

IRISHTOWN ROAD SLK0-1 CLEARING ZONE



Irishtown Road Clearing Permit



Background




For the purpose of obtaining clearing permit for Irishtown road SLK 0.00 -1.00 a shapefile depicting the road clearing area for the Irishtown Road widening project was utilised to run an EPT query on the area that will potentially be cleared.










An EPT desktop assessment for Clearing Native Vegetation was run on this area. A full report has also been provided however the following is the summary.

The total area was calculated to be 0.73ha (EPT calculation).

The EPT summary table

Desktop assessment against clearing principles:

 Likely to be at variance
  May be at variance
  Not likely to be at variance

Clearing Principle	Impact	Reason	Action Required
Principle (a) - High biodiversity		Principle (b) red impact. Principle (e) red impact.	
Principle (b) - Significant habitat for fauna		Specially Protected Fauna within 20km.	
Principle (c) - Habitat for rare flora		Declared Rare Flora within 20km.	Ground survey for vegetation condition and tree hollows in the application area may raise flag status.
Principle (d) - Habitat for TECs		Threatened Ecological Community (buffer) within 20km.	
Principle (e) - Significant remnant in an extensively cleared area		Beard association less than 30% extent remaining within IBRA regions.	
Principle (f) - Growing in association with a watercourse or wetland		Application area is within 200m of a Dept of Water mapped natural hydrographic feature.	
Principle (g) - Likely to cause appreciable land degradation			
Principle (h) - Impacts to conservation area			
Principle (i) - Deterioration in the quality of surface or underground water		Application area: is within 200m of a Dept. of Water mapped natural hydrographic feature.	

This table shows the location to be likely at variance for principle (a), (b) and (e).

Principle (b) - Significant habitat for fauna

Using the data provided, a matrix was developed to highlight the number of protected fauna species and the distance from the location. This is shown below.

	Mammal	Bird	Invertebrate
VU	10	8	10
distance	1070m	8335m	1401m
EN		22	
distance		1287m	
OS		2	
distance		12177m	
IA		7	
distance		5892	
EX	1		
distance	18498m		

KEY	
VU	Vulnerable
EN	Endangered
OS	?
IA	Migratory birds protected under international agreement
EX	Presumed extinct

This table shows that the 22 endangered species are all birds and that the nearest was recorded 1.2km from the location. There were 28 vulnerable species composed of 8 birds, 10 mammals and 10 invertebrates. The closest was just over 1km from the location. There was 7 species of migratory bird that are internationally protected and this closest was recorded 5.8kms. Using this information it is reasonable to concluded that the proximity of the road from the Avon River maybe capturing these species.

In relation to the flora in the area there was 35 vulnerable, 9 priority 2, 5 priority 3 and 33 priority 4 species. The EPT report listed the nearest species at 8km from the location (priority 4 species). It would be reasonable to suggest in the DWER application that there would be minimal impact to the listed priority flora species.

Given the distance of the nearest priority species the shire felt it did not warrant a ground vegetation survey for the proposed road widening. Subsequently, a report based on survey completed by an arborist is attached with the application, which identify the trees needed to be removed within the clearing zone and corresponding health and age of each tree.

Principle (c) Habitat for rare flora

In the EPT summary table it suggests under action required that:

Ground survey for vegetation condition and tree hollows in the application area may raise flag status (in the action required column).

In the EPT report 35 vulnerable flora species were recorded under the principle (c) section. The nearest species recorded was at 5.95km.

Principle (d) Habitat for TECs

There were no threatened ecological communities recorded within 20km's of the location.

Principle (e) - Significant remnant in an extensively cleared area

This refers to vegetation complex 352. The area of concern along the road encompasses 0.14ha of this vegetation complex.



The following information has been extracted from the Biodiversity Strategy to highlight the significance of vegetation complex 352.

"Vegetation complex 352 = medium woodland; York gum.

IBRA = 17.36% remaining protected

Beard = 11.41% remaining protected

10 percent and 30 percent are accepted as biodiversity conservation thresholds in Australia and Western Australia. Research indicates that to maintain sustainable levels of biodiversity, at least 30 percent of each ecological community should be retained at strategic locations across a landscape.

An ecological community is considered threatened when 10 percent or less of the pre-European extent remains (Environmental Protection Authority, 2008; Del Marco et al, 2004; Department of Natural Resources and Environment, 2002)."

The current retention and protection status of native vegetation is below the state and the national policy accepted thresholds of 10% and 30% of pre-clearing extent so any future clearing should be avoided.

This area has been highlighted as an area of significance in the EPT although this pocket of vegetation may not be the best representation of this type of vegetation complex due to the fact that it is surrounded by crop and that the vegetation complex itself appears park land cleared within the road reserve and the adjacent property.

The arborist report attached with the application has identified the trees to be cleared which are falling under complex 352 vegetation zone. The large part of vegetation falls across the fence which is under private property and road widening will be restricted to road reserve area only.

Principle (f) - Growing in association with a watercourse or wetland

The works to be completed is 97m from the Avon River and should have no impact on the river.

Principle (g) - Likely to cause appreciable land degradation

Principle not flagged.

Principle (h) - Impacts to conservation area

Principle not flagged.

Principle (i) - Deterioration in the quality of surface or underground water.

Application area is within 200m of a Department of Water mapped natural hydrographic feature. The works to be completed is 97m from the Avon River and should have no impact on the river.

rishtown Rd

.legend

rishtown Road line

rishtown road line

rishtown Rd proposed widening

threatened and Priority Flora

FA Herbarium Records

threatened and Priority Fauna

populated Places

potential Target Areas

locally Protected Reserves

local Government Authority

state Roads

other Roads

hydrography

environmental Vegetation by Beard Association

zoom in to see remnant vegetation

labelled by Beard Association



rishtown Rd

.legend

- rishtown Road line
- rishtown road line
- rishtown Rd proposed widening

hreatened and Priority Flora

/A Herbarium Records

hreatened and Priority Fauna

opulated Places

otential Target Areas

oadside Conservation Values - Left

- Low (0-4)
- Medium Low (5-6)
- Medium High (7-8)
- High (9-12)

oadside Conservation Values - Right

- Low (0-4)
- Medium Low (5-6)
- Medium High (7-8)
- High (9-12)

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rishtown Rd

.legend

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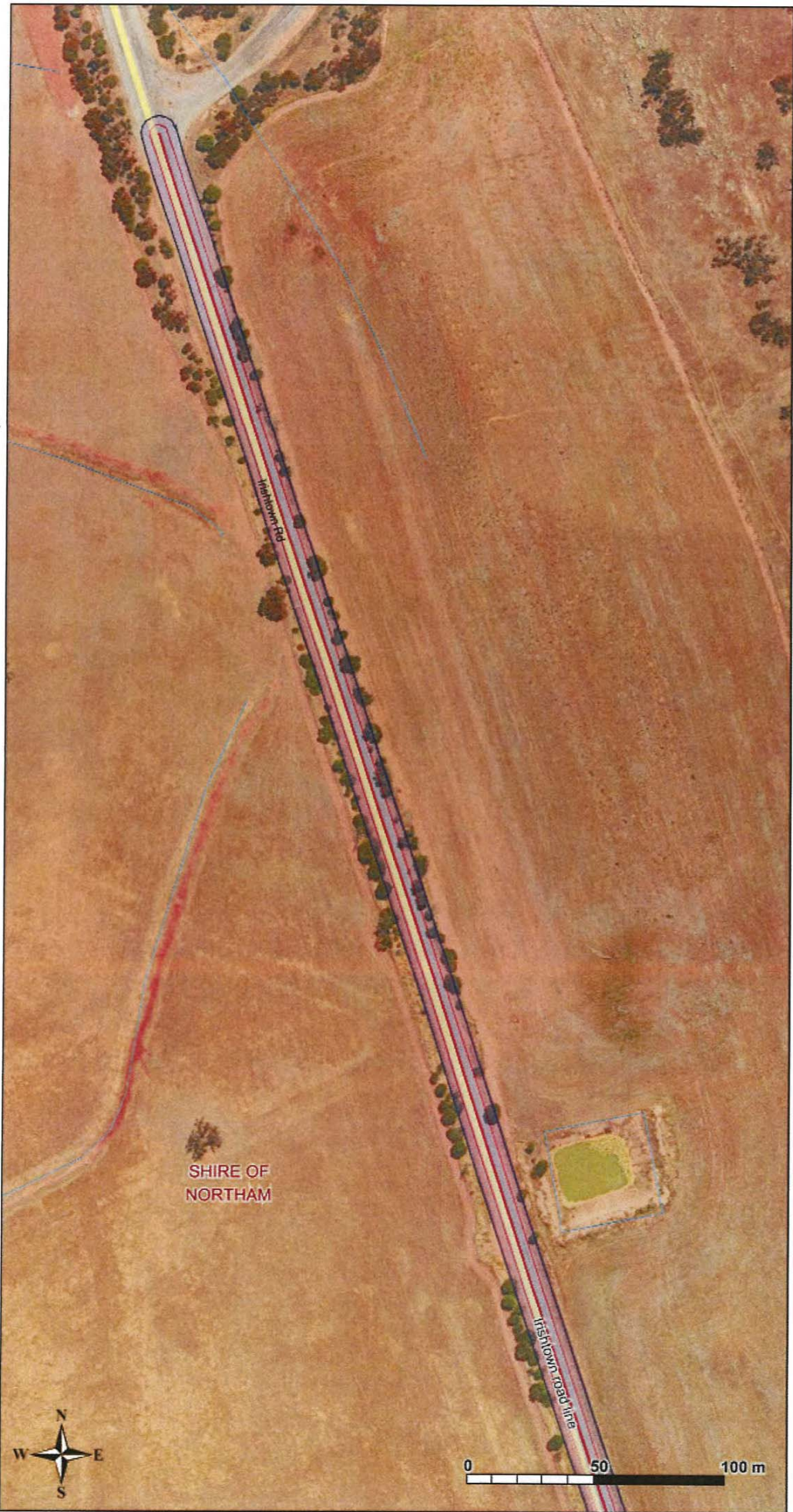
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Desktop Assessment Report for Native Vegetation Clearing Application

Report generated: Mon Feb 26 14:09:31 EST 2018

Please complete the details below:

Applicant:

Your reference:

Property: Lot 0 , , 0 (PIN: 11333526)

Lot 0 , , 0 (PIN: 11333530)

Lot 0 , , 0 (PIN: 1260732)

35(L411) NORTHAM-PITHARA RD, IRISHTOWN, 6401 (PIN: 1355147)

Lot 29395 , , 0 (PIN: 1364980)

LGA: NORTHAM, SHIRE OF

Proposed Clearing: 0.73hectares ____ trees

Purpose:

Land Tenure:

Buffer distance: 20km

Notes

- This report is designed for Local Government (LGA) Strategic Purpose Permit holders and to support Local Governments with native vegetation clearing permit applications.
- This report is a desktop study and does not replace a site assessment
- The information generated in this report is correct to the best of WALGA's knowledge. WALGA takes no responsibility for decisions made using this report.
- Further information on how to interpret the datasets is available in the [Explanatory Notes](#).
- Further information about the clearing principles is available from the [Department of Environment Regulation \(DER\)](#) "*A guide to the assessment of applications to clear native vegetation*".

Interpreting this report

- This report will assist the user to determine if the proposed clearing is 'at variance', 'may be at variance', 'not likely to be at variance' or 'not at variance' to any of the clearing principles contained Schedule 5 of the Environmental Protection Act 1986 (EP Act).
- If using this report to complete an assessment as part of your desktop study under your Strategic Purpose Permit and an 'at variance' result is produced, you may refer

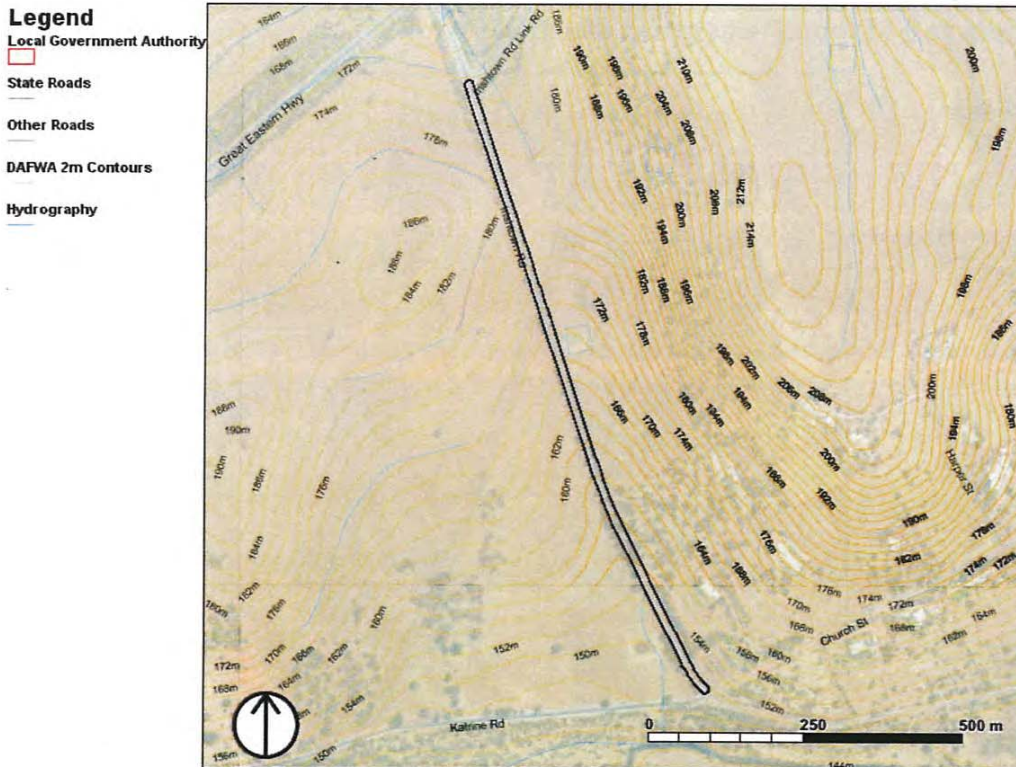
your application to DER for clarification. Please use the template referral email located here (link to the template I have prepared). Please note that the Strategic Purpose Permit applies to clearing that is 'not at variance' or 'not likely to be at variance' to any of the clearing principles proposed clearing that 'may be at variance' or 'is at variance' will need to be referred to DER for review.

- If using this report as supporting information for a clearing permit application, please email this report, a covering sheet and accompanying shapefile with the application form and [payment](#) to the [DER](#)
 - If you are unsure about the levels of variance identified in this report and require further clarification, please seek further advice from DER by submitting a [referral form](#) via [email](#) or alternatively phone (08) 9333 7469.
 - The 'may be at variance' and 'at variance' levels determined in this report identifies that a clearing principle requires further attention. A more detailed assessment (including a site visit may be required) and further identification of impacts may alter the variance levels. If you wish to seek clarification on the altered variance level, please seek advice from your Local Government Environment Team in the first instance and DER through the [referral request](#).
- NB: Any actions you take should be accounted for and recorded. This information should be provided in your annual report and is subject to DER auditing.

Distance and area calculations are performed using the following map projection:
EPSG:28350

1 Background details

1.1 Site details



Property:

Lot 0 , , 0 (PIN: 11333526)
Lot 0 , , 0 (PIN: 11333530)
Lot 0 , , 0 (PIN: 1260732)
35(L411) NORTHAM-PITHARA RD,
IRISHTOWN, 6401 (PIN: 1355147)
Lot 29395 , , 0 (PIN: 1364980)

Local Government Authority:

NORTHAM, SHIRE OF

DER Region:

WHEATBELT

DPaW District:

CENTRAL WHEATBELT

LCDC:

NORTHAM

GPS coordinates lat/long:

31.6318S,116.6641E

Environmentally Sensitive Area:

null

EPA Position Statement No.2 Area:

y

EPA Red Book Area:

null

Country Areas Water Supply Act 1947 -

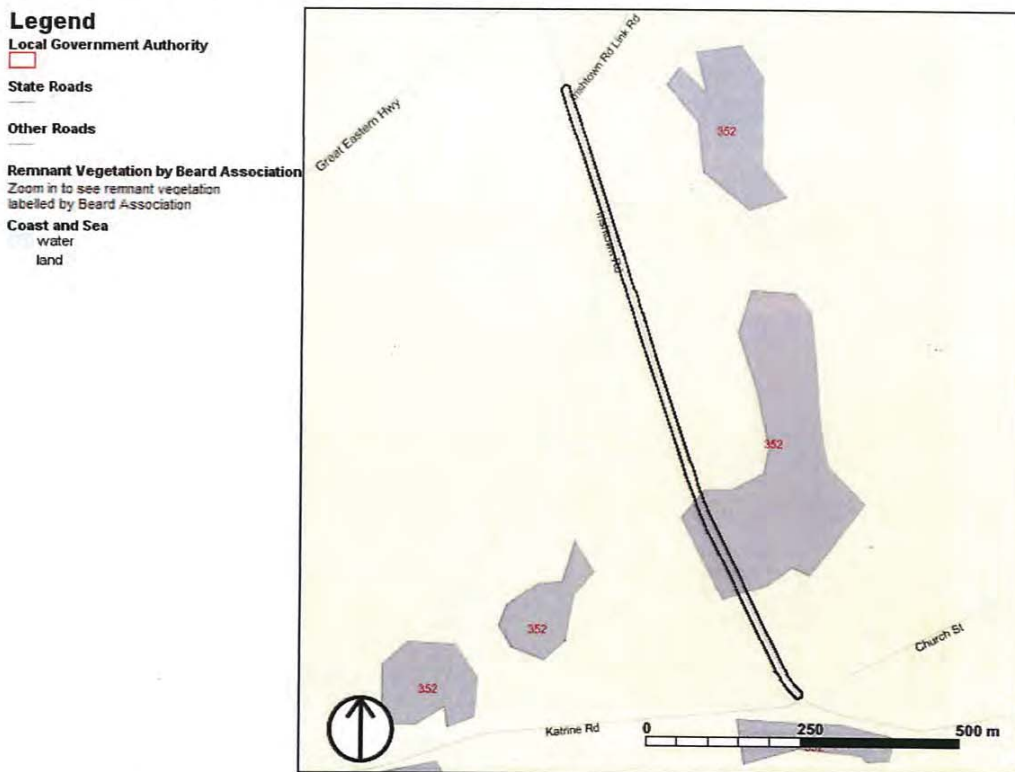
No

Clearing Control Catchment:

Rights in Water and Irrigation Act 1914 area: No

Clearing Area (ha): 1.46

1.2 (Principle (e)) Mapped vegetation description



Interim Biogeographic Regionalisation for Australia (IBRA) region:
Avon Wheatbelt / Katanning(AVW02)

Beard vegetation associations by IBRA region:

IBRA Region	Association	Rarity %	Area (ha)
Avon Wheatbelt	352	17.36	0.24

Beard vegetation associations by Local Government Authority:

LGA	Association	Rarity %	Area (ha)
Northam	352	11.41	0.24

1.3 Geoscientific information

Rainfall (mm): 460

Evapotranspiration (mm):	419
Elevation (topographic contours) m:	150, 152, 164, 166, 168, 170, 172, 174, 176, 178, 180, 154, 156, 158, 160, 162
Geology:	Banded granitic gneiss (monzogranitic to granodioritic), quartzofeldspathic gneiss with mafic bands, migmatite, granofels, mafic and felsic granulites, hypersthene-plagioclase-quartz granulite; schist, pelitic or mafic granofels 1.46 ha
Soils:	Jelcobine York Subsystem (256JcY0): Areas of soils derived from freshly exposed rock. This unit is typified by the red soils of the Avon Valley but also includes areas of similar, but often greyer and lighter textured soils to the east of the valley. - 1.46 ha

1.4 Other Considerations

Department of Aboriginal Affairs heritage sites: Yes

Time Constraints (please complete)

Funding (Y/N):

Seasonal (Y/N):




Hazard Reduction (Y/N):




Other:

2 Assessment of clearing principles

2.1 Identified Potential Impacts Summary

Desktop assessment against clearing principles:

 Likely to be at variance
  May be at variance
  Not likely to be at variance

Clearing Principle	Impact	Reason	Action Required
Principle (a) - High biodiversity		Principle (b) red impact. Principle (e) red impact.	
Principle (b) - Significant habitat for fauna		Specially Protected Fauna within 20km.	
Principle (c) - Habitat		Declared Rare Flora	Ground survey for

for rare flora

within 20km.

vegetation condition and tree hollows in the application area may raise flag status.

Principle (d) - Habitat for TECs



Threatened Ecological Community (buffer) within 20km.

Principle (e) - Significant remnant in an extensively cleared area



Beard association less than 30% extent remaining within IBRA regions.

Principle (f) - Growing in association with a watercourse or wetland



Application area is within 200m of a Dept of Water mapped natural hydrographic feature.

Principle (g) - Likely to cause appreciable land degradation



Principle (h) - Impacts to conservation area



Principle (i) - Deterioration in the quality of surface or underground water



Application area: is within 200m of a Dept of Water mapped natural hydrographic feature.

The following section lists the data used to inform the assessment against clearing principles. Further information might be available for your application site in specific project reports or site specific assessments that you might like to attach to this desktop assessment.

2.1 Principle (a) Native vegetation should not be cleared if it comprises a high level of biological diversity

Specially Protected Fauna

The following fauna record counts have been located within 20km of the application area:

Class	Rank	No. records
MAMMAL	EX	1
BIRD	P1	2
BIRD	OS	2

BIRD	P3	2
INVERTEBRATE	VU	10
BIRD	IA	7
MAMMAL	VU	10
BIRD	EN	22
MAMMAL	P4	1
BIRD	VU	8

Key to conservation status ranking:

EX = Presumed Extinct

EN = Endangered

CR = Critically Endangered

VU = Vulnerable

P1-5 = Priority 1 to 5 fauna

Priority Fauna

The following priority fauna records have been located within 20km of the application area:

SOURCE_ID	Class	Rank	Certainty	Distance (m)
3841	BIRD	P1	Certain	1408
3772	BIRD	P3	Certain	7265
3771	BIRD	P3	Certain	12121
11879	BIRD	P1	Certain	12121
10623	MAMMAL	P4	Certain	16733

Specially Protected Flora

The following flora record counts have been located within 20km of the application area:

ConsStatus	WARank	No. records
-	VU	35
Priority 2		9
Priority 3		5
Priority 4		33

Key to the Conservation Status:

CR - Critically Endangered

EN - Endangered

VU - Vulnerable

1 = Priority 1: Poorly Known Taxa

2 = Priority 2: Poorly Known Taxa

3 = Priority 3: Poorly Known Taxa

4 = Priority 4: Rare Taxa

Priority Flora

The following priority flora records have been located within 20km of the application area:

Popn Id	Priority	Proximity (m)
93595	Priority 4	7921
93594	Priority 4	8358
103486	Priority 4	9023
103485	Priority 4	9694
104225	Priority 2	12749
104224	Priority 2	12749
91429	Priority 4	13084
102141	Priority 4	13252
102140	Priority 4	13252
102139	Priority 4	13252
102138	Priority 4	13252
102137	Priority 4	13252
84972	Priority 4	13369
87135	Priority 3	13371
91428	Priority 4	13507
91425	Priority 4	15795
89947	Priority 2	16039
97743	Priority 2	16144
97742	Priority 2	16315
99018	Priority 4	16498
99014	Priority 4	16498
89824	Priority 4	16548
103482	Priority 4	16643
89946	Priority 2	16649
91426	Priority 4	16685
84985	Priority 4	16720
103483	Priority 4	16748
99017	Priority 4	16765
99013	Priority 4	16817
99016	Priority 4	16834
94938	Priority 2	16845

85968	Priority 4	16916
90121	Priority 3	16995
91431	Priority 4	17068
91430	Priority 4	17115
94202	Priority 4	17194
91424	Priority 4	17408
99015	Priority 4	17707
86833	Priority 3	17862
87162	Priority 2	17952
90125	Priority 3	17963
86292	Priority 3	18096
91427	Priority 4	18173
87000	Priority 4	18243
99021	Priority 4	19059
99020	Priority 4	19059
85462	Priority 2	19925

Threatened Ecological Communities

The following threatened ecological community records have been located within 20km of the application area:

Ranking	Count
Priority 3	1541
Priority 1	1

Priority Ecological Communities

The following priority ecological community records have been located within 20km of the application area:

Record ID	Ranking	Proximity (m)
60224	Priority 3	0
59649	Priority 3	0
59645	Priority 3	0
58506	Priority 3	0
58098	Priority 3	36
57252	Priority 3	238
57955	Priority 3	297
58507	Priority 3	343
57253	Priority 3	424

58100	Priority 3	472
58244	Priority 3	557
56989	Priority 3	573
58097	Priority 3	768
58736	Priority 3	827
58505	Priority 3	861
56995	Priority 3	897
59641	Priority 3	977
58165	Priority 3	1015
58095	Priority 3	1029
57953	Priority 3	1150
60222	Priority 3	1164
57704	Priority 3	1166
56990	Priority 3	1179
58467	Priority 3	1247
58252	Priority 3	1276
58166	Priority 3	1283
59504	Priority 3	1379
58245	Priority 3	1396
56991	Priority 3	1410
60220	Priority 3	1430
58468	Priority 3	1450
58728	Priority 3	1564
58734	Priority 3	1572
60315	Priority 3	1580
59747	Priority 3	1634
63100	Priority 3	1656
58729	Priority 3	1657
59503	Priority 3	1666
58730	Priority 3	1681
57251	Priority 3	1709
57707	Priority 3	1851
56988	Priority 3	1862
59746	Priority 3	1874
58243	Priority 3	1951
59744	Priority 3	1964

62129	Priority 3	2076
58250	Priority 3	2148
57686	Priority 3	2190
60321	Priority 3	2255
60322	Priority 3	2347
63101	Priority 3	2379
64289	Priority 3	2395
60323	Priority 3	2412
57687	Priority 3	2415
63861	Priority 3	2455
62130	Priority 3	2464
58094	Priority 3	2547
57699	Priority 3	2569
57958	Priority 3	2585
58463	Priority 3	2685
58154	Priority 3	2710
64290	Priority 3	2747
57706	Priority 3	2792
63857	Priority 3	2802
57818	Priority 3	2866
58732	Priority 3	2879
60319	Priority 3	2896
60831	Priority 3	2900
60221	Priority 3	3010
58247	Priority 3	3011
57705	Priority 3	3011
60832	Priority 3	3066
61343	Priority 3	3139
61342	Priority 3	3225
58168	Priority 3	3244
61524	Priority 3	3263
57683	Priority 3	3265
61771	Priority 3	3306
58169	Priority 3	3337
61693	Priority 3	3376
63863	Priority 3	3389

58508	Priority 3	3414
62972	Priority 3	3418
63543	Priority 3	3435
59650	Priority 3	3439
57959	Priority 3	3453
60225	Priority 3	3470
63544	Priority 3	3526
63545	Priority 3	3543
58090	Priority 3	3616
60318	Priority 3	3622
62102	Priority 3	3634
59498	Priority 3	3646
58416	Priority 3	3680
60696	Priority 3	3698
56896	Priority 3	3711
56993	Priority 3	3711
59442	Priority 3	3778
61344	Priority 3	3791
60833	Priority 3	3795
55995	Priority 3	3831
55900	Priority 3	3835
56880	Priority 3	3852
57682	Priority 3	3951
58099	Priority 3	3962
57250	Priority 3	3963
55899	Priority 3	3973
62973	Priority 3	4016
59648	Priority 3	4023
59643	Priority 3	4038
63546	Priority 3	4041
60248	Priority 3	4052
58142	Priority 3	4053
64284	Priority 3	4075
59647	Priority 3	4125
62034	Priority 3	4130
57954	Priority 3	4132

59646	Priority 3	4137
59644	Priority 3	4160
58408	Priority 3	4186
58096	Priority 3	4246
63405	Priority 3	4247
61351	Priority 3	4305
56984	Priority 3	4312
57249	Priority 3	4313
55996	Priority 3	4322
57681	Priority 3	4329
63858	Priority 3	4389
58164	Priority 3	4476
62311	Priority 3	4482
63934	Priority 3	4496
61345	Priority 3	4580
59443	Priority 3	4600
57684	Priority 3	4620
57698	Priority 3	4620
61525	Priority 3	4711
62032	Priority 3	4744
60223	Priority 3	4751
60441	Priority 3	4775
61350	Priority 3	4783
58163	Priority 3	4819
55897	Priority 3	4832
60245	Priority 3	4926
63933	Priority 3	4945
62033	Priority 3	4949
60835	Priority 3	4964
62035	Priority 3	5028
59499	Priority 3	5040
56898	Priority 3	5142
56986	Priority 3	5173
63932	Priority 3	5190
57887	Priority 3	5210
56985	Priority 3	5231

58466	Priority 3	5242
59745	Priority 3	5244
63010	Priority 3	5251
61526	Priority 3	5284
57702	Priority 3	5291
58382	Priority 3	5292
59441	Priority 3	5303
61876	Priority 3	5311
55898	Priority 3	5315
58415	Priority 3	5336
58140	Priority 3	5341
59500	Priority 3	5344
58733	Priority 3	5370
59187	Priority 3	5370
63009	Priority 3	5378
58141	Priority 3	5401
63931	Priority 3	5429
60320	Priority 3	5441
59642	Priority 3	5458
61619	Priority 3	5466
56992	Priority 3	5489
59501	Priority 3	5492
62310	Priority 3	5509
58167	Priority 3	5529
56879	Priority 3	5538
63403	Priority 3	5587
56895	Priority 3	5672
64222	Priority 3	5678
56897	Priority 3	5722
58414	Priority 3	5723
60821	Priority 3	5730
58092	Priority 3	5744
61608	Priority 3	5758
57700	Priority 3	5782
57703	Priority 3	5796
58381	Priority 3	5815

60440	Priority 3	5833
56994	Priority 3	5834
58093	Priority 3	5849
62309	Priority 3	5851
61346	Priority 3	5852
63930	Priority 3	5858
64221	Priority 3	5859
60246	Priority 3	5862
63008	Priority 3	5865
58249	Priority 3	5889
59640	Priority 3	5890
58411	Priority 3	5897
61617	Priority 3	5900
59189	Priority 3	5903
64220	Priority 3	5915
59507	Priority 3	5917
61618	Priority 3	5928
57680	Priority 3	5987
61395	Priority 3	5999
60439	Priority 3	6005
58731	Priority 3	6020
58251	Priority 3	6023
61772	Priority 3	6057
59191	Priority 3	6066
62307	Priority 3	6076
61520	Priority 3	6186
58409	Priority 3	6230
61347	Priority 3	6233
60834	Priority 3	6240
58246	Priority 3	6276
64219	Priority 3	6290
61878	Priority 3	6320
61877	Priority 3	6358
58248	Priority 3	6380
62970	Priority 3	6461
56894	Priority 3	6499

59186	Priority 3	6560
58378	Priority 3	6572
60316	Priority 3	6572
61773	Priority 3	6577
59185	Priority 3	6604
57685	Priority 3	6607
62308	Priority 3	6626
63547	Priority 3	6640
57254	Priority 3	6663
56987	Priority 3	6668
64218	Priority 3	6701
58089	Priority 3	6712
61694	Priority 3	6723
57956	Priority 3	6742
57957	Priority 3	6797
58380	Priority 3	6854
58462	Priority 3	6877
60247	Priority 3	6954
64287	Priority 3	7009
61698	Priority 3	7044
59506	Priority 3	7052
58464	Priority 3	7059
60229	Priority 3	7066
57882	Priority 3	7068
64217	Priority 3	7101
61349	Priority 3	7108
61550	Priority 3	7270
60313	Priority 3	7285
61527	Priority 3	7289
59502	Priority 3	7313
60328	Priority 3	7323
60027	Priority 3	7338
60314	Priority 3	7351
57960	Priority 3	7403
63862	Priority 3	7418
57765	Priority 3	7533

60438	Priority 3	7560
62735	Priority 3	7597
63359	Priority 3	7665
55896	Priority 3	7669
64288	Priority 3	7695
57697	Priority 3	7707
61397	Priority 3	7719
60435	Priority 3	7756
61353	Priority 3	7756
62736	Priority 3	7763
60227	Priority 3	7783
61528	Priority 3	7794
61614	Priority 3	7807
57257	Priority 3	7811
57690	Priority 3	7813
59445	Priority 3	7819
60436	Priority 3	7827
57962	Priority 3	7856
60434	Priority 3	7858
59823	Priority 3	7869
58513	Priority 3	7908
57766	Priority 3	7931
61824	Priority 3	7935
58877	Priority 3	7948
60820	Priority 3	7965
63965	Priority 3	8038
55895	Priority 3	8042
63865	Priority 3	8047
56572	Priority 3	8085
57688	Priority 3	8087
62737	Priority 3	8097
61548	Priority 3	8101
60581	Priority 3	8127
64286	Priority 3	8146
64216	Priority 3	8158
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57628	Priority 3	16358
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56719	Priority 3	16419
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57338	Priority 3	16466
62393	Priority 3	16469
56890	Priority 3	16473
62092	Priority 3	16492
57941	Priority 3	16504
62370	Priority 3	16505
63190	Priority 3	16506
62725	Priority 3	16528

61542	Priority 3	16528
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61963	Priority 3	16535
61427	Priority 3	16542
60154	Priority 3	16549
63079	Priority 3	16553
63935	Priority 3	16556
63512	Priority 3	16557
58023	Priority 3	16566
56889	Priority 3	16577
56893	Priority 3	16579
58195	Priority 3	16579
62453	Priority 3	16589
58797	Priority 3	16590
59173	Priority 3	16591
63891	Priority 3	16594
62977	Priority 3	16609
63984	Priority 3	16630
60554	Priority 3	16660
59566	Priority 3	16663
62109	Priority 3	16667
57874	Priority 3	16670
57293	Priority 3	16677
60487	Priority 3	16681
63983	Priority 3	16681
63954	Priority 3	16682
58289	Priority 3	16686
64267	Priority 3	16691
64309	Priority 3	16722
56118	Priority 3	16727
62140	Priority 3	16744
61884	Priority 3	16766
63778	Priority 3	16774
56757	Priority 3	16781
56554	Priority 3	16789
63235	Priority 3	16791

58875	Priority 3	16795
57132	Priority 3	16803
58686	Priority 3	16817
63394	Priority 3	16829
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63369	Priority 3	16830
60289	Priority 3	16845
56887	Priority 3	16846
57003	Priority 3	16854
59817	Priority 3	16856
60778	Priority 3	16866
55904	Priority 3	16872
59935	Priority 3	16884
64243	Priority 3	16897
63179	Priority 3	16905
58679	Priority 3	16908
55952	Priority 3	16915
63192	Priority 3	16915
55902	Priority 3	16916
57436	Priority 3	16932
62328	Priority 3	16936
60944	Priority 3	16937
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59670	Priority 3	17179
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62139	Priority 3	17219
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60776	Priority 3	17242
56758	Priority 3	17245
62335	Priority 3	17250
62323	Priority 3	17269
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61881	Priority 3	17272
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62527	Priority 3	17294
63711	Priority 3	17298
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62907	Priority 3	17310
62601	Priority 3	17330
62606	Priority 3	17350
62358	Priority 3	17351
60697	Priority 3	17351
56888	Priority 3	17362
60291	Priority 3	17402
63180	Priority 3	17408
57973	Priority 3	17409
60559	Priority 3	17422
63071	Priority 3	17435

61137	Priority 3	17464
58872	Priority 3	17473
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62729	Priority 3	17499
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64322	Priority 3	17537
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64244	Priority 3	17543
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63990	Priority 3	17597
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62417	Priority 3	17604
60195	Priority 3	17604
63340	Priority 3	17611
62542	Priority 3	17616
60587	Priority 3	17662
63185	Priority 3	17663
61431	Priority 3	17669
58794	Priority 3	17675
61852	Priority 3	17686
57430	Priority 3	17694
63999	Priority 3	17697
58105	Priority 3	17700
62680	Priority 3	17708
63184	Priority 3	17713
61212	Priority 3	17720
56809	Priority 3	17724
57135	Priority 3	17729
59638	Priority 3	17730
62202	Priority 3	17734
59849	Priority 3	17736
60578	Priority 3	17754
60936	Priority 3	17761
57605	Priority 3	17764
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59669	Priority 3	17765
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57177	Priority 3	17971
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57291	Priority 3	18009
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56807	Priority 3	18806
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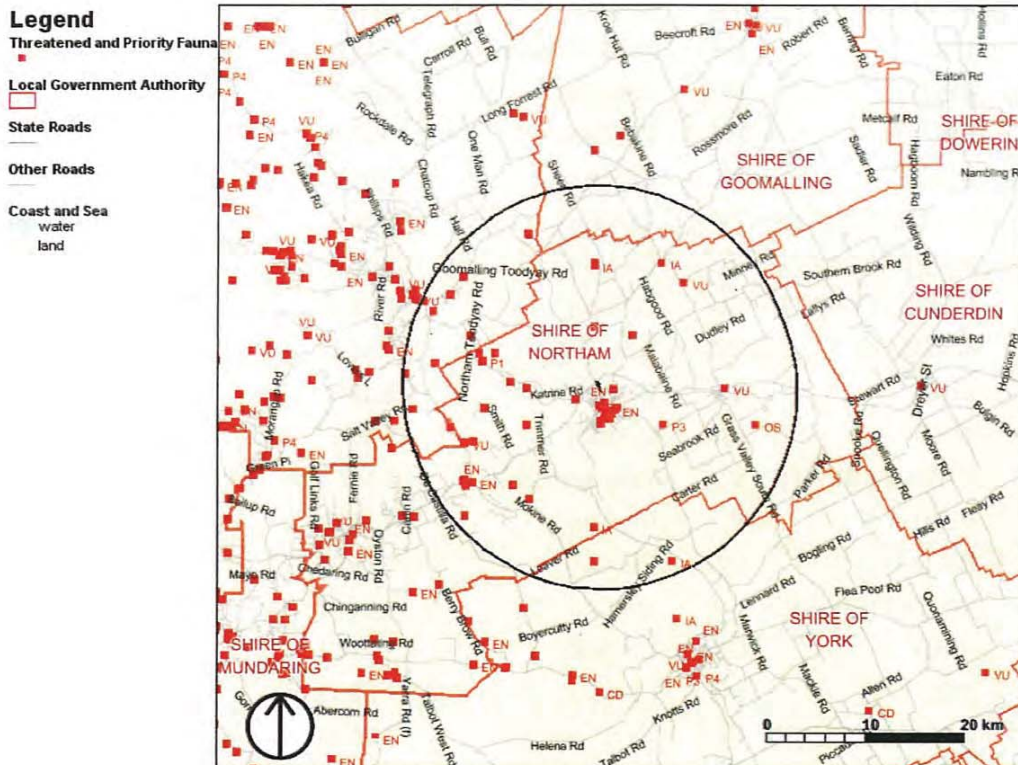
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63449	Priority 3	19909
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52506	Priority 3	19956
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56574	Priority 3	19961
60009	Priority 3	19967
60775	Priority 3	19984
60200	Priority 3	19988
53874	Priority 3	19988
63994	Priority 3	19989

Apiary Sites

The following apiary site records have been located within 20km of the application area:
Permit 3197 Current - 17575m

2.2 Principle (b) Native vegetation should not be cleared if it comprises the whole or part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.



Specially Protected Fauna

The following fauna records have been located within 20km of the application area:

SOURCE_ID	Class	Rank	Certainty	Distance (m)
4140	MAMMAL	VU	Certain	1075
19129	BIRD	EN	Certain	1293
19106	BIRD	EN	Certain	1317
5586	INVERTEBRATE	VU	Certain	1408
3842	BIRD	EN	Moderately certain	1408
9057	INVERTEBRATE	VU	Certain	1529
75871	BIRD	EN	Moderately certain	1851
75870	BIRD	EN	Moderately certain	1851
24504	MAMMAL	VU	Moderately certain	2045
9719	BIRD	EN	Certain	2230
75872	BIRD	EN	Moderately certain	2278

19107	BIRD	EN	Certain	2429
19113	BIRD	EN	Certain	2519
75867	BIRD	EN	Moderately certain	2632
16358	MAMMAL	VU	Certain	2649
75868	BIRD	EN	Moderately certain	2746
19105	BIRD	EN	Certain	2870
19104	BIRD	EN	Certain	3114
155098	BIRD	IA	Certain	5779
9043	INVERTEBRATE	VU	Certain	6069
9042	INVERTEBRATE	VU	Certain	6069
9041	INVERTEBRATE	VU	Certain	6069
3729	MAMMAL	VU	Not sure	7344
3769	BIRD	VU	Certain	8335
19126	BIRD	EN	Certain	9006
85327	INVERTEBRATE	VU	Very certain	11057
24918	BIRD	VU	Certain	11871
154472	BIRD	IA	Certain	11925
11878	INVERTEBRATE	VU	Certain	12121
3763	BIRD	OS	Certain	12121
154946	BIRD	IA	Certain	12202
85345	INVERTEBRATE	VU	Very certain	12587
3755	MAMMAL	VU	Moderately certain	12836
24548	MAMMAL	VU	Moderately certain	13065
24554	MAMMAL	VU	Moderately certain	13099
13139	MAMMAL	VU	Certain	13584
154453	BIRD	IA	Certain	13684
154916	BIRD	IA	Certain	13914
75880	BIRD	EN	Not sure	13933
19833	BIRD	EN	Certain	14008
3770	BIRD	VU	Certain	14872
3765	BIRD	VU	Certain	14881
3766	BIRD	VU	Certain	14881
24987	BIRD	VU	Certain	15721
32550	BIRD	EN	Certain	16063
3764	BIRD	OS	Certain	16309
1037	MAMMAL	VU	Not sure	16544

7227	BIRD	EN	Certain	16639
81299	BIRD	EN	Certain	16785
9039	INVERTEBRATE	VU	Certain	16796
32549	BIRD	EN	Certain	16807
154334	BIRD	IA	Certain	17094
16691	MAMMAL	VU	Moderately certain	17558
19039	BIRD	VU	Certain	17619
8596	MAMMAL	EX	Certain	18421
154324	BIRD	IA	Certain	18626
3767	BIRD	VU	Certain	18768
9624	BIRD	EN	Certain	19102
75874	BIRD	EN	Moderately certain	19653
11881	INVERTEBRATE	VU	Certain	19780

Key to conservation status ranking:

EX = Presumed Extinct

EN = Endangered

CR = Critically Endangered

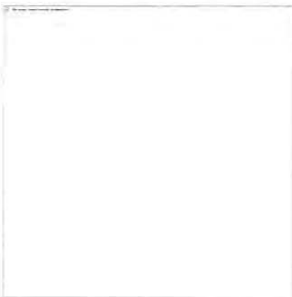
VU = Vulnerable

IA = migratory birds protected under an international agreement

Ecological linkages and vegetation connectivity

Data on ecological linkages is not available for this area.

2.3 Principle (c) Native vegetation should not be cleared if it includes, or is necessary for the continued existence of rare flora.



Specially Protected Flora

The following flora records have been located within 20km of the application area:

Popn Id	WA Rank	Proximity (m)
98448	VU	5951
98447	VU	5951

98439	VU	6519
98437	VU	6695
98443	VU	7121
98445	VU	7152
98440	VU	7185
98438	VU	7185
98436	VU	7345
98442	VU	7349
98435	VU	7349
98441	VU	7381
98444	VU	7544
86268	VU	8702
86267	VU	9104
86269	VU	9204
86262	VU	9325
89204	VU	10065
98458	VU	10094
98457	VU	10094
98456	VU	10094
98455	VU	10094
98454	VU	10094
98453	VU	10094
98459	VU	10413
86257	VU	11099
100461	VU	12507
100460	VU	12507
98450	VU	17096
98451	VU	17109
108222	VU	17147
86264	VU	17693
98425	VU	17781
98426	VU	17941
98427	VU	18579

Key to the Conservation Status:

CR - Critically Endangered

EN - Endangered

VU - Vulnerable

EX - Extinct

2.4 Principle (d) Native vegetation should not be cleared if it comprises the whole or a part or, or is necessary for the maintenance of, a threatened ecological community.

Threatened Ecological Communities

No threatened ecological community records were located within 20km of the application area.

2.6 Principle (f) Native vegetation should not be cleared if it is growing in, or in association with, an environment associated with a watercourse or wetland.

Legend

Local Government Authority



State Roads



Other Roads



Hydrography



Coast and Sea



water



land

Lakes, Waterbodies and Reservoirs (Geoscience Australia)



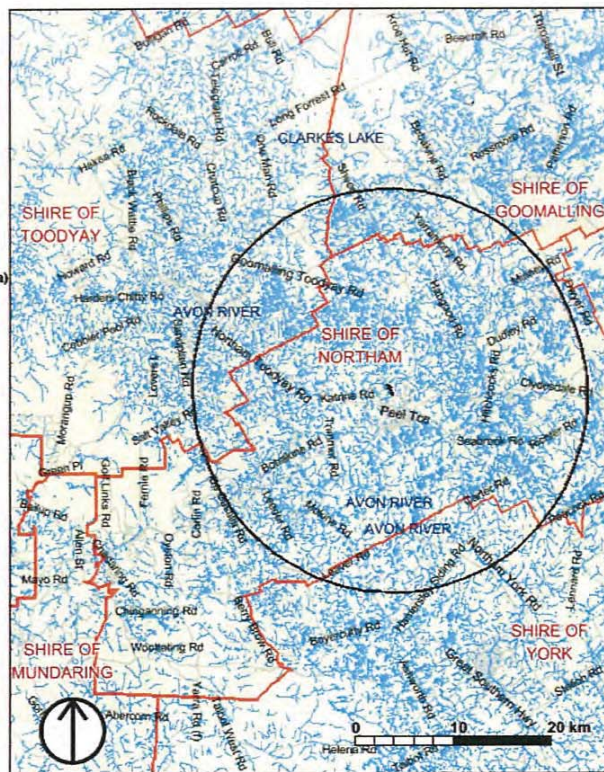
Perennial



Non-perennial



Dam or Reservoir



1.08ha of the application area is in or within 200m of a Dept of Water mapped natural hydrographic feature.

The site is in or within 20 km of the following Geoscience Australia mapped lakes (distance from the application area):

NANAMULLEN LAKE - 15004m

AVON RIVER - 101m

2.7 Principle (g) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.

Acid Sulphate Soil No

Risk:

Groundwater Salinity 14000-35000mg/l - 1.46 ha

(Total Dissolved

Solids):

Hydrogeology: Rocks of Low Permeability, Fractured and Weathered Rocks - Local Aquifers, Metamorphic rocks - 1.46 ha

Soils: Jelcobine York Subsystem (256JcY0): Areas of soils derived from freshly exposed rock. This unit is typified by the red soils of the Avon Valley but also includes areas of similar, but often greyer and lighter textured soils to the east of the valley. - 1.46 ha

2.8 Principle (h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an impact on the environmental values of any adjacent or nearby conservation area.

Legend

DPaW Managed Lands and Waters

EPA Redbook Recommended Conservation Reserves 1976-91

Local Government Authority

State Roads

Other Roads

Coast and Sea
water
land



DPaW Conservation Estate: R 32400:Nature Reserve:Class - 15167m

R 39247:Nature Reserve:Class A - 16772m
R 43077:Nature Reserve:Class - 12507m
R 42432:Nature Reserve:Class - 12754m
R 33254:Nature Reserve:Class A - 15492m
R 737:Nature Reserve:Class A - 16949m
R 31211:Nature Reserve:Class A - 16987m
R 7220:Nature Reserve:Class A - 17965m
R 33697:Nature Reserve:Class A - 15937m

EPA Redbook 1976-91
Reserves:

DAFWA Covenants:

C29 File:DPAW-025.1725 - 15171m

Conservation Covenant File:010492V01M0R - 15012m
Remnant Vegetation Protection Scheme (CC)

File:971554V01P0R - 10816m

Agreement To Reserve File:942049V01P0D - 4285m

Agreement To Reserve File:950522V01P05 - 17595m

Agreement To Reserve File:950537V01P0S - 11524m

Remnant Vegetation Protection Scheme (CC)

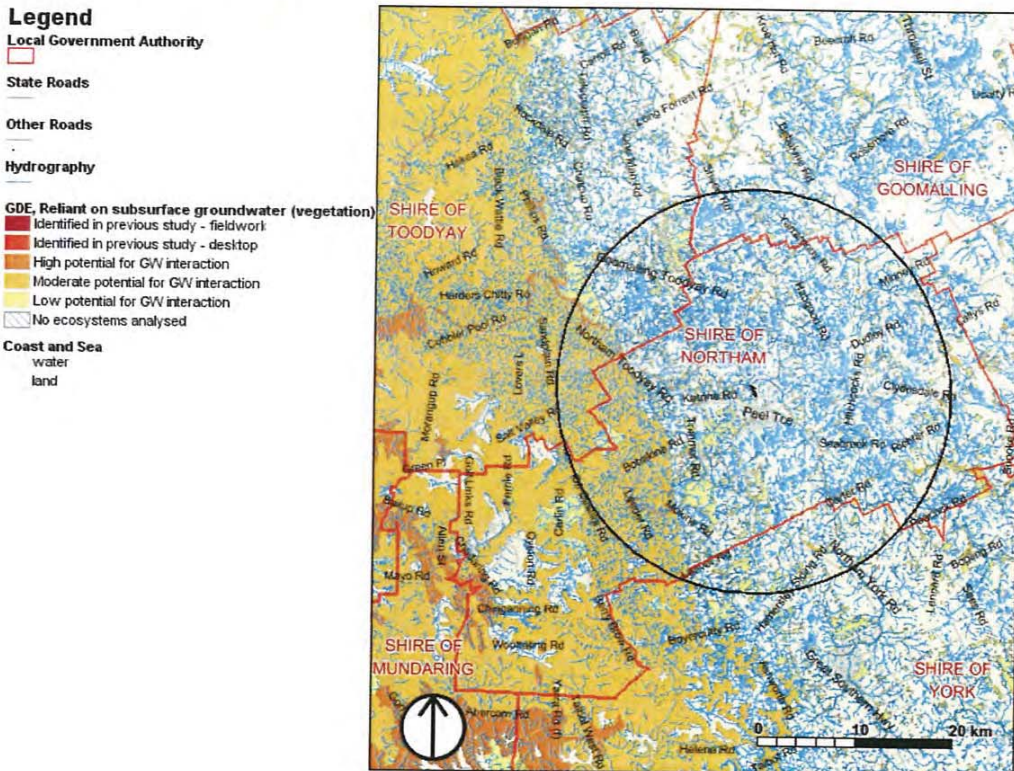
File:971678V01P0E - 10113m

Agreement To Reserve File:940249V01P0B - 4188m

Conservation Covenant File:020642V01M02 - 19271m

Agreement To Reserve File:010422V01M0R - 16619m

2.9 Principle (i) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause deterioration in the quality of surface or underground water.



For surface water features affected by clearing area see 2.6 Principle (f).

The site is within the following Groundwater Dependent Ecosystems - reliant on subsurface groundwater:

Medium woodland; York gum, Low potential for GW interaction - 0.24 ha

2.10 Principle (j) Native vegetation should not be cleared if the clearing of the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.

The site is within the following DAFWA Land Quality flood risk categories:

2 - 1.46 ha

3 Planning instruments and other relevant matters

The site is within the following EPA Policy Areas:

Environmental Protection of Native Vegetation (Agricultural Area) (2000) 1.46 ha

The site is within 20km of the following Forest Management Plan 2014 proposed reserves:

New reserve proposals. Proposed Nature reserve - 15975m

The site is within 20km of the following DAFWA mapped landuses:

Sheep feedlots - 14824m

Irrigated tree nuts - 18503m

Horse studs - 13873m

Irrigated grapes - 15668m

Abattoirs - 4633m

Stockyards/saleyards - 1995m

Aquaculture - 18159m

Irrigated perennial horticulture - 14783m

The site overlies or is adjacent to the following Department of Aboriginal Affairs heritage sites:

Place_ID: 3369

Place_Name: NORTHAM BIRTHING PLACE

Legacy_ID: S02822

Status: Registered Site

Type: Skeletal Material / Burial

Region: Metro/Wheatbelt

Restrictions: Female Access Only

File Restricted: Yes

Location Restricted: Yes

Protected_Area: No

Protected_Area_Gazetted_Date: 18991230

National_Estate_Area:

Duplicate_ID:

Boundary_Last_Update_Date: 20110721

Place_ID: 3368

Place_Name: OLD GOVERNMENT WELL.

Legacy_ID: S02821

Status: Registered Site

Type:

Region: Metro/Wheatbelt

Restrictions: No Gender Restrictions
File Restricted: Yes
Location Restricted: Yes
Protected_Area: No
Protected_Area_Gazetted_Date: 18991230
National_Estate_Area:
Duplicate_ID:
Boundary_Last_Update_Date: 20120813

Place_ID: 3536
Place_Name: SWAN RIVER
Legacy_ID: S02548
Status: Registered Site
Type: Mythological
Region: Metro/Wheatbelt
Restrictions: No Gender Restrictions
File Restricted: No
Location Restricted: No
Protected_Area: No
Protected_Area_Gazetted_Date: 18991230
National_Estate_Area:
Duplicate_ID: 15979
Boundary_Last_Update_Date: 20150814

The site overlies or is adjacent to the following local planning scheme zones:
Rural residential -
Regional road -

©Western Australian Land Information Authority (2017):
Cadastral/Property boundaries
Hydrography lines
Crown Reserves
Roads
Local Government Administrative Boundaries



ARBORISTS SITE REPORT

TREE NUMBER SPECIES ID Approx AGE HEALTH Remarks

West side verge

1	acacia acuminata	10	A	
2	acacia acuminata	12	G	
3	eucalyptus loxophleba	18	VG	
4	eucalyptus loxophleba	15	G	
5	eucalyptus loxophleba	18	G	
6	eucalyptus loxophleba	18	A	
7	eucalyptus loxophleba	12	A	
8	eucalyptus loxophleba	12	G	
9	eucalyptus loxophleba	14	A	
10	eucalyptus loxophleba	12	A	
11	eucalyptus loxophleba	18	P	
12	eucalyptus loxophleba	18	A	
13	acacia acuminata	20	A	Principle (e)- Vegetation Complex 352
14	eucalyptus loxophleba	12	P	Principle (e)- Vegetation Complex 352
15	eucalyptus loxophleba	30	VG	Principle (e)- Vegetation Complex 352
16	eucalyptus loxophleba	20	G	Principle (e)- Vegetation Complex 352
17	eucalyptus loxophleba	18	P	Principle (e)- Vegetation Complex 352
18	hakea preisii	20	A	Principle (e)- Vegetation Complex 352
19	eucalyptus loxophleba	15	G	Principle (e)- Vegetation Complex 352
20	eucalyptus loxophleba	15	G	
21	eucalyptus loxophleba	15	A	
22	acacia acuminata	10	G	
23	acacia acuminata	10	G	

East side verge

24	acacia acuminata	10	G	
25	acacia acuminata	10	G	
26	acacia acuminata	11	A	
27	acacia acuminata	14	A	
28	acacia acuminata	12	P	
29	acacia acuminata	12	G	
30	acacia acuminata	12	P	
31	acacia acuminata	14	A	
32	acacia acuminata	12	A	
33	acacia acuminata	10	A	
34	acacia acuminata	12	G	
35	Santalum album	3	VG	
36	acacia acuminata	14	A	
37	eucalyptus loxophleba	12	P	
38	eucalyptus loxophleba	12	A	Principle (e)- Vegetation Complex 352
39	eucalyptus loxophleba	18	G	Principle (e)- Vegetation Complex 352

HEALTH KEY; P = Poor, A = Average, G = Good, VG = Very Good

