



0 250 500 750 1000 m



1:16404

MGA Zone 50
Geocentric Datum of Australia 1994

Ryan Mincham

2020.10.16

10:52:55

+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986



GOVERNMENT OF
WESTERN AUSTRALIA

Plan 7231/4k

117°7'12.000"E

117°7'48.000"E




117°7'12.000"E


117°7'48.000"E

Legend

 CPS subject to conditions

 Land Tenure LGATE - 226

 Local Government Authority (LGA) Boundaries (LGATE-233)

 Localities (LGATE-234)

Road Centrelines

 Local Road (Other)




0 250 500 750 1000 m



1:10000

MGA Zone 50
Geocentric Datum of Australia 1994


Ryan Mincham
2020.10.16
10:53:49
+08'00'

Officer delegated under section 20 of the
Environmental Protection Act 1986



GOVERNMENT OF
WESTERN AUSTRALIA



1. Application details

1.1. Permit application details

Permit application No.: 7231/4
Permit type: Purpose Permit
Application received date: 07 October 2019

1.2. Applicant details

Applicant's name: Commissioner of Main Roads Western Australia

1.3. Property details

Property: Various
Project name: Great Northern Highway Muchea to Wubin Upgrade Stage 2 (Walebing to Wubin)
Local Government Authority: Shire of Dalwallinu and Shire of Moora
Localities: Dalwallinu, Bindi Bindi, Walebing, Marne, Pithara, Nugadong, Miling and Wubin

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	Purpose category:
68.5		Mechanical Removal	Road construction or upgrades

1.5. Decision on application

Decision on Permit Application: Amended
Decision Date: 16 October 2020

Reasons for Decision: Clearing Permit CPS 7231/3 has been amended to modify offset conditions on the permit, with the clearing area remaining unchanged. The permit holder has purchased an offset site comprising environmental values which have been assessed by the Department of Water and Environmental Regulation (DWER) as being suitable to counterbalance the significant residual impacts of the clearing previously approved under CPS 7231/3. In accordance with condition 10 on clearing permit CPS 7231/3, a monetary contribution of \$175,260 was previously made by the permit holder to offset the impacts to biodiversity, Threatened Ecological Communities and vegetation considered significant in an extensively cleared landscape. With the acquisition of an alternate offset site, DWER endorses that the permit holder be reimbursed the monetary contributions previously made into the Offsets Fund.

The suitability of Lot 500, Yenyening as an offset for the above impacts was assessed and it was determined that 217.49 hectares (ha) of the proposed offset site will be required to be allocated to the clearing authorised under CPS 7231/4, of which 135.11 ha is vegetation consistent with the listing advice for Eucalypt Woodlands of the Western Australian Wheatbelt, listed as Critically Endangered under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act). The remaining 104.73 ha of vegetation within the Lot may be used as a banked offset for future clearing undertaken by MRWA. This banked offset site may also be utilised for offsetting impacts to significant habitat for black cockatoos.

2. Site Information

Clearing Description: The proposed clearing of 68.5 hectares of native vegetation within an application area of approximately 830 hectares is for the purpose of upgrading Great Northern Highway between Walebing and Wubin. The application area can be divided into four sections; Walebing (SLK 147.7-165.6; Plan 7231/4a-b), Miling Bypass (SLK 177.5-186.7; Plan 7231/4c), Pithara (SLK 207.8-223.4; Plan 7231/4d-e) and Dalwallinu to Wubin (SLK 223.4-258; Plan 7231/4f-i). The application is part of a larger program of works to upgrade Great Northern Highway between Muchea and Wubin to national highway standards.

Vegetation Description: The application area intersects five mapped Beard vegetation associations:

- 7 – Medium woodland; York gum (*Eucalyptus loxophleba*) & wandoo
- 142 – Medium woodland; York gum & salmon gum
- 435 – Shrublands; *Acacia neurophylla*, *A. beauverdiana* & *A. resinimarginea* thicket
- 631 – Succulent steppe with woodland and thicket; York gum over *Melaleuca thyoides* & samphire
- 1024 – Shrublands; mallee & casuarina thicket

Finer scale vegetation type mapping was commissioned by the applicant with recorded vegetation types then aligned to Beard vegetation association descriptions. This work resulted in the identification of vegetation consistent with 15 additional Beard vegetation associations (8, 35, 36, 141, 352, 354, 551, 676, 936, 946, 950, 1040, 1048, 1155, 1413) (Arup Jacobs Joint Venture, 2016; Phoenix Environmental Sciences, 2016b; Phoenix Environmental Sciences, 2016c).

Vegetation Condition: The condition of the vegetation within the application area is considered to be:

- Excellent: vegetation structure intact, disturbance affecting individual species and weeds are non-aggressive species;

- Very Good: vegetation structure altered; obvious signs of disturbance;
- Good: vegetation structure significantly altered by very obvious signs of multiple disturbance; retains basic structure or ability to regenerate;
- Degraded: basic vegetation structure severely impacted by disturbance; scope for regeneration but not to a state approaching Good condition without intensive management; and
- Completely Degraded: the structure of the vegetation is no longer intact and the area is completely or almost completely without native species (Keighery, 1994).

Vegetation condition was determined through flora surveys commissioned by the applicant (Phoenix Environmental Sciences, 2015; Phoenix Environmental Sciences, 2016a; Phoenix Environmental Sciences, 2016b; Phoenix Environmental Sciences, 2016c).

The applicant provided the following estimated breakdown of the proposed clearing in relation to vegetation condition (Main Roads Western Australia, 2017):

- Completely Degraded = 2 hectares
- Degraded = 29.5 hectares
- Good = 18.1 hectares
- Very Good = 16.5 hectares
- Excellent = 2.4 hectares



Figure 1: Map of Great Northern Highway upgrade project sections

3. Assessment of application against clearing principles

As the proposed amendment does not include any alterations to the clearing area, an assessment of the clearing principles was determined to not be required. The assessment of the clearing principles for the authorised clearing can be found in Decision Report for CPS 7231/1 and CPS 7231/3.

Planning instruments and other relevant matters.

The assessment against planning instruments and other relevant matters has not changed since the assessment for CPS 7231/1, and can be found in the Decision Report for CPS 7231/1.

4. Suitability of offset

Under clearing permit CPS 7231/3, condition 10 of the Permit specifies that "Prior to undertaking any clearing authorised under this Permit, the Permit Holder shall provide funding of \$175,260 to the Department for the purpose of establishing or maintaining native vegetation." This condition was to offset the following significant residual impacts:

- 68.5 ha of vegetation which comprised high biodiversity;
- 68.5 ha of significant remnant native vegetation in an area that has been extensively cleared; and
- 15 ha of a vegetation community consistent with "Eucalypt Woodlands of the Western Australian Wheatbelt," (TEC) listed as Critically Endangered under the EPBC Act.

Main Roads Western Australia (MRWA) have submitted an amendment (CPS 7231/4) to remove condition 10 of the Permit (outlined above) and replace it with the following:

- (a) The Permit Holder must fund the purchase of 217.49 ha of the area cross-hatched red in attached Plan 7231/4k to be ceded to the Department of Biodiversity, Conservation and Attractions for conservation; and
- (b) The Permit Holder shall provide documentary evidence to the CEO that the area cross-hatched red on attached Plan 7231/4k has been ceded to the Department of Biodiversity, Conservation and Attractions within six months of executing the land transfer.

MRWA have provided an area of land determined to be suitable to offset the significant residual impacts outlined above, Lot 500 on Deposited Plan 415659, Yenyening, Western Australia (Lot 500). Lot 500 is a 322.97 ha rural zoned parcel of land within the Shire of Beverly, Western Australia. The Lot is located approximately 190 km south south-east of the southern end of the clearing area, within the same bioregion, the Avon Wheatbelt. A detailed flora and vegetation assessment, and Carnaby's Cockatoo habitat assessment was undertaken of Lot 500 in May and September 2018, and identified nine vegetation types, including three representative of the Eucalypt Woodland TEC (Phoenix Environmental Sciences, 2019). Vegetation condition within Lot 500 ranged from Completely Degraded to Excellent (Keighery, 1994) condition, with vegetation in Very Good to Excellent condition, a total of 322.21 ha, suitable as an offset (Phoenix Environmental Sciences, 2019). A total of 165 native flora species were identified, including one Priority species and one significant range extension. Habitat suitable for Carnaby's Cockatoo breeding and foraging were identified, with approximately 65 per cent of the Lot identified as having some suitable foraging habitat for Carnaby's Cockatoo (Phoenix Environmental Sciences, 2019). It was determined that the native vegetation within Lot 500 contains high biodiversity.

The Avon Wheatbelt bioregion, in which the authorised clearing area and the proposed offset site are located, is classified as extensively cleared, with approximately 18.5 per cent of pre-1750 vegetation remaining (Government of Western Australia, 2019). The local area of the proposed offset site, as defined by a 10 kilometre radius, retains 11.35 per cent remnant vegetation, of which the vegetation proposed as an offset forms the largest patch. A detailed flora and vegetation survey mapped over 99 per cent of the vegetation within the Lot as Very Good to Excellent condition (Keighery, 1994; Phoenix Environmental Sciences, 2019). It was determined that the vegetation within the Lot meets the requirement as significant vegetation within an extensively cleared landscape.

The detailed flora and vegetation survey of Lot 500 identified 135.11 ha of vegetation representative of "Eucalypt Woodlands of the Western Australian Wheatbelt" TEC protected under the EPBC Act (Figure 1; Phoenix Environmental Sciences, 2019). The vegetation condition of the identified TEC ranged from Very Good to Excellent (Keighery, 1994; Phoenix Environmental Sciences, 2019).

The suitability of the offset was assessed using the Commonwealth Offsets Assessment Guide. It was determined that 217.49 ha of the proposed offset site will be required to be allocated to the clearing authorised under CPS 7231/4, including the 135.11 ha of the vegetation consistent with the listing advice for Wheatbelt Woodlands TEC. The justification for the values used in the offsets calculation are provided in Table 1.

The area required to be acquired is lower than the calculations undertaken in CPS 7231/1 as the estimation of vegetation condition of the land to be acquired was lower than the actual vegetation condition at Lot 500, Yenyening, resulting in a lower offset quality value score in the estimation. A total of 117.51 ha of vegetation consistent with the Eucalyptus Woodland TEC was determined to be required to offset the impacts; however, as the EPBC Act approval (EPBC 2016/7761) condition stipulates a minimum of 134.1 ha of Eucalypt Woodland TEC; 135.11 ha of this TEC will be allocated to the clearing authorised under CPS 7231/4.

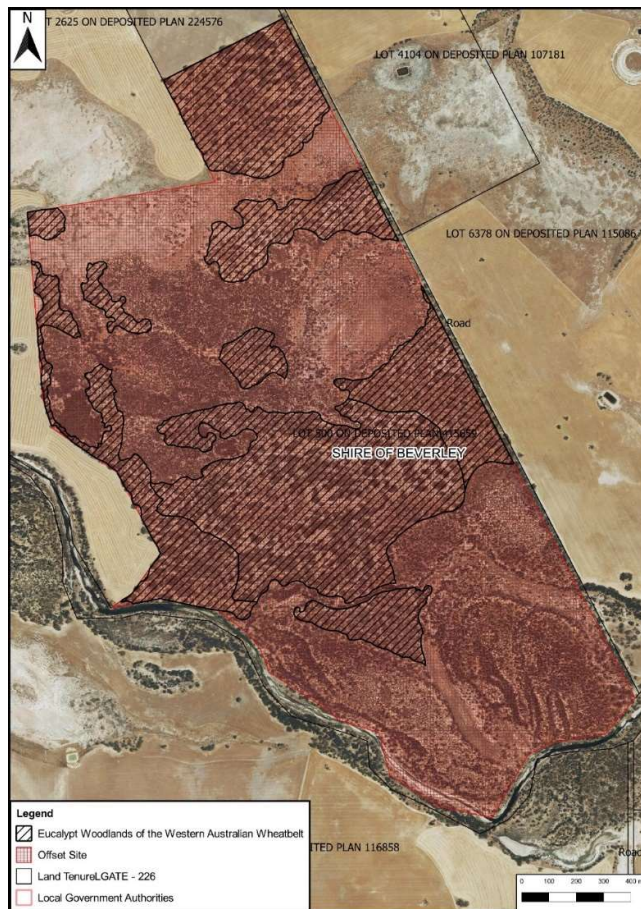


Figure 2: Proposed offset site

Table 1: Justification of values assigned during offset calculations

Field Name	Description	Justification for value used for the TEC	Justification value used for the extensively cleared landscape																																																
<i>IUCN Criteria</i>	The IUCN criteria for the value being impacted	6.8% - The Eucalypt Woodlands of the Western Australian Wheatbelt TEC is listed as Critically Endangered.	0%																																																
<i>Area of impact (habitat/community) or Quantum of impact (features/individuals)</i>	The area of habitat/community impacted or number of features/individuals impacted	15 - Up to 15 hectares of the TEC is proposed to be cleared.	68.5 - Up to 68.5 ha of vegetation in an extensively cleared landscape is proposed to be cleared																																																
<i>Quality of impacted area (habitat/community)</i>	The quality score for area of habitat/community being impacted - a measure of how well a particular site supports a particular threatened species or ecological community and contributes to its ongoing viability.	3 - Of the 15 ha of TEC proposed to be cleared the vegetation is in the following condition <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Condition</th> <th>Area</th> <th>Quality</th> <th>Weighted score</th> </tr> </thead> <tbody> <tr> <td>Degraded</td> <td>11</td> <td>2</td> <td>1.47</td> </tr> <tr> <td>Good</td> <td>2.9</td> <td>4.5</td> <td>0.87</td> </tr> <tr> <td>Very Good</td> <td>1.1</td> <td>6.5</td> <td>0.47</td> </tr> <tr> <td>Total</td> <td>15</td> <td></td> <td>2.8</td> </tr> </tbody> </table> <p>The total weighted quality score of 2.8 was rounded to 3</p>	Condition	Area	Quality	Weighted score	Degraded	11	2	1.47	Good	2.9	4.5	0.87	Very Good	1.1	6.5	0.47	Total	15		2.8	4 - The vegetation within the area proposed to be cleared was in the following condition <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Condition</th> <th>Area</th> <th>Quality</th> <th>Weighted score</th> </tr> </thead> <tbody> <tr> <td>Completely Degraded</td> <td>2</td> <td>0.5</td> <td>0.015</td> </tr> <tr> <td>Degraded</td> <td>32.25</td> <td>2</td> <td>0.942</td> </tr> <tr> <td>Good</td> <td>15.05</td> <td>4.5</td> <td>0.989</td> </tr> <tr> <td>Very Good</td> <td>16.7</td> <td>6.5</td> <td>1.585</td> </tr> <tr> <td>Excellent</td> <td>2.5</td> <td>8.5</td> <td>0.310</td> </tr> <tr> <td>Total</td> <td>68.5</td> <td></td> <td>3.840</td> </tr> </tbody> </table> <p>The total weighted score of 3.84 was rounded to 4</p>	Condition	Area	Quality	Weighted score	Completely Degraded	2	0.5	0.015	Degraded	32.25	2	0.942	Good	15.05	4.5	0.989	Very Good	16.7	6.5	1.585	Excellent	2.5	8.5	0.310	Total	68.5		3.840
Condition	Area	Quality	Weighted score																																																
Degraded	11	2	1.47																																																
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Very Good	16.7	6.5	1.585																																																
Excellent	2.5	8.5	0.310																																																
Total	68.5		3.840																																																
<i>Time over which loss is averted (habitat/community)</i>	This describes the timeframe over which changes in the level of risk to the proposed offset site can be considered and quantified	20 - The offset site will be vested and managed by the Department of Biodiversity, Conservation and Attractions for conservation in perpetuity. Therefore, the maximum of 20 years was applied.																																																	
<i>Time until ecological benefit (habitat/community) or Time horizon (features/individuals)</i>	This describes the estimated time (in years) that it will take for the main benefit of the quality (habitat/community) or value (features/individuals) improvement of the proposed offset to be realised	1 - It is anticipated that identification and acquisition of a property for conservation will take 1 year.																																																	

<i>Start area (habitat/community) or Start value (features/individuals)</i>	The area of habitat/community or number of features/individuals proposed to offset the impacts	117.51 ha of land with vegetation consistent with this TEC is required to offset the proposed clearing	217.49 ha of land is required to offset the proposed clearing of vegetation within an extensively cleared landscape																																
<i>Start quality (habitat/community)</i>	The quality score for the area of habitat/community proposed as an offset - a measure of how well a particular site supports a particular threatened species or ecological community and contributes to its ongoing viability	8 – Vegetation consistent with the TEC within the proposed offset totalled 135.1 ha and ranges from Very Good to Excellent Condition. <table border="1"><thead><tr><th>Condition</th><th>Area</th><th>Quality</th><th>Weighted score</th></tr></thead><tbody><tr><td>VG</td><td>71</td><td>8.5</td><td>4.47</td></tr><tr><td>EX</td><td>64.1</td><td>6.5</td><td>3.08</td></tr><tr><td>Total</td><td>135.1</td><td></td><td>7.55</td></tr></tbody></table> The total weighted quality score of 7.55 was rounded to 8.	Condition	Area	Quality	Weighted score	VG	71	8.5	4.47	EX	64.1	6.5	3.08	Total	135.1		7.55	7 – Vegetation within the proposed offset totalled 320.1 ha vegetation in Very Good to Excellent Condition. <table border="1"><thead><tr><th>Condition</th><th>Area</th><th>Quality</th><th>Weighted score</th></tr></thead><tbody><tr><td>VG</td><td>187.6</td><td>6.5</td><td>3.8</td></tr><tr><td>EX</td><td>132.5</td><td>8.5</td><td>3.5</td></tr><tr><td>Total</td><td>320.1</td><td></td><td>7.3</td></tr></tbody></table> A total weighted quality score of 7.3 was rounded to 7	Condition	Area	Quality	Weighted score	VG	187.6	6.5	3.8	EX	132.5	8.5	3.5	Total	320.1		7.3
Condition	Area	Quality	Weighted score																																
VG	71	8.5	4.47																																
EX	64.1	6.5	3.08																																
Total	135.1		7.55																																
Condition	Area	Quality	Weighted score																																
VG	187.6	6.5	3.8																																
EX	132.5	8.5	3.5																																
Total	320.1		7.3																																
<i>Future quality without offset (habitat/community) or Future value without offset (features/individuals)</i>	The predicted future quality score (habitat/community) or value (features/individuals) of the proposed offset site without the offset	8 - No change to the quality of the offset site is expected with or without acquisition for conservation.	7 - No change to the quality of the offset site is expected with or without acquisition for conservation.																																
<i>Future quality with offset (habitat/community) or Future value with offset (features/individuals)</i>	The predicted future quality score (habitat/community) or value (features/individuals) of the proposed offset site with the offset	8 - No change to the quality of the offset site is expected with or without acquisition for conservation.	7 - No change to the quality of the offset site is expected with or without acquisition for conservation.																																
<i>Risk of loss (%) without offset (habitat/community)</i>	This describes the chance that the habitat/community on the proposed offset site will be completely lost (i.e. no longer hold any value for the protected matter of concern) over the foreseeable future without an offset	30% - The land is presently zoned rural, which has consistently been considered by the department to equate to a risk of loss of 30%.																																	
<i>Risk of loss (%) with offset (habitat/community)</i>	This describes the chance that the habitat/community on the proposed offset site will be completely lost (i.e. no longer hold any value for the protected matter of concern) over the foreseeable future with an offset	10% - Acquiring an area for conservation to be managed by DBCA has consistently been considered by the department to reduce the risk of loss of an offset site to 10%.																																	
<i>Confidence in result (%) – risk of loss (habitat/community)</i>	The capacity of measures to mitigate risk of loss of the proposed offset site	90% - It is considered that there is a high level of confidence that the risk of loss of the offset site will be reduced from 30 to 10%.																																	
<i>Confidence in result (%) – Change in quality (habitat/community) or Change in value (features/individuals)</i>	The level of certainty about the successful achievement of the proposed change in quality (habitat/community) or value (features/individuals)	100% - As there is no change in quality with or without the offset this field is redundant.																																	
<i>% of impact offset</i>	% of the significant residual impact that would be offset by the proposed offset (note: the offset calculations combined should equate to 100% for each residual impact)	100%	100%																																

Banked offset

Based on the offset calculations and conditions under federal approvals, an area of 217.49 ha, of which 135.11 ha is classified as Eucalypt Woodland of Western Australian Wheatbelt, has been allocated from Lot 500, Yenyening to the clearing authorised under CPS 7231/4 (Figure 3). The remaining area within the Lot includes 104.72 ha of vegetation of a high biodiversity within an extensively cleared landscape. Some of this area has also been mapped as habitat for black cockatoos. MRWA may utilise this additional area as a 'banked offset' for future clearing permit applications.

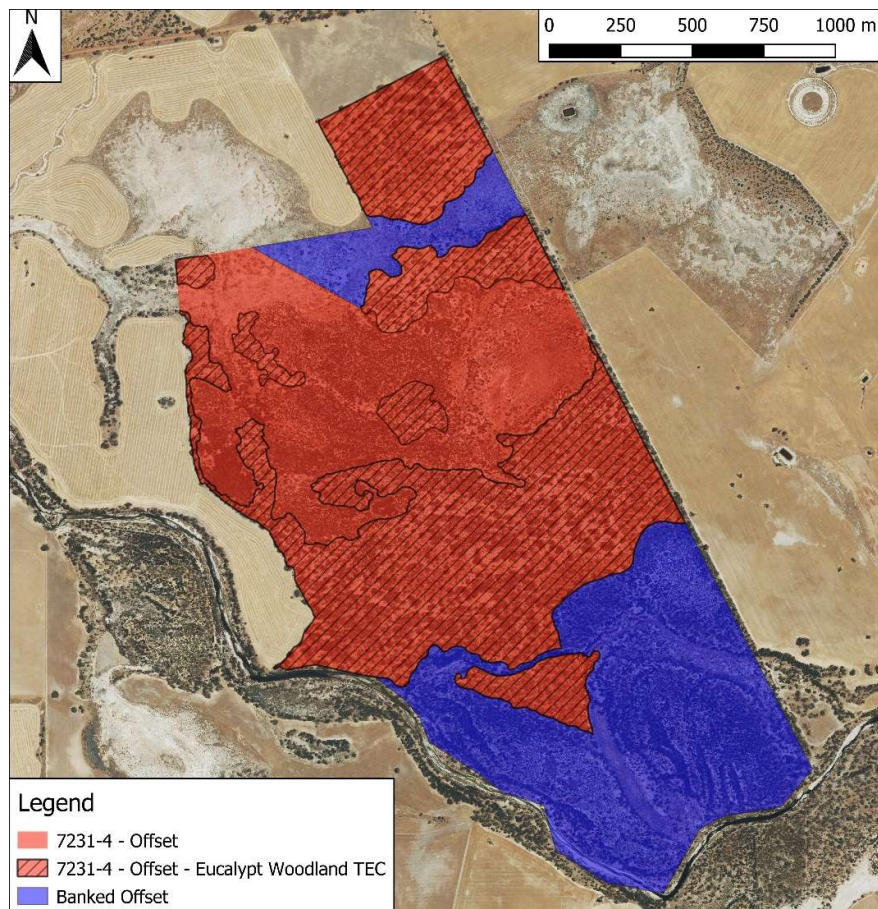


Figure 3: Portion of Lot 500, Yenyening which will be utilised to offset CPS 7231/4 and portion which can be utilised as banked offset.

5. References

- Arup Jacobs Joint Venture (2016) Great Northern Highway Muchea to Wubin Upgrade – Stage 2 – Main Roads Western Australia – Walebing to Wubin Purpose Permit to Clear Native Vegetation – Supporting Information. Unpublished report prepared for Main Roads Western Australia. Document Number GNH-CN00-EN01-RPT-0008, Revision 3, 3 August 2016 (DWER Ref: A1147192).
- Government of Western Australia (2019) 2018 Statewide Vegetation Statistics incorporating the CAR Reserve Analysis (Full Report). Current as of March 2019. WA Department of Biodiversity, Conservation and Attractions.
- Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.
- Main Roads Western Australia (2017) Additional information supplied in relation to Clearing Permit application CPS 7231/1. Received 30 May 2017 (DWER Ref: A1441668).
- Phoenix Environmental Sciences (2016a) Flora and fauna assessment for Calingiri to Wubin study areas – Great Northern Highway, Muchea to Wubin Upgrade Stage 2 Project. Unpublished report prepared for Muchea to Wubin Integrated Project Team (Main Roads WA, Jacobs and Arup). Version 0, 3 August 2016 (DWER Ref: A1147192).
- Phoenix Environmental Sciences (2016b) Flora and fauna and fauna assessment for the Lyons East Road to Gatti Road study area – Report Addendum – Great Northern Highway, Muchea to Wubin Upgrade Stage 2 Project. Unpublished report prepared for Muchea to Wubin Integrated Project Team (Main Roads WA, Jacobs and Arup). Version 0, 16 December 2016 (DWER Ref: A1396987).
- Phoenix Environmental Sciences (2016c) Flora and fauna assessment for the Calingiri to Wubin study areas – Report Addendum – Great Northern Highway, Muchea to Wubin Upgrade Stage 2 Project. Unpublished report prepared for Muchea to Wubin Integrated Project Team (Main Roads WA, Jacobs and Arup). Version 0, 20 December 2016 (DWER Ref: A1396988).
- Phoenix Environmental Sciences (2019) Flora and Vegetation, and Carnaby's Cockatoo habitat assessment for potential offset property near Brookton. Unpublished report prepared for Jacobs, January 2019.