

ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PLAN

Albany Highway (H001) (115 - 172 SLK)

Lateral Clearance Improvement

Compiled by: EO Peter Swanson Date: January 2011

Revision Table

Revision ra	DIC	
Version	Date	Comment
1 (of EIA) 27/01/11		Inclusion of stake holders (DEC) submission (Appendix M)
		Inclusion of EnviroWorks' Environmental Survey (Appendix N)
		Amendments to relevant sections of the Summary to reflect results of the Environmental Survey (page 3).
2	08/02/11	Inclusion of fauna species in Clearing Assessment (b) – P59
		Amend Clearing Principle (a) to 'may be at variance'. P59
		Inclusion of Faunal Habitat Report 2009 – Appendix N
		Clarification of Aboriginal sites Summary and P9
		Justification of decision not to refer to State or Federal
		agencies

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PRELIMINARY ENVIRONMENTAL IMPACT ASSESSMENT AND ENVIRONMENTAL MANAGEMENT PLAN (MINOR PROJECTS)

Albany Highway (H001) (115 - 172 SLK) Lateral Clearance Improvement

1 SUMMARY

From the PEIA assessment it was considered that the clearing **may be at variance** with DEC's clearing principles (b) and (e), therefore letters were sent to relevant stakeholders inviting submissions. DEC Native Vegetation Conservation Branch responded agreeing that Principles (b) and (e) as well as Principle (h) 'may be at variance' (Appendix M). Main Roads has since engaged EnviroWorks Consulting to undertake an Environmental Survey of the project site to assess the significance of these issues. The results of the survey indicate that the proposed clearing is **not likely to be at variance** to any of the Clearing Principles (Appendix N).

Referral to State and Federal agencies is not warranted.

Works shall not be undertaken within 100m of the three known Aboriginal heritage sites 18555, 18556 and 27935 (Hotham River) that are in the vicinity of the works area. The exact location of Site 18556 (Modified Tree) at Crossman River crossing (465088mE 6366703mN) will need to be confirmed. (Appendix H)

There are several heritage listed sites along Albany Highway, particularly in the Shire of Williams that will need to be given consideration (Appendix H).

Any clearing that may need to be undertaken within 50m of a water course shall be carried out using manual (rather than mechanical) methods so as not to cause disturbance to beds and banks.

Occurrences of *Halgania corymbosa* P3, *Stylidium rhipidium* P3 and *Acacia cuneifolia* P4 have been recorded in proximity of the project area. The Environmental Survey indicated that the *Halgania* and *Stylidium* populations currently exist over 100 metres from the highway and will not be impacted by the proposed clearing (Appendix N).

Declared plants (Paterson's Curse and Cottonbush) have been recorded in the project area by the Department of Agriculture and Food (Appendix C) but were not relocated in the historical locations during the field study of the Environmental Survey. However, a number of other serious weeds were *identified and should be given appropriate treatment prior to delivery as recorded in the EMP*. (see weed locations in Appendix 5 of Environmental Survey Report in Appendix N).

Cleared vegetation shall be chipped and used for future rehabilitation or scattered directly into surrounding bush such that it cannot be blown or conveyed by stormwater into waterways.

2 PROJECT DESCRIPTION

Main Roads Wheat Belt South (WBS) Region proposes to establish the AustRoads standard lateral clear zone along Albany Highway between SLK 115 and 172 by selectively removing vegetation that currently is or has the potential to grow a trunk diameter larger than 300mm. The clear zone is the area from the edge of the traffic lane that is available for emergency use by errant vehicles. The width of the clear zone to AustRoads standards is dependent on the design speed of that section, the geometry of the road and the slope of the batter at that point. Vegetation alongside cuttings will need

less treatment as compared to locations where the road has been in-filled and is maintained by battered slopes.

The majority of this section of Albany Highway has a speed limit of 110kph. It is proposed to establish a clear zone of average 6.5m on straight sections and inside of curves; and up to 9.0m on the outside of curves. The project passes through the Shire of Wandering, Boddington and Williams (Figure 1).

3 BACKGROUND

Collisions of errant vehicles with trees are a major cause of damage to vehicles, personal injury and even death. The conflict between improving road safety by clearing trees and reducing environmental impacts is an ongoing and contentious issue. However, Main Roads has a responsibility to identify trees that are potentially a hazard and remove them where applicable.

Albany Highway is a high volume and high incident route, composed of tourism and heavy transport vehicles and forming a major link between the City of Albany and the City of Perth. Main Roads WBS Network Management team have undertaken extensive survey work to map trees along this section of Albany Highway that have a trunk diameter at breast height greater than 300mm in diameter. Additional calculations have been made to determine appropriate clear zone requirements at specific locations as dependent upon the AustRoads standards.

This particular section of Albany Highway (SLK 115-172) has been identified for clear zone establishment based on past accident statistics and the general proximity of large vegetation to the carriageway. Funding has been made available through the Safer Roads Project. It is anticipated that the establishment of clear zones to AustRoads standards will help to reduce roadside accidents and fatalities.

As per Main Roads' Environmental Assessment and Approval process, the Low Impact Environmental Screening Checklist has been completed for the proposal (Appendix A). As the proposed works involves clearing of native vegetation outside of the maintenance zone and the clearing of native vegetation that is older than 10 years within the maintenance zone, the preparation of a project specific Preliminary Environmental Impact Assessment (PEIA) and Environmental Management Plan (EMP) are required. This report fulfils this requirement.

4 DESCRIPTION OF THE PROJECT

The actual area of vegetation proposed to be cleared is difficult to establish as the majority of the larger trees that need to be removed are isolated specimens over a 57 kilometer distance. Not all of the length of the project area needs treatment as there is currently sections that have either adequate clear zone or have no vegetation at all. Also, different sections require differing widths of clearing to establish appropriate clear zones; in some instances only the fringing meter.

The majority of the larger trees within the clear zone to be removed are south of Williams and are isolated specimens on the western side of the highway. The average width of the reserve on the western side is 20m as compared to 10m on the eastern side. The majority of the clearing north of Williams will also occur on the western side of the highway.

A clearing area of 3.6ha has been estimated based on data obtained from the detailed survey of trees (1400) with a trunk diameter >300mm with an average canopy of $9m^2$ and

increasing this by 10% of the clear zone area by taking into account specimens within the proposed clear zone with the potential to grow >300mm in the future that will also need to be removed.

As noted, only selected vegetation is to be removed; under storey, and all other frangible vegetation is to be retained. Cleared material will be chipped and either dispersed immediately into the adjacent bushland or stockpiled for use as mulch in future rehabilitation works.

3.1 Project Location

The location of the study area in relation to Local Government Authorities and is shown below in Figure 1.

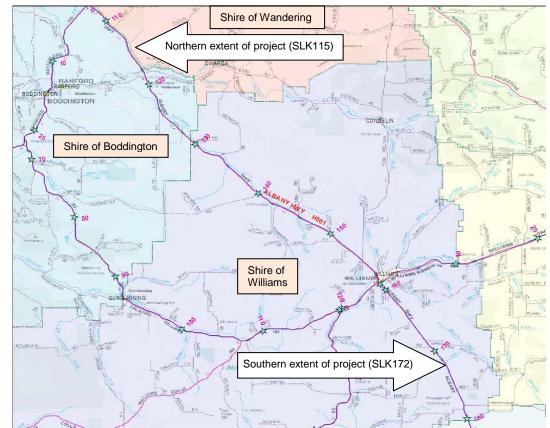


Figure 1: Site location and Local Government Authorities traversed by the project

4 ASSESSMENT METHODOLOGY

Low Impact Environmental Screening Checklist

A Low Impact Environmental Screening Checklist was completed by the Project Manager and reviewed by the Environment Officer (Appendix A).

Preliminary Desktop Study

A preliminary assessment of the project area and its potential constraints was undertaken by reviewing a number of government agency managed databases and consulting with the relevant government organisations where necessary. Additional surveys have also been undertaken to further investigate aspects that were identified as being potentially impacted.

Environmental Constraints

Main Roads GIS database Appendix B

Flora

DEC Native Vegetation Map Viewer Department of Agriculture and Food: Vegetation Types and Extents Correspondence with DEC Threatened Species Branch Declared Plant / Weed information from DAF Appendix C

Fauna

DEC Threatened and Priority Fauna data base search Fauna Survey locations and Extracts from '*Faunal Habitat along 4 Segments of the Albany Highway*', Connell 2009 Appendix D

Land

WA Atlas (Landgate) Acid Sulphate Soils search <u>https://www2.landgate.wa.gov.au/slip/portal/services/wa-atlas.html</u> Appendix E

Dieback

Main Roads GIS database Appendix F

Water

Department of Water's Geographic Data Atlas Correspondence with Department of Water re: proclaimed surface water areas, Priority public drinking water source areas and interference of watercourses Landgate: Shared Land Information Platform (SLIP) <u>https://www2.landgate.wa.gov.au/slip/portal/services/wa-atlas.html</u> Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) mapping tool <u>http://www.anra.gov.au/mapmaker/mapservlet?app=anra</u>

Appendix G

Heritage

Australian Heritage Places Inventory <u>http://www.heritage.gov.au/ahpi/index.html</u> Western Australian Heritage Council Register <u>http://register.heritage.wa.gov.au/</u> Shires of Boddington, Williams and Wandering Heritage Inventories Department of Indigenous Affairs Heritage Enquiry System <u>http://www.dia.wa.gov.au/AHIS/Default.aspx</u> Appendix H

Matters of National Significance

EPBC Act Protected Matters Search Tool <u>http://www.environment.gov.au/erin/ert/epbc/index.html</u> Appendix I

Air Quality

The need for a local air quality assessment was determined using the criteria outlined in the MRWA environmental guideline, Air Quality Assessment.

Commonwealth and State Referral

The decision to refer the project to the State's Environmental Protection Authority (EPA) is based on whether significant environmental impact, amendment to TPS or the project is of significant size and/or public interest. The decision to refer the project to the Commonwealth's Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) is based upon whether the project would significantly impact upon matters of national environmental significance, e.g. World Heritage properties, protected wetlands and migratory species, Commonwealth marine areas, threatened species or communities or nuclear actions.

5 EXISTING ENVIRONMENT

Description

There is a range of vegetation types and conditions throughout the 57 kilometer length of the project area. In general though, the vegetation proposed to be cleared is of a Degraded condition (Kieghery 1994) comprising a narrow strip of roadside remnant native plants remaining after early land clearing. For the majority of the project length there is virtually no understorey, no adjacent vegetated areas and a proliferation of weed (pasture) grass species and other exotic plants. There are some stands of vegetation in Good to Very Good condition in locations proximate to some of the water courses that cross the highway. Some sections that do not require treatment are revegetation areas that have been planted by Main Roads in the past. Most of the larger trees proposed to be removed are south of Williams and are within the current maintenance zone.

<u>Degraded:</u> Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management. <u>Good:</u> Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. <u>Very Good:</u> Vegetation structure altered, obvious signs of disturbance. (Kieghery 1994)

The Department of Agriculture and Food NRM SLIP System was used to identify vegetation associations within the project area (Appendix C).

The majority of the vegetation within the project area however is comprised of Beard Type 4 (*Medium Woodland: Marri, Wandoo*), which is represented by 25.15% with 15.89% remaining in Wandering, 20.88% in Boddington and 12.85% in Williams. At the Hotham River and Crossman River crossings between SLK 118 and 128 there are isolated vegetation associations of Beard type 1003 (*Medium Forest: Jarrah, Marri & Wandoo*) & 1005 (*Low woodland; Allocasuarina huegeliana*) represented with 42.36% and 51.79% respectively remaining in the LGA.

Further south at SLK 155 there is an occurrence of vegetation association 352 (*Medium woodland; York gum*) represented with 16.63% and 14.54% in the Shire of Williams. At SLK 160 vegetation association 7 (*Medium woodland; York gum (Eucalyptus loxophleba) & Wandoo*) occurs with 13.8% remaining and 15.66% in the Shire of Williams (Figure in Appendix).

Site Investigation

A tree survey was undertaken over a six week period by Senior Contract Coordinator Bernie Van Niekerk to map specimens with trunk diameter >300mm between SLK 51 & 215. A site visit was carried out by Environment Officers Peter Denton and Peter Swanson (PS) on 26th March 2010 and an additional two inspections (11th June & 21st September) by PS to examine the general features of the area. The broad vegetation types in the vicinity of the project area and potential habitat trees were identified. Other issues that were considered included topography, the impacts on creek lines and property access. Site photos were taken and are included in Appendix J.

Site Investigation	Description/Comment
Total area (ha) of native vegetation to be	3.6ha
cleared	
Total area (ha) of other vegetation,	
including regrowth, landscape areas, to	1.0ha consisting of feral and ornamental
be cleared	trees and non local native species
Weeds present	Local weeds, namely wild oats, turnip and broom grass. There are some potential outbreaks of Patterson's Curse and Cottonbush declared weeds within the project boundary (Appendix C).
Drainage areas or wetlands present	Four RAMSAR wetlands are listed in the DSEWPC report of Matters of National Significance (Appendix I), however all are a considerable distance from the project area and will not be impacted. There are no wetlands in the immediate vicinity of the project area (Appendix G).
Adjacent land uses	Agricultural and Farming

6 CLEARING OF NATIVE VEGETATION

Native vegetation describes all indigenous aquatic and terrestrial vegetation (living or dead). The term does not include vegetation that was intentionally sown, planted or propagated unless it was required under a statutory condition.

Apart from activities that are exempt under the clearing regulations, such as clearing vegetation that is less than 10 years old for maintenance, typically all Main Roads clearing will be undertaken using its State wide Project Purpose Permit.

6.1 Assessment against Clearing Principles

In assessing whether the project is likely to have a significant impact on the environment, the project has been assessed against the DEC's 10 principles of clearing, refer to Appendix K.

From the assessment it is considered that the clearing **may be at variance** with DEC's clearing principles (b) and (e).

7 ASSESSMENT OF ASPECTS AND IMPACTS

Aspect	Evaluation of Potential Impacts
Air quality	Air quality is not likely to be affected by the proposed works. Local air quality assessment
	is not required for the project.
Dust	Likely to be a minor issue during earthworks.
Fauna	Giving consideration to the minimal extent and the generally degraded and exposed nature of the vegetation proposed to be cleared; no significant impacts would be expected on native fauna as a result of the proposed works. No Matters of National Environmental Significance as protected under EPBC Act (1999) will be impacted.

Table 1: Aspects and Impacts – Albany Highway – lateral clearance improvement – SLK 115-17	Table 1: Aspects and Impacts	 Albany Highway – lateral c 	learance improvement –	SLK 115-172
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Aspect	Evaluation of Potential Impacts
Vegetation –	Estimated 3.6ha of native vegetation is proposed to be cleared.
clearing	• The native vegetation to be cleared is growing along the edge of the highway and has been generally impacted by disturbances such as clearing for pasture land, wind and fires.
	• The condition of native vegetation to be cleared is mostly Degraded with isolated patches proximate to water courses maintaining Good to Very Good condition (Keighery 1994).
	The majority of the vegetation within the project area is comprised of Beard Type 4 (<i>Medium Woodland: Marri, Wandoo</i>), which is represented by 25.15%. The majority of this is in a Degraded condition comprised of a narrow strip of roadside remnant native plants remaining after early land clearing and road construction. There is virtually no understorey for the majority of the project length and a proliferation of weed (pasture) grass species and other exotic plants.
	Near water courses in the northern section there are small areas of Beard type 1003 (<i>Medium Forest: Jarrah, Marri & Wandoo</i>) and 1005 (<i>Low woodland; Allocasuarina huegeliana</i>) represented with 42.38% and 51.79% respectively remaining in the Boddington LGA. In the southern section there are occurrences of Beard type 352 (<i>Medium woodland; York gum</i>) and 7 (<i>Medium woodland; York gum</i> (<i>Eucalyptus loxophleba</i>) & Wandoo) represented with 14.54% and 15.66% respectively.
	 None of the native vegetation to be cleared occurs within an ESA. The native vegetation to be cleared will be done so using the purpose permit. The Assessment against the Clearing Principles indicates that it MAY BE at variance to clearing principles (b) and (e).
Vegetation – TECs/DRF	Using the Main Roads GIS and DEC supplied shape file, a Conservation Code 3 threatened flora site (FID9595) has been identified at SLK 118.7, just south of the Hotham River. Occurrences of <i>Halgania corymbosa P3, Stylidium rhipidium</i> P3 and <i>Acacia cuneifolia P4</i> have been recorded in proximity of the project area. A survey for these species will need to be undertaken prior to clearing to ensure that there will be no impact to populations, if they currently exist. Consultation with DEC indicated that there are no State registered TECs in the vicinity of the proposal. No TEC or DRF as protected under the EPBC Act (1999) is expected to be impacted.
Vegetation – weeds	A number of roadside weeds and pasture grasses occur along this section of roadway. Potential outbreaks of Declared Plants (Paterson's Curse and Cottonbush) have been identified in the project area by the Department of Agriculture and Food (Appendix C) and will be given appropriate treatment prior to delivery as recorded in the EMP.
Vegetation – dieback	No surveys have been undertaken by DEC along this section of road way, which is classified as un-protectable. No material is required to be imported onto the site as part of the project and minimal ground is expected to occur. Adherence to Main Roads' Best Practice Guideline – 'Phytophthora Dieback' will concurrently reduce the possibility of pathogen and weed seed dispersal.
Reserves / Conservation areas	There are no reserves or conservation areas have been identified along the project area.
Heritage (non- indigenous)	There are several heritage listed sites along Albany Highway, particularly in the Shire of Williams that will need to be given consideration (Appendix H). However, given that there is no excavation or compaction proposed, it is unlikely that there will be any impact from the works.
Aboriginal heritage	There are two Aboriginal sites adjacent to Albany Highway within the project area. Site 18555 at the intersection of Albany Highway and Marradong Road is an artefact/scatter site (474720mE 6357332mN) and is some distance from Albany Highway. Site 18556 at Crossman River crossing is a Modified Tree (465088mE 6366703mN) (Appendix H). Also the Hotham River (Site 27935) has is a registered site of mythological significance (460526mE 6371350mN).
Surface water/drainage	The proposed works are within the Warren River Water Reserve which is a non-assigned Protection Area. The scope of the works is considered minor and will not impact on the surface water and drainage.
Wetlands	There are no known wetlands in the vicinity of the project.

Table 1: Aspects and Impacts – Albany Highway – lateral clearance improvement – SLK 115-172

Aspect	Evaluation of Potential Impacts
Groundwater	No dewatering nor drainage modifications are required, hence no change to groundwater level or quality.
Noise and vibration	There are no major sensitive local receivers nearby.
Visual amenity	Given that some large tree specimens are proposed to be removed, there may be some feedback from the public for a short period after the clearing.
Public safety and risk	Provided traffic management and signage to Main Roads standards is employed, the proposed works do not present any significant hazards to public safety. The proposed works will serve to enhance public safety by improving local road conditions.
Hazardous substances	Given the nature and scale of the project there will be no relevant impact from this aspect.
Contamination	Given the nature and scale of the project there will be no relevant impact from this aspect.
Salinity	Given the nature and scale of the project there will be no relevant impact from this aspect.
Acid Sulfate Soils	No further investigations are necessary as the proposal is in a low risk area and there is no dewatering or excavation below the water table planned.
Statutory Land Use Planning	The works are totally within the road reserve and no land will need to be acquired.

8 DECISION TO REFER

This PEIA investigation and analysis of the database search of the Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) mapping tool (Appendix I) indicate that there may be variance to one or more of the Clearing Principles, particularly in regard impact on black cockatoo habitat and food sources. Field investigations however, as reported in the Environmental Survey conducted by Enviroworks 2010 (Appendix N) indicate that no Matters of National Environmental Significance will be significantly impacted. *"… all of the potential habitat trees are outside of the proposed clearing footprint due to the fact that often the existing cleared area is either similar or larger than the proposed clearing width (i.e. 6.5 m on straight sections or 9 m outside bends)"* and *"There is little or no foraging habitat for threatened species within the proposed clearing footprint"*. P12 Environmental Survey, Enviroworks 2010

Therefore referral to DSEWPC for impact to cockatoo habitat or food sources is not warranted.

Given the scale of the project and the low significance of its impacts to the surrounding environment as concluded by Enviroworks, it would be considered that the environmental management measures proposed will adequately minimise any potential environmental impacts. Therefore the project does not require referral to the WA Environmental Protection Authority.

Name	Agency	Date	Comments
Kelly Rogers	Customer Service Officer – Shire of Boddington	13/04/10	Request Heritage Inventory
Manuela Lenehan	Administration Officer Shire of Williams	13/04/10	Request Heritage Inventory
Hayley Barge	Customer Service Officer Shire of Wandering		Request Heritage Inventory
Jenni Williams	A/Senior Conservation Officer (Assessment) Heritage Council of WA	18/10/10	Heritage information

9 STAKEHOLDER CONSULTATION

Sue Downes	Threatened Ecological Communities DEC	28/04/10	Threatened Ecological Communities
Amy Mutton	Project Officer - Fauna Database Species and Communities Branch DEC	03/05/10	Threatened Fauna
Kimberley Oswald	A/ Threatened Flora Database Technical Officer Species and Communities Branch	05/05/10	Threatened Flora
Jarred Desmond	Biosecurity Officer Lake Grace	27/04/10	Declared Plants
Carol Anderson	S W Region Dept of Water	19/05/10	Watercourses & wetlands
Patrick Ridley	Natural Resource Management Officer Kwinana Peel Region, Department of Water	18/06/10	Proclaimed Surface Water Area or Priority public drinking water source areas
Denis Callaghan	Senior Heritage Officer Department of Indigenous Affairs	21/10/10	Aboriginal Heritage information

10 ENVIRONMENTAL MANAGEMENT PLAN

This section of the report (the EMP) has been developed for the project area following the completion of the above sections. The main aim of this EMP is to provide a management plan to assist in minimising the environmental impacts of the activities associated with the proposed works and identify who is responsible for the implementation of the management strategies.

This EMP will only address the actions already listed as well as any site-specific issues that were identified during the PEIA. The project specific management measures identified within this EMP are in addition to the standard specifications used for Category 2 projects. The environmental management measures/conditions in Main Road's Specifications 203, 204, 301 and 302 are still to be followed where applicable.

The areas that require special management will be addressed in terms of:

- the timing of the various management actions;
- the topic (e.g. vegetation);
- the objectives for each area;
- the actions that are necessary to minimise the impact;
- the responsible party for implementing the action; and
- whether the action arose from external advice or is a Main Roads requirement.

10.1 Communication Plan

Environmental issues specific to the project will be communicated as follows:

Method	Frequency	Participants	Reference	Record
Project Site				
Induction	Prior to Work	All personnel and subcontractors	EMP and Contractor Environmental Policy	Induction Meeting
Toolbox Meetings	Weekly	Project Personnel	Contractor Safety Plan	Minutes of Meeting
Contract Meetings	fortnightly	Main Roads' Project Manager and Contractor Project Manager	EMP	Minutes of Meeting

10.1.1 External Communication and Complaints

A complaints register shall be maintained by the contractor. All complaints received shall be forwarded to the Main Roads' Project Manager for action. Serious complaints shall be investigated within 24 hours of the complaint being received.

Timing	Торіс	Objective	Action	Responsible Party	Advice
	Environmental Management	Inclusion of environmental management measures	Environmental management measures detailed in this EMP will be included in the technical specifications, contractual documents and site induction materials prepared for the project for all site personnel and service providers.	Project Manager	Main Roads
		Operational Management	Nominate a person responsible for monitoring and reviewing all operations in order to minimise any nuisance to the public.	Contractor	Main Roads
	Vegetation Clearing - Record-keeping	All projects should maintain the required records relating to clearing native vegetation under the purpose permit.	a copy of the PEIA & EMP a map showing the location where the clearing occurred, recorded as a shape file or coordinates of individual specimens the size of the actual area cleared (in hectares) the dates on which the clearing was done	Project Manager	DEC
Pre- Construction	Vegetation	Ensure that the overall objectives of the alignment and construction works are compatible with maintaining and, where possible, enhancing the biological integrity of the surrounding environment and minimising vegetation loss and degradation; and Ensure the retention of as many habitat trees, shrubs and vegetated corridors for fauna as possible, particularly where associated with riparian zones.	 Selection of designs/locations that minimise adverse impacts on the biological environment. Selection of individual tree specimens that might be retained and protected with barriers or similar alternative treatments. Construction works to be undertaken in summer to reduce the potential for soil erosion and drainage line siltation due to vegetation removal and heavy rains. Control/spray known weed species within the project area prior to construction disturbance to limit the amount of propagative material that may be spread during disturbance (see weed locations in Appendix 5 of Environmental Survey Report in Appendix N). Refer also to Roadside Conservation Committee, WA, 2005: Handbook of Environmental Practice for Road Construction and Maintenance Works. The clearing line (or individual specimens) will be clearly marked and checked prior to clearing. Any stockpiled vegetation shall be chipped and used for future rehabilitation or scattered directly into 	Project Manager Project Manager / Contractor	Main Roads
		Avoid damage to adjacent vegetation	conveyed by stormwater into waterways. Trees to be removed are to be felled in a manner that they fall within the approved clearing line. Vehicles and equipment will not be parked or driven over tree roots or undisturbed vegetation.	Contractor	Main Roads

	Public Relations		Inform Main Roads, local shire and local land-holders of the nature and timing of works and provide contact details for complaints.	Contractor	Main Roads	
	Aboriginal Heritage	Preserve known sites	Confirm the location of Aboriginal Site 18556 (Modified Tree) at Crossman River crossing (465088mE 6366703mN).			
Construction	Noise, Vibration and Dust and Public Access	Ensure that the construction of the proposal does not become a nuisance to the public.	Access to private property and appropriate traffic management measures should be planned and implemented prior to the construction works.	Contractor / Project Manager	Main Roads	
			Works associated with the construction should not prevent public access along adjacent land. Public access should be maintained along the reserve at all times.	Contractor	Main Roads	
			Any damage due to vibration, dust or noise is the responsibility of the contractor to rectify. Where it is found that trucks leaving the site are carrying excessive material onto sealed surfaces, these areas will be swept to reduce dust generation and maintain traffic safety. Watering, the use of hydromulch or other forms of mulching to protect loose surfaces shall be used as mitigation			
	Weeds & Pathogens (Dieback)	Minimise the risk of introducing weeds or pathogens to the site	measures as necessary. Standard weed and hygiene measures should be applied for all earthworks in the area, including ensuring that plant and equipment brought on to (and leaving) the site are clean of potentially contaminated soil.	Contractor	Main Roads	
			All imported material must be certified as being weed and pathogen free. Topsoil will be stored and respread within the same section to minimise the potential introduction/spread of weeds or pathogens			
	Pollution and Litter	Ensure that the construction of the proposal is managed to a standard that minimises any adverse impacts on the environment.	The designated servicing area will be bunded to contain any spills or leaks and shall not be located in an area adjacent to any drainage areas or watercourses or will drain into a temporary sump.	Contractor	Main Roads	
			Emergency cleanup procedures shall be implemented in the case of any spillage. These will include control of spilled material and removal of contaminated soil to an approved site. The contractor shall ensure appropriate equipment is available at all times and shall notify the Superintendent's Representative of a spill.			
			All waste oil will be collected for recycling and any empty fuel/oil containers, used filters and waste hydraulic parts to be collected and stored in an allocated area then removed to an approved site.			

	Fuel & Chemical Storage	Avoid chemical storage and spill impacts Ensure that the fire risk associated with	Dumping or temporary storage of bitumen, asphalt, concrete or aggregate should only occur at designated depots or controlled hardstands. All personnel are restricted from urinating or excreting within 100m of a watercourse. The project areas, including hardstand areas, will be kept in a tidy manner at all times. No storage of fuels or hazardous chemicals on site. Maintain materials for the clean-up of spills.	Contractor	Main Roads
	Fire	the construction of the proposal is minimised.	No fires shall be lit within the project area. Machinery will be fitted with approved spark arresting mufflers. A water tanker or fire fighting equipment will be on site at all times.	Contractor	Main Roads
	Aboriginal Heritage	Avoid impact to known sites	Works shall not be undertaken within 100m of the three known Aboriginal heritage sites (Appendix H).	Contractor	Main Roads DIA
		Appropriately manage any Aboriginal heritage material identified during works.	Works should immediately cease within 20m of uncovered material of interest.	Contractor	Main Roads DIA
	Water quality	Avoid impacts to water courses:	Any clearing that may need to be undertaken within 50m of a water course shall be carried out using manual (rather than mechanical) methods so as not to cause disturbance to beds and banks.		
		Erosion control	Stabilisation of banks impacted via plantings, compaction or if necessary rock pitching There should be no traversing of waterways with heavy machinery, which can cause damage to waterways banks and beds and could cause flooding		
		Pollution control	Chipping of cleared vegetation should not be scattered such that chips can be blown or conveyed by stormwater into waterways.		
	Site Management	Ensure that the site is managed to ensure that construction of the proposal will have minimal impact upon the surrounding environment.	Site office and materials storage areas will be located on previously disturbed/ designated area.	Contractor	Main Roads
Post- Construction	Reinstatement of project site	Leave the project area free from debris.	All waste materials from the development are to be completely removed from the site upon completion of the development.	Contractor	Main Roads
			Final clean-up shall be to the satisfaction of the Project Manager and the Site Superintendent.		

11 MONITORING, CONTINGENCY MEASURES & AUDITING

Given the scale and nature of the project, limited extent of clearing and that there is no revegetation to be undertaken; there is no requirement for post-construction monitoring, contingency measures or auditing.

Low Impact Environmental Screening Checklist

Form No. 6707/001/01

Checklist - Low Impact Screening Checklist

The Low Impact Screening Checklist is part of the environmental assessment and approval process, refer to in Figure 2 in the Main Roads environmental guideline Environment Assessment and Approvals. It should be noted that the checklist does not address Aboriginal heritage issues. Please refer to Main Roads guideline Aboriginal Heritage for the heritage assessment process.

All projects are to be screened to identify those that are Low Impact.

Projects that have "No" to all items are classed as Low Impact and should be implemented using standard contract clauses in the Tender Document Process.

Projects that have "Yes" to any item will require further environmental assessment and will be implemented using an Environmental Management Plan.

Tick "Yes" or "No" for every item.

Project NameAlbany Highway, SLK 115-172

ITEM				_
NO.	ITEM		Y	N
1	New road or road reserve to be created or expansion of existing road reserve.		~	X
2	Works require clearing of native vegetation outside the maintenance zone.		X	
3	Works require clearing of native vegetation that is older than 10 years old within the maintenance zone.		x	
4	Works to occur outside normal working hours.	- 57		X
5	Passes over, adjoins or drains directly into a wetland or sensitive watercourse.			X
6	Local natural drainage regime / hydrology will be changed.			X
7	Dewatering, or a new water bore required.			X
8	Known potential source of hazardous materials within or adjoining project area. e.g. Acid Sulphate Soils, existing petrol station, industrial site or waste disposal site (landfill)	1		X
9	Buildings will require demolition.		\$	X
	·			

Completed By:

Signature	Henryk March
Name	Henryk Marek
Signature	ll
Name	Refer Swamson

100

Date 23 Aug 2010 SPM Title n Date Title

a Main Roads Environment Officer

To be reviewed by

Comments:

Checking boxes on Items 2 & 3 require that a PEIA be undertaken.

MAIN ROADS Western Australia Form 670700101 Screening Checklist Rev 3.doc

Appendix B

ENVIRONMENTAL CONSTRAINTS

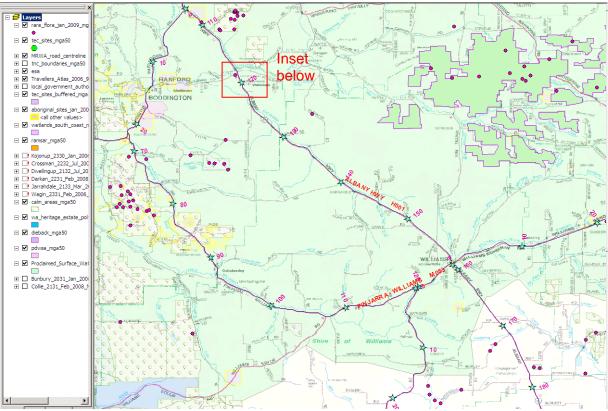


Figure 2: Main Roads GIS search using external agencies' shape files as listed in the legend

- DRF at SLK 118.7 FID 9595 (see Figure 3 below) PDWSA south to SLK 165.7
- ⊳

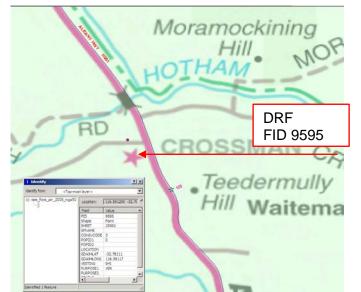


Figure 3: Inset from Main Roads GIS search showing DRF location in Figure 2.

Appendix C FLORA

DEC Native Vegetation Map Viewer Department of Agriculture and Food: Vegetation Types and Extents Correspondence with DEC Threatened Species Branch Declared Plant / Weed information from DAF

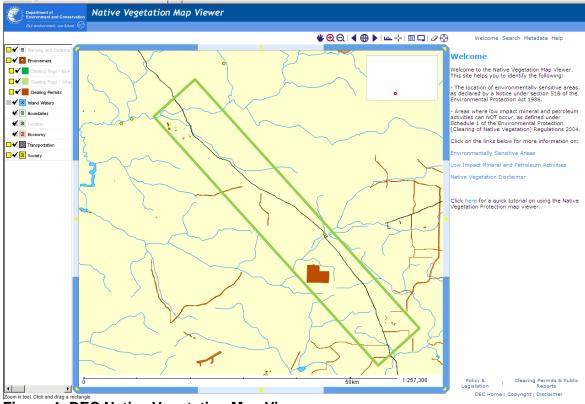


Figure 4: DEC Native Vegetation Map Viewer

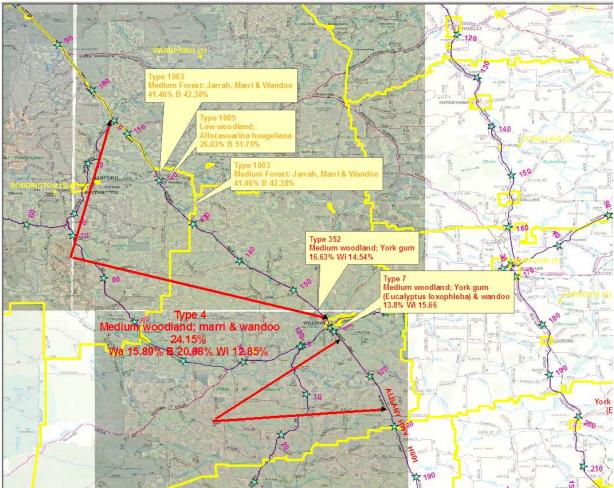


Figure 5: Vegetation Types and Extents remaining

Vegetation Association	Description	NVIS Lv3 - Broad Floristic Formation	Pre-European Extent	Current Extent	% Remaining in the State	% Remaining IBRA region Jarrah Forest	% remaining IBRA sub- region Jarrah Forest North	% remaining in relevant LGA
4	Medium woodland; marri & wandoo	Eucalyptus woodland	1,054,279.86	254,656.90	24.15	24.24	30.29	B 20.88 Wi 12.85 Wa 15.89
7	Medium woodland; York gum (Eucalyptus Ioxophleba) & wandoo	Eucalyptus woodland	179724.65	23500.02	13.8	19.39	19.39	Wi 15.66
352	Medium woodland; York gum	Eucalyptus woodland	724,272.93	120,435.58	16.63	16.82	16.82	Wi 14.54
1003	Medium forest; jarrah, marri & wandoo	Eucalyptus open forest	20,108.58	8,336.61	41.46	41.46	40.78	B 42.38
1005	Low woodland; Allocasuarina huegeliana	Allocasuarina woodland	786.96	204.81	26.03	54.73	54.73	B 51.79

Table 1: Vegetation Types and Extents remaining by State, IBRA Region and Sub-Region and LGA

Wa Wandering B Boddington Wi Williams Wed 28/04/2010 Hi Peter,

I refer to your request on the 21st April 2010 for information on threatened and priority ecological communities occurring within the search area co-ordinates provided in the email below.

A search was undertaken on the Department's Threatened Ecological Communities database. Please note that <u>there are</u> <u>no known occurrences of threatened ecological communities recorded</u> within the boundary of any of the three sections represented by the coordinates supplied in your email, below.

Please note not all priority ecological communities are currently recorded on our database. You may like to view the current list in related documents at <u>http://www.dec.wa.gov.au/content/view/849/2017/</u>.

Attached are the conditions under which this information has been supplied. The information supplied should be regarded as an indication only of the threatened and priority ecological communities that may be present.

It would be appreciated if any occurrences of threatened and priority ecological communities encountered by you in the area could be reported to this Department to ensure their ongoing management.

You have not been charged for the supply of this information.

Your request for information reference number for this search is: 23-0410. Please quote this unique reference number when acknowledging the Department of Environment and Conservation as a source of the data in any published material.

For your information, the Department of Environment and Conservation has recently added information to the web detailing survey guidelines, the differences between surveying and monitoring, and setting up monitoring for threatened and priority species and ecological communities (a series of Standard Operating Procedures and Monitoring Protocols are available). You can view this information at http://www.dec.wa.gov.au/content/category/31/930/2237/

Kind regards

Sue Downes Threatened Ecological Communities Department of Environment and Conservation Ph. 9334 0116 Office Hours: Tues, Wed & Thurs 0800 - 1600hrs

From: SWANSON Peter (PEO) Sent: Wednesday, 21 April 2010 3:17 PM To: 'Mia.Podesta@dec.wa.gov.au' Subject: Request for Threatened Ecological Community information

Good morning Mia

Main Roads Wheat Belt South Region is proposing to undertake lateral clearance improvements along Albany Highway between SLK 51 and 215.

As part of the environmental assessment of the project I request information from DEC in regard Threatened Ecological Communities (TECs) and conservation reserves that may occur in the vicinity.

Because of the extensive length of the works, I have divided the project area into three sections; based partially on the extent of environmental aspects in each section and the stages of the predicted works. Note that the last and first two coordinates of the sections below are the same.

Please respond with separate information for each section.

The coordinates of each section to be investigated are:

Section A:	
LAT	LONG
32 15 21.0	116 10 54.7
32 16 46.5	116 09 3.0
32 48 45.2	116 35 26.6
32 46 53.5	116 37 38.0

Section B: (note 'dog-leg' shape)

Section D. (note	und ice such
LAT	LONG
32 48 45.2	116 35 26.6
32 46 53.5	116 37 38.0
33 01 20.8	116 55 09.3
33 02 26.5	116 52 11.9
33 18 52.1	117 00 44.4
33 19 11.9	117 04 01.6
Section C:	
LAT	LONG
33 18 52.1	117 00 44.4

33 19 11.9	117 04 01.6
33 31 14.6	117 05 53.3
33 31 8.1	117 02 23.0

Please let me know if you require additional information. Thanks very much. Peter Swanson Environment Officer Wheat Belt South / South West Region

Mon 13/09/2010 Hi Peter, I have attached the results for this search which I originally emailed through to you on the 5th of May 2010.

Kind regards

Kimberley Oswald A/ Threatened Flora Database Technical Officer Species and Communities Branch Department of Environment and Conservation Kensington 9334 0123

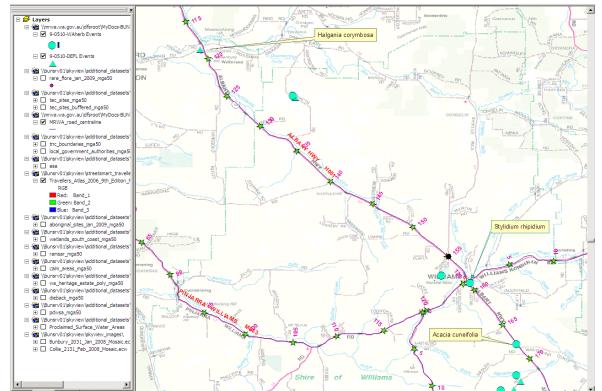


Figure 6: DEC (DEFL Events) and WA Herbarium (WAherb Events) shape files of Threatened Flora (as supplied by Species and Communities Branch).

- Halgania corymbosa P3 Erect shrub, 0.35–1 m high. Fl. blue, purple, Aug–Nov. Gravelly soils, soils over granite.
- Stylidium rhipidium P3 Slender annual, herb, ca 0.05 m high. Fl. white, Oct–Nov. Sandy soils. Wet creek flats, swamps, granite outcrops.
- Acacia cuneifolia P4 Erect or straggly shrub, 1–3 m high. Fl. yellow, Jul–Oct. Sand, clay or loam over granite. Granite outcrops & hills, rocky watercourses

5/05/2010 DEPARTMENT OF ENVIRONMENT AND CONSERVATION DECLARED RARE AND PRIORITY FLORA LIST 25 March 2010

CODECODECODEPERIODBanksia cynaroides4WBBrookton, Williams, Dumbleyung, Harrismith, Dryandra, Birdwhistle4WBBrookton, Williams, Dumbleyung, Harrismith, Dryandra, BirdwhistleCaladenia caesarea subsp. transiens [Bowelling]1WB, (SR)Williams, [Newdegate], [Augusta], SepSepCaladentinia sp. Piawaning (A.C.Beauglehole 12257)1WBPiawaning, Arthur RiverOctChorizema ulotropis A ravensthorpe, Young River, Dwellingup, Wandering, North Bannister4SC, SWJerramungup, Ongerup, Boddington, Narrogin, Kojonup, Bokal Boddington, Narrogin, Kojonup, Williams Aug-Oct Gastrolobium ovalifolium4WBBoddington, Narrogin, Kojonup, Williams Aug-Oct Sep-Oct Boyup Brook)Oct-Nov Gestrolobium stationGrevillea manglesii subsp. dissectifolia Jarrahdale, Mundaring, North3SWNorth Bannister, Gleneagle, Helena Nov Valley, Dwellingup, WanderingNovGrevillea saccata Bannister4MW,SWHill River-Gingin, Badgingarra, North Jun-Sep BannisterJun-Sep Sep-OctHalgania corymbosa Wandering, Boddington3SW,WBGosnells to Gidgegannup, Crossman, Wandering, BoddingtonNovHypoxis sp. Beaufort (V. Crowley UK29)1WBArthur RiverSepLasiopetalum cardiophyllum Wagin, Bannister, Jerramungup, Lake4SW,SRMt Saddleback, Bannister, Wandering, Apr-Jul	SPECIES / TAXON	CONS	DEC REGION	DISTRIBUTION	FLOWER
Harrismith, Dryandra, BirdwhistleWBCaladenia caesarea subsp. transiens [Bowelling]1WB,(SR)Williams, [Newdegate], [Augusta],SepCalandrinia sp. Piawaning (A.C.Beauglehole 12257)1WBPiawaning, Arthur RiverOctChorizema ulotropis Ravensthorpe, Young River, 		CODE	REGION	DISTRIBUTION	PERIOD
[Bowelling]Image: Calandrinia sp. PiawaningImage: Calandrinia sp. PiawaningOct(A.C.Beauglehole 12257)Chorizema ulotropis4SC,SWJerramungup, Ongerup,OctChorizema ulotropis4SC,SWJerramungup, Ongerup,Oct-NovRavensthorpe, Young River, Dwellingup, Wandering, North BannisterMBArthur River- Wagin, Kojonup, Bokal Boddington, Narrogin, Kojonup, Williams Aug-OctOct-NovGastrolobium tomentosum4WBBoddington, Narrogin, Kojonup, Williams Aug-OctSep-OctBoyup Brook)Grevillea manglesii subsp. dissectifolia3SWNorth Bannister, Gleneagle, HelenaNovGrevillea manglesii subsp. ornithopoda2SWMurray River, Pinjarra, York,Sep-OctJarrahdale, Mundaring, North4MW,SWHill River-Gingin, Badgingarra, NorthJun-SepBannister4MW,SWGosnells to Gidgegannup, Crossman, Wandering, BoddingtonSW,SRMt Saddleback, Bannister, Wandering, NovHalgania corymbosa Collie3SW,SRMt Saddleback, Bannister, Wandering, NovNov			WB	Brookton, Williams, Dumbleyung,	
(A.C.Beauglehole 12257) 4 SC,SW Jerramungup, Ongerup, Chorizema ulotropis 4 SC,SW Jerramungup, Ongerup, Ravensthorpe, Young River, Dwellingup, Wandering, North Bannister Arthur River- Wagin, Kojonup, Bokal Oct-Nov Conostylis drummondii R WB Boddington, Narrogin, Kojonup, Williams Aug-Oct Gastrolobium ovalifolium 4 WB Gastrolobium tomentosum 4 WB Darkan-Williams, Dinninup (near Sep-Oct Boyup Brook) 6 SW North Bannister, Gleneagle, Helena Nov Grevillea manglesii subsp. dissectifolia 3 SW Noth Bannister, Gleneagle, Helena Nov Grevillea manglesii subsp. ornithopoda 2 SW Murray River, Pinjarra, York, Sep-Oct Jarrahdale, Mundaring, North 2 SW Murray River, Gingin, Badgingarra, North Jun-Sep Bannister 4 MW,SW Hill River-Gingin, Badgingarra, North Jun-Sep Halgania corymbosa 3 SW,WB Gosnells to Gidgegannup, Crossman, Wandering, Boddington Hypoxis sp. Beaufort (V. Crowley 1 WB Arthur River Sep DKN62	•	1	WB,(SR)	Williams, [Newdegate], [Augusta],	Sep
Ravensthorpe, Young River, Dwellingup, Wandering, North BannisterConostylis drummondiiRWBArthur River- Wagin, Kojonup, BokalOct-Nov Gastrolobium ovalifoliumGastrolobium ovalifolium4WBBoddington, Narrogin, Kojonup, Williams Aug-Oct Gastrolobium tomentosumWBDarkan-Williams, Dinninup (nearSep-Oct Sep-Oct Boyup Brook)Grevillea manglesii subsp. dissectifolia Valley, Dwellingup, Wandering3SWNorth Bannister, Gleneagle, HelenaNovGrevillea manglesii subsp. ornithopoda Jarrahdale, Mundaring, North2SWMurray River, Pinjarra, York,Sep-OctGrevillea saccata Bannister4MW,SWHill River-Gingin, Badgingarra, NorthJun-SepHalgania corymbosa Wandering, Boddington3SW,WBGosnells to Gidgegannup, Crossman, Wandering, BoddingtonSw,SRMt Saddleback, Bannister, Wandering, NovCollie4SW,SRMt Saddleback, Bannister, Wandering, NovSepLasiopetalum cardiophyllum Collie4SW,SRMt Saddleback, Bannister, Wandering, Nov	(A.C.Beauglehole 12257)	1		Piawaning, Arthur River	Oct
Gastrolobium ovalifolium4WBBoddington, Narrogin, Kojonup, Williams Aug-OctGastrolobium tomentosum4WBDarkan-Williams, Dinninup (nearSep-OctBoyup Brook)Grevillea manglesii subsp. dissectifolia3SWNorth Bannister, Gleneagle, HelenaNovGrevillea manglesii subsp. ornithopoda2SWMurray River, Pinjarra, York,Sep-OctJarrahdale, Mundaring, North2SWMurray River, Pinjarra, York,Sep-OctGrevillea saccata4MW,SWHill River-Gingin, Badgingarra, NorthJun-SepBannister3SW,WBGosnells to Gidgegannup, Crossman,Vandering, BoddingtonHypoxis sp. Beaufort (V. Crowley1WBArthur RiverSepDKN629)2SW,SRMt Saddleback, Bannister, Wandering,NovLasiopetalum cardiophyllum Collie4SW,SRMt Saddleback, Bannister, Wandering,NovLeucopogon florulentus Wagin, Bannister, Jerramungup, Lake3SC,WB,SWOngerup, Esperance, Cordering,Apr-Jul	Ravensthorpe, Young River,		SC,SW	Jerramungup, Ongerup,	
Gastrolobium tomentosum Boyup Brook)4WBDarkan-Williams, Dinninup (nearSep-OctGrevillea manglesii subsp. dissectifolia Valley, Dwellingup, Wandering3SWNorth Bannister, Gleneagle, HelenaNovGrevillea manglesii subsp. ornithopoda Jarrahdale, Mundaring, North2SWMurray River, Pinjarra, York,Sep-OctGrevillea saccata Bannister4MW,SWHill River-Gingin, Badgingarra, NorthJun-SepHalgania corymbosa Wandering, Boddington3SW,WBGosnells to Gidgegannup, Crossman, Wandering, Boddington1WBArthur RiverSepHypoxis sp. Beaufort (V. Crowley DKN629)1WBArthur RiverSepSepLasiopetalum cardiophyllum Collie4SW,SRMt Saddleback, Bannister, Wandering, NovNovLeucopogon florulentus Wagin, Bannister, Jerramungup, Lake3SC,WB,SWOngerup, Esperance, Cordering, Apr-JulApr-Jul	Conostylis drummondii	R	WB	Arthur River- Wagin, Kojonup, Bokal	Oct-Nov
Boyup Brook)Grevillea manglesii subsp. dissectifolia Valley, Dwellingup, Wandering3SWNorth Bannister, Gleneagle, Helena NovNovGrevillea manglesii subsp. ornithopoda Jarrahdale, Mundaring, North2SWMurray River, Pinjarra, York, Jarrahdale, Mundaring, NorthSep-OctGrevillea saccata Bannister4MW,SWHill River-Gingin, Badgingarra, NorthJun-SepHalgania corymbosa Wandering, Boddington3SW,WBGosnells to Gidgegannup, Crossman, WBJun-SepHypoxis sp. Beaufort (V. Crowley DKN629)1WBArthur RiverSepLasiopetalum cardiophyllum Collie4SW,SRMt Saddleback, Bannister, Wandering, NovNovLeucopogon florulentus Wagin, Bannister, Jerramungup, Lake3SC,WB,SWOngerup, Esperance, Cordering, Apr-JulApr-Jul		4	WB	Boddington, Narrogin, Kojonup, Williams	Aug-Oct
Valley, Dwellingup, Wandering2SWMurray River, Pinjarra, York, Jarrahdale, Mundaring, NorthSep-Oct Jarrahdale, Mundaring, NorthGrevillea saccata Bannister4MW,SWHill River-Gingin, Badgingarra, NorthJun-SepHalgania corymbosa Wandering, Boddington3SW,WBGosnells to Gidgegannup, Crossman, Wandering, BoddingtonJun-SepHypoxis sp. Beaufort (V. Crowley DKN629)1WBArthur RiverSepLasiopetalum cardiophyllum Collie4SW,SRMt Saddleback, Bannister, Wandering, Nov CollieNovLeucopogon florulentus Wagin, Bannister, Jerramungup, Lake3SC,WB,SWOngerup, Esperance, Cordering, Apr-JulApr-Jul		4	WB	Darkan-Williams, Dinninup (near	Sep-Oct
Jarrahdale, Mundaring, North4MW,SWHill River-Gingin, Badgingarra, North BannisterJun-SepHalgania corymbosa Wandering, Boddington3SW,WBGosnells to Gidgegannup, Crossman, Wandering, Boddington3SW,WBHypoxis sp. Beaufort (V. Crowley DKN629)1WBArthur RiverSepLasiopetalum cardiophyllum Collie4SW,SRMt Saddleback, Bannister, Wandering, Nov CollieNovLeucopogon florulentus Wagin, Bannister, Jerramungup, Lake3SC,WB,SWOngerup, Esperance, Cordering, Apr-JulApr-Jul		3	SW	North Bannister, Gleneagle, Helena	Nov
Bannister Halgania corymbosa 3 SW,WB Gosnells to Gidgegannup, Crossman, Wandering, Boddington 1 WB Arthur River Sep Hypoxis sp. Beaufort (V. Crowley 1 WB Arthur River Sep DKN629) 2 SW,SR Mt Saddleback, Bannister, Wandering, Nov Lasiopetalum cardiophyllum 4 SW,SR Mt Saddleback, Bannister, Wandering, Nov Collie 3 SC,WB,SWOngerup, Esperance, Cordering, Apr-Jul Wagin, Bannister, Jerramungup, Lake 3 SC,WB,SWOngerup, Esperance, Cordering, Apr-Jul		2	SW	Murray River, Pinjarra, York,	Sep-Oct
Wandering, Boddington Hypoxis sp. Beaufort (V. Crowley 1 WB Arthur River Sep Hypoxis sp. Beaufort (V. Crowley 1 WB Arthur River Sep DKN629) Lasiopetalum cardiophyllum 4 SW,SR Mt Saddleback, Bannister, Wandering, Nov Nov Collie SC,WB,SWOngerup, Esperance, Cordering, Wagin, Bannister, Jerramungup, Lake 3 SC,WB,SWOngerup, Esperance, Cordering, Apr-Jul		4	MW,SW	Hill River-Gingin, Badgingarra, North	Jun-Sep
DKN629) Lasiopetalum cardiophyllum 4 SW,SR Mt Saddleback, Bannister, Wandering, Nov Collie Leucopogon florulentus 3 SC,WB,SWOngerup, Esperance, Cordering, Apr-Jul Wagin, Bannister, Jerramungup, Lake		3	SW,WB	Gosnells to Gidgegannup, Crossman,	
Collie Leucopogon florulentus 3 SC,WB,SWOngerup, Esperance, Cordering, Apr-Jul Wagin, Bannister, Jerramungup, Lake		1	WB	Arthur River	Sep
Wagin, Bannister, Jerramungup, Lake		4	SW,SR	Mt Saddleback, Bannister, Wandering,	Nov
	Wagin, Bannister, Jerramungup, L Magenta Nature Reserve	ake			Apr-Jul

Page 1

Leucopogon ozothamnoides	1	WB	Kojonup, Arthur River	May,Sep
Pultenaea indira subsp. pudoides Harrismith	2	WB	Arthur River, Yilliminning, Corrigin,	
Stylidium longitubum Midland, Busselton, Arthur River, Jandakot, Mundijong, Karnup	3	SW,WB,SI	RUpper Swan, Bullsbrook, Bunbury,	Nov
Stylidium marradongense	3	SW	Marradong, Mt Saddleback, Bannister	Oct
Stylidium rhipidium	3	SR,WA,	Rocky Gully, Williams, Collie, Lake	Oct-Nov
WB,SC Muir, Hyden, Cranbrook, Gl	enelg	Hills		
Stylidium rubicalyx	1	WB	Williams, Arthur River	
Synaphea brachyceras	3	WB	Arthur River, Highbury	Aug-Oct
Templetonia drummondii Forest	4	WB,SW	Boddington, Williams, Midland, Glen	-
Thomasia sp. Arthur River (HF & M Broadbent 1409)	1	WB	Arthur River	Sep
Thysanotus cymosus Grace, Ongerup, Kulin, Pingelly, Kojonup, Popanyinning, Arthur River	3	WB	Muntadgin, Karlgarin, Hyden, Lake	Sep-Oct
Verticordia huegelii var. tridens W,SWWilliams, Wansborough, Barbe Cunderdin, Calingiri, Cranbrook, Toodyay	3 erton,	SC,WB,M	N of Porongurups, Wongan Hills,	Oct

Tue 27/04/2010

Hi Peter this is all I have hope it helps, I dont know if Alex has any other info cheers

Jarred Desmond Biosecurity Officer Lake Grace jarred.desmond@agric.wa.gov.au Ph: 98651205 Mob: 0439880551

CRIS NUMBER	Road Number	ROAD	INFESTATION	LOCALITY	DATE OF INSPECT	DATE OF SPRAYED	DATE OF AUDIT	COMMENTS
	H01	Alban Hwy	Patersons Curse	Williams				S33 00 19.0 E116 51 36.8
	H01	Alban Hwy	Patersons Curse	Williams				S33 00 20.3 E116 51 37.8
	H01	Alban Hwy	Patersons Curse	Williams				\$33 00 20.8 E116 51 38.4
	H01	Alban Hwy	Patersons Curse	Williams				S33 00 27.2 E116 51 45.5
	H01	Alban Hwy	Patersons Curse	Williams				S33 00 32.8 E116 51 51.5
	H01	Alban Hwy	Patersons Curse	Williams				\$33 00 33.6 E116 51 52.4
	H01	Alban Hwy	Patersons Curse	Williams				\$33 00 35.4 E116 51 54.3
	H01	Alban Hwy	Patersons Curse	Williams				\$33 00 36.7 E116 51 55.7
	H01	Alban Hwy	Patersons Curse	Williams				\$33 00 38.3 E116 51 57.5
	H01	Alban Hwy	Patersons Curse	Williams				\$33 01 17.3 E116 52 37.6
								All infestations in this area are on the left side of the road as per SLK system
	H01	Albany Hwy	Cotton Bush	Williams				SLK 134 one plant grubbed

Table 2: Declared Plant / Weed information list from DAF

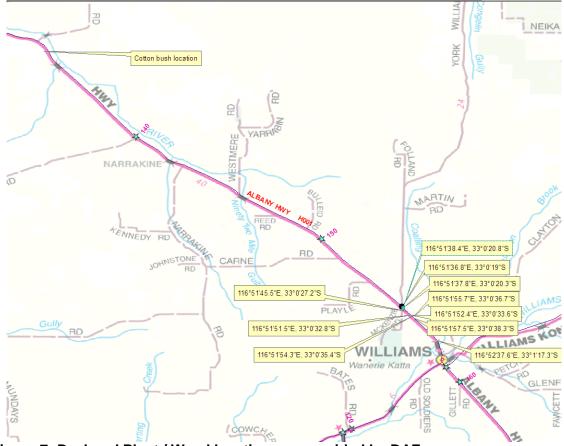


Figure 7: Declared Plant / Weed locations as provided by DAF

Appendix D FAUNA

DEC Threatened and Priority Fauna data base search results Fauna Survey locations and Extracts from '*Faunal Habitat along 4 Segments of the Albany Highway*', Connell 2009

Mon 3/05/2010

Hi Peter

Please find attached the results for the Threatened and Priority Fauna Database search for the vicinity of the three areas along Albany Highway; approximately Jarrahdale to Crossman, Crossman to Arthur River and Arthur River to Beaufort River.

Please refer to the attached letter for the conditions relating to the supplied data.

Let me know if you have any questions regarding the information supplied.

Regards, Amy

The Threatened Species pages have been updated on the DEC website.

The **Threatened Flora, Fauna and Ecological Communities Data Searches information sheet** can be downloaded from <u>http://www.dec.wa.gov.au/index.php?option=com_content<emid=2006&id=5379&lang=en&task=view</u>

The Threatened Fauna List, New Fauna Notice 2010 and the Threatened and Priority Fauna Rankings can be downloaded from http://www.dec.wa.gov.au/index.php?option=com_content&task=view&id=852&Itemid=2010

The Fauna Report Form can be downloaded from <u>http://www.dec.wa.gov.au/content/view/5388/2237/</u>

Amy Mutton

Project Officer - Fauna Database Species and Communities Branch Department of Environment and Conservation Phone (08) 9219 8636 Fax(08) 9334 0278

COMMON_NAME	SCIENTIFIC_NAME	DECLIST	RANKING	STATUS_EXPANDED	YEAR	CERTAINTY	NUM SEEN	LOC NAME	METHOD
Southern Death Adder	Acanthophis antarcticus	PRIORITY FAUNA	P3	Priority Three: Taxa with several, poorly known populations, some on conservation lands		Very certain	1	NARRAKINE	Caught or trapped
Forest Red-tailed Black- Cockatoo	Calyptorhynchus banksii naso	DECLARED THREATENED FAUNA	VU	Schedule 1 - Fauna that is rare or is likely to become extinct	2004	Very certain	12	Arthur River	Day sighting
Forest Red-tailed Black- Cockatoo	Calyptorhynchus banksii naso	DECLARED THREATENED FAUNA	VU	Schedule 1 - Fauna that is rare or is likely to become extinct	2000	Very certain	2	Arthur River	Day sighting
Chuditch	Dasyurus geoffroii	DECLARED THREATENED FAUNA	VU	Schedule 1 - Fauna that is rare or is likely to become extinct	1989	Very certain	1	Kenmare	Night sighting
Western Brush Wallaby	Macropus irma	PRIORITY FAUNA	P4	Priority Four: Taxa in need of monitoring	2004	Very certain	1	Arthur River	Day sighting
Carpet Python	Morelia spilota imbricata	PRIORITY FAUNA	P4	Priority Four: Taxa in need of monitoring	2005	Very certain	1	Wedgecarrup	Day sighting
Carpet Python	Morelia spilota imbricata	OTHER SPECIALLY PROTECTED FAUNA	P4	Schedule 4 - Other specially protected fauna	2005	Very certain	1	Wedgecarrup	Day sighting
Red-tailed Phascogale, Kenngoor	Phascogale calura	DECLARED THREATENED FAUNA	EN	Schedule 1 - Fauna that is rare or is likely to become extinct	2004	Very certain	17	HIGHBURY	Caught or trapped
Red-tailed Phascogale, Kenngoor	Phascogale calura	DECLARED THREATENED FAUNA	EN	Schedule 1 - Fauna that is rare or is likely to become extinct	1999	Very certain	6	Wangeling Nature Reserve	Caught or trapped
Western Rosella (inland ssp)	Platycercus icterotis xanthogenys	DECLARED THREATENED FAUNA	VU	Schedule 1 - Fauna that is rare or is likely to become extinct	1987	Moderately certain	2	Williams Nature Reserve	Day sighting
Western Rosella (inland ssp)	Platycercus icterotis xanthogenys	DECLARED THREATENED FAUNA	VU	Schedule 1 - Fauna that is rare or is likely to become extinct	1986	Moderately certain	2	Williams Nature Reserve	Day sighting
White-browed Babbler (western wheatbelt)	Pomatostomus superciliosus ashbyi	PRIORITY FAUNA	P4	Priority Four: Taxa in need of monitoring	1985	Very certain	0	Arthur River	Day sighting

 Table 3: Results for the Threatened and Priority Fauna Database search as provided by Species and Communities Branch



Figure 8: Two of the four segments investigated by Dr. Stephen Connell, Consultant Ecologist EnviroWorks Consulting '*Faunal Habitat along 4 Segments of the Albany Highway*', for Main Roads WA, 22 September 2009

Section 1 (Nash Road) 163slk-164slk [1km] Survey includes both sides of highway; up to 20 metres wide where vegetation exists; North Point 490982 E 6342247 N South Point 491834 E 6340994 N Section 2 (Hurley Road) 171.55slk -172slk [Approx 500metres] Survey includes both sides of highway up to 20 metres wide where vegetation exists. North Point 496012 E 6334717 N South Point 496491 E 6333878 N

There are few habitat values present along this road segment. No hollows were observed in the trees in the tall woodland and there are no trees large enough to possess hollows elsewhere. There are few large fallen tree limbs and there is little cover on the ground. Most of the understorey consists of ephemeral herbs and these are generally weeds. No nests were observed during field studies. It is concluded that the habitat values of this road segment are confined to seasonal food resources and as a corridor for animal movement. (Page 6)

Section 2: Section 2 (Hurley Road) 171.55slk -172slk [Approx 500metres] Survey includes both sides of highway up to 20 metres wide where vegetation exists. North Point 496012 E 6334717 N South Point 496491 E 6333878 N

No hollows were observed in the woodland and there are few trees large enough to possess hollows. No nests were observed within 30m of the highway during field studies though two small nests belonging to unknown birds were observed beyond this distance. Most of the understorey on the western verge is in good condition and varies considerably in terms of structure and composition. It is concluded that the habitat values of this road segment include nesting and shelter locations, seasonal food and water resource and as a corridor for animal movement. (Page 11)

Extracts from 'Faunal Habitat along 4 Segments of the Albany Highway', Connell 2009 (full report in Appendix N)

Appendix E LAND

Acid Sulphate Soils



Figure 9: WA Atlas (Landgate) Acid Sulphate Soils search results

Appendix F DIEBACK

Main Roads GIS search

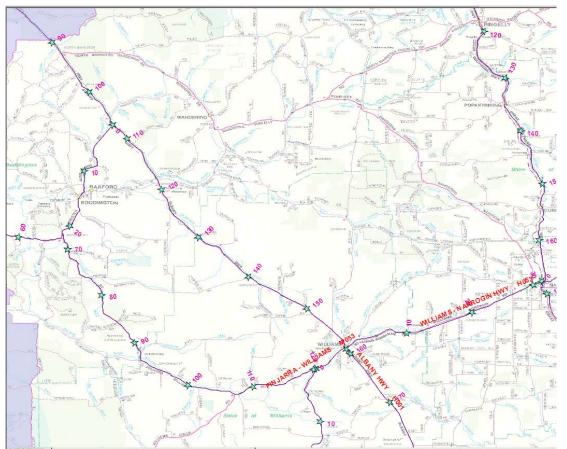


Figure 10: Main Roads GIS search of dieback mapping using DEC shape file. Note extent of dieback south to SLK 90.

Appendix G WATER

Department of Water's Geographic Data Atlas

Correspondence with Department of Water re: proclaimed surface water areas and Priority public drinking water source areas

Correspondence with Department of Water re: interference of watercourses Landgate: Shared Land Information Platform (SLIP)

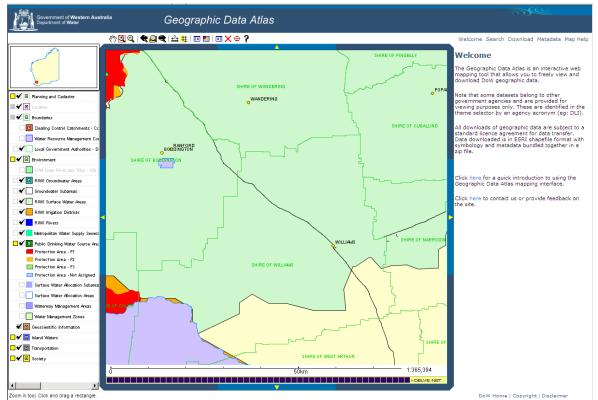


Figure 11: Department of Water's Geographic Data Atlas mapping tool

Wed 19/05/2010

Peter

I refer to the email below seeking comments on your Department's works and provide the following comments in relation to works falling within the South West Region.

Proposed works do not fall within a proclaimed surface water area or Priority public drinking water source areas.

It should be noted that the roads ie. Williams-Darkan, Coalfields, Arthur, Albany Highway, Gt Southern and Williams – Kondinin intercept/crossover many waterways and best management practices would be to ensure that disturbed areas are stabilised to ensure there is no erosion or sediment to waterways. Stabilisation could be via plantings, compaction or if necessary rock pitching.

It is understood from your referral information that there will be no camp sites, refuelling or parking of vehicles. All of which are potential risks to water quality if not managed appropriated. (Spills of fuel and oil in particular.) There should be no traversing of waterways with heavy machinery, which can cause damage to waterways banks and beds and could cause flooding. Should chipping be proposed, they should not be scattered such that they can be blown or conveyed by stormwater into waterways. Regards Carol Anderson

Carol Anderson S W Region Dept of Water

Correspondence with Department of Water re: proclaimed surface water area and Priority public drinking water source areas

18/06/2010 Hey Peter, Thank you for your phone enquiry on the 17 June requesting information about management of lateral vegetation clearing in proclaimed surface water areas. In general, proclaimed surface water areas relate to the abstraction of surface water under the Rights In Water and Irrigation Act 1914 (RIWI).

I have received advice that the interference of watercourses, as outlined in the excerpt of the RIWI below, is prohibited. Please contact the me should the vegetation clearing interfere with watercourses according to this information.

Rights In Water and Irrigation Act 1914

Part III — Control of Water Resources

Division 1B — Certain surface waters

17. Interference prohibited

- (1) Where, whether before or after the coming into operation of this Act, land was or is granted, transferred in fee simple, or demised by the Crown, a person shall not, except as authorized by a permit or by any other Act, obstruct, destroy, or interfere with any watercourse, race, or drain flowing through or over the land, or any dam or reservoir, or the bed of any disused watercourse, race, or drain, that is on the land.
- (2) Subsection (1) applies notwithstanding that although the watercourse, race, or drain flowed through or over the land, or the dam or reservoir, or the bed of a disused watercourse, race, or drain, was on the land at the time of the grant, transfer, or demise of the land, an appropriate reservation or exception was not included in the Crown grant, transfer of Crown land in fee simple, or lease.
- (3) A person shall not, except as authorized by a permit or by any other Act, obstruct, destroy or interfere with the waters, bed or banks of any watercourse flowing through or over, or wetland situate wholly or partly on, land that has not been granted or demised by the Crown.
- (3a) Without limiting subsection (1) or (3) -
 - (a) the construction or alteration of a dam is to be taken to be prohibited by that subsection; and
 - (b) the reference in that subsection to a permit is a reference to the grant of a permit by the Commission under regulations referred to in section 17B.
- (4) Any person who obstructs, destroys, or interferes with anything contrary to subsection (1) or (3) is guilty of an offence against this section; and any person who, being the occupier of any land granted or demised as mentioned in subsection (1), continues or fails to remove any such obstruction or interference is guilty of an offence against this section on every day during which such obstruction or interference is continued or not removed after notice in writing to discontinue or to remove the same has been given by or on behalf of the Commission to such occupier.
- (4a) Despite subsections (1) and (3), this section does not apply to the construction or alteration of a dam in an area, or of a size or type, excluded from the operation of this section by local by-laws if the dam is constructed or altered in accordance with such by-laws. Regards,

Patrick Ridley Natural Resource Management Officer Kwinana Peel Region, Department of Water PO Box 332 Mandurah WA 6210 Ph: 9550 4237 Fax: 9581 4560

Correspondence with Department of Water re: interference of watercourses

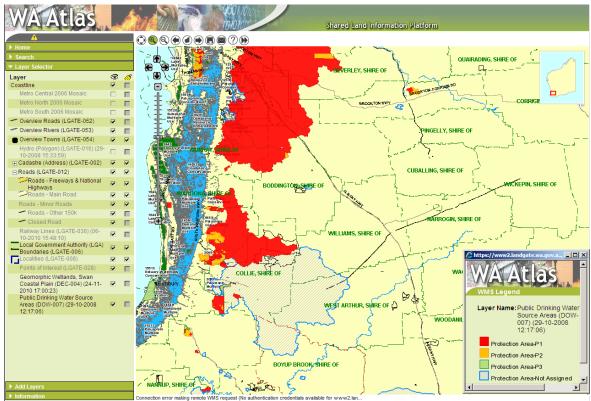


Figure 12: Landgate: Shared Land Information Platform (SLIP) search results

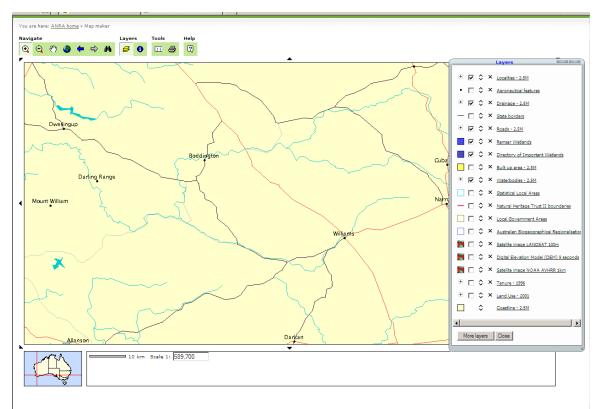


Figure 13: Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) (DEWHA) mapping tool

Appendix H HERITAGE

Department of Indigenous Affairs Heritage Inquiry System Australian Heritage Places Inventory Heritage Council of Western Australia

Shire of Boddington Heritage Inventory Shire of Williams Heritage Inventory Shire of Wandering response for heritage information

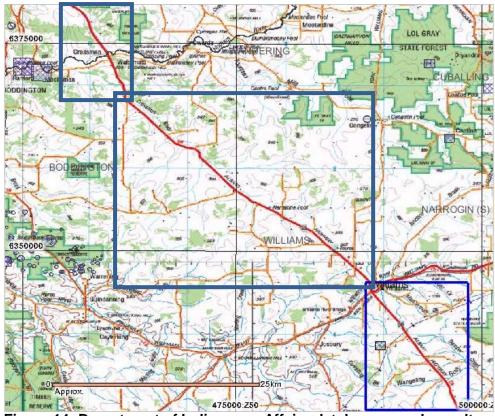
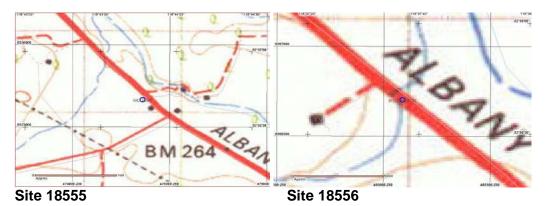


Figure 14: Department of Indigenous Affairs database search results

Government of Western Australia Department of Indigenous Affairs				Aboriginal Heritage Inquiry System Register of Aboriginal Sites					
Site ID	Status	Access	Restriction	Site Name	Site Type	Additional Info	Informants	Coordinates	Site No.
27935	Ρ	0	Ν	Hotham River	Mythological		*Registered Informant names available from DIA.	460526mE 6371350mN Zone 50 [Reliable]	

	18555	L	0	N	Albany Hwy - Marradong Road Artefacts / Scatter One			474720mE 6357332mN Zone 50 [Reliable]		
I	18556	L	0	Ν	Crossman Two	Modified Tree		465088mE 6366703mN Zone 50 [Reliable]		
	4424	I	0	Ν	Williams Reserve 18042.		Camp, [Other: RESERVE]	489891mE 6345503mN Zone 50 [Reliable]	S02799	
	5825	S	0	Ν	Coralling Springs	Man-Made Structure		489640mE 6338648mN Zone 50 [Unreliable]	S00275	





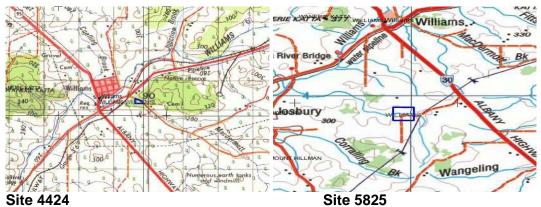
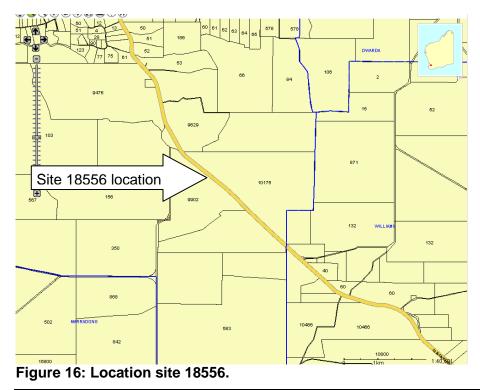
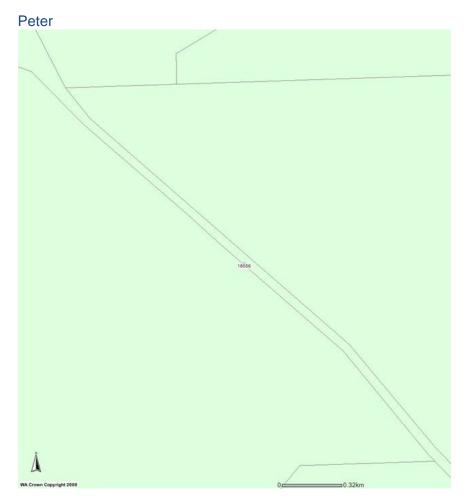


Figure 15: Insets of sites located in search Figure 14 and listed in Table 3





DIA 18556 (Crossman Two) is a scarred tree site located at the edge of the road reserve. There is not much in the way of cadastral detail around the site, but I have tried to include a couple of lot boundaries.

Denis Callaghan

Senior Heritage Officer

Government of Western Australia Department of Indigenous Affairs

1st Floor, 197 St Georges Terrace Perth WA 6000 Ph: (08) 9235 8135 Fax: (08) 92358088 Denis.Callaghan@dia.wa.gov.au www.dia.wa.gov.au

The information contained in this email, including any attachments, may contain confidential information. If you are not the intended recipient, any use, disclosure or copying of this information is unauthorised. If you have received this email in error, please notify the sender immediately by return email and then delete it from your system. Please don't print this email if you don't need to.

From: Christine Lewis Sent: Thursday, 21 October 2010 2:16 PM To: Denis Callaghan Subject: FW: Main Roads project - Albany Hwy

Hi Denis Can you also please deal with this one? Christine

From: Receptionist Sent: Thursday, 21 October 2010 11:05 AM To: Christine Lewis Subject: FW: Main Roads project - Albany Hwy

From: SWANSON Peter (PEO/A) [mailto:peter.swanson@mainroads.wa.gov.au] Sent: Thursday, 21 October 2010 11:00 AM

To: Receptionist Subject: RE: Main Roads project - Albany Hwy

Please respond to this request that has been sent three times now.

From: SWANSON Peter (PEO/A) Sent: Wednesday, 13 October 2010 9:19 AM To: 'info2@dia.wa.gov.au' Subject: RE: Main Roads project - Albany Hwy

Please respond to this request that was sent some time ago now.

From: SWANSON Peter (PEO/A) Sent: Wednesday, 15 September 2010 1:28 PM To: 'info2@dia.wa.gov.au' Subject: Main Roads project - Albany Hwy

Good afternoon Main Roads Wheat Belt South Region is proposing to undertake lateral clearance improvements along Albany Highway between SLK 115 and 172.

As part of the environmental assessment of the project I have examined the DIA Aboriginal Heritage Enquiry System and identified two registered sites 18555 (artefact/scatter site at the intersection of Albany Highway and Marradong Road) & 18556 (Modified Tree) adjacent to Albany Highway within the project area. Also the Hotham River to the north (Site 27935) has mythological significance.

I am confident that the clearing works proposed will not impact on sites 27935 & 18555; but I would like to request additional information regarding site 18556.

Please let me know if you require additional information.

Regards Peter Swanson Environment Officer Wheat Belt South / South West Region Main Roads Western Australia www.mainroads.wa.gov.au

phone: 08 9725 5692| fax: 08 9725 5666 M: 0437 318 721

Correspondence with DIA regarding Site 18556

		AUSTRALIAN HERITAGE PLACES INVENTORY	
[<u>Ne</u>	w Search]		_
1.	Dryandra Woodland Wandering Narrogin Rd, Narrogin, WA	LGA: Wandering Shire Source: Register of the National Estate	
2.	Indigenous Place North Bannister, WA	LGA: Wandering Shire Source: Register of the National Estate	

Table 4: Australian Heritage Places Inventory (no sites in Boddington or Williams)

Boddington

Boddington		
Heritage Council of WA Home Quick Search Advanced Search Results List Location Report	Home + Places Database + Search Results Displaying results: [1-1] of 1 hide selected hide unselected	Ster Hap Contact Us Accessibility Contact Us Accessibility Beach Nad Covernment Places Database A A A Help
Save Data	Road Bridge over Crossman River (3398)	Albany Hwy over Collie River, Crossman
	hide selected hide unselected	
Wandering		
Heritage Council of WA Home	Home » Places Database » Search Results	Site Map Contact Us Accessibility Site Map Contact Us Accessibility Satch here Search WA Government Places Database
Quick Search		A A A
Advanced Search	Displaying results: [1-3] of 3	Help
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Save Data		Albany Hwy, Wandering
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What Is The State Register?	Water Well (7052) hide selected hide unselected	53 Mile peg Albany Hwy, Wandering
Other Heritage Lists	hide selected hide unselected	
Williams		
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	Home » Places Dalabase » Search Results Displaying results: [1-40] of 40	A A A A
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McIntvre's Corner Site (15955)	13316 Albany Hwy Cnr Quindanning Rd, Williams
Millbrook Complex (2728)	1 Albany Hwy, Williams
Narrakine Pool, Narrakine Gully (16347)	Albany Hwy, North Williams
National Bank & Quarters (16046)	Cnr Albany Hwy & New St, Williams
North Williams School Site (16344)	Albany Hwy, North Williams
Old Police Well (15952)	22 Albany Hwy, Williams
Old Racecourse (16335)	Albany Hwy, North Williams
Old Well / Commemoration Plaque of Comprehensive Water Scheme (15959)	13306 Albany Hwy, Williams
Original Williams Cemetery (16095)	Albany Hwy, Williams
Piesse's Store - site (16045)	Albany Hwy, Williams
Playle's Blacksmith's Shop - Site (15969)	Albany Hwy, Williams
Police Quarters (2730)	20 Albany Hwy, Williams
Post Office Site (15972)	11011 Albany Hwy, Williams
Ruins & Gregory's Well (16295)	Albany Hwy, South Williams
Scouts Hall Site (15958)	13311 Albany Hwy, Williams
Sinclair's Buildings - site (16051)	42 Albany Hwy, Williams
Tarwonga Inn (3499)	Albany Hwy, Williams
<u>Well</u> (15956)	13316 Albany Hwy Cnr Quindanning Rd, Williams
Williams Golf Course (16343)	Albany Hwy, North Williams
Williams Hotel (2731)	Albany Hwy, Williams
Williams Post Office (2732)	Cnr Brooking St & Albany Hwy, Williams
Williams' Mill (4629)	Albany Hwy, Williams

Table 5: Heritage Council of Western Australia

LGAs Municipal Heritage Inventories

REFERENCE	PLACE	ADDRESS	C/T	LOT	AESTH	HIST	SCI	SOC	RAR	REP	M'gt
NUMBER	NAME		VOL/FOL	LOC'N	VAL	VAL	VAL	VAL	VAL	VAL	Category
B01	Dilyan's Grave		8641/12	Res. 21924	2	6	2	6	6	7	5
				Loc. 1381							
B02	Marradong Hall	Pinjarra-Williams Rd	710/95	Res. 2943	site only					-	5
B03	Boddington Hotel	Bannister Rd		W. Loc. 101	4	6	1	6	4	5	2
B04	Marradong Road Board Office (fmr)	Johnston St	401/13	Res. 14666 Lot 13	5	7	1	5	6	6	1
B05	St Alban's Church	Pinjarra-Williams Rd		Res. 322	6	- 7	3	6	7	6	1
	and Marradong Cemetery			Res. 27061							
B06	Red Hill Homestead	Williams Rd		W. Loc. 47	3	6	1	5	5	4	2
B07	Springfield	Pinjarra-Williams Rd		W. Loc. 54	2	3	1	3	4	4	3
B08	Long Gully Bridge	Long Gully Rd Murray River			6	6	3	5	6	6	1-2
B09	Mokine Homestead and property	Pinjarra-Williams Rd		Lot 82	3	7	3	5	5	5	1-2
B10	Railway Line Precinct	Boddington to Dwellingup			2	6	Å.	3	4	5	.2
B11	Police Station (fmr)	Boddington Caravaa Park		Res. 14963 Lot 85	4	5	1	2	2	4	3
B12	Farmer's Crossing (railway siding stopping place)	Farmers Ave 94 mile, 60 chain stop from Pinjarra		Railway Reserve	4	6	1	3	5	5	2
B13	Farmer's River Crossing (footbridge)	Palmer Rd			2	5	1	4	2	3	5

	PLACE	ADDRESS	СЛ	LOT	AESTH	HIST	SCI	SOC	RAR	REP	M'gt
NUMBER	NAME		VOL/FOL	LOCIN	VAL	VAL	VAL	VAL	VAL	VAL	Category
B14	Shepherd's Hut	Boddington			site only						5
B15	Hillside Homestead			W. Loc. 91	site only						5
B16	Hotham River Homestead	Boddington		W. Loc. 92	6	6	2	2	6	6	1-2
B17	George's House	Boddington			3	4	· 1	2	3	3	3
B18	Hope Cottage	Farmer's Ave			3	4	: 1	2	3	3	3
B19	Wayside Cottage	Boddington			site only						5
B20	Trentholme (fmr Teacher's House)				3	5	1	2	4	4	3
B21	Hotham River School	Palmers Rd		W. Lc 10827 Res. 12404	site only						5
B22	Marradong School	Pinjarra-Williams Rd		W. Loc. 11399 Res. 14322	site only						5
B23	Boddington District High School (fmr)	Bannister Rd (cnr Wuraming Ave)		Res. 17428 Lots 61, 94, 155 & 161	6	6	1	6	5	6	1-2
B24	Boddington Hall	Johnstone St		Res. 22392 Lot 15	5	5	1	7	5	6	2
825	Boddington District Hospital	53-65 Hotham Ave		Res. 22386 W. Loc. 1385	5	7	4	3	5	6	2
B26	RSL Hall	58 Hotham Ave		Lot 141	3	4	1	4	3	3	4
B27	George Chariton's House	19 Bannister Rd		Lot 19	5	4	1	2	4	4	3
B28	Shop Precinct	Bannister Rd			5	5	1	4	3	4	3
B29	St James CofE Church Hall	HiuSt			3	4	1	4	3	3	4
REFERENCE	PLACE	ADDRESS	СЛ	LOT	AESTH	HIST	SCI	SOC	RAR	REP	M'gt
NUMBER	NAME		VOL/FOL	LOCN		1					
B30			100100	LUCN	VAL	VAL	VAL	VAL	VAL	VAL	Category
	Infant Health Clinic	Bannister Rd	100100	LUC N	VAL site	VAL	VAL	VAL	VAL	VAL	Category 4/2
B31	Infant Health Clinic Hall's Cottage	Bannister Rd 27 Johnstone St		Lot 3		0 VAL	VAL	VAL4	VAL3	VAL 3	
B31 B32		27 Johnstone St		Lot 3	site 4						4/2
	Hall's Cottage				site						4/2
B32	Hall's Cottage Laura Hotel	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis		Lot 3	site 4 site only						4/2 3 5
B32 B33	Hall's Cottage Laura Hotel Tullis Mill	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Siding Hotham River - Siding Rd (nth)		Lot 3	site 4 site only site only	6	1	4	3	3	4/2 3 5 5
B32 B33 B34	Hall's Cottage Laura Hotel Tullis Mill Tullis Bridge	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Siding Hotham River - Siding Rd (nth) Motts Rd (sth)		Lot 3	site 4 site only site only 5	6	1	4	3	3	4/2 3 5 5 2
B32 B33 B34 B35	Hall's Cottage Laura Hotel Tuliis Mill Tuliis Bridge Mooliaman's Tank Mooliaman's Tank	27 Johnstone St Pinjarra-Williams Rd 2. Akm west of Tullis Skiding Hotham River - Skiding Rd (nth) Motts Rd (sth) Crossman Rd		Lot 3 W. Loc. 17 W. Loc. 20	site 4 site only site only 5 4	6	1	4	3	3	4/2 3 5 5 2 4
B32 B33 B34 B35 B36	Hall's Cottage Laura Hotel Tullis Mill Tullis Bridge Mooliaman's Tank Mooliaman's Tank Reserve Industrial Extracts	27 Johnstone St Pinjarra-Williams Rd Z-Akm west of Tullis Siding Hotham River - Siding Rd (nh) Motts Rd (sh) Crossman Rd Crossman Rd		Lot 3 W. Lee. 17	site 4 site only site only 5 4 site only	6	1	4 2 1	4	3	4/2 3 5 5 2 4 5
B32 B33 B34 B35 B36 B37	Hall's Cottage Laura Hotel Tullis Mill Tullis Bridge Mooliaman's Tank Mooliaman's Tank Mooliaman's Reserve Industrial Extracts Office A. H. Gordon &	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Skiding Hotham River - Skiding Rd (sth) Morts Rd (sth) Crossman Rd Crossman Rd 3 Tannin Pl		Lot 3 W. Loc. 17 W. Loc. 20	site 4 site only site only 5 4 site only 4	6 6 4 6	1 4 2 3	4 2 1 2	3	3 5 4 5	4/2 3 5 2 4 5 2
B32 B33 B34 B35 B36 B37 B38	Hall's Cottage Laura Hotel Tullis Mill Tullis Bridge Mooliaman's Tank Mooliaman's Tank Mooliaman's Reserve Industrial Extracts Office A. H. Gordon & Scer Timber Mill Gordon & Seg	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Siding Hotham River - Siding Rd (nth) Motts Rd (nth) Motts Rd (nth) Crossman Rd Crossman Rd 3 Tannie Pl off Hotham Ave		Lot 3 W. Loc. 17 W. Loc. 20	site 4 site only site only 5 4 site only 4 2	6 6 4 6 4	1 4 2 3 3	4 2 1 2 1	3	3 5 4 5 4	42 3 5 5 5 2 4 5 2 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4 4 5 2 4
B32 B33 B33 B34 B35 B36 B37 B38 B39 B39	Hall's Cottage Laura Hotel Tullis Mill Tullis Bridge Mooliaman's Tank Mooliaman's Tank Mooliaman's Canton Reserve Industrial Extracts Office A. H. Gordon & Scen Timber Mill Gordon & Peg Factory	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Siding Hotham River - Siding Rd (rdh) Morts Rd (rdh) Crossman Rd Crossman Rd 3 Tannie Pl off Hotham Ave Hotham Ave off Hill St Ikm south of		Lot 3 W. Loc. 17 W. Loc. 17 W. Loc. 13816 Res. 14978	site 4 site only 5 4 site only 4 4 2 2	6 6 4 6 4	1 4 2 3 3	4 2 1 2 1	3	3 5 4 5 4	42 3 3 5 5 2 4 5 2 4 4 4
B32 B33 B33 B34 B35 B36 B37 B38 B39 B40	Hall's Cottage Laura Hotel Tuliis Mill Tuliis Bridge Mooliaman's Tank Mooliaman's Tank Mooliaman's Reserve Industrial Extracts Office A. H. Gordon & Soea Timber Mill Gordon's Peg Factory Stagbouer's Mill Jack Hare's Grave	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Siding Rd (nth) Motts Rd (nth) Motts Rd (nth) Motts Rd (nth) Crossman Rd Crossman Rd 3 Tannin Pl off Hotham Ave Hotham Ave off Hill St Ikm south of Boddington		Lot 3 W. Lee. 17 W. Lee. 17 W. Lee. 13816	site 4 site only 5 4 site only 4 2 2 site only 2 site only 2	6 6 4 6 4 5	1 4 2 3 3 2	4 2 1 1 1 1	3 4 3 6 4 4	3 3 5 4 ,3	42 3 5 5 2 4 5 2 4 5 5
B32 B33 B33 B34 B35 B36 B37 B38 B39 B40 B41 B41	Hall's Cottage Laura Hotel Tullis Mill Tullis Bridge Mooliaman's Tank Mooliaman's Tank	27 Johnstone St Pinjarra-Williams Rd 2.4km west of Tullis Siding Hotham River - Siding Rd (rdh) Morts Rd (rdh) Crossman Rd Crossman Rd 3 Tannie Pl off Hotham Ave Hotham Ave off Hill St Ikm south of		Lot 3 W. Loc. 17 W. Loc. 17 W. Loc. 13816 Res. 14978	site 4 site only site only 5 4 site only 4 4 2 2 2 site only	6 6 4 6 4 5	1 4 2 3 3 2	4 2 1 1 1 1	3 4 3 6 4 4	3 3 5 4 ,3	42 3 3 5 5 2 4 5 2 4 4 5

Table 6: Shire of Boddington Heritage Inventory

SITE INDEX

Site		INDEX
No	Description	Location
1	Williams River Bridge site	Albany Hwy - Williams Townsite
2 3	Old Police Quarters Old Police Well (Convict Tank)	Albany Hwy - Williams Townsite
4	Post Office site	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
. 5	Old Police Station and site	Albany Hwy - Williams Townsite
6	Old Hospital site	Narrogin Road - Williams Townsite
8	Old Church of England site Original School site and Quarters	Narrogin Road - Williams Townsite Narrogin Road - Williams Townsite
9	Second School site	Narrogin Road - Williams Townsite
10	Second School Quarters site	Narrogin Road - Williams Townsite
12	"McIntyre's Corner" site Well	Albany Hwy/Quindanning Road - Williams Townsite Albany Hwy/Quindanning Road - Williams Townsite
13	First Tennis Courts site	Greater Sports Ground Albany Hwy - Williams
14	Scout Hall site	Townsite
14	Scout Han site	Greater Sports Ground Albany Hwy - Williams Townsite
15	Old Well / Commemoration Plaque	Greater Sports Ground Albany Hwy - Williams
16	GSCWS	Townsite
16 17	Millers' House well site Millers' House site	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
18	Millbrook Old Homestead	Albany Hwy - Williams Townsite
19 20	Millbrook Homestead Millbrook Shed	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
21	Millbrook Stables	Albany Hwy - Williams Townsite
22	Millbrook Blacksmith Shop	Albany Hwy - Williams Townsite
23 24	Millbrook Shearing Shed Millbrook Mill	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
25	First Sports Ground	Albany Hwy - Williams Townsite
26	Blacksmith's (Playle's) site	Albany Hwy - Williams Townsite
27 28	Agricultural Hall Cornwall's Premises site	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
29	Harding's Garage (Williams Rural	Albany Hwy - Williams Townsite
	Supplies)	
30 31	Post Office Commercial Precinct site	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
32	Piesse's Store site	Albany Hwy - Williams Townsite
33	National Bank	Albany Hwy - Williams Townsite
34 35	Cosy Corner Tea Rooms King's Hall site	Albany Hwy - Williams Townsite
36	Blacksmith Shop/Butcher's Shop site	Albany Hwy - Williams Townsite Albany Hwy - Williams Townsite
37	Williams Hotel	Albany Hwy - Williams Townsite
38	First Williams Garage (Shell Service Station)	Albany Hwy - Williams Townsite
39	Sinclair's buildings site	Brooking St - Williams Townsite
40	Shire Offices	Brooking St/Growse St - Williams Townsite
41 42	Cullen's (Commercial) Hotel site Masonic Hall (St John Ambulanc	Growse St - Williams Townsite e Growse St - Williams Townsite
	Centre)	
43 44	Old Sheep Yards site "Clayton" Residence (S.C. Kealley)	Growse St/Richardson St - Williams Townsite Growse St - William Townsite
45	Palmer's House & Shed	Rosselloty St - Williams Townsite
46	School House site	Richardson St/Rosselloty St - Williams Townsite
• 47	Williams School	Richardson St - Williams Townsite
48 49	Recreation Ground site Residence (formerly HV Carne)	Richardson St - Williams Townsite Piesse St - Williams Townsite
50	Former Hospital / Rectory	Fry St - Williams Townsite
51	Hospital site	Fry St - Williams Townsite
52	Residence (formerly J Giles)	Richardson St - Williams Townsite
53 54	site of Bush Brotherhood / Hospital	Richardson St/Adam St - Williams Townsite
55	Holy Trinity Church Old Well	Rosselloty St - Williams Townsite Brooking St - Williams Townsite
56	Butcher's Shop	Brooking St - Williams Townsite
57	Bakery	Brooking St - Williams Townsite
58	Williams General Store	Brooking St - Williams Townsite
59 60	Williams Newsagency Williams Club (old National Bank)	Brooking St/Grouse St - Williams Townsite Brooking St/Growse St - Williams Townsite
61	Residence	New Street - Williams Townsite
62	Residence	Growse Street - Williams Townsite
63 64	Residence Rabbit Chillers	Growse Street - Williams Townsite Growse Street - Williams Townsite
65	Causeway	Williams River - Williams Townsite
66	Railway Houses site	Richmond Street - Williams Townsite
67	Railway Station site	Richmond Street - Williams Townsite
68	Railway Store site Playle's Residence	Richmond Street - Williams Townsite Richmond Street - Williams Townsite
70	Timber Mill Houses site	Narrogin Road - Williams Townsite
71	Original Golf Course	Albany Hwy - Williams Townsite
72	Bell's Hill	Albany Hwy - Williams Townsite
73 74	Old Williams Cemetery Lemon Scented Gums	Albany Hwy - Williams Townsite
75	New Williams Cemetery	Albany Hwy - Williams Townsite Glenfield Road - Williams Townsite
76	Railway Dam	Glenfield Road - Williams Townsite
77	Rifle Range site	Glenfield Road - Williams Townsite
78	Old Abbattoir site	Glenfield Road - Williams Townsite
79 80	Munthoola Homestead Munthoola Stone Wall / Orchard	'Munthoola' - Williams 'Munthoola' - Williams
81	Munthoola Shed	'Munthoola' - Williams
82	Munthoola Shearing Shed	'Munthoola' - Williams
83	Warren's Residence	Williams/Quindanning Road
84 85	Warren's Shearing Shed "Warren's Bridge"	Williams/Quindanning Road Williams/Quindanning Road
86	"Axlegrease" Homestead ruins	Williams/Quindanning Road Williams/Quindanning Road
		2

	87	"Boodyhole" Homestead ruins	Williams/Quindanning Road
	88	Strangers Pool School site / Birchell	Williams/Quindanning Road
		Spring	
	89	Dookering Hill	Williams/Quindanning Road
	90	McDermott's Hill (Rock)	Williams/Quindanning Road Williams/Quindanning Road
	91 92	Charcoal Pit Washpool	Williams/Quindanning Road
•	93	Bannister's Campsite	Williams/Quindanning Road
	94	Hynes Homestead ruins	Williams/Quindanning Road
	95	Old Dookening Homestead and	Williams/Quindanning Road
		Shearing Shed sites	
	96	Dookening Homestead	Williams/Quindanning Road
	97	Dookening Shearing Shed	Williams/Quindanning Road
	98	Dalyerring Homestead	Williams/Quindanning Road
	99	Boranning Bridge	Willaims/Quindanning Road - Boranning
	100	Foundations ruins	Willaims/Quindanning Road - Boranning Willaims/Quindanning Road - Boranning
	102	Williamsburg Townsite Oulnine Homestead site	Willaims/Quindanning Road - Boranning
	102	Shepherd's Hut	Willaims/Quindanning Road - Boranning
	104	Stone Wall	Willaims/Quindanning Road - Boranning
	105	Old Sound Road Crossing	Willaims/Quindanning Road - Boranning
	106	Jennamarten Rock	Willaims/Quindanning Road - Boranning
	107	Warren's Homestead site	Willaims/Quindanning Road - Boranning
	108	Old Boranning Homestead	Willaims/Quindanning Road - Boranning
	109	Old Boranning Shearing Shed	Willaims/Quindanning Road - Boranning
	110	New Boranning Homestead Stone Ford	Willaims/Quindanning Road - Boranning Willaims/Quindanning Road - Boranning
	112	House (Recording Studio)	Willaims/Quindanning Road - Boranning
	113	Meridian Hill	Willaims/Quindanning Road - Boranning
	114	Marling (Boranning) Telephone	Willaims/Quindanning Road - Boranning
		Exchange	
	115	Greystone Homestead	Willaims/Quindanning Road - Boranning
	116	Orange Tree - Greystones	Willaims/Quindanning Road - Boranning
	117	Pear Tree - Greystones	Willaims/Quindanning Road - Boranning
	118	Mt Taurus Starting Creak	Willaims/Quindanning Road - Boranning
	119 120	Starting Creek River Ford (Cowcher's Crossing)	Willaims/Quindanning Road - Boranning Willaims/Quindanning Road - Boranning
	120	"Pleasant View"	Williams/Quindanning Road - Marling
	122	Marling School	Williams/Quindanning Road - Marling
	123	Gravesites	Williams/Quindanning Road - Marling
	124	Tennis Courts	Williams/Quindanning Road - Marling
1	125	Brick Work site	Williams/Quindanning Road - Marling
	126	Marling site	Williams/Quindanning Road - Marling
	127	New Marling Homestead	Williams/Quindanning Road - Marling
	128 129	New Marling Store New Marling Stables	Williams/Quindanning Road - Marling Williams/Quindanning Road - Marling
	130	New Marling Shearing Shed	Williams/Quindanning Road - Marling
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	131	New Marling Hay Shed	Williams/Quindanning Road - Marling
			Williams/Quindanning Road - Marling
	132	Marling (Boranning) Cemetery	With any Quindanting Roud - With hing
	132 133	Lavender Home site	Williams/Quindanning Road - Marling
	132 133 134	Lavender Home site "Hillcrest"	Williams/Quindanning Road - Marling Williams/Quindanning Road - Marling
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	132 133 134	Lavender Home site "Hillerest" William & Annie Lavender Home site Pumptrey's site	Williams/Quindanning Road - Marling Williams/Quindanning Road - Marling
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15 Mile Spring 178 179 Coolakin Spring Rifle Downs 180 Causeway (bridge) 181 Josbury Siding site Josbury Well Stranger's Pool Bridge 182 183 184 185 Stranger's Pool Washpool Josbury Homestead Mt Hillman 186 187 188 Chaff Shed (Cowchers) Culbin School site Culbin Siding site 189 190 191 192 Chaff Shed site Well 192 Barooga Homestead 194 195 Maid's Quarters (Barooga) Barraminning Dairy Wild Horse Creek 196 196 Meaking Lagoon West Dardadine School 198 199 Dardadine Tennis Courts 200 Dardadine Well Dardadine Siding site 201 202 "Dardadine" ruins 203 204 Dardadine Telephone Exchange Survey Tree Hillier's Homestead site 205 206 207 Hillard's Cottage Homestead site 208 West Tarwonga Telephone Exchange 209 210 211 Sattler Homestead Tank Stand Lilly's Well Tarwonga Telephone Exchange (No. 2) Tarwonga Inn Tarwonga Telephone (No. 1) 212 213 214 Tarwonga School No. 1 Tarwonga Cricket Ground (old) 215 216 Tarwonga Football Ground Tarwonga Well Tarwonga School No. 3 217 218 219 Tarwonga School No. 2 220 221 Tarwonga Hall, Tennis Courts sites (old) Tarwonga Hall 222 223 Tarwonga Cricket Ground 224 Tarwonga Tennis Courts "Montrose" site 225 226 Quarry 227 228 Crushing site Ruins 229 Gregory's Well 230 Gillett's Housesite 231 Marjidin Homestead 232 Juganinning Spring 233 **Glenfield** Store 234 Glenfield Homestead 235 Glenfield Well 236 Glenfield Sheds (Stables, Chaff Shed etc) 237 Glenfield School site 238 Doctor's Farm 239 Bannister Townsite 240 Military Barracks The Parsonage 241 242 Kondenning Katta Hill 243 Grainger's Graves Grainger's House site 244 Kondenning Pool McCauley's Housesite Vineyards 245 246 247 Junction Brook Auburn Valley Homestead (1) (old) Auburn Valley Homestead (2) 248 249 250 251 Coalling Homestead Coalling Shed 252 Coalling Homestead site York Road Well Folland's Dairy site 253 254 255 Folland's House site 77 Mile Post 256 257 258 259 Bell's Homestead Bell's Blacksmith Shop Bell's Shearing Shed / Hay Shed / Yards 260 261 Congeling Hall Congeling Townsite Congeling Cricket Ground site 262 263 Congeling Railway Dam Congeling Railway Siding site Congeling Mill 264 265 266 Old Race Course Bush Brotherhood House 267 268 Bush Brotherhood Outhouse

Collie / Williams Road Collie / Williams Road Darkan / Quindanning Road Darkan/Williams Road, Josbury Darkan/Williams Road, Josbury Josbury Siding, Josbury Williams River, Josbury Williams River, Josbury Josbury Siding, Josbury Darkan/Williams Road Darkan/Williams Road, Culbin Darkan/Williams Road, Culbin Darkan/Williams Road, Culbin Culbin Siding, Culbin Hurley Road, Culbin "Barooga", Culbin / Boranning Road "Barooga", Culbin / Boranning Road "Barraminning", Culbin/Boranning Road Darkan / Williams Road, Hillman Darkan / Williams Road, Hillman Dardadine West Road, Dardadine Dardadine West Road, Dardadine Dardadine West Road, Dardadine Narrogin / Collie Railway, Dardadine Dardadine Siding, Dardadine Dardadine Siding, Dardadine Hurley Road, Culbin Hurley Road, Culbin West Tarwonga West Tarwonga West Tarwonga Lillydale, Williams/Sattler Rd, West Tarwonga Lillydale, Williams/Sattler Rd, West Tarwonga Lillydale, Williams/Sattler Rd, West Tarwonga Williams/Sattler Rd, West Tarwonga Albany Highway, Tarwonga Recreation Reserve, Albany Hwy, Tarwonga Recreation Reserve, Albany Hwy, Tarwonga Recreation Reserve, Albany Hwy, Tarwonga Albany Hwy, South Williams Glenfield Road, Glenfield Narrogin Road, Williams Narrogin Road, Carter's Crossing Bannister Townsite, Narrogin Rd, Carter's Crossing Auburn Valley, Clayton Rd, Williams Auburn Valley, Clayton Rd, Williams York/Williams Rd, Coalling York/Williams Rd, Coalling York/Williams Rd, Coalling York/Williams Rd, Coalling York/Williams Rd, North Williams

Bannister Townsite, Narrogin Rd, Carter's Crossing Clayton/Narrogin Rd, Williams

York/Williams Rd, North Williams York/Williams Rd, North Williams York/Williams Rd, North Williams York/Williams Rd, North Williams York/Williams Rd, North Williams York/Williams Rd, Congeling York/Williams Rd, Congeling York/Williams Rd, Congeling York/Williams Rd, Congeling Narrogin/Dwarda Railway, Congeling Narrogin/Dwarda Railway, Congeling Narrogin/Dwarda Railway, Congeling Albany Highway, North Williams Lefroy Road, North Williams Lefroy Road, North Williams

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	270	Bush Brotherhood Yards	Lefroy Road, North Williams
	271	Bingham's Out House	Albany Highway, North Williams
	272	Bingham's House site	Albany Highway, North Williams
	273	Bingham's Graves	Albany Highway, North Williams
	274	Ruins	Playle Road, North Williams
	275	Golf Club	Albany Highway, North Williams
	276	North Williams School site	Albany Highway, North Williams
•	277	Hogan's Homestead	Albany Highway, North Williams
	278	'Collindale' Homestead site	Albany Highway, North Williams
	279	Narrakine Homestead site	Albany Highway, Narrakine
	280	Narrakine Pool	Crossman River, Albany Highway, Narrakine
	281	Lavender's Track	Narrakine Reserve, Albany Highway, Narrakine
	282	Narrakine School site	Albany Highway, Narrakine
	283	Wilkie Homestead	Narrakine Reserve, Albany Highway, Narrakine
	284	Marsh Grave	Narrakine Reserve, Albany Highway, Narrakine
	285	Old Baiting Place	Narrakine Reserve, Albany Highway, Narrakine
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Table 7: Shire of Williams Heritage Inventory

Hi Peter,

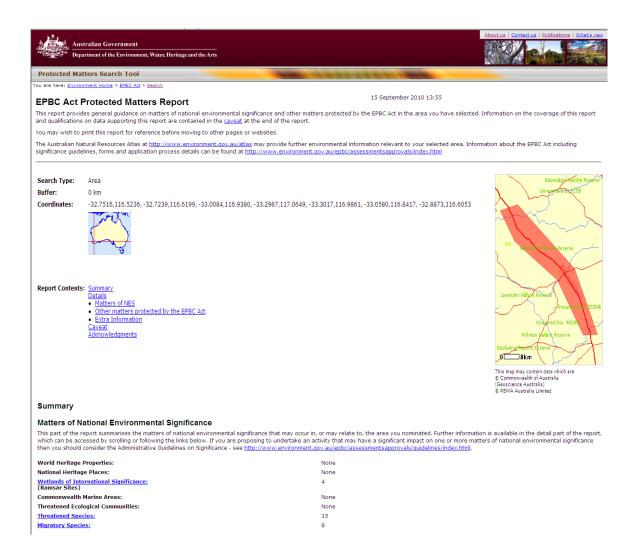
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I apologise for the late reply. However I think you will find the information you need is held by either the Shire of Boddington or the Shire of Williams I hope this helps you

Kind regards, *Hayley Barge* **CUSTOMER SERVICE OFFICER** Shire of Wandering 22 Watts Street WANDERING WA 6308 PH: (08) 9884 1056 Fax: (08) 9884 1510 email: <u>reception@wandering.wa.gov.au</u> website: <u>www.wandering.wa.gov.au</u> **Shire of Wandering Heritage Correspondence**

Appendix I Matters of National Significance

Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) mapping tool



etlands of International Significance [Dataset Informati	ion]			
Ramsar Sites)	Within same catchm	ent as Ramsar site		
DRRESTDALE & THOMSONS LAKES	Within same catchin			
EEL-YALGORUP SYSTEM	Within same catchm			
OOLIBIN LAKE	Within same catchm	ent as Ramsar site		
hreatened Species [<u>Dataset Information</u>] I irds	Status	Type of Presence		
<i>alv<u>ptorhvnchus banksii naso</u></i> orest Red-tailed Black-Cockatoo	Vulnerable	Species or species habita	at may occur within	area
<u>alvotorhynchus baudinii</u> audin's Black-Cockatoo, Long-billed Black-Cockatoo	Vulnerable	Roosting known to occur	within area	
<i>alvptorhynchus latirostris</i> Carnaby's Black-Cockatoo, Short-billed Black-Cockatoo	Endangered	Breeding likely to occur w	vithin area	
<u>eipoa ocellata</u> falleefowl	Vulnerable	Species or species habita	at likely to occur wit	thin area
4ammals Bettongia penicillata ogilbvi	Endangered	Species or species habita	at may occur within	area
Voylie <u>Jasv<i>urus geoffroii</i></u>	Vulnerable	Species or species habita	at likely to occur wit	thin area
Chuditch, Western Quoll <u>Phascogale calura</u>	Endangered	Species or species habita	at may occur within	area
Red-tailed Phascogale Plants				
i <u>denanthos puncens subsp. effusus</u> Sprawling Spiky Adenanthos	Endangered	Species or species habita	at may occur within	area
l <u>anksia oligantha</u> Vagin Banksia	Endangered	Species or species habita	at likely to occur wit	thin area
ca <u>ladenia dorrienii</u> Cossack Spider-orchid	Endangered	Species or species habita	at likely to occur wit	thin area
Centrolepis caespitosa Conostylis drummondii		Species or species habita Species or species habita		
orustylis draffirfoldin Drummond's Conostylis Roycea pycnophylloides		Species or species habita		
Galtmat Rulingia sp. Trigwell Bridge (R.Smith s.n. 20/6/1989)		Species or species habita		
rrigwell's Rulingia /erticordia fimbrilepis subsp. fimbrilepis		Species or species habita		
Shy Featherflower Aigratory Species [<u>Dataset Information</u>]	Status	Type of Presence	,	
ligratory Terrestrial Species		.,,,		
Birds Haliaeetus leucogaster	Migratory	Species or species habita	at likely to occur wi	thin area
White-bellied Sea-Eagle <u>.ei<i>poa ocellata</i></u> 4alleefowl	Migratory	Species or species habita	at likely to occur wi	thin area
M <u>erops ornatus</u> Rainbow Bee-eater	Migratory	Species or species habita	at may occur within	area
Nigratory Wetland Species				
Birds Ardea alba	Migratory	Species or species habita	at may occur within	area
Sreat Egret, White Egret A <u>rdea ibis</u>	Migratory	Species or species habita		
Cattle Egret Aigratory Marine Birds				
Apus pacificus Fork-tailed Swift	Migratory	Species or species habita	at may occur within	n area
Ar <i>dea alba</i> Sreat Egret, White Egret	Migratory	Species or species habita	at may occur within	n area
Ar <i>dea ibis</i> Cattle Egret	Migratory	Species or species habita	at may occur within	n area
Other Matters Protected by the EPBC Act				
isted Marine Species [Dataset Information]			Status	Type of Presence
lirds			Listed - overfly	Species or species habitat may occur within area
iork-tailed Swift Iork-tailed Swift			Listed - overny marine area Listed - overfly	
<u>vroea aloa</u> Great Egret, White Egret Ardea ibis			Listed - overny marine area Listed - overfly	Species or species habitat may occur within area
roea nos Cattle Egret Hallaeetus leucogaster			marine area Listed	Species or species natical may occur within area Species or species habitat likely to occur within area
White-bellied Sea-Eagle Merops ornatus			Listed - overfly	Species or species habitat may occur within area
Rainbow Bee-eater Commonwealth Lands (<u>Dataset Information</u>)			marine area	
Jnknown				
extra Information				
State and Territory Reserves [<u>Dataset Information</u>]				
Arthur River Nature Reserve, WA Jn-named (No. 30394) Nature Reserve, WA				
Vestmere Nature Reserve. WA Williams Nature Reserve, WA				
Regional Forest Agreements [<u>Dataset Information</u>] Note that all RFA areas including those still under conside				

Figure 16: Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) report of Matters of National Significance



Figure 17: Locations of RAMSAR listed wetlands as listed in the DSEWPC report (above).

Appendix J

Site Photos



Photo 1: SLK 136.83 - Indicates the proposed clear zone width for straight sections of road



Photo 2: SLK - 128.95 – Large tree 4m from edge line



Photo 3: SLK 144.86 - Shows a 5m clear zone in the foreground and 3.5m in the background



Photo 4: SLK 149.07 - Large tree 5m from edge line



Photo 5: SLK 161.15 – Large tree 4.5m from edge line



Photo 6: SLK 161.79 - Large tree 4m (foreground) and 2.5m from edge line



Photo 7: SLK 161.99 - Large tree 3.5m (foreground) and 2m from edge line



Photo 8: SLK 165.15 – Large tree 3.5m from edge line



Photo 9: SLK 165.67 – Large tree 3.5m from edge line with hollow base (inset photo)



Photo 10: SLK 166.25 - Large tree 3.5m from edge line



Photo 11: 168.11 - Large tree 2m from edge line



Photo 12: SLK 170.08 - Large dead tree stump 2m from edge line

Appendix K

Vegetation Clearing Assessment Report

MRWA Vegetation Clearing Assessment Report

This report has been prepared to assist MRWA in addressing condition 7 "Assessment of Clearing Impacts" under Clearing Permit CPS 818/3.

For guidance on how to complete the form, refer to DEC completed reports (active permits) at

http://203.20.251.10 AREA UNDER AS Proponent details	SESSMENT [DETAILS				
Proponent's name:	MRWA	N Contraction of the second seco				
Contacts:	Name: Phone Fax: Email:	: 9725 5661 9725 5666	nainroads.wa.gov.au			
Property details						
Property: Colloquial name:	Road r	eserve along Albany Highwa	y SLK 115-172			
Area under asses	sment					
Clearing Area (ha)	No. Trees	Method of Clearing	For the purpose of:	Site Plan Attached		
3.6ha	n/a	Manual & mechanically	Lateral clearance improvement	☐ Yes X No		
Clearing of vegetation is o	mpacts been minin ken to identify the lo only to the extent of	nised? cation of trees with a trunk girth providing safe clear zones to ac	ceptable standards.	ne ground		

Only selected vegetation is to be removed; under storey, and all other frangible vegetation is to be retained.

BACKGROUND

Existing environment and information

There is a range of vegetation types and conditions throughout the 57 kilometer length of the project area. In general though, the vegetation proposed to be cleared is of a Degraded condition comprised of a narrow strip of roadside remnant native plants remaining after early land clearing. There is virtually no understorey for the majority of the project length and a proliferation of weed (pasture) grass species and other exotic plants.

There is however some stands of vegetation in Good to Very Good condition in locations proximate to some of the water courses that cross the highway. The majority of the larger trees to be removed are within the current maintenance zone.

Degraded: Basic vegetation structure severely impacted by disturbance. Scope for regeneration but not to a state approaching good condition without intensive management.

Good: Vegetation structure significantly altered by very obvious signs of multiple disturbance. Retains basic vegetation structure or ability to regenerate it. Very Good: Vegetation structure altered, obvious signs of disturbance. (Kieghery 1994)

Site Visit Undertaken	X Yes	□ No	Fauna / Flora Surv	vey Undertaken	☐ Yes	X No
Site Report Attached	☐ Yes	X No	Fauna / Flora Surv	vey Report Attached	☐ Yes	X No
Site Photos Attached	X Yes	□ No	Other Relevant Re	ferences Attached	☐ Yes	X No
Vegetation Complex Mosaic: Tall forest; jarrah & marri Tall forest; karri & l			Clearing Description Mechanical / hand	Vegetation Cond Native vegetation condition is gener- good		Comment

calophylla) Medium forest; jarrah-marri

ASSESSMENT OF APPLICATION AGAINST CLEARING PRINCIPLES

(a) Native vegetation should not be cleared if it comprises a high level of biological diversity. Comments Proposal is NOT LIKELY to be at variance to this Principle

The vegetation proposed to be cleared is either along the fringe of a narrow strip of roadside native plants remaining after early land clearing or individual mature specimens that are within the required

	 clear zone. The clearing would not be considered to compromise a high level of biodiversity because the majority of it is in a degraded condition. Where there is forest adjacent to some sections of the project area, it is in good or better condition and there are significant areas of similar vegetation in the local area. Most of the trees to be removed will be specific individual specimens which are not considered as significant habitat for fauna. The trees tend to be healthy specimens with no broken limbs or rotted cavities to provide nesting hollows. The small number of Marri trees to be removed will not significantly reduce food sources for Black Cockatoos. 				
	There are no instances of threatened ecological communities in the project area. Occurrences of Halgania corymbosa P3, Stylidium rhipidium P3 and Acacia cuneifolia P4 have been recorded in proximity of the project area. A survey for these species will need to be undertaken prior to clearing to ensure that there will be no impact to populations, if they currently exist. Therefore the clearing not likely to be at variance to this principle.				
Methodology	Site inspection and land (significant tree) survey Main Roads GIS data base search (DEC shape file) Department of Environment and Conservation Species and Communities Branch				
(b) Native vegetation should not be cleared if it comprises the whole or a part of, or is necessary for the maintenance of, a significant habitat for fauna indigenous to Western Australia.					
Comments	Proposal is MAY BE at variance to this Principle				
	Given that the majority of the land adjacent to the project is cleared for agricultural usage; it may be considered that any extent of clearing may reduce food sources, movement corridors and potential habitat sites of fauna indigenous to Western Australia. Black cockatoo food sources and habitat may be impacted.				
Methodology	Site inspection and land (significant tree) survey				
(-)					
(c) I	Native vegetation should not be cleared if it includes, or is necessary for the continued existence of, rare flora.				
Comments	Proposal is NOT LIKELY to be at variance to this Principle				
	No rare flora is registered as being present in the project area.				
Methodology	Department of Environment and Conservation (DEC) Native Vegetation Map Viewer. http://maps.dec.wa.gov.au/idelve/nv/index.jsp				
	Department of Environment and Conservation Species and Communities Branch Main Roads GIS data base search (DEC shape file)				
(d) Nat	ive vegetation should not be cleared if it comprises the whole or a part of, or is necessary				
	for the maintenance of a threatened ecological community.				
Comments	Proposal is NOT LIKELY to be at variance to this Principle No priority or threatened ecological communities are registered as being present in the project area.				
Methodology	Department of Environment and Conservation (DEC) Native Vegetation Map Viewer. http://maps.dec.wa.gov.au/idelve/nv/index.jsp				
	Department of Environment and Conservation Species and Communities Branch: search reference number:				
	23-0410				
	23-0410 Main Roads GIS data base search (DEC shape file)				
(e) Nati	Main Roads GIS data base search (DEC shape file) ive vegetation should not be cleared if it is significant as a remnant of native vegetation in				
	Main Roads GIS data base search (DEC shape file) ive vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.				
(e) Nati	Main Roads GIS data base search (DEC shape file) ive vegetation should not be cleared if it is significant as a remnant of native vegetation in				

Comments					
Planning instrument, Native Title, RIWI Act Licence, EP Act Licence, Works Approval, Previous EPA decision or other matter.					
Methodology	Site inspection				
Comments	Proposal is NOT LIKELY to be at variance to this Principle The proposed work is of a limited nature and will not cause or exacerbate the incidence or intensity of flooding.				
(j)	Native vegetation should not be cleared if clearing the vegetation is likely to cause, or exacerbate, the incidence or intensity of flooding.				
Methodology	Site inspection				
Comments	Proposal is NOT LIKELY to be at variance to this Principle The proposed work is of a limited nature and will not cause deterioration of surface or groundwater.				
	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.				
	http://maps.dec.wa.gov.au/idelve/nv/index.jsp Main Roads GIS data base search (DEC shape file)				
Methodology	Department of Environment and Conservation (DEC) Native Vegetation Map Viewer.				
in Comments	mpact on the environmental values of any adjacent or nearby conservation area. Proposal is NOT LIKELY to be at variance to this Principle There are no conservation areas in the vicinity of the proposed clearing.				
(h) Native vegetation should not be cleared if the clearing of the vegetation is likely to have an					
Methodology	Site inspection				
Comments	Proposal is NOT LIKELY to be at variance to this Principle The limited extent of the proposed clearing is unlikely to cause appreciable land degradation.				
(g) N	Native vegetation should not be cleared if the clearing of the vegetation is likely to cause appreciable land degradation.				
	Main Roads GIS data base search (DEC shape file)				
Methodology	using manual (rather than mechanical) methods so as to avoid impact to beds and banks. Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) (DEWHA) search of Protected Areas Department of Water Geographic Data Atlas mapping tool				
Somments	Proposal is NOT LIKELY to be at variance to this Principle No watercourses or wetlands are registered as being present in the project area. There are however various minor water courses that cross the highway. The EMP that accompanies this assessment states that any vegetation removed within 50 m of these locations shall be undertaken				
Comments	environment associated with a watercourse or wetland.				
(f)	Status" (car_reserve_analysis_2006.xls) EPA Guidance Statement No.19 'Guidance for the Assessment of Environmental Factors (Environmental Offsets), 2008. Native vegetation should not be cleared if it is growing in, or in association with, an				
Methodology	variance to this principle. SLIP NRM database & Main Roads file "Native Vegetation in Western Australia - Extent, Type and				
	SLK 160 vegetation association 7 (<i>Medium woodland; York gum (Eucalyptus loxophleba)</i> & <i>Wandoo</i>) occurs with 13.8% remaining and 15.66% in the Shire of Williams. Given the under-representiveness of some of these vegetation associations, the clearing may be at				

Methodology

If required have submissions been requested and addressed							
Submission Requested from	Request Sent (Date)	Submission Received (Date)	Issues Raised / Comments Made				

ASSESSOR'S RECOMMENDATIONS

SUBMISSIONS

List of Principles seriously at variance, at variance or maybe at Recommendation: variance variance The proposed clearing MAY BE at variance with Therefore in ord

Clearing Principles (b) and (e).

Therefore in order to use Main Roads Clearing Permit CPS 818/4 to undertake the the clearing, submissions shall be invited from the relevant stakeholders.

OFFICER PREPARING REPORT

Peter Swanson Position: Title E0 WBS Regional Office MRWA Phone: 97255692

Date: December 2010

Appendix L

References

Connell, S. Dr.: Consultant Ecologist EnviroWorks Consulting - *Faunal Habitat along 4 Segments of the Albany Highway*. For Main Roads Department 22 September 2009

Department of Agriculture and Food: SLIP NRM database & Main Roads file "*Native Vegetation in Western Australia - Extent, Type and Status*" (car_reserve_analysis_2007.xls)

Department of Environment and Conservation: A Guide to the Assessment of Applications to clear Native Vegetation under Part V of the Environmental Protection Act 1986.

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Environmental Protection Authority: Position Statement No.9 'Environmental Offsets', 2006.

Government of Western Australia 2000, Bush Forever Volume 2: *Directory of Bush Forever Sites*, Department of Environmental Protection, Perth.

Hussey, B.M.J., Keighery, J., Dodd, S.G. & Cousens, R.D.2007: *Western Weeds: A Guide to the Weeds of Western Australia*, Second Edition. Keighery BJ 1994, Bushland Plant Survey. *A Guide to Plant Community Survey for the Community*. Wildflower Society of WA (Inc.), Nedlands.

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Appendix M

Letter to Stakeholders & Stakeholder (DEC) Submission

Manager Native Vegetation Conservation Branch Department of Environment and Conservation Locked Bag 104 Bentley Delivery Centre WA 6983

Dear Sir/Madam

ALBANY HIGHWAY - LATERAL CLEARANCE IMPROVEMENTS (SLK 115-172)

Main Roads Wheat Belt South (WBS) Region proposes to establish the AustRoads standard lateral clear zone along Albany Highway between SLK 115 and 172 in the Shires of Wandering, Boddington and Williams. The clearing for the project has been assessed against the *Environmental Protection Act's* Clearing Principles and it is considered that the clearing may be at variance with one or more of the clearing principles. Therefore in accordance with Condition 8(a) of Main Roads' Clearing Permit CPS 818/5 Main Roads invites submissions from relevant stakeholders.

The clear zone is the area from the edge of the traffic lane that is available for emergency use by errant vehicles. The width of the clear zone to AustRoads standards is dependent on the design speed of that section, the geometry of the road and the slope of the batter at that point. Vegetation alongside cuttings will need less treatment as compared to locations where the road has been in-filled and is maintained by battered slopes.

The majority of this section of Albany Highway has a speed limit of 110kph. It is proposed to establish a clear zone of average 6.5m on straight sections and inside of curves; and up to 9.0m on the outside of curves. The clearing will be undertaken by selectively removing vegetation that currently is or has the potential to grow a trunk diameter larger than 300mm. Not all of the length of the project area needs treatment as there is currently sections that have either adequate clear zone or have no vegetation at all. Also, different sections require differing widths of clearing to establish appropriate clear zones; in some instances only the fringing meter. The estimated area of native vegetation to be cleared for the widening is approximately 3.6ha. All of the clearing will occur in existing Main Roads' reserve.

The following was noted from site investigations:

- The vegetation to be cleared consists of marri, jarrah and wandoo woodland;
- The road reserve is approx 20m on the western side and 10m on the eastern side with generally only 4-5m of vegetated verge on each side of the road
- Other than shrub and sapling material, trees generally range from between 100-400 mm in diameter with the occasional tree up to 600 mm diameter
- There are a few hollows in the larger specimens that may provide habitat
- Using the Keighery Vegetation Condition Rating; the condition of the native vegetation to be cleared ranges from Rating 4 6: Good to Completely Degraded
- The majority of the project area adjoins farm and pastoral land

There is a range of vegetation types and conditions throughout the 57 kilometer length of the project area. According to the Department of Agriculture and Food NRM SLIP database the majority of the project length occurs within Vegetation Association 4 (*Medium woodland; marri & wandoo*) which retains 24.24% of its pre-European extent in the IBRA Region (*Jarrah Forest*) and 30.29% in the IBRA Sub-Region (*Jarrah Forest North*).

There are some small sections occurring in under represented Vegetation Association 7 (*Medium woodland; York gum (Eucalyptus loxophleba)* & *wandoo*) with 13.8% and 19.39% respectively and Vegetation Association 352 (*Medium woodland; York gum*) with 16.63% and 16.82%. The project also encounters small areas of Vegetation Association 1003 (*Medium forest; jarrah, marri & wandoo*) with 41.46% and Vegetation Association 1005 (*Low woodland; Allocasuarina huegeliana*) with 54.73%.

In general the vegetation proposed to be cleared is of a Degraded condition comprised of a narrow strip of roadside remnant native plants remaining after early land clearing. There is virtually no understorey for the majority of the project length and a proliferation of weed (pasture) grass species and other exotic plants. There is however some stands of vegetation in Good condition in locations proximate to some of the water courses that cross the highway. The majority of the larger trees to be removed are isolated specimens within the current maintenance zone.

Because of the above information, Main Roads considers that the project may be at variance to the following principles:

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

(e) Native vegetation should not be cleared if it is significant as a remnant of native vegetation in an area that has been extensively cleared.

If your organisation wishes to comment on this proposed project, please provide your submission by COB 10 December 2010 to PO Box 194 Narrogin WA 6312 or email to peter.swanson@mainroads.wa.gov.au.

For further details, please contact Peter Swanson on 9725 5692.

Yours sincerely

John Baker A/REGIONAL MANAGER MAIN ROADS WHEAT BELT SOUTH REGION CC: Regional Manager Department of Water Avon District Office PO Box 497 Northam WA 6401

Director Conservation Council WA 2 Delhi Street West Perth WA 6005

Office of the Commissioner of Soil and Land Conservation Department of Agriculture and Food Locked Bag 4 Bentley Delivery Centre WA 6983

Chief Executive Officer Shire of Boddington PO Box 4 Boddington WA 6390

Chief Executive Officer Shire of Williams PO Box 96 Williams, WA, 6391

Chief Executive Officer Shire of Wandering 22 Watts Street Wandering WA 6308



Government of Western Australia Department of Environment and Conservation Your ref: 10/3511 Our ref: CPS 818/5 Enquiries: Jeremy Quartermaine Phone: 9219 8744 Fax: 9219 8701 Email: jeremy.quartermaine@dec.wa.gov.au

Mr John Baker A/Regional Manager Wheat Belt South Region Main Roads Western Australia PO Box 194 NARROGIN WA 6312

Dear Mr Baker

CPS 818/5 - SUBMISSION - ALBANY HIGHWAY - LATERAL CLEARANCE IMPROVEMENTS (SLK 115-172)

Thank you for your letter dated 16 November 2010, inviting the Department of Environment and Conservation's (DEC) Native Vegetation Conservation Branch to provide comment on Main Roads Western Australia's (MRWA) proposal to establish a 'clear zone' within Albany Highway, within the Shires of Williams, Boddington and Wandering. I understand that the area of impact involves the clearing of approximately 3.6 hectares of native vegetation.

Submissions are invited in accordance with condition 8 of clearing permit CPS 818/5 for any clearing that 'may be at variance', 'is at variance' or 'is seriously at variance' with the clearing principles contained within Schedule 5 of the EP Act.

The 3.6 hectares of native vegetation proposed to be cleared has been assessed against the clearing principles contained in Schedule 5 of the *Environmental Protection Act 1986* (EP Act), taking into account information you have provided and information the Department of Environment and Conservation (DEC) has obtained through consultation.

In relation to clearing principle (b), your letter indicates that the proposal 'may be at variance,' I agree with this level of variance. Given that the proposed clearing area contains some vegetation in good (Keighery scale) condition and is within an extensively cleared landscape, local fauna species may utilise the remaining vegetation as a linkage corridor and feeding or foraging habitat.

In relation to clearing principle (e), your letter indicates that the proposal 'may be at variance,' I agree with this level of variance. The proposed clearing is to occur over a 57km area, in which there are five mapped beard vegetation associations and two Mattiske Complexes. Some areas of good (Keighery, scale) condition vegetation remain, therefore it is likely that sections of the vegetation to be cleared are consistent with the mapped vegetation types. The area of impact is mapped as being predominately composed of Beard vegetation associations 4 and 7. According to DEC datasets, there is 24.21% of pre-European levels of native vegetation for Beard vegetation association 7 within the bioregion and within the Shire of Williams, 26.72% remains. Beard vegetation association 4 is well represented within the bioregion, however retains 21.94% of its pre-European extent within the Shire of Williams. The proposed clearing area is also mapped as consisting of Mattiske complexes Michibin (Mi) and Wiliaims (Wi). These complexes are mapped in the northern section of Albany Hwy. Mattiske Mi and Wi retain 26.37% and 19.67% respectively. Further to this, the proposed clearing occurs within an extensively cleared landscape.

Native Vegetation Conservation Branch

Phone: (08) 9219 8700 or (08) 9219 8744 Fax: (08) 9219 8701 Email: nvp@dec.wa.gov.au Postal Address: Locked Bag 104, Bentley Delivery Centre, BENTLEY WA 6983 www.dec.wa.gov.au/nvc wa.gov.au I note that you have not identified any variance levels for the remaining clearing principles. After desktop analysis and additional advice I consider principle (h) 'may be at variance.' The vegetation proposed to be impacted is considered to be contributing to an ecological linkage containing good (Keighery scale) condition vegetation and is situated within an extensively cleared landscape. Due to these factors, the vegetation may assist with the transfer of genetic materials to nearby conservation areas.

In accordance with conditions 5(a)(ii) and 9(c) and Part V of clearing permit CPS 818/5, MRWA is required to submit for approval an offset proposal as the clearing 'may be at variance' to principles (b), (e) and (h).

If you have any queries regarding the matters raised above, please contact Jeremy Quartermaine at DEC's Native Vegetation Conservation Branch on (08) 9219 8744.

Yours sincerely

Kelly Faulkner MANAGER NATIVE VEGETATION CONSERVATION BRANCH

Officer delegated under Section 20 of the Environmental Protection Act 1986

13 December 2010

Cc: Mr Murray Limb, Manager, Main Roads WA, PO Box 6202, East Perth 6892

Appendix N

Environmental Survey Reports



Figure 1: Faunal Habitat Report 2009



Figure 2: Albany Highway Biological Survey Report 2010