GOVERNMENT OF
WESTERN AUSTRALIA

CLEARING PERMIT

Granted under section 51E of the Environmental Protection Act 1986

Purpose Permit number:	CPS 4109/1
Permit Holder:	Mr Kimberly James Fewster
Duration of Permit:	7 March 2011 – 7 March 2016

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

PART I – CLEARING AUTHORISED

1. Purpose for which clearing may be done

Clearing for the purpose of *apiary site* maintenance.

2. Land on which clearing is to be done

***Apiary site* no.**	**Local Government**	**Land tenure**	**Latitude**	**Longitude**
1379	Armadale	Jarrahdale State Forest 22 - CCWA	-32.19656	116.28173
2194	Armadale	Jarrahdale State Forest 22 - CCWA	-32.15866	116.20501
2195	Armadale	Jarrahdale State Forest 22 - CCWA	-32.18479	116.26391
2196	Armadale	Jarrahdale State Forest 22 - CCWA	-32.20745	116.30598
2802	Armadale	Jarrahdale State Forest 22 - CCWA	-32.22973	116.22924
311	Augusta-Margaret River	Leeuwin-Naturaliste National Park - CCWA	-34.08452	115.03440
1268	Augusta-Margaret River	Leeuwin-Naturaliste National Park - CCWA	-34.11810	115.05674
1269	Augusta-Margaret River	Leeuwin-Naturaliste National Park - CCWA	-34.13777	115.07445
1270	Augusta-Margaret River	Leeuwin-Naturaliste National Park - CCWA	-34.17602	115.07292
223	Beverley	Youraling State Forest 67 - CCWA	-32.35461	116.43257
1355	Beverley	Wandoo National Park - CCWA	-32.23687	116.65933
5239	Beverley	Wandoo National Park - CCWA	-32.21741	116.69627
5262	Boddington	Muja State Forest 24 - CCWA - Un-named Timber Reserve	-32.99399	116.56199
4323	Boyup Brook	Nollajup Nature Reserve - CCWA	-33.88620	116.32419
3216	Busselton	Millbrook State Forest 33 - CCWA	-33.71023	115.57001
3236	Busselton	Millbrook State Forest 33 - CCWA	-33.68738	115.59861
2764	Busselton	Tuart Forest National Park - CCWA	-33.63527	115.42233
2765	Capel	Tuart Forest National Park - CCWA	-33.53956	115.51544

3530	Capel	Tuart Forest National Park - CCWA	-33.56749	115.50640
482	Carnamah	Beekeepers Nature Reserve - CCWA	-29.86847	115.07966
3682	Carnamah	Beekeepers Nature Reserve - CCWA	-29.89518	115.08269
3683	Carnamah	Beekeepers Nature Reserve - CCWA	-29.91492	115.07240
3762	Carnamah	Beekeepers Nature Reserve - CCWA	-29.90354	115.05226
3763	Carnamah	Beekeepers Nature Reserve - CCWA	-29.92779	115.05664
3764	Carnamah	Beekeepers Nature Reserve - CCWA	-29.89194	115.06604
2420	Carnamah	Land Administration Act - Unallocated Crown Land (UCL)	-29.70740	115.17726
3499	Carnamah	Land Administration Act - Unallocated Crown Land (UCL)	-29.74820	115.23583
4465	Carnamah	Land Administration Act - Unallocated Crown Land (UCL)	-29.89317	115.29758
5574	Carnamah	Tathra National Park - CCWA	-29.81773	115.49497
2180	Carnamah	Nature Reserve 39744 - CCWA	-29.70318	115.23588
3759	Chittering	Land Administration Act - Unallocated Crown Land (UCL)	-31.50437	115.91594
3801	Chittering	Land Administration Act - Unallocated Crown Land (UCL)	-31.53118	115.89332
2503	Chittering	Gnangara-Moore River State Forest 65 - CCWA	-31.55466	115.87134
2534	Collie	Lane Poole 5(1)(g) Reserve 39821 - CCWA - Harris River State Forest	-33.09394	116.34301
2920	Collie	Lane Poole 5(1)(g) Reserve 39821 - CCWA	-33.09475	116.27616
2921	Collie	Lane Poole 5(1)(g) Reserve 39821 - CCWA	-33.09239	116.31088
5415	Collie	Lane Poole 5(1)(g) Reserve 39821 - CCWA	-33.14267	116.40101
5416	Collie	Lane Poole 5(1)(g) Reserve 39821 - CCWA	-33.11793	116.40238
3008	Collie	Local Government Reserve - Shire of Collie and Commisioner of Main Roads - Reserve 36801 - Gravel	-33.30393	116.01219
14	Collie	Harris River State Forest - CCWA	-33.06474	116.31549
27	Collie	Harris River State Forest 15 - CCWA	-33.29328	116.05597
3017	Collie	Harris River State Forest - CCWA	-33.26140	116.00878
6124	Collie	Harris River State Forest - CCWA	-33.31207	116.13485
3010	Collie	Collie State Forest 4 - CCWA	-33.33667	116.12037
2654	Collie	Wellington National Park - CCWA	-33.38503	115.96109
2655	Collie	Wellington National Park - CCWA	-33.36057	115.94705
3009	Collie	Wellington National Park - CCWA	-33.31868	115.97858
3858	Collie	Wellington National Park - CCWA	-33.37245	115.97958
3590	Coogardie	Goldifleds Woodlands Conservation Park - CCWA	-31.11114	120.64186
221	Coolgardie	Goldifleds Woodlands National Park - CCWA	-31.15626	120.57096
5460	Coolgardie	Land Administration Act - Mungari pastoral lease - Pastoral Lands Board	-30.87736	121.28630
222	Coolgardie	Land Administration Act - Unallocated Crown Land (UCL)	-31.02188	120.81175
2695	Cuballing	Lol Gray State Forest 51 - CCWA	-32.83572	116.97016
2906	Dandaragan	Badgingarra National Park - CCWA	-30.51557	115.42529
2903	Dandaragan	Coomallo Nature Reserve - CCWA	-30.20156	115.39026
2904	Dandaragan	Coomallo Nature Reserve - CCWA	-30.22284	115.42032
3911	Dandaragan	Minyulo Nature Reserve - CCWA	-30.66842	115.55476
2590	Dandaragan	Minyulo Nature Reserve - CCWA	-30.64760	115.57930
2601	Dardanup	Wellington State Forest 25 - CCWA	-33.50052	115.93700
3457	Dardanup	Boyanup State Forest - CCWA	-33.48619	115.78564
4057	Dardanup	Boyanup State Forest - CCWA	-33.45633	115.79680

4058	Dardanup	Boyanup State Forest - CCWA	-33.44475	115.83107
2656	Dardanup	Wellington National Park - CCWA	-33.41927	115.95337
3220	Dardanup	Wellington National Park - CCWA	-33.39386	115.92360
3542	Gingin	Land Administration Act - Unallocated Crown Land (UCL)	-31.02092	115.36641
4147	Gingin	Land Administration Act - Unallocated Crown Land (UCL)	-31.00880	115.35530
1450	Gingin	Land Act Reserve Unvested 33032 - Stopping Place for Travellers (Proposed NR)	-31.08952	115.76597
3555	Gingin	Land Administration Act - LESCHENAULT pastoral lease - L3114/950 - Pastoral Lands Board	-31.26794	115.45999
603	Gingin	Land Administration Act - LESCHENAULT pastoral lease L3114/950 - Pastoral Lands Board	-31.25078	115.47331
3557	Gingin	Land Administration Act - Lime Peaks pastoral lease 3114/82 - Pastoral Lands Board	-31.32583	115.48483
683	Gingin	Land Administration Act - Unallocated Crown Land (UCL)	-31.30712	115.49660
3556	Gingin	Land Administration Act - Unallocated Crown Land (UCL)	-31.29350	115.47500
2028	Gingin	Moore River Nature Reserve - CCWA	-31.21577	115.66235
5776	Harvey	Land Act Reserve Unvested 1086 - Drainage	-33.04740	115.73435
31	Harvey	Harris River State Forest - CCWA	-33.15017	115.95578
5777	Harvey	Myalup State Forest 16 - CCWA	-33.01875	115.74570
4477	Jerramungup	Local Government Reserve - Shire of Jerramungup - Reserve 30415 - Public Recreation	-33.92519	119.05093
284	Manjimup	Boorara-Gardner National Park - CCWA	-34.76833	116.28726
1143	Manjimup	Shannon National Park - CCWA	-34.54949	116.36314
2910	Manjimup	Shannon National Park - CCWA	-34.52107	116.42491
2911	Manjimup	Shannon National Park - CCWA	-34.54873	116.45604
1705	Manjimup	Donnelly State Forest 36 - CCWA	-34.44291	115.99032
3558	Manjimup	Donnelly State Forest 36 - CCWA	-34.44026	115.97402
5053	Manjimup	Warren State Forest 39 - CCWA	-34.43692	116.18228
1142	Manjimup	Shannon State Forest 41 - CCWA	-34.55078	116.29267
618	Manjimup	Timber Reserve 116/25 - CCWA	-34.18813	116.14969
4415	Manjimup	Mt Frankland South National Park (Proposed Walpole Wilderness Area) - CCWA - Shannon State Forest	-34.77222	116.56045
2922	Manjimup	State Forest 59 (Proposed Forest Conservation / Walpole Wilderness Area) - CCWA - Mt Frankland South National Park	-34.74141	116.58612
2324	Murray	Dwellingup State Forest 14 - CCWA	-32.62574	116.04408
3905	Murray	Dwellingup State Forest 14 - CCWA	-32.58548	116.09321
5505	Nannup	Millbrook State Forest 33 - CCWA	-34.04150	115.63534
339	Nannup	North Donnelly State Forest 34 - CCWA	-34.04735	115.92934
5506	Nannup	Milyeannup State Forest 58 - CCWA	-34.08177	115.63150
376	Nannup	North Donnelly State Forest 34 - CCWA	-34.10078	115.98220
414	Nannup	North Donnelly State Forest 34 - CCWA	-34.09794	115.92523
428	Nannup	North Donnelly State Forest 34 - CCWA	-34.12544	115.93665
464	Nannup	North Donnelly State Forest 34 - CCWA	-34.09033	115.95169
2696	Narrogin	Lol Gray State Forest 51 - CCWA	-32.87110	116.97562

2697	Narrogin	Lol Gray State Forest 51 - CCWA	-32.88198	116.98889
1264	Serpentine-Jarrahdale	Jarrahdale State Forest 22 - CCWA	-32.38664	116.24040
1381	Serpentine-Jarrahdale	Jarrahdale State Forest 22 - CCWA	-32.33939	116.20787
3432	Swan	AVON VALLEY NATIONAL PARK - CCWA	-31.62502	116.13243
3433	Swan	AVON VALLEY NATIONAL PARK - CCWA	-31.64124	116.15474
2716	Wandering	Lol Gray State Forest 51 - CCWA	-32.73608	116.91767
5394	Wandering	Lol Gray State Forest 51 - CCWA	-32.74532	116.92744
2205	Wandering	Monadnocks Conservation Park - CCWA	-32.40103	116.27402
1253	Wandering	Jarrahdale State Forest 22 - CCWA	-32.29575	116.20279
2435	Wandering	Jarrahdale State Forest 22 - CCWA	-32.29511	116.31235
2719	Wandering	Jarrahdale State Forest 22 - CCWA	-32.27806	116.29736
1764	Wandering	Youraling State Forest 67 - CCWA	-32.45152	116.48876
3021	Wandering	Youraling State Forest 67 - CCWA	-32.54578	116.47815
1354	Wandering	Youraling State Forest 67 - CCWA	-32.55540	116.51136
1763	Wandering	Youraling State Forest 67 - CCWA	-32.46044	116.40978
1960	Wandering	Timber Reserve 160/25 - CCWA	-32.70591	116.57992
509	Wanneroo	Gnangara-Moore River State Forest 65 - CCWA	-31.69529	115.85027
3760	Wanneroo	Gnangara-Moore River State Forest 65 - CCWA	-31.55525	115.80811
5532	Wanneroo	Gnangara-Moore River State Forest 65 - CCWA	-31.57465	115.77519
1707	West Arthur	Bennelaking Conservation Park - CCWA - Muja State Forest	-33.43546	116.51490
1706	West Arthur	Muja State Forest 24 - CCWA	-33.42094	116.43204
2659	West Arthur	Muja State Forest 24 - CCWA	-33.41661	116.46271
3372	Williams	Lol Gray State Forest 51 - CCWA	-32.83641	116.94729
3709	Williams	Lol Gray State Forest 51 - CCWA	-32.83576	116.83017
32	Williams	Lane Poole 5(1)(g) Reserve 39821 - CCWA - Harris River State Forest	-33.18382	116.43350
3422	Williams	Lane Poole 5(1)(g) Reserve 39821 - CCWA - Harris River State Forest	-33.17758	116.48730
2309	Yalgoo	Land Administration Act - MT GIBSON pastoral lease - Pastoral Lands Board	-29.68566	117.14291
1277	York	Mundaring State Forest 13 - CCWA	-32.05356	116.43613
2990	York	Mundaring State Forest 13 - CCWA	-32.05553	116.41398
2991	York	Wandoo National Park - CCWA	-32.06505	116.50402
4287	York	Wandoo National Park - CCWA	-32.08749	116.63841
4376	York	Wandoo National Park - CCWA	-32.11109	116.56233
5119	York	Wandoo National Park - CCWA	-32.10936	116.53012

3. Area of clearing

(a) The Permit Holder must not clear more than 6.55 hectares of native vegetation in total.

(b) The Permit Holder must not clear more than 0.05 hectare for each of the *apiary sites* described in condition 2 of this Permit.

(c) The clearing described in condition 3(a) of this Permit may only occur within a 2,000 metre radius of the coordinates of each *apiary sites* described in condition 2 of this Permit, subject to the Permit Holder having the power to clear native vegetation for those activities under any written law.

4. 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.

5. Type of clearing authorised

This Permit authorises the Permit Holder to clear native vegetation within *apiary sites* described in conditions 2 and 3 of this Permit to the extent of activities permitted under an authority granted to the Permit Holder under Part 8A of the Conservation and Land Management Regulations 2002 to the *CALM Act*.

6. Clearing not authorised

This Permit does not authorise the Permit Holder to clear trees that have a diameter, at average adult human chest height, of 10cm or greater.

7. Compliance with Assessment Sequence and Management Procedures

Prior to clearing any native vegetation under conditions 1, 2 and 3 of this Permit, the Permit Holder must comply with the Assessment Sequence and the Management Procedures set out in Part II of this Permit.

PART II – ASSESSMENT SEQUENCE AND MANAGEMENT PROCEDURES

8. Avoid, minimise etc clearing

In determining the amount of native vegetation to be cleared authorised under this Permit, the Permit Holder must have regard to the following principles, set out in order of preference:
(a) avoid the clearing of native vegetation;
(b) minimise the amount of native vegetation to be cleared; and
(c) reduce the impact of clearing on any environmental value.

9. Method of clearing

(a) The Permit Holder must comply with the directions of the relevant District Apiary Officer of the Department of Environment and Conservation prior to undertaking clearing within *apiary sites* described in conditions 2 and 3 of this Permit.
(b) The permit holder may only clear native vegetation using minimal impact methods, such as hand mowers or raking.

10. Dieback and weed control

When undertaking any clearing or other activity authorised under this Permit, the Permit Holder must take the following steps to minimise the risk of the introduction and spread of *weeds* and *dieback*:
(a) clean earth-moving machinery of soil and vegetation prior to entering and leaving the area to be cleared;
(b) shall only move soils in *dry conditions*;
(c) ensure that no *dieback* or *weed*-affected soil, *mulch*, *fill* or other material is brought into the area to be cleared; and
(d) restrict the movement of machines and other vehicles to the limits of the areas to be cleared.

PART III – RECORD KEEPING AND REPORTING

11. Records must be kept

The Permit Holder must maintain the following records in relation to the clearing of native vegetation authorised under this Permit:

(a) the species composition, structure and density of the cleared area;
(b) the location where the clearing occurred, recorded using a Global Positioning System (GPS) unit set to Geocentric Datum Australia 1994 (GDA94), expressing the geographical coordinates in Eastings and Northings and/or decimal degrees;
(c) the date that the area was cleared; and
(d) the size of the area cleared (in hectares).

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 and 31 December of the preceding year.
(b) Prior to 7 December 2015, 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.

Definitions

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

apiary site/s means means the land specified in an apiary authority as the land to which an apiary licence granted under Part VIII Division 2 of the *CALM Act*, or an apiary permit granted under Part VIII Division 1 of the *CALM Act*, relates;

CALM Act means the *Conservation and Land Management Act 1984*;

dieback means the effect of *Phytophthora* species on native vegetation;

dry conditions means when soils (not dust) do not freely adhere to rubber tyres, tracks, vehicle chassis or wheel arches;

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;

weed/s means a species listed in Appendix 3 of the "Environmental Weed Strategy" published by the Department of Conservation and Land Management (1999), and plants declared under section 37 of the *Agriculture and Related Resources Protection Act 1976*.

Kelly Faulkner
MANAGER
NATIVE VEGETATION CONSERVATION BRANCH

Officer delegated under Section 20
of the Environmental Protection Act 1986

10 February 2011

Department of Environment and Conservation

Clearing Permit Decision Report

1. Application details

1.1. Permit application details

Permit application No.: 4109/1
Permit type: Purpose Permit

1.2. Proponent details

Proponent's name: **Kimberly James Fewster**

1.3. Property details

Property: DOLA_LAND_DESCRIPTION
Local Government Area: LGA
Colloquial name: COLLOQUIAL_NAME

1.4. Application

Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:
6.55		Cutting	Miscellaneous

1.5. Decision on application

Decision on Permit Application: Grant
Decision Date: 27 January 2011

2. Site Information

2.1. Existing environment and information

2.1.1. Description of the native vegetation under application

Vegetation Description	Clearing Description	Vegetation Condition	Comment
The areas under application are mapped as the following J.S. Beard (1980) vegetation types. - Beard 1 being Karri forest, with about 80% pre-European extent remaining in the Warren bioregion in 2009. - Beard 2 being Tuart woodland, with about 60% pre-European extent remaining in the Swan Coastal Plain bioregion in 2009. - Beard 3 being Jarrah and Marri forest, with about 69% pre-European extent remaining in the Jarrah Forest bioregion and 80% in the Warren bioregion in 2009. - Beard 4 being Marri and Wandoo woodland, with about 30% pre-European extent remaining in the Jarrah Forest bioregion in 2009. - Beard 5 being Wandoo and Powderbark woodland, with about 46% pre-European extent remaining in the Avon Wheatbelt bioregion and 48% in the Jarrah Forest	The proposed clearing impacts a variety of vegetation associations.	Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)	The proposed clearing impacts approximately 0.05 hectare of regrowth within each of 131 apiary sites.

bioregion in 2009.

- Beard 6 being Tuart and Jarrah woodland, with about 25% pre-European extent remaining in the Scan Coastal Plain bioregion in 2009.

- Beard 9 being Coral Gum and Goldfields Blackbutt woodland, with about 99% pre-European extent remaining in the Coolgardie bioregion in 2009.

- Beard 27 being Paperbark woodland, with about 75% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 49 being Acacia and Casuarina thicket shrubland, with about 36% pre-European extent remaining in the Geraldton Sandplains bioregion in 2009.

- Beard 352 being York Gum woodland, with about 22% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 377 scrub-heath shrublands and Illyarrie woodland, with about 99% pre-European extent remaining in the Geraldton Sandplains bioregion in 2009.

- Beard 378 scrub-heath shrublands and Banksia, Coastal Blackbutt and Sandplain Woody Pear woodland, with about 64% pre-European extent remaining in the Geraldton Sandplains bioregion in 2009.

- Beard 379 being scrub-heath shrublands, with about 23% pre-European extent remaining in the Geraldton Sandplains bioregion in 2009.

- Beard 437 being mixed Acacia thicket shrublands, with about 82% pre-European extent remaining in the Avon Wheatbelt bioregion in 2009.

- Beard 511 being Salmon Gum and Morrel woodland, with about 93% pre-European extent remaining in the Coolgardie bioregion in 2009.

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)

- Beard 522 being Redwood and Merrit woodland, with about 100% pre-European extent remaining in the Coolgardie bioregion in 2009.

- Beard 940 being mallee scrub shrublands, Black Marlock shrublands and Tallerack mallee-heath, with about 46% pre-European extent remaining in the Esperance bioregion in 2009.

- Beard 949 being Banksia woodland, with about 58% pre-European extent remaining in the Swan Coastal Plain bioregion in 2009.

- Beard 965 being Jarrah and Marri woodland, with about 87% pre-European extent remaining in the Swan Coastal Plain bioregion in 2009.

- Beard 968 being Jarrah, Marri and Wandoo woodland, with about 51% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 992 being Jarrah and Wandoo forest, with about 26% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)

- Beard 998 being Tuart woodland, with about 38% pre-European extent remaining in the Swan Coastal Plain bioregion in 2009.

- Beard 999 being Marri woodland, with about 42% pre-European extent remaining in the Geraldton Sandplains bioregion in 2009.

- Beard 1000 being Jarrah and Marri forest with Banksia woodland and Melaleuca thicket, with about 27% pre-European extent remaining in the Scan Coastal Plain bioregion in 2009.

- Beard 1003 Jarrah, Marri and Wandoo forest, with about 45% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 1006 Jarrah, Wandoo and Powderbark woodland, with about 52% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 1007 Panjang and Coastal Honeymyrtle heath and Acacia rostellifera and Coastal Wattle thicket shrublands, with about 71% pre-European extent remaining in the Swan Coastal Plain bioregion in 2009.

- Beard 1015 mixed scrub-heath and Dryandra thicket shrublands, with about 33% pre-European extent remaining in the Swan Coastal Plain bioregion in 2009.

- Beard 1017 Jarrah, Marri and Banksia woodland, with about 76% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 1031 Dryandra and Hakea scrub-heath shrubland, with about 34% pre-European extent remaining in the Geraldton Sandplains bioregion in 2009.

- Beard 1114 Paperbark heath and Teatree thicket shrublands, with about 65% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

Degraded: Structure severely disturbed; regeneration to good condition requires intensive management (Keighery 1994)

- Beard 1144 Karri and Marri forest, with about 79% pre-European extent remaining in the Warren bioregion in 2009.

- Beard 1181 Jarrah and Mountain Marri woodland, with about 54% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 1182 Flooded Gum and Swamp Paperbark woodland, with about 44% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 1183 Flooded Gum and Blackbutt woodland with some Bullich, Jarrah and Marri, with about 85% pre-European extent remaining in the Jarrah Forest

bioregion in 2009.

- Beard 1184 Jarrah, Marri, Flooded Gum and Peppermint woodland, with about 42% pre-European extent remaining in the Jarrah Forest bioregion in 2009.

- Beard 1413 Acacia, Casuarina and Melaleuca thicket shrublands, with about 98% pre-European extent remaining in the Coolgardie bioregion in 2009.

3. Assessment of application against clearing principles

Comments

This application is for the proposed clearing of approximately 6.55 hectares of native vegetation across 131 sites within Crown lands within the local government areas of Armadale, Augusta-Margaret River, Beverley, Boddington, Boyup Brook, Busselton, Capel, Carnamah, Chittering, Collie, Coolgardie, Cuballing, Dandaragan, Dardanup, Gingin, Harvey, Jerramungup, Manjimup, Murray, Nannup, Narrogin, Serpentine-Jarrahdale, Swan, Wandering, Wanneroo, West Arthur, Williams, Yalgoo and York for the purpose of apiary site maintenance. The apiary sites are located within areas previously cleared for other purposes, and are authorised under the Conservation and Land Management Act 1984. The proposal affects approximately 0.05 hectare of regrowth within each apiary site. Assessment of a 10 kilometre radius around coordinates provided for each apiary site was undertaken.

Eleven of the apiary sites are located within vegetation associations that have 30% or less of their pre-clearing extent remaining in their bioregions. Six of the apiary sites are located within 200 metres of priority flora, a further eleven are within 500 metres of priority flora. One of the apiary sites is located within 200 metres of a priority ecological community (PEC), a further two are within one kilometre of PECs. Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on biological diversity. It is considered that the proposed clearing is not likely to be at variance with principle (a).

All of the apiary sites are likely to include habitat for indigenous fauna (including species of conservation significance), as they are located adjacent areas that generally contain extensive native vegetation cover. Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on significant fauna habitat. It is considered that the proposed clearing is not likely to be at variance with principle (b).

Two of the apiary sites are located within 400 metres of declared rare flora (DRF), a further three are within one kilometre of DRF. It is considered that the proposed clearing may be at variance with principle (c), however given the small scale of the proposed clearing the impacts are likely to be minimal.

One of the apiary sites is about 550 metres from a threatened ecological community (TEC), a further one is about 1.3 kilometres from a TEC. Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on the survival of TECs. It is considered that the proposed clearing is not likely to be at variance with principle (d).

All of the apiary sites are located adjacent areas that generally contain extensive native vegetation cover. Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on native vegetation in areas that are extensively cleared. It is considered that the proposed clearing is not likely to be at variance with principle (e).

Eight of the apiary sites are located within 50 metres of watercourses. Two of the apiary sites are located within 220 metres of conservation category wetlands. The proposed clearing within these apiary sites may include vegetation growing in association with a watercourse. It is considered that the proposed clearing may be at variance with principle (f), however given the small scale of the proposed clearing the impacts are likely to be minimal.

The apiary sites contain a variety of soil types including leached sands, calcareous sands, silaceous sands, brown sands, sands over ironstone gravels, laterite ironstone gravels, gypseous and saline loams with grey-brown highly calcareous earths, acidic or neutral or alkaline red or yellow earths, yellow mottled soils, yellow mottled soils, and brown and grey cracking clays. Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to cause appreciable land degradation. It is considered that the proposed clearing is not likely to be at variance with principle (g).

One hundred and thirteen of the apiary sites are located within DEC-managed estate. Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on the environmental values of conservation areas. It is considered that the proposed clearing is not likely to be at variance with principle (h).

Twenty five of the apiary sites are located within 200 metres of watercourses within Public Drinking Water Supply Areas (PDWSAs). The standard apiary site conditions state that apiary sites should be located a minimum distance of 200 metres from watercourses within PDWSAs (DEC 2007). Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on the quality of surface or underground water. It is considered that the proposed clearing is not likely to be at variance with principle (i).

Given that the apiary sites are located within previously cleared areas, the small scale of the proposed clearing within each apiary site is not expected to have an impact on the incidence or intensity of flooding. It is considered that the proposed clearing is not likely to be at variance with principle (j).

Methodology

References
- Keighery 1994
- Northcote 1960-68
- DEC 2007

GIS datasets
- Heddle Vegetation
- Interim Biogeographic Regionalisation of Australia
- Pre-European Vegetation
- Geomorphic Wetlands (Mgt Categories), Swan Coastal Plain
- Hydrography, linear (hierarchy) - DoW 2006
- Hydrographic Catchments - Subcatchments
- Public Drinking Water Source Areas - DOW 2006
- Soils, Statewide
- DEC Managed Lands and Waters
- SAC biodatasets (accessed 04/01/11)

Planning instrument, Native Title, Previous EPA decision or other matter.

Comments

A submission was received objecting to clearing for apiary sites on the grounds that clearing may not be warranted and introduced bees pose a risk to native species (DEC ref. A360848). These issues are largely outside the scope of DEC's assessment of the impacts of proposed clearing. However DEC recognises that the Beekeeper's Code of Practice (currently in preparation) and the Standard Apiary Site Conditions address the issues raised in the submission.

Submissions were received from the City of Armadale (DEC ref. A360235), Shire of Beverley (DEC ref. A360656), Shire of Boddington (DEC ref. A360846), Shire of Nannup (DEC ref. A360782), Shire of Narrogin (DEC ref. A360786), Shire of Harvey (DEC ref. A361242), Shire of Dardanup (DEC ref. A361394), Shire of Gingin (DEC ref. A361402), Shire of Collie (DEC ref. A362020), and Shire of Wandering (DEC ref. A362347). The City of Armadale advised that there may be a requirement for approval by the Western Australian Planning Commission (WAPC). The Shire of Beverley advised that under its Town Planning Scheme No.2 planning approval is required since the activity is classified as an intensive agricultural pursuit. The applicant should ensure compliance with any WAPC and local government requirements.

Eleven of the apiary sites are located within Aboriginal Sites of Significance, a further nine are within 200 metres of Aboriginal Sites of Significance. The applicant should ensure compliance with any obligations under the Aboriginal Heritage Act 1972.

Fifty two of the apiary sites are located within PDWSAs, and twenty five of these are within 200 metres of watercourses. Eighty two of the apiary sites are located within Rights in Water and Irrigation Act 1914 areas, and twenty of these are within 200 metres of watercourses. Twenty of the apiary sites are located within Country Areas Water Supply Act 1947 areas, and ten of these are within 200 metres of watercourses. The applicant should ensure compliance with any Department of Water requirements.

In relation to the proximity of apiary sites to declared rare and priority flora, there may be requirements under the Wildlife Conservation Act 1950 and/or the Commonwealth Environment Protection and Biodiversity Conservation Act 1999. The applicant should ensure compliance with any requirements under this legislation.

Methodology

GIS databases:
- Aboriginal Sites of Significance
- Hydrographic Catchments - Subcatchments
- CAWS Act, Clearing Control Catchments - DOW 2006
- Public Drinking Water Source Areas - DOW 2006

- RIWI Act, Rivers - DOW 1999
- RIWI Act, Areas - DOW 2002
- RIWI Act, Groundwater Areas - DOW 1998

4. References

DEC (2007) Standard Apiary Site Conditions. Department of Environment and Conservation, Kensington.

DEC / DAFWA (2009) CAR Reserve Analysis spreadsheet. Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia, Technical Report 249, Department of Agriculture Western Australia, South Perth.

Department of Agriculture (2002). Soil Groups of Western Australia. A simple guide to the main soils of Western Australia. Resource Management Technical Report 246. Edition 3.

Heddle, E. M., Loneragan, O. W., and Havel, J. J. (1980) Vegetation Complexes of the Darling System, Western Australia. In Department of Conservation and Environment, Atlas of Natural Resources, Darling System, Western Australia.

Keighery, B.J. (1994) Bushland Plant Survey: A Guide to Plant Community Survey for the Community. Wildflower Society of WA (Inc). Nedlands, Western Australia.

Northcote, K. H. with Beckmann G G, Bettenay E., Churchward H. M., van Dijk D. C., Dimmock G. M., Hubble G. D., Isbell R. F., McArthur W. M., Murtha G. G., Nicolls K. D., Paton T. R., Thompson C. H., Webb A. A. and Wright M. J. (1960-68): 'Atlas of Australian Soils, Sheets 1 to 10, with explanatory data'. CSIRO and Melbourne University Press: Melbourne.

Shepherd, D.P. (2007) Adapted from: Shepherd, D.P., Beeston, G.R., and Hopkins, A.J.M. (2001), Native Vegetation in Western Australia. Technical Report 249. Department of Agriculture Western Australia, South Perth.

5. Glossary

Term	Meaning
BCS	Biodiversity Coordination Section of DEC
CALM	Department of Conservation and Land Management (now BCS)
DAFWA	Department of Agriculture and Food
DEC	Department of Environment and Conservation
DEP	Department of Environmental Protection (now DEC)
DoE	Department of Environment
DoIR	Department of Industry and Resources
DRF	Declared Rare Flora
EPP	Environmental Protection Policy
GIS	Geographical Information System
ha	Hectare (10,000 square metres)
TEC	Threatened Ecological Community
WRC	Water and Rivers Commission (now DEC)