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29 May 2023

Santos Reference: EQ23-02

Ms Denise Leon
Team Leader (Assessment), Energy and Extractive Resources
Energy, Extractive and South West Compliance | Environmental Services and Regulation
Department of Environment and Science
Level 7, 400 George Street
BRISBANE QLD 4001

Dear Denise,

#### Application to Amend Environmental Authority EPPG04323316

Santos CSG Pty Ltd (Santos) on behalf of their joint venture partners has prepared the attached application to amend Environmental Authority (EA) EPPG04323316 (Roma Backbone Project EA). The application has been prepared in accordance with Sections 226 and 226A of the *Environmental Protection Act 1994* (EP Act). The application has been prepared as a major amendment.

This EA amendment is seeking authorisation to construct and operate the following proposed infrastructure in relation to PPLs 2021 and 2061:

- produced water dam (PPL 2021);
- water pipeline with co-located overhead power line and fibre optic cable (PPL 2021);
- high voltage power substation (PPL 2021); and
- produced water tank and water pipeline extension (PPL 2061).

Further, the application seeks the following administrative amendments:

- update the disturbance area listed against regulated dams in 'Schedule A, Table 1 Scale and Intensity for the Activities' to correct an error in the disturbance area authorised for the existing Angry Jungle dam;
- removal of Condition B6 and Table 1 'Significant residual impacts to prescribed environmental matters' from Schedule B of the EA to ensure clarity and consistency with Section 15 of the Environmental Offset Act 2014 (EO Act); and
- consolidation of disturbance for 'gas pipeline' listed under PPL 2020 in Schedule A, Table 1.

The following information is attached in support of the amendment application:

- Attachment 1– EA Amendment Application Form; and
- Attachment 2 Supporting Information.

The application fee of \$355.30 was paid upon lodgement of the application.



Please contact Bennett Warren should you have any questions in relation to the application.

Yours sincerely,

Bennett Warren

**Team Leader Environment** 

**Santos Limited** 



## **Attachment 1 – EA Amendment Application Form**

## **Application form**

#### Environmental Protection Act 1994

#### Application to amend an environmental authority

This approved form is to be used when applying to amend an environmental authority under sections 222 to 227A of the Environmental Protection Act 1994 (EP Act) for an environmentally relevant activity (ERA).

For applications to the Department of Environment and Science, you can apply through Online Services at: <a href="https://business.qld.gov.au/running-business/environment/online-services">https://business.qld.gov.au/running-business/environment/online-services</a>.

**Note:** For applications to the Department of Environment and Science, the only way to pay fees by credit card is by completing the application online using Online Services. For other fee payment options see Question 31.

It is recommended that prior to making an amendment application, you read the information on what to provide with an application. This information is located on the Business Queensland website at <a href="https://www.business.qld.gov.au">www.business.qld.gov.au</a> (use the search term "Environmental licence"). This website includes a diagnostic tool called a "Forms and fees finder" which will help identify fees and supporting information you need to make an application.

You are encouraged to have a pre-lodgement meeting before applying to amend your environmental authority. If you would like to have a pre-lodgement meeting:

- for prescribed ERAs 2, 3 and 4—contact the Department of Agriculture and Fisheries by email at livestockregulator@daf.qld.gov.au or by phone on 13 25 23.
- for any other ERAs —please fill out and lodge the form *Application for pre-lodgement services* (ESR/2015/1664<sup>1</sup>), prior to lodging this application form.

If you require assistance in answering any part of this form, or have any questions about your application please contact the relevant department. Contact details are at the end of this form (Section 33).

#### **Privacy statement**

The Department of Environment and Science (the Department) is collecting the information on this form in accordance with and as authorised by Chapter 5 of the Environmental Protection Act 1994 (EP Act). Some of the information may be disclosed to the Department of Resources and Queensland Treasury for the purpose of processing this application.

Pursuant to section 540 of the EP Act, the Department is required to maintain a register of certain documents and information authorised under the EP Act. A copy of this document will be kept on the public register. The register is available for inspection by members of the public who are able take extracts, or copies of the documents from the register. Documents that are required to be kept on the register are published in their entirety, unless alteration is required by the EP Act. There is no general discretion allowing the Department to withhold documents or information required to be kept on the public register. For more information on the Department's public register, search 'public register' at <a href="www.qld.gov.au">www.qld.gov.au</a>. For queries about privacy matters please email <a href="privacy@des.qld.gov.au">privacy@des.qld.gov.au</a> or telephone 13 74 68.

<sup>&</sup>lt;sup>1</sup> This is the publication number. The publication number can be used as a search term to find the latest version of a publication at <a href="https://www.qld.gov.au">www.qld.gov.au</a>.



Section 1 – Environmental authority number			
Environmental authority number for this application	EPPG04323316		
Section 2 – Applicant details			
Details of the applicant are to be provided in this section of the environment provided. An agent could be a consultant or contactor	tal authority holder, details of the agent	are to be	
NAME / COMPANY NAME	TRADING NAME		
Santos CSG Pty Ltd			
REGISTERED / RESIDENTIAL ADDRESS	POSTAL ADDRESS (WHERE DIFFERENT)		
60 Flinders Street	PO Box 1010		
ADELAIDE SA 5000	BRISBANE QLD 4001		
ABN / ACN	CONTACT NAME		
72 121 188 654	Bennett Warren		
EMAIL	TELEPHONE		
Bennett.Warren@santos.com	07 3838 5830		
☐ INDICATE IF YOU WANT TO RECEIVE CORRESPONDENCE	L E VIA EMAIL		
INDICATE IF THIS FORM IS BEING COMPLETED BY AN AG	GENT FOR THE ENVIRONMENTAL AUTHORITY	Y HOLDER	
Section 3 – Checklist questions  An application to amend an environmental authority is not appropriate in all circumstances. If you answer Yes to any of the preliminary questions below, you cannot use this application form. If you answer No to all of the preliminary questions, you may continue to use this application form.			
Is the amendment to correct a clerical or formal error? ☐ Yes ☐ No			
If yes, you cannot use this form. This request should be made in writing directly to the administering authority (no fees apply).			
Is the amendment to add an ERA to an amalgamated project authority and the proposed activity does not form part of the single integrated operation conducted under the authority?			
If yes, you cannot use this form. You will need to apply for a new en	vironinental authority.		
Is the amendment to add an ERA to the authority and the addition of the activity would result in the environmental authority applying to activities that were not being carried out as an ERA project?			
If yes, you cannot use this form. You will need to apply for a new environmental authority.			
Is the amendment to amalgamate two or more environmental authorities? ☐ Yes ☒ No			
If yes, you cannot use this form. Please use either the form Application to amalgamate two or more environmental authorities into an amalgamated corporate authority (ESR/2015/1734), or Application to amalgamate two or more environmental authorities into an amalgamated project or local government authority (ESR/2015/1735).			
Is the amendment to add an ERA to an amalgamated local government authority and there is not an appropriate degree of integration between the proposed activity and the existing activities on the authority?			
If we want to this fame Vermill and to analyte a survey	sing and a state of the		

Is the amendment to amend the financial assurance or estimated rehabilitation cost only		0		
If yes, you cannot use this form. Please use the form Application to amend or discharge financial assurance he authority (ESR/2015/1752) or Application for a decision on the estimated rehabilitation cost (ESR/2018/4426).				
Is the proposed amendment to add a resource activity to an environmental authority for a prescribed ERA project?	a ☐ Yes ⊠ No	0		
If yes, you cannot add the resource activity to the environmental authority. You will need to apply for a new environmental authority.	nvironmental authority.			
Is the proposed amendment to add a prescribed ERA, other than an ancillary activity, to environmental authority for a resource project?	o an ☐ Yes ⊠ No	0		
If yes, you cannot use this form. You can apply using the standard, variation or site-specific application forms.				
Section 4 – Checklist questions for prescribed ERAs Is the application to amend an EA for a prescribed ERA?  No – Go to	o next section			
Does the proposed amendment involve changes to the relevant activity that require a new development application to be lodged under the <i>Planning Act 2016</i> and the application for the development application has not been lodged.	☐ Yes ☐ No			
If yes, the development application must be lodged before an environmental authority amendment application can be made. Under EP Act, a development application for a material change of use of premises for an environmentally relevant activity is deemed to be also an application for an environmental authority. In this case, an environmental authority amendment application should not be lodged.				
Is the proposed amendment solely to add or remove vehicles for ERA 57 (Regulated waste transport)?	☐ Yes ☐ No			
If yes, you do not need to submit this application form. You can update vehicle details online through Online Services or use the form Details of regulated waste vehicles (ESR/2015/1851).				
Is the amendment for the holder of the environmental authority to transfer all or part of the environmental authority to a person?	☐ Yes ☐ No			
If yes, you cannot use this form. Please use the form Request to transfer all or part of an environmental authority (prescribed environmentally relevant activities) (ESR/2015/1718).				
Is the amendment for the surrender of an environmental authority?	☐ Yes ☐ No			
If yes, you cannot use this form. Please use the form <i>Application to surrender an environmental authority for a</i> (ESR/2015/1719).	a prescribed ERA			

Section 5 – Checklist for resource activities  Is the application to amend an EA for a resource activity?	to next section			
Is the amendment for a partial surrender of an environmental authority for a mining, geothermal or petroleum resource activity?	☐ Yes ⊠ No			
If yes, you cannot use this form. Please use the form <i>Application for surrender or partial surrender of an environmental activity</i> ) (ESR/2015/1751).	authority (resource			
Is the amendment for an EA that has a PRCP Schedule and approval of the amendment application would result in the EA to which the application relates being inconsistent with the relevant PRCP schedule?	☐ Yes ⊠ No			
If yes, you cannot use this form. The amendment to the EA must not be inconsistent with the PRCP Schedule otherwise amend your PRCP Schedule. Please use the form <i>Application to amend a progressive rehabilitation and closure plan se schedule</i> ) or joint PRCP schedule and environmental authority (ESR/2019/4956).				
Section 6 – Major or minor amendment Is the application for a major or minor amendment?				
Your application is a minor amendment (condition conversion) if you want to convert all condition environmental authority to the standard conditions for the environmentally relevant activities to very environmental authority relates. By selecting this amendment type you are certifying that you had and thorough understanding of, and can comply with, the ERA Standard (eligibility criteria and sconditions).	which the ave a complete			
For applications other than a minor amendment (condition conversion), the administering authority decides if an application is a minor amendment (threshold) or a major amendment and will send you a notice of the decision.				
If the application is a major amendment, an assessment fee of 30% of the annual fee for your environmental authority is required to be paid. The assessment of your amendment application will not proceed until the assessment fee is paid.				
No additional assessment fees apply if your application is determined to be a minor amendment.				
By considering what type of amendment your application is likely to be, you will have a better id the assessment fee will be payable.	lea of whether			
For further information see the guideline <i>Major and minor amendments</i> (ESR/2015/1684) and stact. If you have questions regarding whether your amendment will be a minor or major amendment encouraged to arrange a pre-lodgement meeting with the administering authority. Only an indicative as to whether the proposed changes are likely to be a minor or major amendment, at a premeeting as this decision can only be made when the actual application is submitted.	nent you are ation can be			
☐ Minor amendment (threshold)				
☐ Minor amendment (condition conversion)				
For minor amendment (condition conversion) go to Section 31 (Payment of fees).				
For further information see the guideline on <i>Major and minor amendments</i> (ESR/2015/1684) and s223 of the EP Act. If regarding whether your amendment will be a minor or major amendment you are encouraged to arrange a pre-lodgeme administering authority. Only an indication can be given as to whether the proposed changes are likely to be a minor or	ent meeting with the			

at a pre-lodgement meeting as this decision can only be made when the actual application is submitted.

Section 7 – Amendment options Complete this section for all applications, tick all that apply						
I would like to amend environmental author	I would like to amend environmental authority:  ☐ Activities – includes changes to threshold ☐ Conditions – includes conversion to standard conditions and variations ☐ Locations – removal/addition or activity locations				d variations	
Section 8 – Develop	ment permi	ts				
Is the activity a prescribed ERA?  No – Go to next section  Yes – Provide details be						
Are there any development permits in effect or have any development applications been made under the <i>Planning Act 2016</i> to carry out the proposed amendment?						
Provide a list of applic	cable develo	pment permits or ap	oplications below.			
Development permit / application number	Developme application	•	Assessment manager		Date of application or approval	Expiry date
				_		
I HAVE ATTACHED ADDITIONAL DETAILS FOR THIS SECTION.						

Section 9 – Amend activities					
Do you wish threshold(s)		tivities under the EA, includ	ling changes to	No − Go to     The Head of the Head	next section ide details below
Section 9.1 - Details of the ERA(s) to be removed.  Provide a list of all the ERAs that are to be removed from the EA and identify whether the ERA has commenced.					
ERA number	Threshold	Name of ERA			Has the ERA commenced?
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
					☐ Yes ☐ No
☐ I HAVE A	ATTACHED DET	AILS OF ADDITIONAL ERA(s) TO	BE REMOVED.		
		ation conditions dment remove a prescribed	d ERA from the EA?	ı <b>—</b>	tinue on below tinue on below
Does your EA contain any rehabilitation conditions that are applicable to the ERA(s) that are requested be removed from the EA? ☐ No —Go to section 9.2 ☐ Yes — Provide details below					
A statement addressing compliance with environmental authority conditions is to be completed by, or on behalf of, the environmental authority holder. Attach a separate document to this application form which states the extent to which:					
The ERAs being removed from the environmental authority have complied with each relevant condition of approval; and					
2. The final rehabilitation report is accurate (include the date of the final rehabilitation report).					
PROVIDE DETAILS OF THE DATE, METHOD AND EVIDENCE USED TO VERIFY COMPLIANCE:					
PROVIDE DETAILS OF THE NAME, POSITION AND CONTACT NUMBER OF THE PERSON SIGNING THE STATEMENT:					
DESCRIBE THE QUALIFICATIONS AND EXPERIENCE OF THE PERSON SIGNING THE STATEMENT:					
☐ I HAVE ATTACHED THE REQUIRED STATEMENT ADDRESSING COMPLIANCE WITH CONDITIONS.					
For guidance on what a rehabilitation report should contain you may use the final rehabilitation report template available at <a href="https://www.qld.gov.au">www.qld.gov.au</a> using the publication number ESR/2015/1616 as a search term. Methods to verify compliance may include a desktop assessment of documentation, an interview with the landowner/holder or a field operator or a site inspection. Evidence used may include photographs, statements and other documents such as maps, plans, approvals, monitoring results etc.					

Section 9.2 - Details of the ERA(s) to be added.  Provide details of which ERA(s) you wish to add. If the ERA has eligibility criteria and standard conditions <sup>2</sup> , identify whether you can comply with them. Select "N/A" where there are no eligibility criteria and standard conditions for that ERA. If you cannot comply with all of the applicable standard conditions, select "no" and attach details of the standard conditions you cannot comply with.				
ERA number	Threshold	Name of ERA	I can comply with the eligibility criteria	I can comply with all the standard conditions
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
			☐ Yes ☐ N/A ☐ No	☐ Yes ☐ No
I HAVE ATTACHED DETAILS OF ADDITIONAL ERA(s) TO BE ADDED.  I HAVE ATTACHED DETAILS OF THE STANDARD CONDITIONS THAT I CANNOT COMPLY WITH.				
If you cannot comply with the eligibility criteria as a result of the proposed amendment, then an amendment to the relevant eligibility criteria condition will also be required. The department will only approve an amendment of the eligibility criteria condition if it is a result of factors beyond your control such as residential encroachment, rather than a change to the activity.				

 $<sup>^2 \ \</sup>mathsf{ERAs} \ \mathsf{with} \ \mathsf{eligibility} \ \mathsf{criteria} \ \mathsf{and} \ \mathsf{standard} \ \mathsf{conditions} \ \mathsf{are} \ \mathsf{listed} \ \mathsf{at:} \ \underline{\mathsf{www.business.qld.gov.au}} \ \mathsf{(use} \ \mathsf{the} \ \mathsf{search} \ \mathsf{term} \ \mathsf{"eligibility} \ \mathsf{criteria").$ 

Section 10- Amend location(s)				
		No − Go to r     Yes − Provid	next section de details below	
ERA number and threshold	Location (lot on plan(s), tenure(s) or mobile and temporary	<b>(</b> )	Add or remove	
☐ I HAVE ATTACHE	D DETAILS OF ADDITIONAL LOCATIONS FOR THIS SECTION.			
Section 10.1 - Rehabilitation conditions  Does your EA contain any rehabilitation conditions that are applicable to the locations that are requested be removed from the EA?				
Has a statement addressing compliance with EA rehabilitation conditions been attached as per section 9.1.1?  No - Provide details below Yes - Go to next section				
PROVIDE DETAILS OF THE DATE, METHOD AND EVIDENCE USED TO VERIFY COMPLIANCE:				
PROVIDE DETAILS OF THE NAME, POSITION AND CONTACT NUMBER OF THE PERSON SIGNING THE STATEMENT:				
DESCRIBE THE QUALIFICATIONS AND EXPERIENCE OF THE PERSON SIGNING THE STATEMENT:				
I HAVE ATTACHED THE REQUIRED STATEMENT ADDRESSING COMPLIANCE WITH CONDITIONS.				
For guidance on what a rehabilitation report should contain you may use the final rehabilitation report template available at <a href="https://www.qld.gov.au">www.qld.gov.au</a> using the publication number ESR/2015/1616 as a search term. Methods to verify compliance may include a desktop assessment of documentation, an interview with the landowner/holder or a field operator or a site inspection. Evidence used may include photographs, statements and other documents such as maps, plans, approvals, monitoring results etc.				

Section 11 – Single integrated operation confirmation	
Will the activities be undertaken as a single integrated operation?	<ul><li>No − Go to next section</li><li>Yes − Provide details below</li></ul>
PROVIDE DETAILS OF THE ERAS THAT WILL BE OPERATED AS A SINGLE INTEGRATED OP INFORMATION SHOWING THEY ARE A SINGLE INTEGRATED OPERATION:	ERATION AND SUPPORTING
Refer to Attachment 2 - Supporting Information	
Single integrated operation occurs when all of the below criteria are met:  (a) the activities are carried out under the day-to-day management of a single responsible individual manager;  (b) the activities are operationally interrelated;  (c) the activities are, or will be, carried out at one or more places; and  (d) the places where the activities are carried out are separated by distances short enough to make management of the activities.	
Section 12 – Amend conditions	
Do you wish to amend the condition(s) of the environmental authority?	<ul><li>☐ No – Go to next section</li><li>☒ Yes – Provide details below</li></ul>
Provide details of: (a) condition number(s); (b) proposed change; and (c) justific	eation for the change.
Refer to Attachment 2 - Supporting Information	
I HAVE ATTACHED ADDITIONAL DETAILS FOR THIS SECTION.	
If the activities were assessed as part of a coordinated project declared under the <i>State Developme</i> 1971, you are only able to amend Coordinator General conditions if the Coordinator General's evaluation report has lapsed, contact the Department of Local Government and Planning for more information.	ation report for the project has lapsed. If

ocodon to besorbe the proposed amenament
Provide a detailed description of your proposed amendment. Include justification of how your proposed amendment meets the criteria for a major or minor amendment and attach any supporting information to this application. If the amendment is to add or delete a location, tenure or activity, or to change the threshold of an activity, provide details below.
Refer to Attachment 2 - Supporting Information
I HAVE ATTACHED ADDITIONAL DETAILS FOR THIS SECTION.
O - C 44
Section 14 – Describe the land that will be affected by the proposed amendment
Describe if the activity will be carried out within the existing designated areas of the environmental authority, a new area, or if the activity is mobile or temporary.
Refer to Attachment 2 - Supporting Information

Section 15 – Compliance with any eligibility criteria	Section 15 – Compliance with any eligibility criteria				
Are there any eligibility criteria for the activity(s)?	<ul><li>☑ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>				
State whether each relevant activity will, if the amendment is made, comply wactivity.	vith any eligibility criteria for the				
Include a declaration (below) that the above statement is correct					
<b>I</b>					
(INSERT NAME, POSITON AND COMPANY NAME OF PERSON MAKING THE STATEMENT)					
<ul> <li>make the statement by or for the holder of the environmental authority;</li> </ul>					
<ul> <li>confirm that, to the best of my knowledge, all information provided as parattachments, is true, correct and complete. I am aware that it is an offend the Environmental Protection Act 1994, to give the administering authorismisleading or incomplete;</li> </ul>	ce under section 480 and 480A of				
<ul> <li>confirm that, to the best of my knowledge, this statement, including attachments, does not include false, misleading or incomplete information;</li> </ul>					
<ul> <li>confirm that, to the best of my knowledge, I have not knowingly failed to reveal any relevant information or document to the administering authority;</li> </ul>					
<ul> <li>confirm that, to the best of my knowledge, all information provided in this statement, including attachments, address the relevant matters and are factually correct;</li> </ul>					
• confirm that the opinions expressed in this statement, including attachments, are honestly and reasonably held; and					
<ul> <li>understand that all information supplied as part of this statement, includi publicly in accordance with the Right to Information Act 2009 and the Ev</li> </ul>					
SIGNATURE	DATE				
Only a person with appropriate environmental expertise and/or experience in planning and execu statement. This person may be the environmental authority holder, a full time employee of the enconsultant to the environmental authority holder.					

Section 16 – Environmental offsets			
Will the ERA(s) being applied for cause, or be likely to cause, a significant residual impact to a prescribed environmental matter (other than a matter of local environmental significance)?	<ul><li>☑ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
<ul> <li>Yes - Attach supporting information that:</li> <li>details the magnitude and duration of the likely significant residual impact on each prescribed environmental matter (other than matters of local environmental significance) for the entire activity;</li> <li>demonstrates that all reasonable measures to avoid and minimise impacts on each of those matters will be undertaken;</li> <li>includes a notice of election, if it has not already been submitted; and</li> <li>if the activity is to be staged, details of how the activity is proposed to be staged.</li> </ul>			
An environmental offset may be required for an ERA where despite all reasonable measures to avoid and minimise impacts on certain environmental matters, there is still likely to be a significant residual impact on one or more of those matters. You must verify the presence, whether temporary or permanent, of those environmental matters. For more information refer to the State Significant Impact Guideline at the Queensland Government website, at: <a href="www.qld.gov.au/environment/pollution/management/offsets/index.html">www.qld.gov.au/environment/pollution/management/offsets/index.html</a> .			
Section 17 – Regional interest areas			
Is the activity a resource activity located anywhere within an area of regional interest?	<ul><li>☑ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
If yes - Which area of regional interest, has or will require a regional interest of	development approval (RIDA)?		
<ul> <li>□ Priority agricultural areas (PAAs)</li> <li>□ Priority living areas (PLAs)</li> <li>□ Strategic environmental areas (SEAs)</li> <li>□ Strategic cropping area (SCA)</li> <li>□ No RIDA required, I am an exempt activity.</li> </ul>			
If you have applied or been approved for a RIDA, provide the application reference:			
A regional interests development approval (RIDA) is required when a resource activity is proposed in an area of regional interest under the Regional Planning Interests Act 2014. Further information, including application forms, can be found on the Department of State Development, Infrastructure, Local Government and Planning website at <a href="https://www.statedevelopment.qld.gov.au">www.statedevelopment.qld.gov.au</a> .			

Section 18 – Matters of national environmental significance				
Would the carrying out of the proposed ERA, or where project, be likely to have a significant impact on any man environmental significance?	<ul><li>No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>			
Has the proposal been referred to the Federal Gove Minister or a delegate for formal assessment and appro		<ul><li>☐ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
If Yes - Has an approval issued under the <i>Environmental Protection and Biodiversity Conservation Act 1999</i> (EPBC Act) required an environmental offset for the same, or substantially the same, impact and the same, or substantially the same, matters of national environmental significance?		☐ No - Go to next section ☐ Yes - Provide details below		
If Yes - Are there any matters of national environmental significance which are assessed under the EPBC Act which are the same, or substantially the same as any matters of national environmental significance, but that were not conditioned in the approval?		☐ No - Go to next section☐ Yes - Provide details below		
I HAVE ATTACHED DETAILS OF MATTERS OF NATIONAL I HAVE ATTACHED A COPY OF THE EPBC ACT APPROVA		ICANCE.		
There are currently nine matters of national environmental significance (MNES) which have been defined in the <i>Environmental Protection</i> and <i>Biodiversity Conservation Act 1999 (Cth)</i> . To determine whether the proposed ERA(s) will have a significant impact on MNES and for referral requirements, please refer to the guidance provided by the Federal Government's Department of Environment on <a href="https://www.australia.gov.au">www.australia.gov.au</a> and <a href="https://www.environment.gov.au">www.environment.gov.au</a> .				
Section 19 – ANZSIC code				
Is the activity a resource activity?		<ul><li>☐ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
Provide the ANZSIC code for the resource activity.				
☐ 1101 Black coal mining	☐ 1101 Black coal mining ☐ 1313 Copper ore mining			
☐ 1102 Brown Coal Mining ☐ 1314 Gold ore mining				
☐ 1311 Iron ore mining ☐ 1315 Mineral sand mining				
□ 1312 Bauxite mining □ 1316 Nickel ore mining				
☐ 1317 Silver-lead-zinc ore mining	☐ 1319 Metal ore m	nining (other metallic mineral ores)		
Other (provide details):				
The Australian and New Zealand Industrial Classification (ANZSIC) is used by the Australian Bureau of Statistics. It is required to be displayed in the public register.				

Section 20 – Environmental impact statement (EIS)*			
Is the activity a resource activity?	<ul><li>☐ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
Has an application been made for a decision on whether an EIS would be required for the proposed amendment activity?	<ul><li>☑ No</li><li>☐ Yes</li></ul>		
Has a decision been made on the application on whether an EIS would be required for the proposed amendment activity?	<ul> <li>Yes, a decision was made that an EIS is required – Attach decision.</li> <li>Yes, a decision was made that an EIS is <b>not</b> required – Attach decision.</li> <li>No, a decision has not yet been made.</li> <li>NA – No application has been made.</li> </ul>		
I HAVE ATTACHED THE DECISION.			
Has an environmental impact statement (EIS) process that includes the proposed amendment been completed?	<ul><li>☑ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
If yes - I have assessed the environmental risks of the proposed amendment	and consider them to be:		
☐ The same as was assessed in the EIS			
☐ Different to what was assessed in the EIS			
I HAVE ATTACHED THE ASSESSMENT OF THE ENVIRONMENTAL RISKS OF THE PROPOSED AMENDMENT.			
* EIS in section 20 question refers to both the EIS process under the <i>Evironmental Protection Ac State Development and Public Works Organisation Act</i> 1971.  * For further information about the EIS process is available at <a href="www.qld.gov.au">www.qld.gov.au</a> , using the search to			
Section 21 – Environmental impact statement triggers*			
Is the activity a resource activity?	<ul><li>☐ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
Is the proposed ERA amendment for an increase in the annual extraction of million tonnes per year (whichever is the lesser)?  NOTE: Only answer this question if the current ERA project is for an existing mine extracting between of run of mine (ROM) ore or coal; otherwise select N/A.	☐ fes   ☐ No		
Is the proposed ERA amendment for an increase in annual extraction of more tonnes per year (whichever is the lesser)? NOTE: Only answer this question if the curr existing mine extracting over 10 million tonnes per year of ROM ore or coal; otherwise select N/A	rent ERA project is for an		
Is the proposed ERA amendment for an increase in annual extraction of great NOTE: Only answer this question if the current ERA project is for an existing mine extracting over of ROM ore or coal extraction; otherwise select N/A.			
Is the proposed ERA amendment for a mining activity that will extend into a C environmentally sensitive area, unless previously authorised by the state?  NOTE: Only answer this question if the activity is a mining activity; otherwise select N/A.	rategory A or B ☐ Yes ☐ No ☐ N/A		

Is the proposed ERA amendment for mining operations? For example: from underground to open cut, c subsidence but with the proposed ERA amend	or (for underground mining) a char	ge in operations that currently caus	□ Tes	
Is the proposed ERA amendment for process, technology or activity, is being NOTE: Only answer this question if the activity	ng proposed?		raction Yes No N/A	
Is the proposed ERA amendment for disturbance area of greater than 2,00 project? This includes areas occupie roads, water storages, and process property. Only answer this question if the activity	00 hectares at any one time d by well pads (single or molants?	e during the life of the proposulti-directional), access track	sed	
Is the proposed ERA amendment for construction of a high pressure pipeli NOTE: Only answer this question if the activity	ine over a distance of 300 k	kilometres or greater?	Yes No N/A	
Is the proposed ERA amendment for construction of a liquefied natural gas NOTE: Only answer this question if the activity	s plant?		Yes ⊠ No □ N/A	
☐ I HAVE ATTACHED DETAILS OF HOW	V THE CRITERION IS TRIGGERE	ED INCLUDING DETAILS OF THE	IMPACT.	
* EIS in section 21 question refers to both the Development and Public Works Organisation.  * There are numerous criteria used to make the using the search term 'environmental impact se	<i>Act 1971.</i> le EIS decision, for further informa			
Section 22 – Environmental values	5			
Attach a document that provides an environmental values (EVs). Note: A there are no likely impacts to an EV.				
Environmental Values				
⊠ Water		□ Land use		
□ Groundwater		⊠ Air	⊠ Waste	
I HAVE ATTACHED A DOCUMENT TH				
Note that the EP Act, s226A(1)(f) states the information required relating to impacts on EVs which include:  (i) a description of the environmental values likely to be affected by the proposed amendment; and  (ii) details of any emissions or releases likely to be generated by the proposed amendment; and  (iii) a description of the risk and likely magnitude of impacts on the environmental values; and  (iv) details of the management practices proposed to be implemented to prevent or minimise adverse impacts; and  (v) if a PRCP schedule does not apply for each relevant activity - details of how the land the subject of the application will be rehabilitated after each relevant activity ceases.				

Sec	tion 23 – Waste
	ch a document that provides details of the proposed measures for minimising and managing waste erated by any amendment(s) to the relevant activity.
$\boxtimes$	I have attached a document that provides the required information; or
	If waste is to be managed according to an existing waste management plan, provide the name of the plan and the relevant page or section numbers below:
Sec	tion 24 – Coal seam gas (CSG) activities
	s the application relate to an environmental authority for a CSG activity is an ineligible ERA?
Doe	s the amendment change the way that CSG water is managed?  No - Go to next section Yes - Provide details below
	e amendment will change the way that CSG water is managed the following information must be provided this application.
	The quantity of CSG water the applicant reasonably expects will be generated in connection with carrying out each relevant CSG activity.
	The flow rate at which the applicant reasonably expects the water will be generated.
	The quality of the water, including changes in the water quality the applicant reasonably expects will happen while each relevant CSG activity is carried out.
	The proposed management of water including, for example, the use, treatment, storage and disposal of the water.
	The measurable criteria ('management criteria') against which the applicant will monitor and assess the effectiveness of the management of the water, including, for example, criteria for each of the following:  (i) the quantity and quality of the water used, treated, stored or disposed of;  (ii) protection of the environmental values affected by each relevant CSG activity; and  (iii) the disposal of waste, including, for example, salt, generated for the management of the water.
	The action proposed to be taken if any of the management criteria are not complied with, to ensure that the criteria will be able to be complied with in the future.
	If the application includes a CSG evaporation dam, an evaluation of the following must be provided:  (i) best practice environmental management for managing CSG water;  (ii) alternative ways for managing CSG water; and  (iii) whether there is a feasible alternative to a CSG evaporation dam for managing the water. Note if the evaluation shows that there is a feasible alternative option, the CSG evaporation dam cannot form part of the water management for this amendment application.
	I HAVE ATTACHED A DOCUMENT THAT PROVIDES THE REQUIRED INFORMATION FOR THIS SECTION.

Section 25 – Underground water rights			
Is the activity a resource activity?	<ul><li>No - Go to next section</li><li>✓ Yes - Provide details below</li></ul>		
Is the activity proposed to be undertaken on a mineral development licence (MDL), mining lease (ML) or petroleum lease (PL)?	<ul><li>☒ No - Go to next section</li><li>☐ Yes - Provide details below</li></ul>		
Does the proposed amendment involve changes to the exercise of underground water rights?	☐ No - Go to next section☐ Yes - Provide details below		
☐ I have attached a document that details:			
a) The areas in which underground water rights are proposed to be exercise	d;		
b) For each aquifer affected, or likely to be affected, by the exercise of under	ground water rights:		
a. a description of the aquifer;			
<ul> <li>an analysis of the movement of underground water to and from the a interacts with other aquifers and surface water and</li> </ul>	quifer, including how the aquifer		
<ul> <li>c. a description of the area of the aquifer where the water level is predicted exercise of underground water rights; and.</li> </ul>	cted to decline because of the		
d. the predicted quantities of water to be taken or interfered with because of the exercise of underground water rights during the period in which resource activities are carried out.			
c) The environmental values that will, or may, be affected by the exercise of underground water rights and the nature and extent of the impacts on the environmental values;			
d) Any impacts on the quality of groundwater that will, or may happen because of the exercise of underground water rights during or after the period in which resource activities are carried out; and			
e) Strategies for avoiding, mitigating or managing the predicted impacts on the environmental values of the impacts on the quality of groundwater.			
For more information about exercising underground water rights or the associated requirements refer to the guideline Requirements for site-specific and amendment applications - underground water rights (ESR/2016/3275)			
Section 26 – Financial assurance / estimated rehabilitation cost			
Do you currently have financial assurance or scheme assurance held for the approved environmental authority?	<ul><li>☐ No – Go to next section</li><li>☐ Yes – Provide details below</li></ul>		
I will not need to change the financial assurance or scheme assurance in	relation to this amendment.		
I will be changing the financial assurance and have attached the form Application financial assurance held for an environmental authority (ESR/2015/1752)			
I will be applying for a new estimated rehabilitation cost decision if this amendment application is approved.			

Section 27 – Environment	al protection orders	s or site manageme	nt plan	
Is this land currently subjective (EPO) or a site management		I protection order	Yes (E	io to next section PO) - provide details below MP) - provide details below
PROVIDE THE REFERENCE NUI LOCAL GOVERNMENT AREA.	MBER AND BRIEF DETAI	ILS INCLUDING: DESCRII	PTION OF LAN	ND; LOT AND PLAN NUMBERS; AND
Section 28 – Environment	al management reg	ister		
Is any part of the land currently recorded in, or has previously been removed from, the environmental management register?				
The land is currently in the environmental management register.				
	The land has been removed from the environmental management register.  You must attach evidence (e.g. Notice) advising that the details have been removed.			
Section 29 - Website addr	ess			
Is the application for a mining activity on a mining lease, or a geothermal, petroleum, or greenhouse gas storage activity?			<ul><li>No – Go to next section</li><li>X Yes – Provide details below</li></ul>	
		https://www.santos. governance/public-r		us/corporate-
Provide details of the contact person if technical	NAME Bennett Warren			TELEPHONE 07 3838 5830
assistance is required. EMAIL Bennett.Warren@santos.com				

Sec	tion 30 – Site	contact		
Would you like to nominate a site contact?			<ul><li>☑ No – Go to next section</li><li>☐ Yes – Provide details below</li></ul>	
SITE	CONTACT NAME		POSITION	
EMA	AIL .		TELEPHONE	
	INDICATE IF YOU	J WANT THE SITE CONTACT TO RECEIVE CORRESPO	ONDENCE VIA EN	MAIL
A sit	e contact is an alter artment. The depart	rnative contact nominated by the legal entity which holds, ment may direct correspondence relating to actual or potential	or will in future ho ential compliance	old, a relevant authority issued by the matters to the site contact.
Soc	otion 21 Poyn	nent of fees		
360	tion 31 – Payn	lient of fees		
App	olication fee:	\$ 355		
Che	eque or money	order payments		
	Payment by cheque or money order made payable to the Department of Environment and Science (attached).			
	Payment by cheque or money order made payable to the Department of Agriculture and Fisheries (attached).			
Cre	dit card payme	nts		
$\boxtimes$	For credit card payments for applications to the Department of Environment and Science please lodge the application using Online Services at <a href="https://business.qld.gov.au/running-business/environment/online-services">https://business.qld.gov.au/running-business/environment/online-services</a> .			
	For credit card payments for applications relating to the Department of Agriculture and Fisheries please contact me (the applicant) for secure payment;			
	Phone number	er: Insert phone no.		
perm admi also	An application fee is payable at the time the application is made. Information on the fee can be located in the information sheet <i>Fees for permits for environmentally relevant activities (ERAs)</i> (ESR/2015/1721). Where the proposed amendment is determined by the administering authority to be a major amendment, an assessment fee of 30% of the annual fee for the authority at the time of application, is also payable. The assessment fee is payable once notification of the assessment level decision is issued. The assessment fee must be paid before the assessment of the amendment application can proceed.			
the a	The supplementary annual fee is payable where the amendment is approved and results in the aggregate environmental score (and hence the annual fee) for the EA increasing. The supplementary annual fee is a pro-rata adjustment to the annual fee for the period from when the amended EA takes effect to the next anniversary day for the EA. This is payable within 20 business days after the approval date. The supplementary annual fee can be calculated using the Fee calculator (ESP/2015/1731)			

#### Section 32 - Declaration

**Note:** If you have not told the truth in this application you may be prosecuted.

#### I declare that:

- I am the holder of the environmental authority, or authorised signatory for the holder of the environmental authority.
- If the proposed amendment is made, the relevant activities will continue to comply with the ERA Standard (eligibility criteria and standard conditions) for all eligible ERAs, or where they cannot comply, I have indicated otherwise in my application and provided the required supporting information.
- If the proposed amendment is a minor amendment (condition conversion), I can comply with the ERA Standard (eligibility criteria and standard conditions) for each of the ERAs authorised by the environmental authority.
- The information provided is true and correct to the best of my knowledge. I understand that it is an offence under section 480 and 480A of the Environmental Protection Act 1994 to give the administering authority or an authorised person a document containing information that I know is false, misleading or incomplete in a material particular.

I understand that I am responsible for managing the environmental impacts of these activities, and that approval of this application is not an endorsement by the administering authority of the effectiveness of management practices proposed or implemented.

Where an agreement is in place between all holders of the environmental authority, one holder can sign on behalf of the other joint holders. Please tick the checkbox below.

☐ I HAVE AUTHORITY TO SIGN THIS FORM ON BEHALF OF ALL THE JOINT HOLDERS OF THE ENVIRONMENTAL AUTHORITY.				
Applicant's signature				
APPLICANT'S NAME	POSITION		COMPANY / ORGANISATION	
Paul Wybrew	HSER Manager - Onshore	)	Santos CSG Pty Ltd	
APPLICANT'S SIGNATURE			DATE 29/05/2023	
Joint holder(s) signature if applicable				
NAME, POSITION AND COMPANY NAME		SIGNATURE		DATE
NAME, POSITION AND COMPANY NAME		SIGNATURE		DATE
NAME, POSITION AND COMPANY NAME		SIGNATUF	RE	DATE
OR I HAVE ATTACHED A DOCUMENT THAT PROVIDES THE REQUIRED INFORMATION FOR ALL JOINT HOLDERS.				
Where the environmental authority holder is a company, this form must be signed by an authorised person for that company. Where there is more than one holder of the environmental authority, this declaration is to be signed by all holders, unless there is an agreement				

between all holders that one can sign on behalf of the other(s).

#### **Section 33 - Submission**

#### Please submit your completed application to:

#### For ERA 2, ERA 3 or ERA 4:

Post: Senior Environmental Scientist

**Animal Industries** 

Department of Agriculture and Fisheries

PO Box 102

TOOWOOMBA QLD 4350

Enquiries Phone: (07) 4688 1374

Fax: (07) 4529 4192

Email: livestockregulator@daf.qld.gov.au

#### For a mining ERA where the proposed amendment impacts upon the resource tenure:

Enquiries Mining Registrar

Department of Resources

The Department of Resources has a list of office locations for mining registrars on its website

www.resources.qld.gov.au/.

#### For all other ERAs:

Post: Permit and Licence Management

Department of Environment and Science

**GPO Box 2454** 

BRISBANE QLD 4001

Enquiries Website: www.business.qld.gov.au

Email: palm@des.qld.gov.au Phone: 13 QGOV (13 74 68)

The latest version of this publication and other publications referenced in this document can be found at <a href="www.qld.gov.au">www.qld.gov.au</a> using the relevant publication number (ESR/2015/1733 for this form) or title as a search term.

Section 34 - Definitions to terms used in this form			
(Where there is inconsistency be	etween the definition of terms used here and the terms used in the EP Act, the terms in the EP Act apply)		
Condition conversion	For an environmental authority, means an amendment replacing all the conditions of the authority with the standard conditions for the environmentally relevant activity which the authority relates. The relevant eligibility criteria and standard conditions must be able to be met.		
Eligibility criteria	For an environmentally relevant activity, means eligibility criteria that are in effect for the activity under –		
	(a) An ERA standard; or		
	(b) A code of environmental compliance; or		
	(c) A regulation in respect of a mining activity.		
Environmentally relevant activity (ERA)	A resource activity or a prescribed ERA.		
ERA project	A prescribed ERA project or a resource project.		
ERA standard	For an environmentally relevant activity, means the eligibility criteria and/ or the standard conditions set by the administering authority.		
Major amendment	For an environmental authority, means an amendment that is not a minor amendment.		
Material change of use of premises for an ERA	A category of assessable development requiring a development permit under the <i>Planning Act 2016</i> . Refer Schedule 10, Division 2, Item 8 of the Planning Regulation 2017.		
Minor amendment	For an environmental authority, means an amendment that is –		
	(a) a condition conversion; or		
	(b) a minor amendment (threshold).		
Minor amendment (threshold)	For an environmental authority, means an amendment that the administering authority is satisfied—		
	(a) is not a change to a condition identified in the authority as a standard condition, other than—		
	(i) a change that is a condition conversion; or		
	(ii) a change that is not a condition conversion but that replaces a standard condition of the authority with a standard condition for the environmentally relevant activity to which the authority relates; and		
	(b) does not significantly increase the level of environmental harm caused by the relevant activity; and		

	(c) does not change any rehabilitation objectives stated in the authority in a way likely to result in significantly different impacts on environmental values than the impacts previously permitted under the authority; and
	(d) does not significantly increase the scale or intensity of the relevant activity; and
	(e) does not relate to a new relevant resource tenure for the authority that is—
	(i) a new mining lease; or
	(ii) a new petroleum lease; or
	(iii) a new geothermal lease under the Geothermal Energy Act; or
	(iv) a new GHG injection and storage lease under the GHG storage Act; and
	(f) involves an addition to the surface area for the relevant activity of no more than 10% of the existing area; and
	(g) for an environmental authority for a petroleum activity—
	(i) if the amendment involves constructing a new pipeline—the new pipeline does not exceed 150km; and
	(ii) if the amendment involves extending an existing pipeline—the extension does not exceed 10% of the existing length of the pipeline; and
	(h) if the amendment relates to a new relevant resource tenure for the authority that is an exploration permit or GHG permit—the amendment application under section 224 seeks an amended environmental authority that is subject to the standard conditions for the relevant activity or authority, to the extent it relates to the permit.
Mobile and temporary ERA	A prescribed ERA, other than an activity that is dredging material, extracting rock or other material, or the incinerating of waste:
	(a) carried out at various locations using transportable plant or equipment, including a vehicle
	(b) that does not result in the building of any permanent structures or any physical change of the landform at the locations (other than minor alterations solely necessary for access and setup including, for example, access ways, footings and temporary storage areas)
	(c) carried out at any one of the locations:
	(i) for less than 28 days in a calendar year, or
	(ii) for 28 or more days in a calendar year only if the activity is necessarily associated with, and is exclusively used in, the construction or demolition phase of a project.
Prescribed ERA	An environmentally relevant activity that is not a resource activity and is prescribed under section 19 of the EP Act.
Prescribed ERA project	All prescribed ERAs carried out, or proposed to be carried out, as a single integrated operation.

Registered suitable operator	A person who, or a corporation which, under section 318I of the EP Act has been assessed as being suitable to carry out an ERA and has been listed on the suitable operator register.
Resource activity	An activity that is any of the following:
	(a) a geothermal activity
	(b) a greenhouse gas (GHG) storage activity
	(c) a mining activity
	(d) a petroleum activity.
Resource project	Resource activities carried out, or proposed to be carried out, under 1 or more resource tenures, in any combination, as a single integrated operation.
Single integrated	Occurs when all of the below criteria are met:
operation	(a) the activities are carried out under the day-to-day management of a single responsible individual, for example, a site or operations manager;
	(b) the activities are operationally interrelated;
	(c) the activities are, or will be, carried out at one or more places; and
	(d) the places where the activities are carried out are separated by distances short enough to make feasible the integrated day-to-day management of the activities.
Underground water	Means any of the following:
rights	(a) underground water rights within the meaning of the <i>Mineral Resources Act</i> 1989;
	(b) underground water rights within the meaning of the Petroleum and Gas (Production and Safety) Act 2004;
	(c) underground water rights within the meaning of the <i>Petroleum Act 1923</i> , section 87(3).

## **Santos**

## Attachment 2 – Supporting Information

## **Attachment 2**

**Supporting Information for an EA Amendment Application** 

Roma Backbone Project EA (EPPG04323316)



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### **Abbreviations and Units**

Acronym	Description
CSG	Coal Seam Gas
DES	Department of Environment and Science, Queensland
DoR	Department of Resources
EA	Environmental Authority
EO Act	Environmental Offset Act 2014
EO Reg	Environmental Offset Regulation 2014
EP Act	Environmental Protection Act 1994
EPBC	Environmental Protection Biodiversity Conservation Act
EP Regulation	Environmental Protection Regulation 2019
EPC	Exploration Permit Coal
EPP	Environmental Protection Policy
ESA	Environmentally Sensitive Area
GES	General Ecological Significance
GHG	Greenhouse Gas
GLNG	Gladstone Liquified Natural Gas
GTP	Gas Transmission Pipeline
HES	High Ecological Significance
LRA	Land Resource Area
ML	Mega Litre
MNES	Matter of National Environmental Significance
MSES	Matter of State Environmental Significance
NC Act	Nature Conservation Act 1992
PL	Petroleum Lease
PPL	Petroleum Pipeline Licence
PPZ	Primary Protection Zone
RE	Regional Ecosystem
RoW	Right of Way
RSGPA	Roma Shallow Gas Project Area
RSGPAE	Roma Shallow Gas Project Area East
TIP	Tie In Point
TJ	Terajoule
TWA	Temporary Work Area
VM	Vegetation Management Act 1999



#### 1.0 Introduction

Santos CSG Pty Ltd (Santos), on behalf of its joint venture partners (PAPL (Upstream) Pty Limited, Total E&P Australia, KGLNG E&P Pty Ltd and Total E&P Australia II) is seeking to amend the Roma Backbone Environmental Authority (EA) EPPG04323316 in relation to Petroleum Pipeline Licences (PPLs) 2021 and 2061.

Pursuant to Section 224 of the *Environmental Protection Act 1994* (EP Act), a holder of an EA may make an application to the assessing authority seeking an amendment to an EA. Santos has prepared this document in accordance with Sections 226 and 227 of the EP Act and considered the Department of Environment and Science (DES) Guideline *Application requirements for petroleum activities* (DEHP, 2013).

Santos considers the proposed amendment satisfies all requirements of the definition of a major amendment in accordance with Section 223 of the EP Act (refer to Section 7.1.4).

### 2.0 Application Description

#### 2.1 Background

EPPG04323316 was granted 11<sup>th</sup> November 2016 to authorise construction and operation of the Roma East Gas Pipeline (PPL 2020) and the Roma East Water Pipeline (PPL 2021). These pipeline alignments also contain co-located power and communications infrastructure in the form of overhead power lines and fibre optic cabling, respectively.

The abovementioned pipelines and co-located infrastructure are collectively referred to as the "Roma Backbone" because they provide key linear transmission infrastructure for the Roma, Roma East project areas and other Santos project areas in the region.

The Roma Backbone is used to transport produced gas and water (and electricity and communications) from the Roma East Project Area East (RSGPAE) (authorised under EA EPPG00662213) to gas and water management facilities located at the Roma Hub (R-HCS-02).

R-HCS-02 is located on Petroleum Lease (PL) 314 in the Roma Shallow Gas Project Area (RSGPA) (authorised under EA EPPG00898213).

Figure 1 provides an overview of the Roma Backbone Project area and existing infrastructure locations.

The Roma Backbone EA (EPPG04323316) has been amended on several occasions for the following purposes:

- refinement of the Roma East Gas Pipeline (PPL 2020) and Water Pipeline (PPL 2021) alignments, and authorisation of temporary pipeline construction work areas;
- replacement of the original Category C Environmentally Sensitive Area (ESA) definition with the revised Streamlined Model Condition (SMC) definition (Amendment by Agreement);
- transfer of the existing Summerhill's Compression Station (R-NCS-01) and Angry Jungle regulated dam from the RSGPAE EA (EPPG00662213) to the Backbone EA to ensure consistent commercial ownership arrangements; and
- authorisation of new gas and water pipelines (Maisey East Gas and Water Pipelines) to facilitate transport and treatment of water associated with gas production from PL1021; and
- addition of PPL 2061 to authorise the abovementioned Maisey East Gas and Water Pipelines (Amendment by Agreement).

Further, ongoing gas field development activities in RSGPA and RSGPAE and other surrounding project areas will require further amendments to the Roma Backbone EA. These amendments are required to authorise construction and operation of additional gas, water, power and communications infrastructure to support new gas field development and associated supporting infrastructure.

This EA amendment is required to authorise proposed infrastructure and administrative changes in support of planned near term gas field development. Refer to Section 2.2 for further detail.



#### 2.2 Description of the Proposed Amendments

This EA (EPPG04323316) amendment is seeking authorisation to construct and operate the following proposed infrastructure in relation to PPLs 2021 and 2061:

- produced water dam (PPL 2021) (refer to Section 2.2.1);
- water pipeline with co-located overhead power line and fibre optic cable (PPL 2021) (refer to Section 2.2.2); and
- high voltage power substation (PPL 2021) (refer to Section 2.2.3).
- produced water tank and water pipeline extension (PPL 2061) (refer to Section 2.2.4)

Further, this application seeks the following administrative amendments:

- update the disturbance area listed against regulated dams in 'Schedule A, Table 1 Scale and Intensity for the Activities' to correct an error in the disturbance area authorised for the existing Angry Jungle dam (refer to Section 2.2.5);
- removal of Condition B6 and Table 1 'Significant residual impacts to prescribed environmental matters' from Schedule B of the EA to ensure clarity and consistency with Section 15 of the Environmental Offset Act 2014 (EO Act) (refer to Section 2.2.6); and
- consolidation of disturbance for 'gas pipeline' listed under PPL 2020 in Schedule A, Table 1 (refer to Section 2.2.7).

Further detail on the proposed amendments is provided in Section 2.2, and detail on specific changes to EA EPPG04323316 required to implement the amendments is provided in Section 3.0.



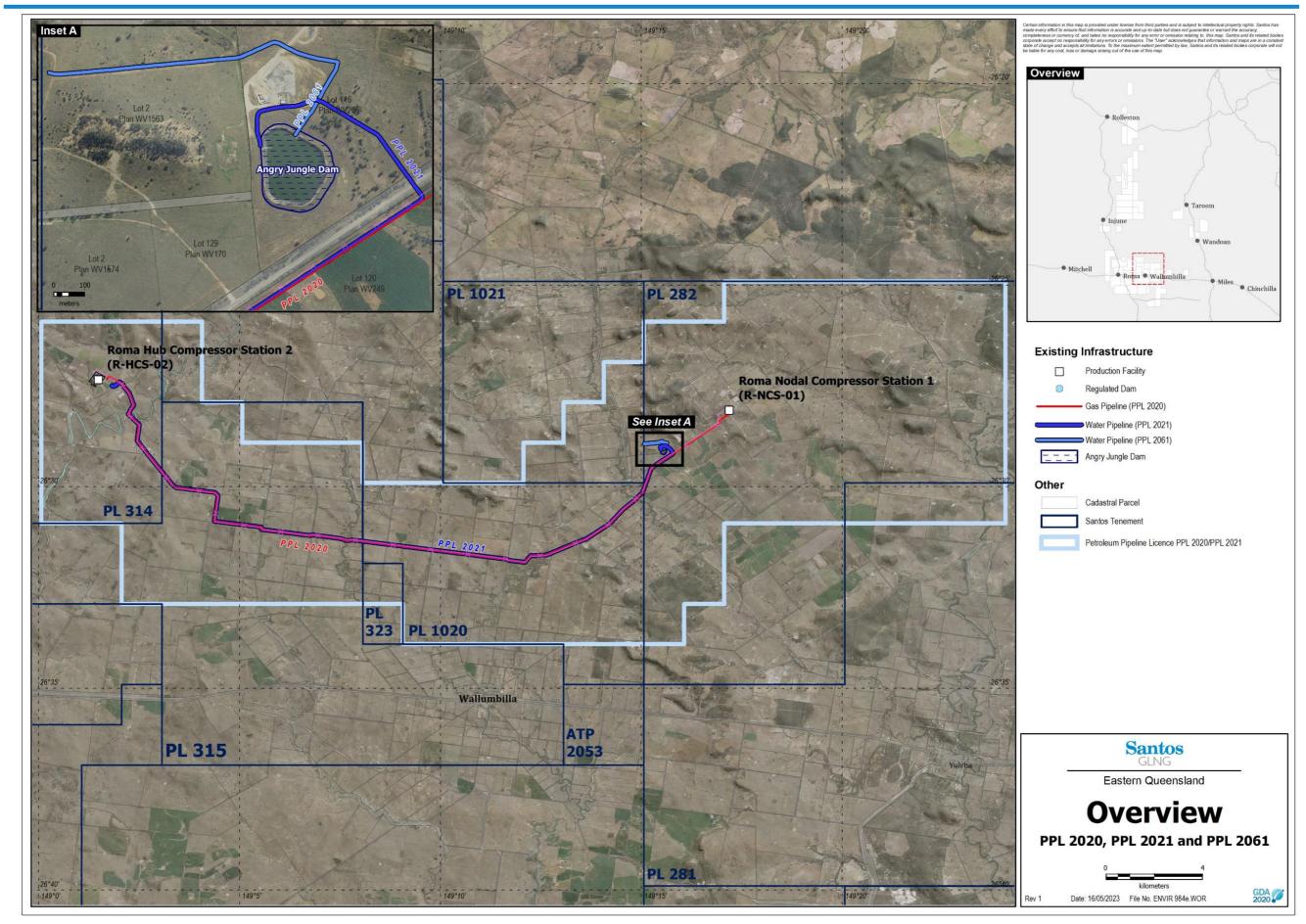


Figure 1: Overview Map - Roma Backbone Project Area - Existing Infrastructure



### 2.2.1 Produced Water Dam

Santos is proposing to construct and operate a new produced water dam and pump station located on the Reuben Downs property (Lot-Plan 643 WV452). The dam will be referred to by Santos as the "Reuben Downs Produced Water Dam" (henceforth referred to as the 'dam'). Reuben Downs is a Santos joint venture owned property (GLNG Operations Pty Ltd) (refer to Figure 2).

The dam is required to temporarily store produced water on Reuben Downs before being transferred via a new proposed water pipeline (refer to Section 2.2.2), and the existing Roma East Water Pipeline (PPL 2021, EA EPPG04323316).

Water from the dam will be transferred to the existing Roma Hub Compressor Station 2 (R-HCS-02) (RSGPA EA EPPG00898213, PL 314) for blending / processing. Processed water from R-HCS-02 is ultimately used for approved purposes such as irrigation, construction, drilling, and dust suppression where it meets appropriate quality requirements. Authorisation of the Reuben Downs produced water dam will ensure a continuous, fit for purpose, water management system is available to support near term gas field development activities.

The dam will feature dual high-density polyethylene (HDPE) liners and incorporate seepage detection monitoring. The dam will be designed to contain a 60 to 100 megalitre (ML) volume, with final volume to be confirmed following detailed engineering design. Notwithstanding, this amendment application conservatively assumes a disturbance footprint of approximately 14 hectares (ha) to accommodate a 100 ML capacity dam and associated pump station. The pump station will be located immediately adjacent to the dam.

The dam and pump station have been positioned in accordance with existing EA conditions. The dam and pump station will be located within a pre-existing cleared area i.e., no new disturbance to remnant native vegetation will be required for this development.

The dam will be designed and constructed under the supervision of a suitably qualified and experienced person in accordance with the *Manual for Assessing Hazard Categories and Hydraulic Performance of Dams* (DES, 2016). The operation, monitoring and reporting of the dam's condition and adequacy for dam safety will be undertaken in accordance with relevant EA (EPPG04323316) conditions.

To ensure consistent commercial infrastructure ownership arrangements, Santos is seeking to explicitly authorise the proposed Reuben Downs Produced Water Dam and pump station under EA EPPG04323316 on PPL 2021.

Schedule 3, item 6 of the *Environmental Protection Regulation 2019* (EP Regulation) defines the Environmentally Relevant Activity (ERA) "a petroleum activity carried out on a site containing a high hazard dam or a significant hazard dam". This ERA is an existing authorised activity on PPL 2021 under EA (EPPG04323316). Therefore, amendment of the EA to add this ERA is not required as part of this application.



### 2.2.2 Water Pipeline, Fibre Optic Cable and Overhead Power Line

Santos is proposing to construct and operate a new 12 km buried water pipeline (henceforth referred to as the 'pipeline'). The pipeline will be co-located with a 66 kV high voltage overhead power line (OHL) and buried fibre optic cable (FOC).

The proposed pipeline is required to connect the Reuben Downs Produced Water Dam to the Roma East Water Pipeline (PPL 2021). The pipeline will enable produced water to be ultimately transferred from the Reuben Downs Produced Water Dam to R-HCS-02 for blending / processing via the Roma East Water Pipeline (as described in Section 2.2.1).

The location of the water pipeline is displayed on Figure 2 and pipeline tie-in point locations are detailed in Table 3 (refer to Terminal Points 1 and 2). Preliminary water pipeline design specifications are detailed in Table 1. The pipeline will be constructed in accordance with Australian Standard (AS) 2885: *The Standard for Gas and Liquid Petroleum Pipelines*.

Further, Santos proposes to co-locate an OHL and FOC within the water pipeline construction Right of Way (RoW). The OHL and FOC are required to provide electricity and communications to the proposed Reuben Downs high voltage substation (refer to Section 2.2.3). The substation will distribute electricity to the Reuben Downs Produced Water Dam pump station and other associated facilities located on PLs 281 and 282. Figure 2 displays the locations of proposed infrastructure, and tie-in point locations are detailed in Table 3). The water pipeline, FOC and OHL will be co-located within a single construction RoW corridor not exceeding 42 m wide (refer to Figure 3). This RoW width will also ensure sufficient area is available to install appropriate erosion and sediment control structures i.e. at drainage feature crossings.

The only exception to the abovementioned 42m wide RoW width and co-location arrangement is the Kleins Road crossing area (refer to Figure 4). Due to Maranoa Regional Council (MRC) road crossing requirements, the crossing of Kleins Road will require the single construction RoW to be split into two separate RoWs, before returning to a single RoW following the road crossing (refer to Figure 4). The MRC requires buried pipeline crossings of council managed roads to be constructed at 90-degree angles (refer to Figure 4). Kleins road is an MRC managed road. There are also other minor roads and landholder tracks that intersect the Kleins Road crossing area, which further complicates infrastructure placement at this location (refer to Figure 4).

The construction of 90-degree bends in pipelines is typically avoided because they compromise colocation of linear infrastructure. In this case, the buried water pipeline and FOC can be installed at 90-degree angles to Kleins Road; however due to technical engineering constraints, the OHL must be offset and installed in a separate RoW at an approximate 45-degree angle across the road.

Sufficient areas must also be available to allow for power pole stay placement and installation. Power pole stays consist of steel wire attached to the power pole, which are anchored to the ground via a buried block that is offset from the power pole. These stays ensure the power poles stay upright. With reference to the inset map contained in Figure 4, the void in the southern section of the road crossing has been split into two areas to ensure power pole stays can be installed in the 10m wide area between the voids.

For the abovementioned reasons, pipeline construction at the Kleins Road crossing will require two separate RoWs not exceeding approximately 25m wide each. Santos will minimise disturbance to the greatest extent practicable at this location, and will retain undisturbed areas between the separate RoWs as displayed on Figure 4.

Santos preferentially co-locates all linear infrastructure in a single RoW, however in this circumstance Santos must also comply with MRC requirements. The abovementioned RoW width requirements



comply with existing construction corridor widths as authorised under EA EPPG04323316, *Schedule D, Planning for land disturbance*, Condition D2, *construction corridor must not exceed a total of 53m in width*).

Table 1: Proposed Water Pipeline - Preliminary Design Specifications

Pipeline Name	Product	Tenure	Length	Material	Diameter	MAOP (MPa)
Reuben Downs Produced Water Pipeline	Produced Formation Water	PPL 2021	12 km	HDPE	400 mm	1.3

MAOP (MPa) = Maximum allowable operating pressure in Megapascals.

**Table 2: Proposed Infrastructure - Terminal Points** 

Terminal Points	Tenure	Name / Description	Coordinates (GDA 94)	Lot on Plan	Total Length
Point 1 (Start Point)		Roma East Water Pipeline - Myalla tie in point	Longitude: 149°13'38.79" Latitude: -26°31'17.67"	75 WV1887	
Point 2 (End Point)	PPL	Reuben Downs Produced Water Dam Longitude: 149°17'57.35 Latitude: -26°35'12.51"		643 WV452	40 hara
Point 3 (Start Point)	2021	Roma East Transmission Line - Myalla tie in point	Longitude: 149°13'39.8" Latitude: -26°31'18.05"	75 WV1887	12 km
Point 4 (End Point)	Reuben Downs HV Power Substation		Longitude: 149°17'50.25" Latitude: -26°34'55.45"	643 WV1528	

Further, Santos minimises construction disturbance widths for linear infrastructure, and co-locates multiple services together wherever practicable e.g. Santos typically co-locates gas or water pipelines with communication and/or power lines in a single construction corridor. It is not in Santos' interest to locate or construct linear infrastructure corridors to cause excessive or unnecessary disturbance.

Increased disturbance areas result in the following:

- increased environmental exposure and risk e.g. erosion and sediment risks, and ongoing management requirements;
- increased transitional and final rehabilitation obligations;
- increased estimated rehabilitation costs payable to Government;
- consumption of disturbance limits as prescribed by the EA (Schedule B, condition B6, Table 1) and Commonwealth approvals; and
- increased potential biodiversity offset requirements.

The proposed construction RoW has been located to minimise disturbance to landholder property, sensitive vegetation and other environmental and cultural heritage factors wherever practicable, whilst maintaining the most direct route. Figure 2 displays the proposed construction RoW alignment. This RoW area has been utilised to assess potential impacts to environmental values for this EA amendment application. The proposed construction RoW will require minor disturbance to Environmentally Sensitive Areas (ESAs), Primary Protection Zones (PPZs) and Protected Wildlife Habitat, as further detailed in Section 6.2.



The proposed water pipeline (and co-located OHL / FOC) is considered to be 'gas field gathering infrastructure' and is an authorised activity under existing RSGPA EA EPPG00898213 and RSGPAE EA EPPG00662213 conditions, respectively. However, due to inconsistent commercial ownership arrangements across the underlying Petroleum Leases, Santos is seeking to explicitly authorise the proposed water pipeline (and OHL / FOC) under EA EPPG04323316 on PPL 2021.

### 2.2.2.1 <u>Pipeline Construction Activities</u>

Pipeline, OHL and FOC construction will be undertaken in general accordance with the activity description provided in the original Roma Backbone Project EA application, and subsequent EA amendment applications as summarised below.

For reference, Figure 3 displays a typical 42m pipeline construction RoW cross section that will be utilised during construction activities (with exclusion of the Kleins Road crossing area as discussed in Section 2.2.2, which will require two smaller separate RoWs).

#### **Clear and Grade Activities**

Clear and grade activities will be carried out to provide a safe working area for vehicular movement, trenching and other construction activities. The RoW will be reduced in width proximal to environmental and engineering constraints wherever practicable.

Graders and bulldozers will be used to clear the RoW of vegetation, which will then be stockpiled and used for erosion and sediment control structures, and rehabilitation activities. Large mature trees will be preserved where practicable. Topsoil will be graded and stockpiled separately from subsoil.

### **Temporary Ancillary Infrastructure**

Ancillary infrastructure such as temporary work areas (TWA's), laydown areas and temporary accommodation camps will be utilised to facilitate construction. TWA's will be utilised to temporarily store vehicles, machinery and construction materials, including laydown of sections of pipe and trench fill.

The TWA's associated with construction of the proposed activities will be located and operated in accordance with the underlying gas field tenure and their respective EAs, those being the RSGPA EA (EPPG00898213) and RSGPAE EA (EPPG00662213). TWA's will be located in existing disturbed areas or within the RoW itself where practicable, and as such will not require clearing of vegetation.

#### **Construction Activities**

After the RoW is cleared for construction, a trench will be dug for buried pipeline and co-located OHL / FOC installation using a trenching machine, and/or rock saws and excavators as required. The minimum practicable length of trench will be left open at any one time to reduce potential erosion, safety hazards, and fauna entrapment risk.

Where required, padding machines will be used to sift the excavated spoils to remove coarse materials in order to protect the pipe coating during the backfilling stages. The remaining fine material is used to pad beneath and on top of the buried pipe. Additional materials for padding are typically required in areas that have had significant amounts of rock removed during trenching.

Compaction of backfill and padding material will be undertaken where required to minimise subsidence effects. Pipeline integrity will be verified using hydrostatic testing (hydrotesting). Hydrostatic test water will be managed using existing facilities, low hazard / non-regulated dams or above ground tanks.

Ancillary pipeline infrastructure will be generally constructed within the pipeline RoW as required, including signage, fencing and valves.



### **Progressive Rehabilitation**

Disturbed areas no longer required for construction will be progressively rehabilitated / stabilised as construction progresses. Rehabilitation of disturbed areas will include:

- contouring to match surrounding landforms;
- · re-establishment of surface drainage lines;
- re-spreading of stockpiled topsoil and establishment of groundcover; and
- placement of cleared vegetation as required.

### **Pipeline Operation**

Following reinstatement of the construction RoW site, very little above ground infrastructure will be visible. Above ground infrastructure other than the overhead powerlines, will be limited to signage and marker posts to identify the location of the pipeline, fencing and valves. A routine inspection and maintenance program will be implemented, which will include leak detection surveys, ground and area patrols and ongoing rehabilitation of disturbed areas.

### **Decommissioning**

If no longer required, the pipeline will be purged of water and remain in-situ. However, if it is considered that the pipeline may offer some future benefit, it will be filled with an inert material and maintained to prevent degradation.

### 2.2.3 High Voltage Power Substation

Santos is proposing to construct and operate a high voltage power substation (HVPS) located on the Reuben Downs property (Lot-Plan 638 WV1528). The HVPS will be located immediately north of the proposed Reuben Downs Produced Water Dam in a pre-existing cleared area. Figure 2 displays the location of the HVPS. The proposed OHL and FOC will connect into the HVPS to provide electricity and communications to the site, respectively (refer to Section 2.2.2 for further detail).

The HVPS is required to convert and distribute HV electricity to higher or lower voltages according to the different power needs of ancillary equipment. Further, the HVPS will provide electricity to the proposed Reuben Downs Produced Water Dam pump station, and other associated facilities / infrastructure located on PLs 281 and 282.

The HVPS will be located on a pre-existing cleared and disturbed area i.e., no new disturbance to remnant native vegetation will be required for this development. The substation will require an area of approximately 3.75 ha or less and will be positioned in the northern half of the existing cleared area.

As per the proposed water pipeline discussed in Section 2.2.2, the HVPS is considered an authorised incidental activity under existing RSGPA EA EPPG00898213 and RSGPAE EA EPPG00662213 conditions, respectively. However, due to inconsistent commercial ownership arrangements across the underlying Petroleum Leases, Santos is seeking to explicitly authorise the proposed HVPS under EA EPPG04323316 on PPL 2021. Authorisation of the HVPS will ensure electricity is available to support near term gas field development activities and ancillary infrastructure.



### 2.2.4 Produced Water Tank and Water Pipeline Extension

Santos is proposing to construct and operate a new produced water tank and pump station located on the Broandah property (Lot-Plan 116 WV266) on a pre-existing cleared area adjacent to the Angry Jungle Dam. The tank will be referred to by Santos as the "Maisey Produced Water Tank" (henceforth referred to as the 'tank' below). Broandah is a Santos owned property (DOCE Pty Ltd) (refer to Figure 2).

The proposed tank is required to connect into the existing Maisey East Water Pipeline (PPL 2061), and temporarily store produced water generated from the Maisey Field (PL 1021). Produced water will be temporarily stored in the tank before ultimately being transferred via the Angry Jungle pump station into the existing Roma East Water Pipeline (PPL 2021, EA EPPG04323316). The produced water will ultimately be transferred to water treatment facilities located at the existing Roma Hub Compressor Station 2 (R-HCS-02) (RSGPA EA EPPG00898213, PL 314) for blending / processing (refer to Figure 2). Processed water from R-HCS-02 is ultimately used for approved purposes such as irrigation, construction, drilling, and dust suppression where it meets appropriate quality requirements.

Two minor sections of new water pipeline totalling approximately 400m will be required to connect the proposed tank into PPL 2061 and PPL 2021. The location of new sections of water pipeline are displayed on Figure 2 and pipeline tie-in point locations are detailed in Table 3. Terminal Points 5 and 6 are the existing pipeline start and end points, and Terminal Point 7 is where the new section of pipeline will tie into PPL 2021 via the Angry Jungle Dam pump station.

The proposed tank will feature a high-density polyethylene (HDPE) liner and incorporate a leak detection and capture system. The tank will be designed to contain a 25 to 50 megalitre (ML) volume, with final volume to be confirmed following detailed engineering design. Notwithstanding, this amendment application conservatively assumes a disturbance footprint of approximately 5 ha to accommodate a 50 ML capacity tank and associated pump station. The pump station will be located immediately adjacent to the tank. The tank and pump station have been positioned in accordance with existing EA conditions. The tank, pump station and additional sections of water pipeline will all be located within a pre-existing disturbed and cleared area (existing laydown pad) located immediately adjacent to the Angry Jungle Dam i.e., no new disturbance to remnant native vegetation will be required for this development.

To ensure consistent commercial infrastructure ownership arrangements, Santos is seeking to explicitly authorise the proposed tank, pump station and additional sections of water pipeline under EA EPPG04323316 on PPL 2061. Authorisation of the tank will ensure a continuous, fit for purpose, water management system is available to support current operations and near-term gas field development activities.

**Table 3: Proposed Infrastructure - Terminal Points** 

Terminal Points	Tenure	Name / Description	Coordinates (GDA 94)	Lot on Plan	Total Length
Point 5		Start Point - Maisey tie in point (sectioning valve)	Longitude: 149°15'4.81" Latitude: -26°28'55.91"		
Point 6	PPL 2061	Old End Point – Water HDPE outlet Angry Jungle Dam.	Longitude: 149°15'33.11" Latitude: -26°29'3.02"	2 WV1563	1.6 km
Point 7		New End Point - Tie in point at Angry Jungle Dam Pump Station	Longitude: 149°15'29.19" Latitude: -26°29'4.91"		



### 2.2.5 Regulated Dam – Angry Jungle Dam

The Angry Jungle produced water dam (henceforth referred to as the 'dam') was originally authorised under the RSGPAE EA (EPPG00662213) 14<sup>th</sup> December 2012. The dam was then transferred to the Roma Backbone EA (EPPG04323316) 14<sup>th</sup> February 2018 due to a change in commercial ownership of the dam. The dam is located on the Broandah property (Lot-Plan 116 WV266), which is a Santos owned property (DOCE Pty Ltd) (refer to Figure 2).

This EA amendment application to transfer Angry Jungle dam onto EA EPPG04323316 incorrectly sought a disturbance area of 3.96 ha for inclusion in *Schedule A, Table 1 – Scale and Intensity for the Activities*. This disturbance area only accounted for the dam perimeter rather than the full extent of construction disturbance (i.e., the toe of the batter for the dam wall), which is 6 ha (as originally allowed for under the RSGPAE EA).

Accordingly, this EA amendment application seeks to amend the disturbance area listed against regulated dams in *Schedule A, Table 1 – Scale and Intensity for the Activities* of EA EPPG04323316 to include the correct disturbance area. No new disturbance will be authorised by this EA amendment as the dam is existing, and was previously authorised under the RSGPAE EA (EPPG00662213).

Please note, the correct disturbance area (6 ha) for the dam was provided in the current Annual Environmental Return for the Roma Backbone EA (EPPG04323316).

### 2.2.6 Schedule B, Condition B6 and Table 1

As discussed in Section 2.2, this application seeks to remove Condition B6 and Table 1 'Significant residual impacts to prescribed environmental matters' from Schedule B of the EA.

This is required to ensure consistency with Section 15 of the *Environmental Offset Act 2014*, which states the following:

### Section 15 – Restriction on imposition of offset condition

- 1. An administering agency may impose an offset condition on an authority only if—
  - (a) the same, or substantially the same, impact has not been assessed under a relevant Commonwealth Act; and
  - (b) the same, or substantially the same, prescribed environmental matter has not been assessed under a relevant Commonwealth Act.

Condition B6 and Table 1 in Schedule B relate to disturbances and environmental offsets that were acquitted in their entirety under the *Commonwealth Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act).

More specifically, these offsets and associated disturbances were captured in the approved Federal offset plan under EPBC Act Approval 2008/4059 (CSG Fields) – that being the Santos GLNG Offset Plan and Acquittal Summary: EPBC Act Approval 2008/4059 (Stage 1). Federal offset plans are available at <a href="https://www.santos.com/about-us/corporate-governance/glng/">https://www.santos.com/about-us/corporate-governance/glng/</a>.

Condition B6 and Table 1 were included in the Backbone EA due to the prevailing regulatory processes at the time (2017), however, this inclusion in the EA was not appropriate, and Condition B6 and Table 1 should be removed from the EA to ensure clarity and consistency with Section 15 of the EO Act.

### 2.2.7 Consolidation of disturbance for 'gas pipeline' listed under PPL 2020

For simplicity, Santos proposes to consolidate disturbance values for 'gas pipeline' listed under PPL 2020 in Schedule A, Table 1 – Scale and Intensity for the Activities, of the EA. Refer to Section 3.0 for further detail.

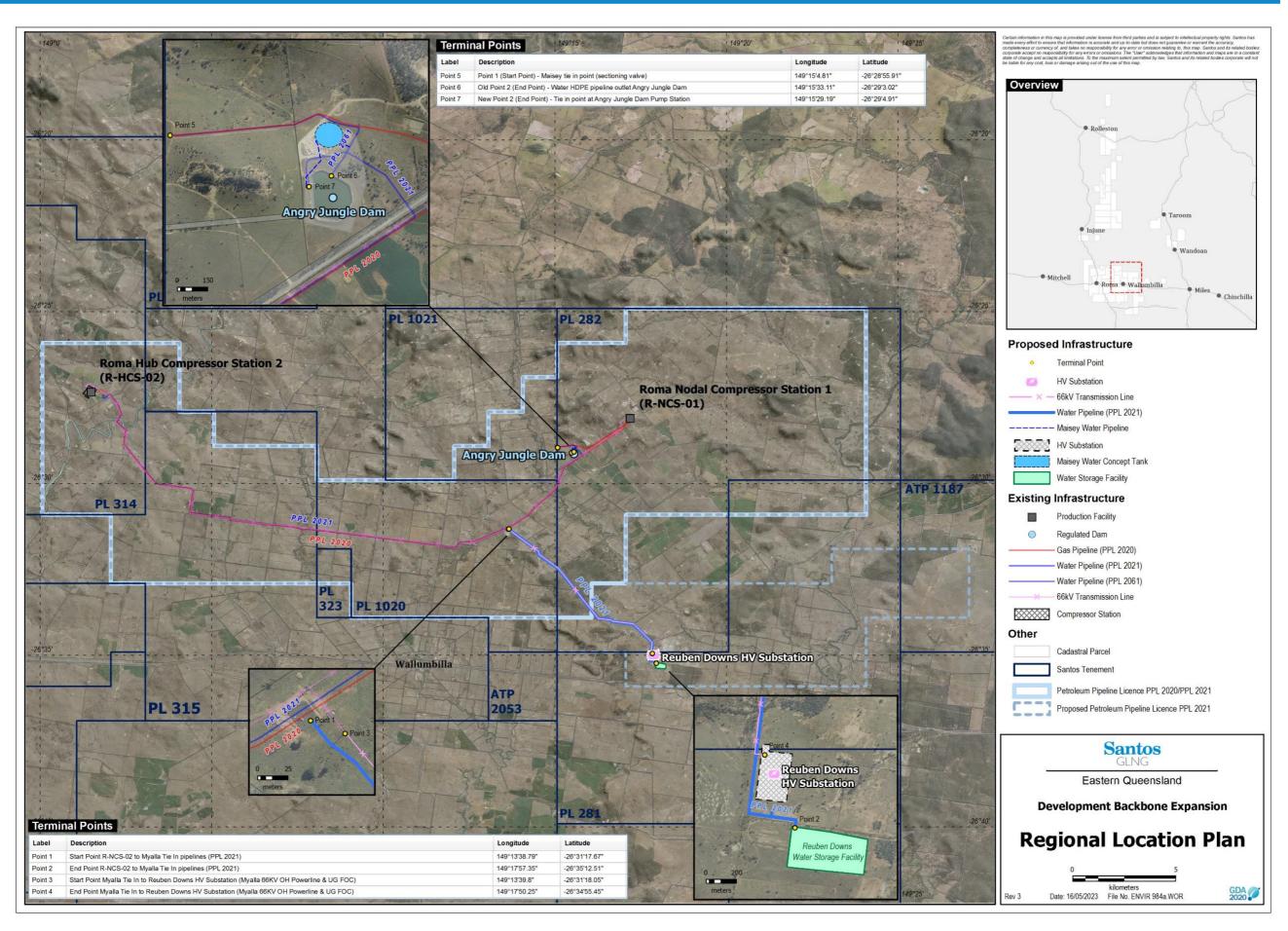


Figure 2: Overview Map - Roma Backbone Project Area - Existing and Proposed Infrastructure

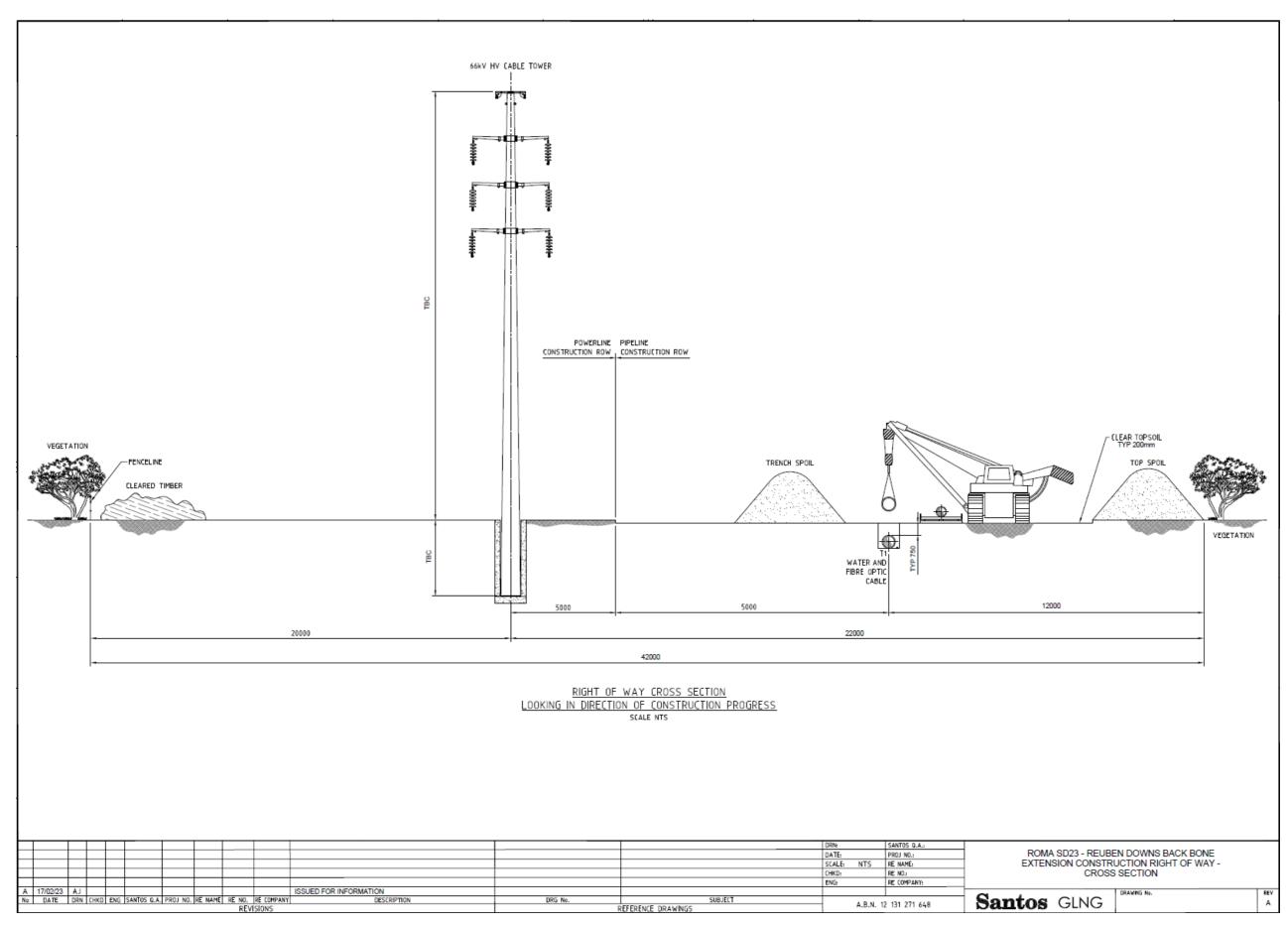


Figure 3: 42m Wide Pipeline Right of Way (RoW) Cross Section

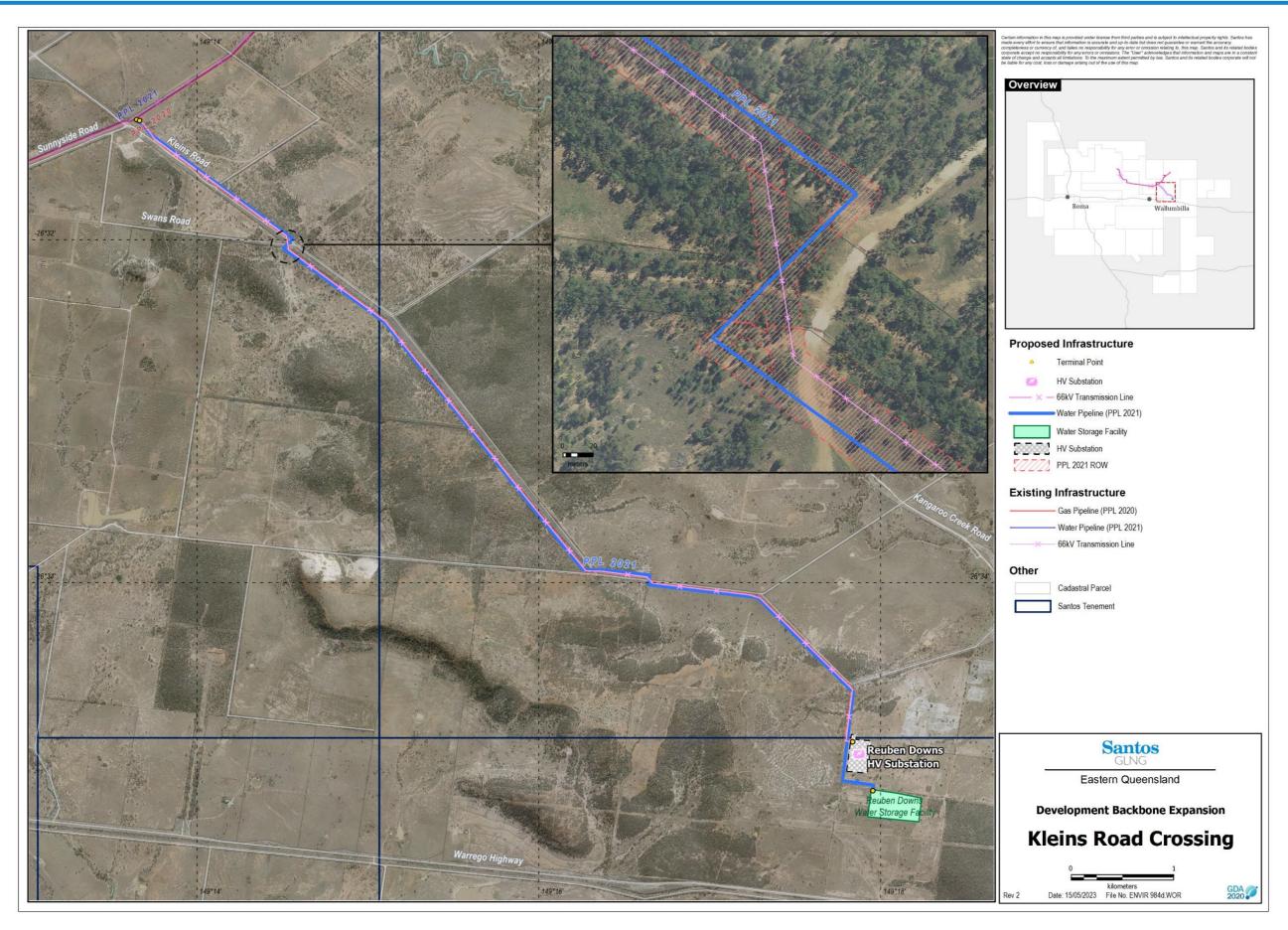


Figure 4: Proposed Pipeline Right of Way Split - Kleins Road Crossing

### 3.0 Proposed EA Amendments

As detailed in Sections 2.1 and 2.2, this application seeks to amend EA EPPG04323316 'Schedule A, Table 1 – Scale and Intensity for the Activities' to construct and operate the following proposed infrastructure / activities:

- produced water dam (14 ha) (PPL 2021);
- water pipeline (co-located with OHL and FOC) (12 km) (PPL 2021);
- high voltage power substation (3.75 ha) (PPL 2021); and
- produced water tank (5 ha) and water pipeline extension (400 m) (PPL 2061).

Further, this application seeks the following administrative amendments:

- update the disturbance area listed for Angry Jungle dam (3.96ha to 6 ha);
- removal of Condition B6 and Table 1 'Significant residual impacts to prescribed environmental matters' from Schedule B; and
- consolidation of disturbance for 'gas pipeline' listed under PPL 2020 in Schedule A, Table 1.

Proposed changes to 'Schedule A, Table 1 – Scale and Intensity for the Activities' identified in red below:

Schedule A, Table 1 - Scale and Intensity for the Activities

Tenures	Petroleum Activity	Scale (number of activities)	Scale and Intensity (maximum size in total)	
DDI 2020	Gas pipeline			
PPL2020	66kV high voltage powerline	N/A	50.3 <del>34.1</del> km	
PPL2021	Water pipeline		KIII	
PPL2020	Gas pipeline	N/A	4 <del>.2 km</del>	
PPL2021	66kV high voltage powerline	N/A	12 km	
PPL2061	Water pipeline	N/A	1.6 <del>1.2</del> km	
PPL2061	Water tank	1	5 ha	
PPL2020	Compressor station	1	15 ha	
PPL2021	Regulated dam(s)	2	20 <del>3.96</del> ha	
PPL2021	High voltage power substation	1	3.75 ha	

Moreover, implementation of proposed amendments to *Schedule A, Table 1* will require update of '*Schedule A, Table 2 - Authorised Disturbances for the PPL2020, PPL2021 and powerline construction corridor*' to authorise proposed disturbances to ESAs and PPZs. Santos also proposes several administrative amendments to *Schedule A, Table 2* to simplify the EA. Please refer Section 3.1.1 for further information on proposed amendments.



### 3.1.1 Schedule A, Tables 2 and 3

Condition A3 of EA EPPG04323316 does not authorise significant disturbance to land within certain ESAs and PPZs as follows:

A3 Only <u>low impact petroleum activities</u> can be undertaken within <u>Category A</u> <u>Environmentally Sensitive Areas (ESAs)</u>, or <u>Category B ESAs</u> or <u>Category C ESAs</u> other than state forests or timber reserves, or within the ESAs' <u>primary protection zone</u>.

As discussed in Section 2.2.2, authorisation is sought to construct and operate new sections of PPL 2021 (proposed water pipeline, OHL and FOC). Construction of the pipeline will require minor disturbance to ESAs and/or their PPZ.

This application therefore seeks to amend 'Schedule A, Table 2 – Authorised Disturbances for the PPL2020, PPL2021 and powerline construction corridor' to:

- a) include proposed pipeline construction disturbance areas to ESAs and ESA PPZs (refer to Section 6.2 for further detail);
- b) integrate existing authorised disturbances for TWAs listed in *Schedule A, Table 3* (refer to Section 3.1.1);
- c) remove 'approximate location' longitude and latitude co-ordinates (refer to Section 3.1.1.2); and
- d) remove Regional Ecosystem (RE) description for ESA PPZ (refer to Section 3.1.1.3).

Proposed amendments to 'Schedule A, Table 2 – Authorised Disturbances for the PPL2020, PPL2021 and powerline construction corridor' are detailed in red below:



## Schedule A, Table 2 – Authorised Disturbances for the PPL2020, PPL2021 and powerline construction corridor to ESA

ESA/PPZs	Approximat (GD/		RE	Area of disturbance (hectares)
	Longitude	<b>Latitude</b>		(**************************************
	<del>149.2036</del>	<del>-26.529</del>	Of concern RE 11.9.7	
	<del>149.1523</del>	<del>-26.525</del>	Of concern RE 11.3.2	
Category C ESA	<del>149.247</del>	<del>-26.5055</del>	Of concern RE 11.3.2	<del>4.64</del> 5.69
	<del>149.038</del>	<del>-26.4682</del>	Of Concern RE	0.00
	<del>149.1277</del>	<del>-26.523</del>	11.3.25	
	149.038	<del>-26.4682</del>	Of Concern RE	
	<del>149.1277</del>	<del>-26.523</del>	<del>11.3.25</del>	
	<del>149.2036</del>	<del>-26.529</del>	Of concern RE 11.9.7	
PPZ of Category C ESA	<del>149.2559</del>	<del>-26.4909</del>	<del>Of Concern RE 11.9.7</del>	<del>28.45</del> 40.72
Lon	149.1523	<del>-26.525</del>		40.72
	149.247	<del>-26.5055</del>	Of concern RE 11.3.2	
	149.26257	<del>-26.48664</del>		
	149.0442	<del>-26.4856</del>		
	<del>149.1142</del>	<del>-26.5203</del>		
	<del>149.2261</del>	<del>-26.522</del>	Endangered RE 11.9.5	
Category B ESA	<del>149.2386</del>	<del>-26.5133</del>	11.0.0	4.38
Calegory B ESA	<del>149.263</del>	<del>-26.4866</del>		5.55
	149.1277	<del>-26.523</del>	Endangered RE 11.3.17	
			Endangered RE 11.9.10	
	<del>149.1277</del>	<del>-26.523</del>	Endangered RE 11.3.17	
	149.2559	<del>-26.4909</del>	Endangered RE 11.9.10	
	<del>149.0442</del>	<del>-26.4856</del>		
	<del>149.0735</del>	<del>-26.5098</del>		
	<del>149.0729</del>	<del>-26.5154</del>		
PPZ of Category B	<del>149.0805</del>	<del>-26.5154</del>		<del>50.8</del>
ESA	149.0936	<del>-26.5177</del>	- IDE	104.66
	<del>149.1063</del>	<del>-26.5193</del>	Endangered RE 11.9.5	
	<del>149.1142</del>	<del>-26.5203</del>		
	149.2261	<del>-26.522</del>		
	<del>149.2386</del>	<del>-26.5133</del>		
	<del>149.263</del>	<del>-26.4866</del>		
	149.27204	<del>-26.47917</del>		



### 3.1.1.1 Schedule A, Table 3 - Temporary Work Areas:

To simplify the EA, existing authorised disturbances to ESAs for TWAs is proposed to be included in the renamed 'Schedule A, Table 2 – Authorised Disturbance to ESA' i.e. remove Schedule A, Table 3 and integrate it with Schedule A, Table 2.

Given all listed disturbances in Schedule A Tables 2 and 3 are to ESAs, Santos is of the view that the additional level of detail provided by *Schedule A, Table 3* is redundant.

Please note, as discussed in Section 2.2.2.1, any TWAs required for construction of the proposed infrastructure will be located within existing disturbed areas or within the RoW itself where practicable, and as such will not require clearing of vegetation. No additional TWAs are sought to be authorised by this application.

Ancillary infrastructure such as temporary work areas (TWA's), laydown areas and temporary accommodation camps will be utilised to facilitate construction. TWA's will be utilised to temporarily store vehicles, machinery and construction materials, including laydown of sections of pipe and trench fill.

### 3.1.1.2 Schedule A, Table 2 – Approximate location, longitude and latitude co-ordinates:

To simplify the EA and remove unnecessary specificity, Santos proposes to remove longitude and latitude co-ordinates for disturbance to ESAs and PPZs listed in 'Schedule A, Table 2 – Authorised Disturbances for the PPL2020, PPL2021 and powerline construction corridor'.

Proposed disturbance areas (hectares) to ESAs and PPZs will remain prescribed in *Schedule A, Table 2* and in the supporting Figures attached to the EA. Total disturbance area is the key authorisation that should be captured for impacts to environmental values.

Further, Santos provides DES with high accuracy spatial data in the form of Geographical Information Systems (GIS) shapefiles as per the requirements of EA Annual Return, Estimated Rehabilitation Cost (ERC) and Plan of Operations (PoO) regulatory reporting processes for EA EPPG04323316. Interrogation of this spatial data provides a significantly more accurate and transparent method to assess compliance against *Schedule A, Table 2*.

### 3.1.1.3 Schedule A, Table 2 – Regional Ecosystem description for ESA PPZ:

This amendment application seeks to remove RE description and disturbance location for all PPZs listed in *Schedule A, Table 2*.

This is because ESA PPZ REs listed in *Schedule A, Table 2* refer to the RE description of the ESA identified to be disturbed. This is not an accurate representation of the vegetation or value being disturbed. In many instances, the PPZ has been cleared for agricultural purposes and is not present.

As such, this application seeks to remove RE description and disturbance location for all PPZs listed in *Schedule A, Table 2*, while maintaining the disturbance area authorisation.

### 4.0 Site Description

PPLs 2021 and 2061 (henceforth referred to as the project area) are located approximately 10 km east of Wallumbilla in the Maranoa Regional Council area. Land within and surrounding the project area is predominantly used for agriculture and forestry, recreation and tourism, and oil and gas exploration and production.

The land has been subject to intensive agricultural activities over an extended period of time, and this is reflected in the fragmented nature of remnant vegetation and large areas of non-remnant vegetation present. The majority of land within and surrounding the project area is held under private ownership. However, the land on which the proposed activities will take place is held under various land tenures including, for example, freehold, State leasehold, reserves, unallocated State land and roads.

The proposed activities will not significantly impede land use for exploration or pastoral purposes in the project area. All landholders will be consulted prior to construction commencing.

Existing PPL 2021 and 2061 tenure blocks and sub-blocks are provided in Table 4. Further, PPL 2021 will require additional sub-blocks to be added to the tenure as listed in Table 5.

BIM **Blocks Sub-Blocks** CHAR 2149 F, G, H, J, L, M, N, O, Q, R, S, T, U, V, W, X, Y, Z, CHAR 2150 V, W, X CHAR 2151 P, T, U, X, Y, Z CHAR 2512 C, D, E, F, G, H, J, K, L, M, N, O, P, Q, R, S, T, U, V, W, X, Y, Z CHAR 2153 A, B, C, D, F, G, H, J, L, M, N, O, Q, R, S, T, V, W, X, Y CHAR 2221 A, B, C, D, E, H, J, K, N, O, P 2021 CHAR 2222 A, B, C, D, E, F, G, H, J, K, L, M, N, O, P, U CHAR 2223 A, B, C, D, E, F, G, H, J, K, L, M, N, O, P, Q, R, S, T, U, CHAR 2224 A, B, C, D, E, F, G, L, M, Q, R, S, T, U, V, W, X, Y, Z 2225 CHAR A, B, C, D, O, P, Q, R, S, T, U, V, W, X, Y 2226 CHAR L, M, Q, R CHAR 2296 C, D, E CHAR A, B, C, D 2297 CHAR 2151 U, V 2061 CHAR 2152 Q, Z

Table 4: PPLs 2021 and 2061 Blocks and Sub-Blocks

Table 5: Proposed PPL 2021 Blocks and Sub-Blocks

BIM	Blocks	Sub-Blocks
CHAR	2224	R, S, T, U, V, W, X, Y, Z
CHAR	2225	O, P, Q, R, S, T, U, V, W, X, Y
CHAR	2226	L, M, Q, R
CHAR	2296	C, D, E
CHAR	2297	A, B, C, D



### 5.0 Relevant Environmental Values

This section provides a description of the environmental values present within the project area where relevant to the scope of the proposed amendment. For clarity, the proposed activities are those activities / infrastructure described in Section 2.2.

Desktop and field-based methods were used to assess relevant environmental values within the project area. Field-based methods included ecological field surveys undertaken by suitably qualified ecologists to ground-truth government mapped vegetation within the project area. Where proposed activities are located on pre-existing disturbed areas not requiring disturbance to remnant vegetation, detailed ecological assessment has not been undertaken. The only aspect of the proposed amendment that will disturb remnant vegetation (i.e. REs, ESAs, Protected flora and fauna habitat) is the proposed water pipeline RoW (PPL 2021) as described in Section 2.2.2. Desktop methods included database searches and government environmental reports (refer to Appendix A for further information).

Based on the proposed amendment as detailed in Section 2.2, relevant environmental values include:

- land resources;
- · regional ecosystems;
- environmentally sensitive areas;
- flora and fauna;
- Matters of State Environmental Significance;
- surface waters and wetlands;
- groundwater;
- · air quality; and
- noise and vibration.

The proposed amendment will not result in changes to rehabilitation or waste management objectives (as defined in Schedules I, C and E of the EA, respectively). Disturbances will continue to be rehabilitated to meet existing final acceptance criteria prescribed in Schedule I of the EA. As such, the environmental values of rehabilitation and waste are not addressed further.

Potential impacts to identified values resulting from the proposed activities, and impact mitigation measures to be implemented are described Section 6.0.



### 5.1 Land Resources

General descriptions of topography, geology and soils occurring within the project area are summarised in Table 6. These descriptions were obtained from Land Resource Area (LRA) mapping and associated Technical Reports from Roma (DPI, 1987) and Taroom (Forster, 1985). The project area is predominantly located in LRAs 9, 8 and 2 with minor areas of disturbance located in LRAs 4 and 11, as detailed in Table 6.

Table 6: Topography and Soils within the Project Area

LRA	General Description
LRA 2 - Brigalow Uplands	Gently undulating plains (1-3%) and short segments to 8% associated with low hills and ridges; developed on weathered sandstones / shales. Predominantly cracking / non-cracking grey, brown / red clays; minor red-brown earths and other texture contrast soils. Skeletal soils present on ridges.
LRA 4 - Coogoon	Gently undulating plains (1-2%) and short slopes to 5% associated with ridges and crests; developed on weathered sandstones and old sandy alluvia. Predominantly red earths and re-brown earths- solodic intergrades. Some skeletal soils, texture contrast soils and massive earths also occur, along with minor grey and brown clays.
LRA 8 - Maranoa	Flat plains (0-1%) developed predominantly on sandy alluvia. Predominantly sandy test contrast soils and deep sands. Mainly confined to the major streams and their tributaries.
LRA 9 - Yuleba	Undulating plains (1-5%) to scarps and low hills. Developed mainly on coarse grained, quartzoze sandstones and poorly weathered sediments. Skeletal soils and shallow stony texture contrast soils. Minor areas of grey / brown cracking and non-cracking clays on interlayered mudstone beds.
LRA 11 - Struan	Undulating plains (0-4%) to low hills and escarpments; developed predominantly on quartzoze sandstones. shallow to moderately deep hard setting massive red earths and skeletal soils.

### 5.2 Regional Ecosystems

Third-party ecological consultants Terrestria Pty Ltd (Terrestria) undertook an ecological assessment of the project area (refer to Appendix A for further information). The assessment included on-ground and desktop-based assessments to confirm RE classification and status. The project area is located within the Brigalow Belt (South) Bioregion. Remnant REs identified to be present in the project area are detailed in Table 7 and displayed on Figure 5. Large sections of the project area also contain non-remnant vegetation, largely comprised of previously cleared grazing land.

Table 7: Regional Ecosystems within the Project Area

RE	Regional Ecosystem Description	VM Act Status	BD Status	Structural Category
11.5.1	Eucalyptus crebra and/or E. populnea, Callitris glaucophylla, Angophora leiocarpa, Allocasuarina luehmannii woodland on Cainozoic sand plains and/or remnant surfaces	LC	NCAP	Sparse
11.7.2	Acacia spp. woodland on Cainozoic lateritic duricrust. Scarp retreat zone	LC	NCAP	Sparse
11.9.7	Eucalyptus populnea, Eremophila mitchellii shrubby woodland on fine-grained sedimentary rocks	ОС	ОС	Sparse
11.9.10	Eucalyptus populnea open forest with a secondary tree layer of Acacia harpophylla and sometimes Casuarina cristata on fine-grained sedimentary rocks	ос	E	Mid-dense

Key: Non VM class and BD status under the Vegetation Management Act 1999: NCAP – No Concern at Present, LC – Least Concern, OC – Of Concern, E – Endangered



### 5.3 Environmentally Sensitive Areas

The project area supports several ESAs and their associated protection zones as detailed in Table 8 and presented in Figure 6.

Table 8: Environmentally Sensitive Areas within the Project Area

ESA Category	ESA Description
Category B	Endangered Regional Ecosystems
Category C	Of Concern Regional Ecosystems

### 5.4 Flora and Fauna

As discussed in Section 5.2, Terrestria undertook on-ground and desktop-based ecological assessments of the project area to determine presence of suitable habitat for Environment Protection and Biodiversity Conservation Act 1999 (EPBC Act) and Nature Conservation Act 1992 (NC Act) listed flora and fauna (refer to Appendix A for further information).

Further, Terrestria undertook an EPBC Act Protected Matters Search Tool (PMST) report for the project area that identifies threatened wildlife habitat modelled to potentially occur within and around the project area. Further, Terrestria also undertook a WildNet Online database search report for the project area, and it lists threatened flora and fauna species recorded present within and surrounding the project area (refer to Appendix A for further information).

Terrestria found no evidence of the presence of listed flora or fauna species during field survey of the project area, however the project area may provide suitable habitat for a range of listed species based on RE association. Further, no high-risk areas as shown on the Protected Plants Survey Trigger Map are mapped to occur within the project area).

Listed species assessed to be potentially present and have suitable habitat within the project area are detailed in Table 9. Refer to Appendix A for further information.

Table 9: Potential Listed Species and RE Associations within the Project Area

Species	Common Name	NC Act	EPBC Act	Potentially Suitable Habitat by Regional Ecosystem
Nyctophilus corbeni	South-eastern long- eared bat	V	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Petauroides volans	Greater Glider	V	V	11.3.2, 11.3.25, 11.5.1, 11.7.7, 11.9.7, 11.9.10
Phascolarctos cinereus	Koala	V	V	11.3.2, 11.3.25, 11.5.1, 11.7.7, 11.9.7, 11.9.10
Calptorhynchus lathami	Glossy Black- Cockatoo	N/A	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Grantiella picta	Painted Honeyeater	V	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Hirundapus caudacutus	White-throated Needletail	V	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Acanthophis antarcticus	Common Death Adder	N/A	V	11.7.7, 11.9.7, 11.9.10



Species	Common Name	NC Act	EPBC Act	Potentially Suitable Habitat by Regional Ecosystem
Aspidites ramsayi	Woma	N/A	NT	11.3.1, 11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Delma torquata	Collared Delma	V	V	11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Egernia rugosa	Yakka Skink	V	V	11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Furina dunmalli	Dunmalls Snake	V	V	11.3.1, 11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Strophurus taenicauda	Golden-tailed Gecko	N/A	NT	11.3.1, 11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10
Adclarkia dulacca	Dulacca Woodland Snail	Е	Е	11.7.2, 11.7.7, 11.9.5
Jalmenus eubulus	Pale Imperial Hairstreak butterfly	V	N/A	11.3.1, 11.9.10

Key: Qld Nature Conservation Act 1992; Cwth Environment Protection and Biodiversity Act 1999: CE = Critically endangered; E = Endangered; V = Vulnerable; NT = Near Threatened; SL – special least concern

### 5.5 Matters of State Environmental Significance

The Terrestria and a Matters of State Environmental Significance (MSES) reports identified several MSES to be present within the project area and surrounding region (refer to the Terrestria and MSES reports attached as Appendix A).

MSES identified to be present in the project area include:

- Protected wildlife (fauna) habitat;
- Regulated Vegetation (prescribed REs that are Endangered and Of Concern);
- Regulated Vegetation (a prescribed RE to the extent the ecosystem is located within a defined distance from the defining banks of a relevant watercourse);

### 5.5.1 Protected wildlife (fauna) habitat

Refer to Sections 5.4 and 6.2 for further detail on potential protected wildlife habitat (fauna) located in the project area.

### 5.5.2 Regulated Vegetation

Regulated vegetation is a prescribed RE that is:

- Endangered or Of Concern RE as defined under the Vegetation Management Act 1999 (VMA):
- REs located within the defined distance from the defining banks of a watercourse as identified
  on the 'vegetation management watercourse map', as defined under the VMA; or
- a wetland identified on the 'vegetation management wetlands map' as defined under the VMA.

A prescribed RE is an RE located in a Category B area on the 'regulated vegetation management map' to the extent the RE contains remnant vegetation.

As discussed in Section 5.2, Terrestria undertook field and desktop based ecological assessment of the project area. Terrestria did not identify any areas of remnant vegetation that were also located within a Category B area as mapped on the 'regulated vegetation management map'. Remnant REs identified



to be present in the project area are provided in Table 7 and are displayed on Figure 5. Refer to Appendix A for further information.

### 5.6 Surface Water and Wetlands

The project area is located within the Balonne-Condamine catchment. The project area includes several watercourses that are lower order, ephemeral type streams.

The proposed pipeline alignment (PPL 2021 pipeline) will cross three mapped Stream Order (SO) 1 watercourses. All features are ephemeral, flowing only during times of rainfall and overland flow. These drainage features are highly ephemeral systems, and in the absence of any semi-permanent pools are expected to only contain fish during periods of high rainfall causing streamflow. Further, no General Ecological Significance (GES) or High Ecological Significance (HES) wetlands are intersected by the proposed activities.

The environmental values applicable to surface waters, as defined by the *Maranoa-Balonne River Basin Environmental Values and Water Quality Objectives* (DES, 2020) and *Condamine River Basin Environmental Values and Water Quality Objectives* (DES, 2020) are as follows:

- · protection of the aquatic ecosystems;
- primary industries:
  - o irrigation;
  - o farm supply/use;
  - stock watering;
- human consumer;
- recreation and aesthetics:
  - primary and secondary recreation;
  - visual appreciation;
- · drinking water;
- · industrial use; and
- cultural, spiritual and ceremonial values.

### 5.7 Groundwater

For the purposes of this application, the environmental value of groundwater is only considered relevant to the operation of the proposed Reuben Downs Produced Water Dam.

The project area is located within the Balonne-Condamine catchment. Environmental values applicable to groundwater, as defined by the *Maranoa-Balonne River Basin Environmental Values and Water Quality Objectives* (DES, 2020) and *Condamine River Basin Environmental Values and Water Quality Objectives* (DES, 2020) include:

- protection of the aquatic ecosystems;
- primary industries:
  - irrigation;
  - farm supply/use;
  - stock watering;



- recreation and aesthetics:
  - o primary and secondary recreation;
  - visual appreciation;
- drinking water; and
- cultural, spiritual and ceremonial values.

The underlying hydrogeology of the Reuben Downs Produced Water Dam project site comprises formations of the Great Artesian Basin (GAB). The GAB is a Jurassic to Cretaceous age hydrogeological basin comprising alternating aquifers and aquitards of various geologic formations of Surat Basin sediments and their equivalents.

The main aquifers are the Precipice Sandstone, Hutton Sandstone, Gubberamunda Sandstone, Mooga Sandstone, Bungil Formation and their equivalents. These aquifers are generally laterally continuous, have significant water storage and permeability and are extensively developed for groundwater use. Aquifers are recharged by infiltration of rainfall and leakage from streams into outcropping sandstone, mainly on the eastern margins of the basin, close to the Great Dividing Range.

The geological and hydrostratigraphic sequence at the produced water dam site comprises (formation depths taken nearby from well completion report for Wingfield Park 1):

- 0-150m depth. The Lower Cretaceous Bungil Formation comprises interbedded fine-grained lithic sandstone, siltstone and commonly carbonaceous mudstone with minor sublabile and quartzose sandstone. Regionally it is considered a partial aquifer however there is no evidence of economic groundwater based findings from nearby water bores;
- 150-250m depth. The Mooga Sandstone comprises fluvial quartzose to lithic sandstone with thinly interbedded dark-grey mudstone and siltstone. It is considered an aquifer at the location of the dam as it is the source formation for nearby bores; and
- 250-400m depth. The Orallo Formation consists primarily of sublabile to labile sandstones with lesser interbedded carbonaceous siltstone, mudstone, and minor coal. It is considered an aquifer at the location of the dam as it is the source formation for nearby bores.

The nearest registered groundwater bores (those located within a 4.5km radius) target a range of depths in the Mooga and Orallo Formations. These bores include:

- RN123503 (bore zone inlet 273-334m depth);
- RN123107 (bore inlet 295-327m depth);
- RN123619 (bore inlet 168-203m depth);
- RN123240 (bore inlet 230-272m depth);
- RN14821 (bore inlet 164-178m depth); and
- RN58085 (bore inlet 175-230m depth).

### 5.8 Air Quality and Noise

Air quality in the vicinity of the project area is representative of a rural area with a low population density and is likely to be largely influenced by activities such as:

• dust from agricultural and oil and gas exploration and production activities, including from stock and vehicle movements, land clearing, and cropping activities;



- particulates from naturally occurring events such as bushfires;
- vehicle and equipment exhaust fumes from roads, agriculture activities, industrial activities and towns; and
- emissions from resources activities operating in the area.

Consistent with the objectives of the *Environmental Protection (Air) Policy 2019* (EPP Air), the environmental values relevant to the project area are:

- the qualities of the air environment that are conducive to protecting the health and biodiversity of ecosystems;
- the qualities of the air environment that are conducive to human health and well being;
- the qualities of the air environment that are conducive to protecting the aesthetics of the environment, including the appearance of buildings, structures and other property; and
- the qualities of the air environment that are conducive to protecting agricultural use of the environment.

The existing noise environment for the project area is typical of rural areas, with low levels of background noise generally comprised of noises associated with rural based human occupation.

Noise levels in the vicinity of the project area are likely to be influenced by the following:

- the use of equipment and machinery during both agricultural activities and oil and gas exploration and production activities in the area;
- traffic noise from project vehicles and other traffic, including heavy transport vehicles associated with the Warrego Highway operating on a 24 hour basis;
- natural sources such as birds, insects, wind and other meteorological events;
- livestock; and
- resource exploration and development activities.

Consistent with the objectives of the *Environmental Protection (Noise) Policy 2019* (EPP Noise), the environmental values are:

- the qualities of the acoustic environment that are conducive to protecting the health and biodiversity of ecosystems;
- the qualities of the acoustic environment that are conducive to human health and well being, including by ensuring a suitable acoustic environment for individuals to sleep, study or learn, or be involved in recreation (including relaxation and conversation); and
- the qualities of the acoustic environment which are conducive to protecting the amenity of the community.



# 6.0 Potential Impacts, Mitigation Measures and Environmental Risk Assessment

As discussed in Section 2.2, impacts associated with the proposed activities are not new and are consistent with activities and impacts authorised by the existing Roma Backbone EA (EPPG04323316).

Further, significant pre-planning has been undertaken by Santos to co-locate the proposed infrastructure to minimise disturbance to land and vegetation wherever reasonably possible (given safety and engineering restrictions discussed in Section 2.2).

Nonetheless, this section provides the following:

- a description of potential impacts to relevant environmental values (as described in Section 5.0);
- mitigation and management measures to minimise potential impacts to relevant environmental values; and
- an environmental risk assessment.

To assess environmental risks associated with the proposed activities, a risk assessment for each relevant environmental value has been completed. The environmental risk assessment is based on risk factors associated with both the initial construction and ongoing operational phases of the proposed activities.

Risk assessments for a proposed activity identify a wide range of risks and potential impacts to relevant environmental values as a result of carrying out the proposed activities. This does not mean all identified potential impacts will occur as a result of carrying out the proposed activities. Once initial unmitigated risks and potential impacts are identified as part of a risk assessment, appropriate control strategies are identified and implemented. Appropriately implemented control strategies will typically mitigate the likelihood of a potential impact occurring, and/or reduce the severity/consequences of the potential impact.

The risk assessment identifies initial (unmitigated) risks associated with the proposed activities for each relevant environmental value. Following identification of appropriate mitigation measures (control strategies), the residual (mitigated) risk posed to each environmental value has also been determined.

The risk assessment has been undertaken in accordance with the Santos Management System (SMS) Risk Management Standard. The SMS Risk Management Standard is based on accepted principles and applicable Australian standards. Further detail on the risk assessment process is provided in Appendix B

The results of the risk assessment are summarised in Table 13, and further discussed in Sections 6.1 to 6.4. The risk assessment identified a range of potential impacts associated with the proposed activities. Following consideration of control strategies, a residual risk of 'Low' was assigned to all potential impacts to relevant EVs.

Potential impacts to MSES in context of the Environmental Offset Act 2014 are discussed in Section 7.2.



### 6.1 Land Resources

Potential direct and indirect impacts to land resources will be predominantly short-term and associated with the initial clearing and construction phases pf the project. Following completion of the construction phase, large sections of land will begin regenerating to achieve stability and groundcover similar to that of surrounding areas. For example, as discussed in Section 2.2.2.1, the majority of the pipeline construction RoW will be rehabilitated, with the exception of a minor area to allow for mandatory routine inspections and maintenance via light vehicles i.e. an access track is required. Disturbed areas no longer required for construction will be progressively rehabilitated / stabilised as construction progresses. Rehabilitation of disturbed areas following construction will include:

- · contouring to match surrounding landforms;
- · re-establishment of surface drainage lines;
- · re-spreading of stockpiled topsoil and establishment of groundcover; and
- placement of cleared vegetation as required.

Following reinstatement of the construction RoW, limited above-ground infrastructure will be visible. Above-ground infrastructure other than the OHL, will be limited to signage and marker posts to identify the location of the pipeline, fencing and valves. A routine pipeline inspection and maintenance program will be implemented, which will include leak detection surveys, ground and area patrols, and ongoing rehabilitation monitoring of disturbed areas. Further, the proposed pipeline RoW has been predominantly located adjacent to existing landholder fence lines to minimise disturbance to remnant native vegetation and assist in minimising disruption to existing land uses. Similarly, the low-risk characteristics of the proposed water line contents (i.e. produced water) largely reduces potential consequence to land associated with the unlikely event of any loss of containment.

Moreover, as discussed in Sections 2.2.1 and 2.2.3 to 2.2.4 respectively, the proposed Reuben Downs produced water dam and pump station, HVPS, and Maisey produced water tank and water pipeline extension will all be located within pre-existing cleared / disturbed areas (i.e., no new disturbance to remnant native vegetation will be required) on property owned by Santos (Reuben Downs).

The proposed activities may result in direct and indirect impacts to land resources (as described in Section 5.1), primarily as a result of:

- infrastructure construction (earthworks activities, including grading and trenching);
- vehicle and plant movements;
- minor spills or leaks of fuels and chemicals from vehicles and equipment;
- loss of containment;
- bushfire and flood (natural event); and
- fire (ignition sources resulting from activities).

Santos aims to minimise the operational footprint and significant disturbance associated with its activities as far as reasonably practicable. However, potential direct and indirect impacts to land resource environmental values resulting from the proposed activities may include:

- reduction in visual amenity;
- soil erosion, topsoil loss, inversion and compaction;
- disturbance to land use and suitability changes;



- reduction in agricultural productivity; and
- contamination of soil.

Management (control) strategies, risk sources, potential impacts and the level of risk associated with the proposed activities are summarised in Table 13. The results of the risk assessment indicate the residual risk to land resource environmental values as a result of the proposed activities is classified as 'Low'.

### 6.2 Regional Ecosystems, ESAs, and Flora and Fauna

The proposed activities may result in direct and indirect impacts to REs, ESAs, Flora and Fauna (as described in Sections 5.2 to 5.4) primarily as a result of:

- infrastructure construction (earthworks activities, including grading and trenching);
- entrapment in voids (trenches / bell holes), pipelines and the regulated dam;
- · vehicle and plant movements; and
- fire (ignition sources resulting from activities).

Santos aims to minimise the operational footprint and significant disturbance associated with its activities as far as reasonably practicable. However, potential direct and indirect impacts to REs / ESAs and Flora and Fauna resulting from the proposed activities may include:

- damage to and/or loss of native vegetation and habitat;
- damage to and/or loss of high value flora;
- introduction and/or spread of weeds, pest plants, animals and pathogens;
- loss of species population, further endangerment and loss in species diversity; and
- disturbance, injury or loss of fauna.

Moreover, as discussed in Sections 2.2.1 and 2.2.3 to 2.2.4 respectively, the proposed Reuben Downs produced water dam and pump station, HVPS, and Maisey produced water tank and water pipeline extension will all be located within pre-existing cleared / disturbed areas i.e., no new disturbance to remnant native vegetation will be required.

The only aspect of the proposed activities that will disturb remnant vegetation (i.e. REs, ESAs, flora and fauna habitat) is the proposed PPL 2021 water pipeline RoW as described in Section 2.2.2. RE and ESA disturbance as a result of the proposed activities are detailed in Table 10 and Table 11, and are displayed on Figure 5 and Figure 6, respectively.

Please note, areas of regrowth vegetation were mapped within the proposed PPL 2021 disturbance area (these areas have been included in Table 10 for the purposes of transparency and completeness). All areas of regrowth vegetation mapped within the disturbance area were determined not to possess sufficient habitat attributes to be regarded as functional by Terrestria. These non-functional regrowth patches do not represent an ESA as they contain very little in the way of habitat factors for threatened species, and are very unlikely to support these threatened species. Refer to Section 3.2.2 in Appendix A for further information.

Further, there are no high-risk areas as shown on a Protected Plants Survey Trigger Map within the proposed disturbance area (refer to Appendix A for further information). Further, disturbance to potentially suitable habitat for listed species is detailed in Table 12.



Management (control) strategies, risk sources, potential impacts and the level of risk associated with the proposed activities are summarised in Table 13. The results of the risk assessment indicate that residual risks to REs / ESAs and Flora and Fauna environmental values as a result of the proposed activities are classified as 'Low'.

Table 10: Proposed Disturbance to Regional Ecosystems

RE	RE Description	VM Act Status	BD Status	Structural Category	Disturbance Area (ha)			
11.5.1	Eucalyptus crebra and/or E. populnea, Callitris glaucophylla, Angophora leiocarpa, Allocasuarina luehmannii woodland on Cainozoic sand plains and/or remnant surfaces	LC	NCAP	Sparse	0.55 7.66 (non- functional regrowth)			
11.7.2	Acacia spp. woodland on Cainozoic lateritic duricrust. Scarp retreat zone	LC	NCAP	Sparse	0.34 0.23 (regrowth)			
11.9.7	Eucalyptus populnea, Eremophila mitchellii shrubby woodland on fine-grained sedimentary rocks	OC	ОС	Sparse	1.05 1.65 (non- functional regrowth)			
11.9.10	Eucalyptus populnea open forest with a secondary tree layer of Acacia harpophylla and sometimes Casuarina cristata on fine-grained sedimentary rocks	ОС	Е	Mid-dense	1.17 3.60 (non- functional regrowth)			
Non-Remnant	Predominantly pre-cleared grazing land and associated agricultural activities	NA	NA	NA	25.47			
	3.11							
Totals	Non-Functional Regrowth	Non-Functional Regrowth						
	25.47							
	41.72							

Key: Non VM class and BD status under the *Vegetation Management Act 1999*: NCAP – No Concern at Present, LC – Least Concern, OC – Of Concern, E – Endangered

Table 11: Proposed Disturbance to ESA and PPZ

ESA Category	Туре	Area of Disturbance (total RoW) (ha) <sup>1</sup>					
D	Endangered RE (11.9.10)	1.17					
В	PPZ (Endangered RE)	52.02					
C	Of Concern RE 11.9.7	1.05					
С	PPZ (Of Concern RE)	12.27					
Total Disturband	ce Area	66.51					

<sup>&</sup>lt;sup>1</sup> The areas quantified and total disturbance area for ESAs/PPZs will be an overestimate of impacts due to overlapping ESA values in the proposed disturbance area.



### 6.1 Matters of State Environmental Significance

As discussed in Section 5.5, MSES have been identified present within the project area and immediate surrounds. Environmental values analogous to MSES (i.e. flora, fauna, Regional Ecosystems and water) have been assessed for the project area by this risk assessment, and relevant control measures to mitigate potential risks and impacts are detailed in Table 13. Refer to Section 7.2 for further information on potential impacts to MSES in the context of the *Environmental Offsets Act 2014*.

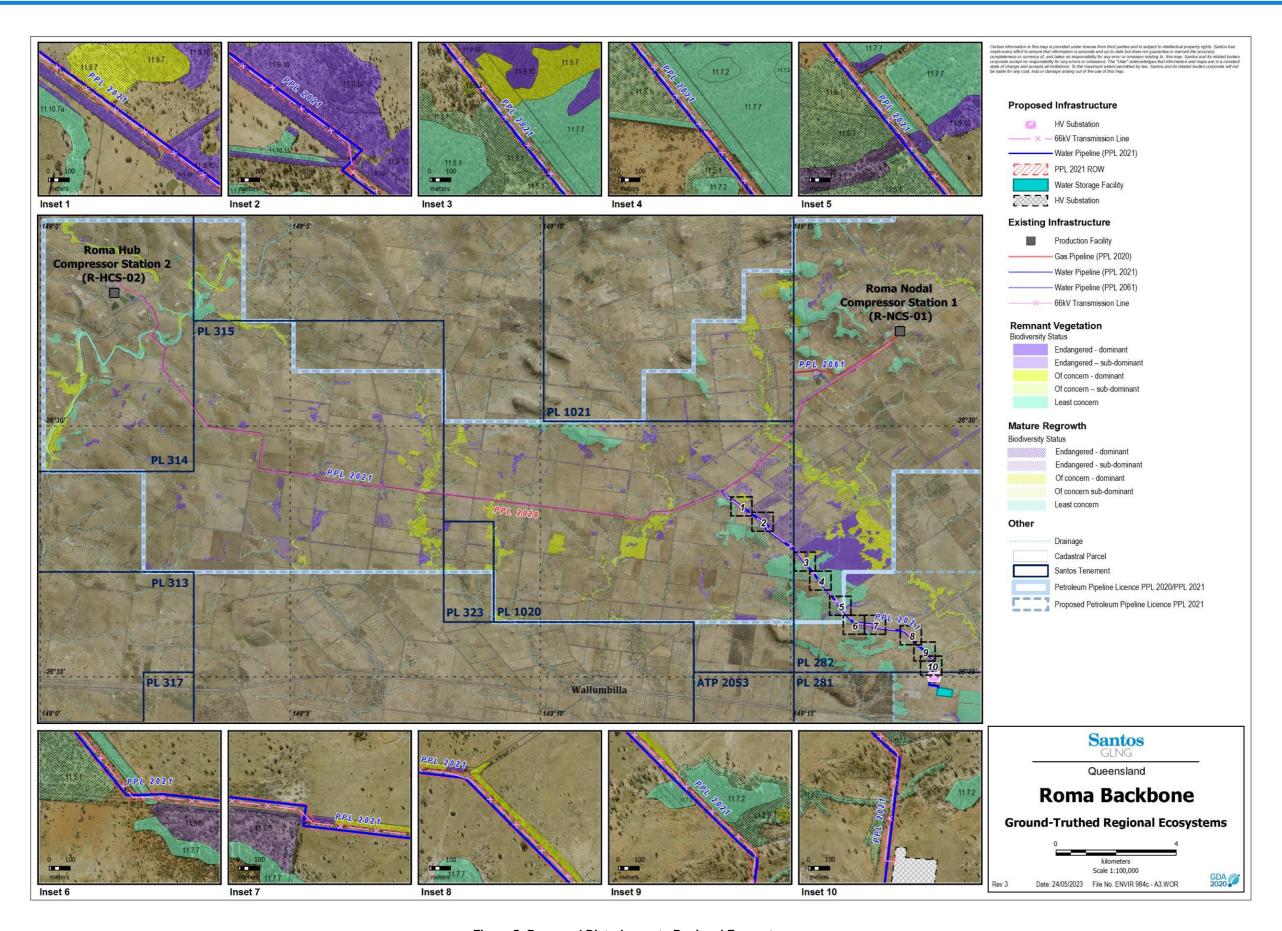


Figure 5: Proposed Disturbance to Regional Ecosystems



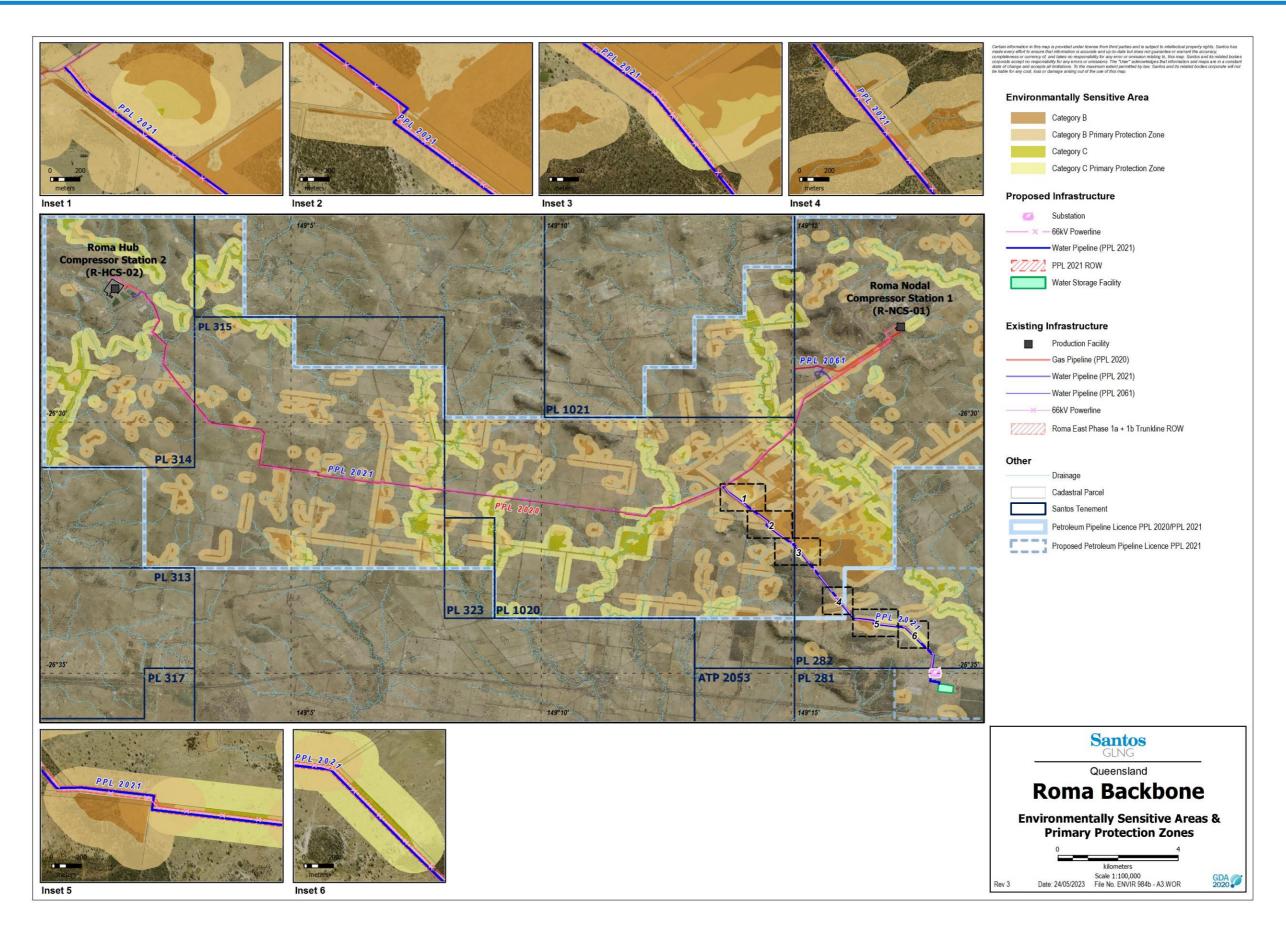


Figure 6: Proposed Disturbance to ESA and PPZ



Table 12: Proposed Disturbance to Potential Habitat for Listed Species

Cursina	Common Name	Conserv Ratir		Potentially Suitable	Disturbance	% Disturbance (relative to
Species	Common Name	EPBC Act	NC Act	RE	Area (ha)	available habitat in PPL 2021)
Nyctophilus corbeni	South-eastern long-eared bat	V	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	2.3	0.06%
Petauroides volans	Greater Glider	V	V	11.3.2, 11.3.25, 11.5.1, 11.7.7, 11.9.7, 11.9.10	2.9	0.11%
Phascolarctos cinereus	Koala	V	V	11.3.2, 11.3.25, 11.5.1, 11.7.7, 11.9.7, 11.9.10	2.3	0.11%
Calptorhynchu s lathami	Glossy Black- Cockatoo	V	N/A	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	2.3	0.06%
Grantiella picta	Painted Honeyeater	V	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	2.3	0.06%
Hirundapus caudacutus	White-throated Needletail	V	V	11.3.1, 11.3.2, 11.3.25, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	2.3	0.06%
Acanthophis antarcticus	Common Death Adder	V	N/A	11.7.7, 11.9.7, 11.9.10	2.4	0.20%
Aspidites ramsayi	Woma	NT	N/A	11.3.1, 11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	3.3	0.09%
Delma torquata	Collared Delma	V	V	11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	3.3	0.09%
Egernia rugosa	Yakka Skink	V	V	11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	3.2	0.09%
Furina dunmalli	Dunmalls Snake	V	V	11.3.1, 11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	3.2	0.09%
Strophurus taenicauda	Golden-tailed Gecko	NT	N/A	11.3.1, 11.3.2, 11.5.1, 11.7.2, 11.7.7, 11.9.7, 11.9.10	3.3	0.09%
Adclarkia dulacca	Dulacca Woodland Snail	E	Е	11.7.2, 11.7.7, 11.9.5	0.3	0.05%
Jalmenus eubulus	Pale Imperial Hairstreak butterfly	N/A	V	11.3.1, 11.9.10	1.4	0.12%

**Key:** Qld *Nature Conservation Act 1992*; Cwth *Environment Protection and Biodiversity Act 1999*: CE = Critically endangered; E = Endangered; V = Vulnerable; NT = Near Threatened; SL – special least concern



### 6.2 Surface Water and Wetlands

As discussed in Section 5.6, the project area includes several watercourses that are lower order, ephemeral type streams, and the proposed pipeline alignment (PPL 2021) will cross three minor SO 1 mapped watercourses. All features are ephemeral, flowing only during times of rainfall and overland flow. No GES or HES wetlands are intersected by the proposed activities.

The proposed activities have potential to result in direct and indirect impacts to surface water environmental values (as described in Section 5.6) primarily as a result of:

- infrastructure construction (earthworks activities including grading and trenching);
- · vehicle and plant movements;
- minor spills or leaks of fuels and chemicals from vehicles and equipment;
- · loss of containment; and
- flood (natural event).

Santos aims to minimise the operational footprint and significant disturbance associated with its activities as far as reasonably practicable. However, potential direct and indirect impacts to surface water values resulting from the proposed activities may include:

- disturbance to natural drainage patterns;
- degradation of downstream water quality from sediment releases / minor spills or leaks of fuels and chemicals;
- damage to and/or loss of native vegetation and habitat; and
- contamination of soil and/or watercourses.

As discussed in Section 2.2.2, the proposed pipeline (PPL 2021) will be constructed in a RoW width not exceeding 42 m (excluding the Kleins Road crossing area). This RoW width will also ensure sufficient area is available to construct appropriate erosion and sediment control (ESC) structures (where required). These ESC structure will assist to minimise potential for sedimentation to waters.

Management (control) strategies, risk sources, potential impacts and the level of risk associated with the proposed activities are summarised in Table 13. The results of the risk assessment indicate that residual risks to surface water environmental values as a result of the proposed activities are classified as 'Low'.

### 6.3 Groundwater

The construction and operation of the Reuben Downs produced water dam has the potential to result in minor impacts to groundwater (as described in Section 5.7) due to seepage of stored produced water to groundwater. Long-term seepage of stored produced water, if undetected, could result in minor impacts to groundwater resources. As discussed in Section 2.2.1, the Reuben Downs produced water dam will be dual HDPE lined and incorporate seepage detection monitoring to ensure the effectiveness of control measures. In addition to seepage detection monitoring systems within the dam design, shallow groundwater monitoring bores will be installed to the uppermost surficial groundwater bearing unit to monitor for early signs of seepage from the dam.

The dam will be designed and constructed under the supervision of a suitably qualified and experienced person in accordance with the *Manual for Assessing Hazard Categories and Hydraulic Performance of Dams* (DES, 2016). The operation, monitoring and reporting of the dam's condition and adequacy for dam safety will be undertaken in accordance with relevant EA (EPPG04323316) conditions.

Management (control) strategies, risk sources, potential impacts and the level of risk associated with the proposed activities are summarised in Table 13. The results of the risk assessment indicate that residual risks to groundwater environmental values as a result of the proposed activities are classified as 'Low'.

### 6.4 Air Quality and Noise

The proposed activities may result in impacts to air and noise values (as described in Section 5.8), respectively), primarily as a result of:

- infrastructure construction;
- vehicle and plant movements;
- fire (ignition sources resulting from activities); and
- minor exhaust emissions generated from vehicles, equipment and machinery.

Santos aims to minimise the operational footprint and significant disturbance associated with its activities as far as reasonably practicable. However, potential direct and indirect impacts to air quality and noise values resulting from the proposed activities may include:

- air pollution and localised reduction in air quality;
- · nuisance caused by vibration, noise and dust generation; and
- disturbance to fauna and livestock.

The majority of these potential air and noise impacts would be temporary and limited to the initial construction period. The proposed activities (and potential noise and air impacts) are also consistent with those associated with the existing petroleum activities authorised by the existing Backbone EA, underlying RSGPA and RSGPAE EAs, and existing land use (pastoral activities). Construction activities associated with the proposed activities would typically occur from 6am to 6pm, seven days per week for a relatively limited period of time i.e. limited to a number of weeks.

Background noise monitoring has not been undertaken for the proposed activities given that the development occurs within the existing operational GLNG tenure areas (RSGPA and RSGPAE EA tenure areas). The deemed background noise levels as prescribed in the DES guideline 'Prescribing noise conditions for environmental authorities for petroleum activities' are considered to be representative of the ambient acoustic environment. The deemed background levels are as follows:



- day-time (7am to 6pm) 35 dBA LA<sub>90</sub>
- evening (6pm to 10pm) 30 dBA LA<sub>90</sub>
- night-time (10pm to 7am) 25 dBA.

The primary air pollutants generated during construction and operations would be minor dust and exhaust emissions from operating vehicles, plant and machinery. These sources will be predominately temporary, occurring only during the construction period. These relatively minor dust and exhaust emissions would remain local to the source, and are unlikely to affect air quality environmental values of the broader project area provided that mitigation and management measures identified in Table 13 are implemented.

Management (control) strategies, risk sources, potential impacts and the level of risk associated with the proposed activities are summarised in Table 13. The results of the risk assessment indicate that residual risks to air quality and noise environmental values as a result of the proposed activities are classified as 'Low'.

Table 13: Environmental Risk Assessment

	ldent	ification		Un	mitiga Risk			Resi	dual	Risk
Risk Event / Activity	Relevant EV	Potential Impact	Risk Source	Consequence	Likelihood	Risk	Control Strategies			
Construction and operation of proposed infrastructure	Land Resources	Reduction in visual amenity Soil erosion, topsoil loss, inversion and compaction Disturbance to land use and suitability changes Reduction in agricultural productivity Contamination of soil	Infrastructure construction (earthworks activities, including grading and trenching)  Vehicle and plant movements  Minor spills or leaks of fuels and chemicals from vehicles and equipment  Loss of containment  Bushfire and flood (natural event)  Fire (ignition sources resulting from activities)	III	d	Medium	Compliance with relevant EA conditions, and all relevant internal and external approvals are in place before work is undertaken. All disturbance undertaken in accordance with Santos standards. Industry standards and good industry practices are followed. Appropriate emergency response plans in place.  Land Resources  The proposed infrastructure has been designed to be located in pre-disturbed, non-rement, areas or co-located to minimise the area of new disturbance to land and weigntoin on a much as it ensanchally possible (given softing and engineering retartions discussed in Section 2.2). The proposed pPL 2021 RoW will be constructed to be within the width requirements stipulated by Condition D2 of EA EPPG04323316. Surface disturbance will be restricted to the minimum area required to safety carry out activities (refer to discussion in Section 2.2). Infrastructure will be located to minimum generals to draining patterns, soil, and vegetation. Sensitive terrain is protected through appropriate construction and maintenance practices. Management of sensitive areas (e.g. sloped areas) is detailed in accoped of works, appropriate (effect to additional Control Strategies listed under Surface Water). Any short-term reduction in the availability of existing land use would be offset by commercial agreements between proponents and the property owner.  Weibelier and Johan movements  Now unauthorised driving outside of the approved construction area.  Weibelier and Johan movements  Now the scheduled for it in with landholder's property management activities.  Per Johan Guide and Johan movements areas andria access tracks carried out as required / permitted to reduce dust generation.  North is scheduled for it in with landholder's property management activities.  Per Johan Guide and the minimum areas and an access track scarried out as required / permitted by a permit to work.  Resource of section and area andria access track scarried out as required / permitted by reduced during self-levents of the size of permitted in re		C	Low



	Identification Unmitigated Risk		ated		Res	Risk	(				
Risk Event / Activity	Relevant EV	Potential Impact	Risk Source	Consequence	Likelihood	Risk	Control Strategies		Likelihood	Risk	
Construction and operation of proposed infrastructure	Flora, Regional Ecosystems and ESAs	Damage to and/or loss of native vegetation and habitat  Damage to and/or loss of high value flora  Introduction and / or spread of weeds, pest plants, animals and pathogens	Infrastructure construction (earthworks activities, including grading and trenching) Vehicle and plant movements Fire (ignition sources resulting from activities)	III	c	Low	Infrastructure design process to address location and non-location specific threats and develop adequate controls to mitigate environmental and publicithirid party safety risk. Safety, testing, maintenance and inspection procedures implemented.  Pipeline construction integrity verification (e.g. phydro test, or pneumatic test).  Regular monitoring of control systems (e.g., emergency shutdown valves) to ensure that protection levels are adequate. Emergency response personnel.  Loss of containment managed via appropriate Santos incident management system, and implementation of corrective actions is based on incident investigation.  Probabilitation  Pipeline trenches are backfilled and topsolis reinstated within 3 months after pipe laying in accordance with condition E18 of EA EPPG04323316.  Gathering line ROWs are re-instated and revegetation commenced within 6 months after completion of petroleum activities for the purpose of pipeline construction in accordance with condition E19 of EA EPPG04223316.  Rehabilitation of significantly disturbed areas will commence within 12-months of no longer being required (unless an exceptional circumstance in the area to be rehabilitation (e.g., a flood eventr) prevents this timeframe being met).  Areas potentially exposed to contamination will be assessed and remediated where required.  Final rehabilitation of disturbed areas would be undertaken to achieve the final rehabilitation criteria conditions (as specified in the EA).  Rehabilitation in of disturbed areas would be undertaken to achieve the final rehabilitation criteria conditions (as specified in the EA).  Rehabilitation of stockpleid education of storage areas would be undertaken to achieve the final rehabilitation criteria conditions (as specified in the EA).  Rehabilitation of stockpleid opposition;  respreading of stockpleid topsoil, vegetation and seed stock (where available) to facilitate natural revegetation; and  respreading of stockpleid disposition, and all relevant internal and external approvals in place be	II	c	Low	

	ldent	ification		Un	Unmitigated Risk						
Risk Event / Activity	Relevant EV	Potential Impact	Risk Source	Consequence	Likelihood	Risk	Control Strategies	Consequence	Likelihood	Risk	
Construction and operation of proposed infrastructure	Fauna	Damage to and/or loss of native vegetation and habitat  Loss of species population, further endangerment and loss in species diversity  Disturbance, injury or loss of fauna  Introduction and/or spread of weeds, pest plants, animals and pathogens	Infrastructure construction (earthworks activities, including grading and trenching) Entrapment Vehicle and plant movements Fire (ignition sources resulting from activities)	111	С	Low	<ul> <li>Compliance with relevant EA conditions, and all relevant internal and external approvals in place before work undertaken.</li> <li>Fauna and Livestock</li> <li>A suitably qualified Fauna Spotter / Catcher will be present during vegetation clearing activities; and fauna found to be present within areas to be cleared shall be removed and relocated by the Fauna Spotter / Catcher.</li> <li>Hollow logs (located on ground) within disturbance areas retained and shifted to adjacent undisturbed areas.</li> <li>Measures implemented to reduce risks to fauna from earthworks, vegetation clearing, and entrapment in excavations. For example, checking of open trench for trapped fauna, use of trench ladders, ramps, sticks, ropes (or similar) to assist trapped fauna escape / survive until removed.</li> <li>Refer to additional Control Strategies listed under Flora, Regional Ecosystems and ESAs. Vehicle and Plant Movements, and 'Fire and Flood' under Land Resources.</li> </ul>	II	С	Low	
Construction and operation of proposed infrastructure	Surface Water	Disturbance to natural drainage patterns  Degradation of downstream water quality from sediment releases / minor spills or leaks of fuels and chemicals  Damage to and/or loss of native vegetation and habitat  Contamination of soil and/or watercourses	Infrastructure construction (earthworks activities including grading and trenching)  Vehicle and plant movements  Minor spills or leaks of fuels and chemicals from vehicles and equipment  Loss of containment  Flood (natural event)	IV	С	Medium	Compliance with relevant EA conditions, and all relevant internal and external approvals in place before work undertaken.  Surface Water  Reuben Downs regulated dam will be designed, constructed and operated in accordance with conditions E14 to E17 of EA EPPG04323316. Santos will develop site-specific erosion and sediment control plans (ESCP) or implement standard ESCPs for each scope of work e.g. gathering line installation. Erosion and sediment controls installed where necessary prior to disturbance. Watercourse crossings will be constructed to comply with the DAF Waterway Barrier Works Code where applicable. Construction or maintenance of linear infrastructure activities in a watercourse will be conducted in the following preferential order:  firstly, in times where there is no water present; secondly, in times of no flow; and thirdly in times of flow, but in a way that does not impede low flow.  Construction or maintenance of linear infrastructure activities in watercourses will comply with the turbidity limit of condition (E4) of EA (EPPG004323316). Refer to Control Strategies listed under Flora, Regional Ecosystems and ESAs, Fire and Flood, Fuel, Oil and Chemical Storage and Handling, and Loss of Containment under Land Resources.	IV	b	Low	
Construction and operation of proposed infrastructure	Ground water	Contamination of groundwater resources	Seepage of stored produced water to groundwater	IV	С	Medium	Refer to general control strategies listed under the Land Resources EV. Compliance with relevant EA conditions, and all relevant internal and external approvals in place before work undertaken.  Groundwater  Reuben Downs regulated produced water dam: Constructed using dual HDPE liners and incorporate seepage detection monitoring. Will be located within a pre-existing cleared area i.e., no new disturbance to remnant native vegetation will be required for this development. Will be designed and constructed under the supervision of a suitably qualified and experienced person in accordance with the Manual for Assessing Hazard Categories and Hydraulic Performance of Dams (DES, 2016).	IV	b	Low	



	Identification Unmitigated Risk				ted		Res	idual	Risk	
Risk Event / Activity	Relevant EV	Potential Impact	Risk Source	Consequence	Likelihood	Risk	Control Strategies	Consequence	Likelihood	Risk
							<ul> <li>Operation, monitoring and reporting of the dam's condition and adequacy for dam safety will be undertaken in accordance with relevant EA (EPPG04323316) conditions.</li> </ul>			
Construction and operation of proposed infrastructure	Air Quality and Noise	Air pollution and localised reduction in air quality Nuisance caused by vibration, noise and dust generation Disturbance to fauna and livestock	Infrastructure construction (earthworks activities including grading and trenching)  Vehicle and plant movements  Fire (ignition sources resulting from activities)  Minor air emissions generated from vehicles and equipment	III	С	Low	Refer to general control strategies listed under the Land Resources EV.     Refer to general control strategies listed under the Land Resources EV.     Fit for purpose equipment.     Conduct regular testing, inspections and maintenance of site equipment.  Air Quality and Noise     Air and noise emissions will be managed in accordance with controls outlined in Section 6.4, including the following processes:     Identification of sensitive receptors during planning, and:	II	С	Low

## 7.0 Legislative Considerations

#### 7.1 Environmental Protection Act 1994 (EP Act)

# 7.1.1 General Requirements for an EA Amendment Application (s226 and s226A EP Act)

Section 226 and 226A of the EP Act specifies the requirements for an EA amendment application. Table 14 contains a summarised checklist of the EP Act general requirements against this proposed amendment application.

Table 14: General Requirements EA Amendment Application (s226 and s226A EP Act)

Section of the EP Act	Relevance to amendment application
s226(1)(a) be made to the administering authority	The EA amendment application has been lodged with DES who is the administering authority for the EP Act.
s226(1)(b) be made in the approved form	Refer to Attachment 1 of the application package, which includes the <i>Application to amend an environmental authority.</i>
s226(1)(c) be accompanied by the fee prescribed under a regulation	The application fee was paid upon lodgement of this application.
s226(1)(d) describe the proposed amendment	Refer to Section 2.2.
s226(1)(e) describe the land that will be affected by the proposed amendment	Refer to Sections 4.0 and 5.0.
s226(1)(f) include any other document relating to the application prescribed under a regulation.	Refer to the information provided throughout this supporting report.
s226A(1)(a) describe any development permits in effect under the Planning Act for the carrying out of the relevant activity for the authority; and	Not applicable - No development permits are in effect under the <i>Planning Act 2016</i> for the activities, which are the subject of this amendment application.
s226A(1)(b) state whether each relevant activity will, if the amendment is made, comply with any eligibility criteria for the activity	Not applicable – There are currently no eligibility criteria relevant to the activities proposed by the amendment application.
s226A(1)(c) if the application states that each relevant activity will, if the amendment is made, comply with any eligibility criteria for the activity— include a declaration that the statement is correct	Not applicable – There are currently no eligibility criteria relevant to the activities proposed by the amendment application.
s226A(1)(d) state whether the application seeks to change a condition identified in the authority as a standard condition	Not applicable - The respective EA does not contain any standard conditions.
s226A(1)(e) if the application relates to a new relevant resource tenure for the authority that is an exploration permit or GHG permit—state whether the applicant seeks an amended environmental authority that is subject to the	Not applicable - The application does not relate to a new relevant resource tenure that is an exploration permit or GHG permit



Section of the EP Act	Relevance to amendment application
standard conditions for the relevant activity or authority, to the extent it relates to the permit	
s226A(1)(f) include an assessment of the likely impact of the proposed amendment on the environmental values, including—	
s226(A)(1)(f)(i) a description of the environmental values likely to be affected by the proposed amendment;	Refer to Section 5.0
s226A(1)(f)(ii) details of any emissions or releases likely to be generated by the proposed amendment;	Refer to Section 6.0
s226A(1)(f)(iii) a description of the risk and likely magnitude of impacts on the environmental values;	Refer to Section 6.0
s266(A)(1)(f)(iv) details of the management practices proposed to be implemented to prevent or minimise adverse impacts;	Petroleum activities will be conducted in accordance with existing conditions of EA EPPG04323316 and the mitigation measures outlined in Section 6.0 and Table 13.
s226A(1)(f)(v) if a PRCP schedule does not apply for each relevant activity - details of how the land the subject of the application will be rehabilitated after each relevant activity ends;	The land subject to the proposed disturbances will be rehabilitated in accordance with the existing rehabilitation requirements of the EA EPPG04323316, namely Schedule I - Rehabilitation.
s226A(1)(g) include a description of the proposed measures for minimising and managing waste generated by any amendments to the relevant activity;	The activities and impacts associated with the proposed amendment are not new and are consistent with the activities and impacts already authorised under the EA. Waste generated will be managed in accordance with existing requirements of EA EPPG04323316, Schedule E - Waste.
s226A(1)(h) include details of any site management plan or environmental protection order that relates to the land the subject of the application;	Not applicable – There is no relevant site management plan or current Environmental Protection Orders relating to land located within the project area.

#### 7.1.2 CSG Activities Requirements for EA Amendment Applications (s227 EP Act)

Section 227 of the EP Act specifies requirements for an amendment application for CSG activities as follows:

#### Section 227 Requirements for amendment applications—CSG activities

- (1) This section applies for an amendment application if—
  - (a) the application relates to an EA for a CSG activity; and
  - (b) the proposed amendment would result in changes to the management of CSG water; and
  - (c) the CSG activity is an ineligible ERA.
- (2) The application must also-
  - (a) state the matters mentioned in section 126(1); and
  - (b) comply with section 126(2).



The EA amendment application relates to PPLs. Produced water will not be generated as a result of the proposed amendment. Further, whilst the EA amendment application relates to a CSG activity, the amendment application will not result in changes to the management of CSG water as already authorised by EA EPPG04323316.

#### 7.1.3 Underground Water Rights - EA Amendment Applications (s227AA EP Act)

Section 227AA of the EP Act specifies the requirements for an amendment application where the application involves changes to the exercise of underground water rights for a petroleum lease.

As described in Section 2.2, the proposed EA amendment application does not involve changes to the exercise of underground water rights.

#### 7.1.4 Assessment Level Decision for Amendment Application (s228 EP Act)

This amendment application is considered to be a major amendment as defined by s223 of the EP Act. Refer to Table 15 for further information for the determination of this application being a major amendment.

Within 10 business days after receiving an EA amendment application, the administering authority must decide on the assessment level decision for the EA amendment application.

The assessment level decision will determine whether the EA amendment application is a major or minor amendment. Section 223 of the EP Act provides the minor amendment (threshold) assessment.

**Table 15: Minor Amendment (Threshold) Assessment** 

envi	or amendment (threshold), for an ronmental authority, means an amendment the administering authority is satisfied -	Relevance to amendment application	
<i>(i)</i>	is not a change to a condition identified in the authority as a standard condition, other than	✓	EA EPPG04323316 does not identify any standard conditions.
	(i) a change that is a condition conversion; or	✓	
	(ii) a change that is not a condition conversion but that replaces a standard condition of the authority with a standard condition for the environmentally relevant activity to which the authority relates; and	•	
(ii)	Does not significantly increase the level of environmental harm caused by the relevant activity; and	X	The proposed amendment seeks to authorise additional disturbance to ESA by more than 10% of the existing authorisations as prescribed in Schedule A Tables 1, 2 and 3 of EA EPPG0432216.
(iii)	Does not change any rehabilitation objectives stated in the authority in a way likely to result in significantly different impacts on environmental values than the impacts previously permitted under the authority; and	•	The amendment does not seek to change any rehabilitation objectives or conditions.
(iv)	Does not significantly increase the scale or intensity of the relevant activity; and	区	As detailed in Sections 2.1 and 2.2, this amendment application seeks to amend EA EPPG04323316 'Schedule A, Table 1 – Scale and Intensity for the Activities' to construct and operate the following proposed infrastructure / activities:

Minor amendment (threshold), for an environmental authority, means an amendment that the administering authority is satisfied -	Relevance to amendment application
	produced water dam (14 ha) (PPL 2021);
	<ul> <li>water pipeline (co-located with OHL and FOC) (12 km / ~51 ha) (PPL 2021);</li> </ul>
	<ul> <li>high voltage power substation (3.75 ha) (PPL 2021); and</li> </ul>
	<ul> <li>produced water tank (5 ha) and water pipeline extension (400 m / ~1 ha) (PPL 2061).</li> </ul>
	<ul> <li>Further, this application seeks the following administrative amendments:</li> </ul>
	<ul> <li>update the disturbance area listed for Angry Jungle dam (3.96ha to 6 ha);</li> </ul>
	The abovementioned activities represent up to approximately 72 ha of additional disturbance to the existing disturbance area authorised by the EA (currently 176.2 ha). The proposed disturbances represent an approximate 41% increase in scale and intensity for relevant activities.
	Please note, large components of the proposed disturbance areas have been located in pre-disturbed areas or non-remnant vegetation to minimise new disturbance wherever practicable.
<ul> <li>(v) Does not relate to a new relevant resource tenure for the authority that is –</li> <li>(iii) a new mining lease; or</li> <li>(iv) a new petroleum lease; or</li> <li>(v) a new geothermal lease under the Geothermal Energy Act; or</li> <li>(vi) a new GHG injection and storage lease under the GHG storage Act; and</li> </ul>	✓ The proposed amendment does not relate to a new relevant resource tenure which is a new mining lease, petroleum lease, geothermal lease or GHG injection and storage lease.
(vi) Involves an addition to the surface area for the relevant activity of no more than 10% of the existing area; and	As detailed in Sections 2.1 and 2.2, this amendment application seeks to amend EA EPPG04323316 'Schedule A, Table 1 – Scale and Intensity for the Activities' to construct and operate the following proposed infrastructure / activities:
	<ul> <li>produced water dam (14 ha) (PPL 2021);</li> </ul>
	<ul> <li>water pipeline (co-located with OHL and FOC) (12 km / ~51 ha) (PPL 2021);</li> </ul>
	<ul> <li>high voltage power substation (3.75 ha) (PPL 2021); and</li> </ul>
	<ul> <li>produced water tank (5 ha) and water pipeline extension (400 m / ~1 ha) (PPL 2061).</li> </ul>

Minor amendment (threshold), for an environmental authority, means an amendment that the administering authority is satisfied -	Relevano	e to amendment application
		Further, this application seeks the following administrative amendments:
		<ul> <li>update the disturbance area listed for Angry Jungle dam (3.96ha to 6 ha);</li> </ul>
		The abovementioned activities represent up to approximately 72 ha of additional disturbance to the existing disturbance area authorised by the EA (currently 176.2 ha). The proposed disturbances represent an approximate 41% increase (248.2 ha) in the scale and intensity / surface area for relevant activities.
		Please note, large components of the proposed disturbance areas have been located in pre-disturbed areas or non-remnant vegetation to minimise new disturbance wherever practicable.
<ul> <li>(vii) For an environmental authority for a petroleum activity –</li> <li>(i) if the amendment involves constructing a new pipeline – the new pipeline does not exceed 150km; and</li> </ul>	<b>*</b>	The amendment does not involve constructing a new pipeline more than 150 km in length.
(ii) if the amendment involves extending an existing pipeline – the extension does not exceed 10% of the existing length of the pipeline; and	X	The amendment does involve extending an existing pipeline by approximately 400 m, which represents an increase of approximately 33% of the existing pipeline length (1.2 km existing) (PPL 2061).
(viii) If the amendment relates to a new relevant resource tenure for the authority that is an exploration permit or GHG permit - the amendment application under section 224 seeks an amended environmental authority that is subject to the standard conditions for the relevant activity or authority to the extent it relates to the permit.	<b>✓</b>	The amendment does not relate to a new relevant resource tenure that is an exploration permit or GHG permit.

#### 7.1.5 The Standard Criteria (EP Act)

The standard criteria (as defined by Schedule 4 of the EP Act) are required to be considered by the administering authority for deciding an amendment application. Refer to Table 16 for consideration of the standard criteria.

**Table 16: Standard Criteria (EP Act)** 

Sc	hedule 4 EP Act	Relevance
a)	the following principles of environmental policy as set out in the Intergovernmental Agreement on the Environment –  (i) the precautionary principle;  (ii) intergenerational equity;  (iii) conservation of biological diversity and ecological integrity; and	The precautionary principle was considered for the application. It is considered that the proposed activities will use 'proven' technology and sufficient scientific data exists that a reverse onus does not exist.  The principle of intergenerational equity was considered for the application. It is considered that the proposed activities would not impact the use of environmental values by future generations.

Sc	hedule 4 EP Act	Relevance
		The principles of conservation of biological diversity and ecological integrity were considered for the application. The proposed application would not result in impacts to biological diversity or ecological integrity.
b)	any Commonwealth or State government plans, standards, agreements or requirements about environmental protection or ecologically sustainable development	The proposed petroleum activities will be undertaken in accordance with the applicable requirements of the following:  EP Act;  Environment Protection and Biodiversity Conservation Act 1999 (Cth);  Nature Conservation Act 1992 (Qld);  Vegetation Management Act 1999 (Qld);  Environmental Offsets Act 2014 (Qld);  Fisheries Act 1994 (Qld); and  Planning Act 2016 (Qld).
c)	any relevant environmental impact study, assessment or report	Not applicable – there is no environmental impact study relevant to this application.
d)	the character, resilience and values of the receiving environment	Refer to Section 5.0. and 6.0.
e)	all submissions made by the application and submitters	Where required by DES, Santos would consider any submissions made on the application.
f)	Best Practice Environmental Management (BPEM) for activities under any relevant instrument, or proposed instrument, as follows- (i) an environmental authority; (ii) a transitional environmental program; (iii) an environmental protection order; (iv) a disposal permit; (v) a development approval;	BPEM of the petroleum activities would be achieved through compliance with the scheduled environmental objectives and existing conditions of the EA.  Potential impacts to any environmental value will be managed in accordance with the existing conditions of EPPG04323316, as well as the Santos Management System.
g)	Financial implications of the requirements under an instrument, or proposed instrument, mentioned in paragraph (g) as they would relate to the type of activity or industry carried out, or proposed to be carried out under the instrument;	Santos will continue to provide adequate funds, equipment and staffing to comply with the conditions of the amended EA.
h)	Public Interest	Santos has operated in Queensland for over 50 years and we're proud of the economic and social benefits being delivered by the projects in the Coopers, Surat and Bowen basins. One such project is the GLNG Project, which is led by Australian company Santos, in partnership with three of the world's leading energy companies – PETRONAS from Malaysia, Total from France, and KOGAS from South Korea.
		This project is a pioneering venture which produces natural gas from Queensland's coal seams and converts it into LNG. It involves ongoing gas field development in the Surat and Bowen Basins, a 420-kilometre gas transmission pipeline and a two-train LNG plant on Curtis Island, near Gladstone which will have the capacity to

#### Schedule 4 EP Act

#### Relevance

produce 7.8 million tonnes of LNG per year when fully operational.

Santos GLNG is at the forefront of making Australia a world-leading LNG producer and will be worth billions of dollars to the Queensland and national economies over many decades. The billions to be paid in royalties will help pay for government frontline services across Queensland. It's one way the GLNG project is bringing renewed opportunities to Queensland.

Project construction began in 2011 with the first shipment of LNG in October 2015. The project has taken more than 95 million work hours to date. More than 10,000 people have worked on the project which saw more than \$15 billion invested Australia- wide, including \$8 billion in Queensland alone of which \$710 million was to the Maranoa, Toowoomba and Western Downs districts.

To ensure the delivery of commitments to the domestic and export markets Santos is in the process of optimising activities on existing tenements, along with the active expansion of new fields. This includes the Santos GLNG Project and the Gas Field Development Project which is not a new activity but an extension of the existing work being undertaken by Santos GLNG.

One area of expansion is the Roma field which covers approximately 3,000 km². Sales gas from the Roma field is transported by pipeline to Gladstone, where it is converted into LNG for export to overseas markets. The major Roma Hub compression facility can produce 145 TJ of gas per day with ongoing development and compression capacity, such as this project, to add to production rates.

Santos is committed to meaningfully contributing to the future strength and prosperity of the communities where we operate, building deep, long-lasting relationships with positive intergenerational benefits. We do this through implementing our community investment framework and by providing employment, training, education and enterprise opportunities associated with our industry.

As a socially responsible company, our investment in local communities is part of our broader commitment to minimising the impact of our project activities and supporting programs and initiatives that benefit those who live in the areas where we operate. The GLNG community handbook which is a summary of the Santos GLNG Social Impact Management Plan (SIMP) as developed to explain the possible social impacts of our activities and what we are doing about them.

Our objective is to work proactively and collaboratively with our host landholders and landowners across all areas of operation. We have a long history of strong and supportive landholder relationships in which we seek to support and enable long-term and intergenerational resilience.

We are committed to working with Traditional Owners / clans and Indigenous communities to ensure they are fully informed prior to accessing land and address any issues raised promptly and transparently. We are proud to apply best practice in the assessment, identification and protection of cultural heritage and seek to identify suitable commercial opportunities for Indigenous businesses, as well as opportunities to employ and upskill Indigenous people.

# **Santos**

Sc	hedule 4 EP Act	Relevance
	neddie 4 El Aot	Santos recognises the scientific consensus of climate change assessed by the Intergovernmental Panel on Climate Change. We support the objective of the Paris Agreement to limit global temperature rise to less than 2 degrees Celsius and pursue efforts to limit the temperature rise to 1.5 degrees Celsius.
		We believe that access to reliable and affordable energy is critical to meeting sustainable development goals and improving living standards and economic prosperity in developed and developing nations. Santos is committed to being part of the solution by supporting the twin objectives of limiting greenhouse gas emissions and providing cleaner fuels to domestic and global markets. Santos has a target of net-zero scope 1 and 2 greenhouse gas emissions by 2040. Our strategy focuses on natural gas as a reliable transition fuel source and the development of technologies such as carbon capture and storage and clean fuels, such as hydrogen, as foundations for our decarbonisation pathway.
		The application is in the public interest.
i)	Site management plan (SMP)	There are no SMPs applicable to the application.
j)	Integrated environmental management system (IEMS) or proposed IEMS	The existing Santos Management System in conjunction with Santos management plans will be implemented for the existing resource activities.
k)	Other matters prescribed under a regulation	The Environmental Protection Regulation 2019 prescribes an environmental objective assessment relating to an environmental management decision as an additional matter for the standard criteria. Sections 2.0 to 6.0 address the matters raised in the environmental objective assessment.

#### 7.2 Environmental Offsets Act 2014

As per Section 8 of the *Environmental Offsets Act 2014* (EO Act), a significant residual impact (SRI) is generally an adverse impact, whether direct or indirect, of a prescribed activity on all or part of a prescribed environmental matter (PEM) that:

- a) remains, or will or is likely to remain, (whether temporarily or permanently) despite on-site avoidance and mitigation measures for the prescribed activity; and
- b) is, or will or is likely to be, significant.

The proposed amendment would constitute a prescribed activity under s9 of the EO Act. In accordance with s207(1)(c) of the EP Act, the administering authority may impose an environmental offset condition on an EA. However, s14(2) of the EO Act states that an offset condition may only be imposed on an EA if the proposed activity will, or is likely to have a SRI on a PEM, and all reasonable on-site mitigation measures for the prescribed activity have been, or will be, undertaken.

The Queensland Environmental Offsets Policy Significant Residual Impact Guideline (SRI Guideline)(December 2014) has been developed to assist in deciding whether or not a prescribed activity will, or is likely to have a SRI on a PEM.

#### 7.2.1 Cumulative SRI Assessment

In accordance with the *Queensland Environmental Offsets Policy* (Version 1.13), where an amendment to an existing EA is proposed, the SRI assessment relates to the cumulative impacts of the entire project i.e. impacts to PEMs authorised in both the existing EA, and any additional impacts proposed in a new EA amendment application.

Section 7.2.1.2 and Table 17 provide a description of previous amendments to the Roma Backbone EA EPPG04323316. Where impacts to PEMs (as detailed in Section 7.2.1.2 and Table 17) fall outside the exclusions detailed in Section 7.2.1.1, they will be considered as part of the quantum of impacts to PEMs proposed by this EA amendment application against the SRI Guideline criteria.

An SRI assessment (inclusive of any relevant cumulative impacts where appropriate) of the proposed activities / disturbances against the SRI Guideline criteria is provided in Table 18 and Sections 7.2.2 to 7.2.4.

#### 7.2.1.1 Cumulative SRI Assessment Exclusions

#### **Duplication of Offset Conditions**

To avoid duplication of offset conditions between jurisdictions, the *Queensland Environmental Offsets Policy* (Version 1.13), provides the following:

To avoid duplication of offset conditions between jurisdictions, state and local governments can only impose an offset condition in relation to a prescribed activity if the same or substantially the same impact and the same or substantially the same matter has not been subject to assessment under one of the following Commonwealth Acts:

- the Environment Protection and Biodiversity Conservation Act 1999, to the extent the assessment relates to an activity that has been declared a 'controlled action' by the Commonwealth Minister;
- the Great Barrier Reef Marine Park 1975; or

 another Commonwealth Act prescribed by regulation – there are currently no listings.

This includes if the Commonwealth could have imposed an offset condition but did not do so. However, it does not apply if:

- the condition relates to a protected area; or
- the Commonwealth has decided that the activity itself is not a 'controlled action'. For example, an activity referred to the commonwealth that could impact on koalas (or another MNES) that receives a 'not a controlled action' or a 'not controlled action particular manner' notice, could still be subject to an offset condition imposed by state or local government.
- If the Commonwealth imposes an offset condition for a prescribed environmental matter after the state or local government has already imposed an offset condition, a proponent can apply to the lower level of government to have the duplicate offset requirement removed provided the condition is for the same or substantially the same impact and prescribed environmental matter.

Please note, all disturbances to PEMs (as detailed in Section 6.2) occurring as a result of the proposed amendment will be offset using land-based offsets in accordance with Santos's existing EPBC Act Approval 2008/4059. Refer to Section 7.2.5.1 for further information.

#### Environmental Offsets Act 2014

Where disturbances to PEMs pre-date the EO Act, they are not subject to cumulative SRI assessment.

#### Transfer of Existing Infrastructure

Where existing infrastructure has been transferred from the original EA that authorised the activity to a different EA (i.e. infrastructure is transferred between EAs from time to time for legal or commercial purposes), disturbances associated with that infrastructure are not relevant to the cumulative SRI assessment of the new EA.

Disturbances to PEMs associated with transferred infrastructure must be included in cumulative SRI assessments of the original EA that authorised the activity.

#### 7.2.1.2 Relevant EA Amendment History

The Roma Backbone EA (EPPG04323316) was granted as a site-specific EA 11<sup>th</sup> November 2016 and authorises environmentally relevant activities on PPLs 2020, 2021 and 2061.

As described in Section 2.1, the EA has been amended on several occasions. Table 17 provides a detailed summary of EA amendment history, details of impacts authorised to PEMs, and determines relevance of each amendment to the cumulative SRI assessment.

As summarised in Table 17, no impacts to PEMs authorised by past amendments of EA EPPG04323316 have been identified to be relevant to this SRI assessment. An SRI assessment of the proposed activities / disturbances against the SRI Guideline criteria is provided in Table 18 and Sections 7.2.2 to 7.2.4.

Table 17: Cumulative SRI Assessment – EA EPPG04323316 Amendment History

Amendment Type / Grant Date		Amendment Scope	Impacts to PEMs authorised?	Relevant to Cumulative SRI Assessment?
Major Amendment Granted: 29 <sup>th</sup> August 2017	a) b)	Refinement of the Roma East Gas Pipeline (PPL 2020) and Water Pipeline (PPL 2021) alignments; and Authorisation of temporary pipeline construction work areas.	Yes Significant residual impacts to PEMs were added to the EA (Condition B6 and associated Schedule B, Table 1). Disturbance areas to ESAs and PPZs were also determined and included in the EA (Schedule A, Condition A4 and Schedule A Tables 2 and 3).	Not Relevant  All disturbances to PEMs as part of this amendment were captured in the approved Federal offset plan under EPBC Act Approval 2008/4059 (CSG Fields) – that being the Santos GLNG Offset Plan and Acquittal Summary: EPBC Act Approval 2008/4059 (Stage 1).  Refer to Sections 2.2.6 and 7.2.5 for further detail on Santos' offset delivery history and mechanisms under the EPBC Act.  Federal offset plans are available at: <a href="https://www.santos.com/about-us/corporate-governance/glng/">https://www.santos.com/about-us/corporate-governance/glng/</a>
Amendment by Agreement Granted: 3 <sup>rd</sup> May 2017	a)	Category C definition change	No change in the scale or intensity of activities was requested or authorised.	Not Relevant
Minor Amendment Granted: 14 <sup>th</sup> February 2018	a) b)	Transfer of existing infrastructure (Compressor Station R-NCS-01 and Angry Jungle Dam) from RSGPAE EA (EPPG00662213) to the Backbone EA; Construction and operation of 2 HDPE pipelines (Maisey Water and Gas Pipelines); and Reduction in scale and intensity of authorised activities as detailed in Schedule A, Table 1 (PPL 2020 and PPL 2021 lengths were reduced from 45 km to 34.1 km).	No The amendment authorised Impacts to Category B ESA PPZ (which is not a PEMs) (10.08 ha) for construction/operation of the Maisey Water and Gas Pipelines. Further, no remnant vegetation was cleared as part of construction of the pipelines i.e. the disturbance area was previously cleared for agricultural land use.	Not Relevant  Transfer of existing infrastructure from the RSGPAE EA to the Backbone EA is excluded from cumulative SRI assessed as per exclusions listed in Section 7.2.1.1.
Minor Amendment Granted: 26 <sup>th</sup> March 2021	a)	Amendment to transfer existing Maisey East Water Line from PPL 2020 to PPL 2061 – and list PPL 2061 as a relevant tenure on the EA.	No No change in the scale or intensity of activities was requested or authorised.	Not Relevant

**Table 18: Significant Residual Impact Summary Table** 

Proscribed environmental					
Prescribed environmental matter as per EO Reg		Presence in the project area			
Regulated vegetation	X	The proposed activities will not trigger the SRI criteria for regulated vegetation as described in the SRI Guideline, Sections 2 and 2.1 - Table 1 (DEHP, 2014). As discussed in Section 5.5.2, a prescribed RE is an RE located in a Category B area on the 'regulated vegetation management map' to the extent the RE contains remnant vegetation.  As discussed in Section 5.2, Terrestria undertook field and desktop based ecological assessment of the project area. Terrestria did not identify any areas of remnant vegetation that were also located within a Category B area as mapped on the 'regulated vegetation management map'.  Remnant REs identified to be present in the project area are provided in Table 7 and are displayed on Figure 5. Refer to Appendix A for further information.			
Connectivity areas	X	The Landscape Fragmentation and Connectivity Tool was utilised to assess the proposed disturbances for potential impacts to Connectivity Areas. The Tool determined no SRI was triggered by the proposed activities. Refer to Section 7.2.4 for further information.			
Wetlands and watercourses	X	<ul> <li>The following wetlands or watercourses are not present within the project area:</li> <li>Wetlands in a wetland protection area as shown on the Map of referrable wetlands under schedule 12, part 2 of the <i>Environmental Protection Regulation 2008</i>;</li> <li>Wetlands of high ecological significance as shown on the Map of referrable wetlands under schedule 12, part 2 of the <i>Environmental Protection Regulation 2008</i>; or</li> <li>Wetlands or watercourses in a high ecological value waters as identified under the <i>Environmental Protection (Water) Policy 2009</i>, schedule 2.</li> </ul>			
Designated precinct in a strategic environmental area	X	The project area is not located in a designated precinct in a strategic environmental area.			
Protected wildlife habitat	<b>√</b>	<ul> <li>Based on fauna habitat / regional ecosystem associations, wildlife habitat for vulnerable or endangered species may be present within the project area (refer Sections 5.4 and 7.2.2 for further information).</li> <li>No high risk areas on the flora survey trigger map exist within the project area.</li> </ul>			
Protected areas	X	There are no protected areas within the project area.			
Highly protected zones of State marine parks	X	The project area does not contain highly protected zones of a State marine park.			
Fish habitat areas	X	Areas declared under the <i>Fisheries Act 1994</i> to be a fish habitat area are not present within the project area.			
Waterway providing for fish passage	<b>√</b>	The development may intersect watercourses providing potential fish passage. However, with implementation of appropriate management measures, no SRI is expected to occur. Refer to Section 7.2.3 for further information.			
Marine plants	X	Areas containing marine plants are not present in the project area.			
Legally secured offset areas	X	No legally secured offset areas are present within the project area.			



#### 7.2.2 Protected Wildlife Habitat

A prescribed activity is likely to have a significant impact on protected wildlife habitat if:

- For endangered and vulnerable wildlife habitat (including essential habitat), an action is likely to have a significant impact on endangered and vulnerable wildlife if the impact on the habitat is likely to:
  - lead to a long-term decrease in the size of a local population; or
  - o reduce the extent of occurrence of the species; or
  - o fragment an existing population; or
  - o result in genetically distinct populations forming as a result of habitat isolation; or
  - o result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat; or
  - o introduce disease that may cause the population to decline, or
  - o interfere with the recovery of the species; or
  - cause disruption to ecologically significant locations (breeding, feeding, nesting, migration or resting sites) of a species.
- For special least concern (non-migratory) animal wildlife habitat, an action is likely to have a significant impact on a special least concern (non-migratory) animal wildlife habitat if it is likely that it will result in:
  - o a long-term decrease in the size of a local population; or
  - a reduced extent of occurrence of the species; or
  - o fragmentation of an existing population; or
  - o result in genetically distinct populations forming as a result of habitat isolation; or
  - disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species.

As discussed in Section 5.2, Terrestria undertook ecological assessment of the project area to determine presence of suitable habitat for EPBC and NC Act listed flora and fauna (protected wildlife habitat).

Terrestria found no evidence of the presence of listed flora or fauna species during field survey of the project area, however the project area may provide suitable habitat for a range of listed species based on RE association. Listed species assessed to be potentially present, and have suitable habitat within the project area, are detailed in Table 9.

The only aspect of the proposed activities that will disturb remnant vegetation (i.e. REs, ESAs, flora and fauna habitat) is the proposed PPL 2021 water pipeline RoW as described in Section 2.2.2. Disturbance to potentially suitable habitat for listed species are detailed in Table 12, and are displayed on Figure 5. Terrestria undertook an SRI assessed of the proposed activities for each relevant listed species (refer to Table 9) against criteria set out in Section 5.1 of the SRI Guideline (2014) (as detailed above). The SRI assessment determined no SRI to protected wildlife habitat would occur due to the proposed activities. Refer to Section 4.2 in Appendix A for further information on the Terrestria SRI assessment.



#### 7.2.3 Waterway providing for fish passage

An action is likely to have a significant impact on a waterway providing for fish passage if there is a real possibility that it will:

- · result in the mortality or injury of fish; or
- result in conditions that substantially increase risks to the health, wellbeing and productivity of fish
  seeking passage such as through the depletion of fishes energy reserves, stranding, increased
  predation risks, entrapment or confined schooling behaviour in fish; or
- reduce the extent, frequency or duration of fish passage previously found at a site; or
- substantially modify, destroy or fragment areas of fish habitat (including, but not limited to in-stream vegetation, snags and woody debris, substrate, bank or riffle formations) necessary for the breeding and/or survival of fish; or
- result in a substantial and measurable change in the hydrological regime of the waterway, for example, a substantial change to the volume, depth, timing, duration and frequency of flows; or
- lead to significant changes in water quality parameters such as temperature, dissolved oxygen, pH and conductivity that provide cues for movement in local fish species.

As discussed in Section 5.6, the project area for (PPL 2021 pipeline) will cross three minor SO1 drainage features. These drainage features are highly ephemeral systems, and in the absence of any semi-permanent pools are expected to only contain fish during periods of high rainfall causing streamflow.

Further, the proposed pipeline (PPL 2021) will be buried and the construction works will preferentially occur in dry periods, avoiding potential for fish mortality or injury entirely. Rehabilitation will commence as soon as reasonably practicable following completion of construction activities, including the restoration of natural landform contours to ensure natural surface water flows are maintained. Further, construction within watercourses would occur in accordance with existing EA conditions (Schedule E).

The proposed amendment would not have an SRI on this prescribed environmental matter due to the following:

- Construction within watercourses would not occur during periods of streamflow, avoiding fish mortality or injury;
- The temporary construction of pipeline infrastructure within watercourses would not:
  - reduce the extent, frequency, or duration of fish passage;
  - o result in a substantial change to the hydrological regime of the watercourse; or
  - o lead to significant changes in water quality parameters within the watercourse.

#### 7.2.4 Connectivity

A development impact on connectivity areas is determined to be significant if either of the following tests are true:

- 1. The change in the core remnant ecosystem extent at the local scale (post impact) is greater than a threshold determined by the level of fragmentation at the regional scale; or
- 2. Any core area that is greater than or equal to 1 hectare is lost or reduced to patch fragments (core to non-core).

#### Test 1: Change in core remnant ecosystem extent at the local scale

The change threshold for the local core remnant extent is derived from the table in Section 3.2 of the SRI Guideline (2014), as reproduced in Table 19.

Table 19: Change in Core Remnant Ecosystem Extent at the Local Scale

onal scale extent of core remnant

Change threshold for local core so

Regional scale extent of core remnant ecosystem (per cent)	Change threshold for local core scale remnant ecosystem (per cent)
>90	50
70–90	30
50–70	20
30–50	10
10–30	5
< 10	2

The results of the connectivity tool for the proposed activities are as follows:

Table 20: Connectivity Tool Test 1 - Result

Regional scale extent of core remnant ecosystem (per cent)	Change threshold for local core scale remnant ecosystem (per cent)	Percentage of core remnant ecosystem extent at the local scale (change)	Test 1 result
16%	5%	0.21%	Not Significant

#### Test 2: Loss or fragmentation of core remnant ecosystem at the site scale

If the number of core areas (greater than or equal to one hectare in area) is greater pre-impact than post-impact, then the impact is a significant impact. The connectivity tool output showing the number of patches pre-disturbance and post disturbance for the proposed amendment is shown in Table 21. For the two core categories, there is no loss in the core patch count for the development, and therefore the result is **Not Significant**.

Table 21: Loss or Fragmentation of Core Remnant Ecosystem at the Site Scale

Patch Label	Pre disturbance Patch Count	Post Disturbance Patch Count
core (< 100 hectares)	40	40
core (100-500 hectares)	3	3

Please note, the data output from the connectivity assessment can be provided to DES upon request.

#### 7.2.5 Offset Delivery Mechanism

Any significant residual impacts on MNES occurring as a result of the proposed activities are required to be offset. An Offset Management Plan has been submitted to the Commonwealth in accordance with the statutory offset requirements for the GLNG Project under the *Environment Protection and Biodiversity Conservation Act 1999* (EPBC Act) Approval EPBC 2008/4059. Significant residual impacts to MNES for the proposed activities will be acquitted under the EPBC Act using land-based offsets.

Irrespective of whether land-based offsets or Financial Settlement Offset Calculation Methodology are used, a ratio of 4:1 will be used to acquit significant residual impacts to endangered REs, of concern REs and wetlands, in accordance with the Queensland Environmental Offsets Policy (version 1.10) (DES, 2021).

Section 15 of the EO Act restricts the imposition of offset conditions if the prescribed environmental matter relates to an equivalent Commonwealth condition (i.e. EPBC approval condition) or State condition (i.e. CG's Report condition) for the same, or substantially the same, prescribed environmental matter. Table 22 provides the proposed offset delivery mechanism for significant residual impacts covered by other approvals for the same matters are further discussed below.

Prescribed **Offset Delivery Details** environmental matters Protected wildlife Land-based offsets All impacts to areas of habitat for the Collared Delma, Yakka Skink, habitat in accordance with Dunmall's Snake and Eastern Long-eared Bat, listed in Table 12 EPBC Approval No. will be offset in accordance with EPBC Act approval, 2008/4059. 2008/4059 for the Santos GLNG Project.

**Table 22: Offset Delivery for Prescribed Environmental Matters** 

#### 7.2.5.1 Offset obligations under the EPBC Act

Please note, under the broader requirements of Santos' EPBC Act approval (EPBC 2008/4059), all impacts to listed species habitat associated with the GLNG Project are required to be offset i.e. all impact areas to MSES protected wildlife habitat listed in Table 9 will be offset via Santos' Commonwealth offset delivery mechanism. The approval of the GLNG Project and the requirements to provide offsets under the EPBC Act is provided in EPBC Act Approval 2008/4059. The summary of the relevant conditions are below:

- Condition 25 of the approval provides maximum disturbance limits in Table 3 and Table 4 that apply
  to authorised unavoidable adverse impacts on MNES. This includes maximum disturbance limits
  for the five species listed above.
- Condition 26 requires an offset area for the approved disturbance limits relating to MNES within the project area. Land based offsets will be provided for the following MNES as prescribed under the EPBC Act Approval 2008/4059:
  - Delma torquata (Collared Delma);
  - Egernia rugosa (Yakka Skink);
  - o Furina dunmalli (Dunmall's Snake);
  - Nyctophilus timoriensis (Eastern Long-eared Bat); and
  - Acacia harpophylla (Brigalow).



#### 7.2.5.1.1. <u>Land-based offsets</u>

Land-based offsets will be provided for on the Santos owned Bottle Tree and Kentucky Properties. Bottle Tree (Lot 7 TR39) is a 3,853 ha property located in the Brigalow Belt South Bioregion, approximately 75 km north-northeast of Injune in south central Queensland. Kentucky (Lot 1 WT37) is a 4,468 ha property located in the Brigalow Belt south Bioregion, approximately 50 km east-northeast of Injune, south central Queensland. Santos has legally secured these offset properties with the Queensland Department of Natural Resources Mines and Energy (DNRME), and these offset areas have been declared as areas of high nature conservation value under Section 19F of the *Vegetation Management Act 1999* (a voluntary declaration). Both properties that will be used to acquit disturbances associated with this EA amendment application are currently owned by Santos. As such values are already under protection.



#### 8.0 References

DEHP (2013). Guideline – Application requirements for petroleum activities'. EM705. Queensland Government, Brisbane.

DEHP (2014). Queensland Environmental Offsets Policy Significant Residual Impact Guideline. Queensland Government, Brisbane.

DES (2016). Manual for assessing consequence categories and hydraulic performance of structures. Queensland Government, Brisbane.



# 9.0 Appendices



**Appendix A: Terrestria Ecological Assessment and MSES Reports** 



# SD23 SPINE PIPELINE REVISED ECOLOGICAL CONSTRAINTS MAPPING AND SIGNIFICANT RESIDUAL IMPACT ASSESSMENT



Report prepared for Santos Pty Ltd

March 2023

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Project location: Southern Queensland

Project Author/s: Andrew Daniel

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Signed on behalf of Terrestria Pty Ltd

Dr Andrew Daniel Managing Director

Date: March 2023

# SD23 SPINE PIPELINE REVISED ECOLOGICAL CONSTRAINTS MAPPING AND SIGNIFICANT RESIDUAL IMPACT ASSESSMENT

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Appendix C: Field Survey Site Locations

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Appendix G: Field Survey Site Data: BioCondition Site Sheets

Appendix H: BioCondition data

Appendix I Threatened Wildlife Habitat Significant Residual Impact Assessment

#### **Abbreviations**

EA Environmental Authority

ESA Environmentally Sensitive Area

DES Department of Environment and Science

DNR Department of Natural Resources

RE Regional Ecosystems

VM Act Queensland's Vegetation Management Act 1999

TEC Threatened Ecological Community



#### 1.0 Introduction

#### 1.1 Background and Purpose

Terrestria Pty Ltd has prepared this report for Santos Pty Ltd with the purpose of providing an independent ecological mapping and impact assessment of the <u>revised</u> 'Spine' pipeline through the Roma gas field as part of the SD23 development (Survey area), Southern Queensland (**Figure 1.1**).

On-ground and desktop assessments of the extant native vegetation communities and associated species habitat within the Survey area was conducted between November 2020 and February 2021. These assessments were conducted in accordance with requirements set out under the Santos Methodology for Assessing Ecological Values (0007-650-PRO-0007). Ecological values that were assessed include:

- Functional regional ecosystem (Endangered and Of Concern) and Threatened Ecological Community<sup>1</sup> (TEC) verification;
- BioCondition assessments within all Assessment Units (AUs) as per DES Guide to determining terrestrial habitat quality (2020);
- MNES/MSES fauna habitat assessment plus incidental threatened fauna observations;
- Fauna habitat mapping of all threatened fauna;
- MNES/MSES flora habitat assessment, plus incidental threatened flora observations;
- Protected plant survey in high-risk trigger areas and areas where EPBC species are considered likely (e.g. Belson's Panic); and
- Incidental fauna sightings.

A change to the extent and alignment of the pipeline and associated power station and water treatment facility (Construction Disturbance Zone - CDZ) has led to a change in the extent and distribution of the impacts to native vegetation communities and threatened species habitat. The pipeline footprint is now manifestly smaller, being at least 14km shorter in length than previously proposed.

There is one small increase in the width of disturbance for linear infrastructure that occurs as the alignment transitions between Lot 139 on Plan CP892978 to Lot 76 on Plan WV165 This expansion of the alignment at this location is to meet council requirements associated with locating the proposed infrastructure across a council-controlled road. The linear infrastructure disturbance area otherwise aligns to a width of 42m.

This report provides a <u>revised</u> assessment of the impacts to extant vegetation communities, associated regional ecosystems and threatened wildlife habitat brought about by these changes.

<sup>&</sup>lt;sup>1</sup> EPBC act 1999



#### 1.2 General Survey Area Description

The SD23 Survey area for this project was previously assess in October 2021 as part of the SD22 East Survey, which covered an area of 18,263 ha that included the original alignment assessed by Terrestria<sup>2</sup>. The SD 23 Survey area extends from just east of Wallumbilla township to west of the Yuelba Taroom Road and north to Anaby Creek (**Figure 1.1**). The Survey area is dissected north-south by Yuelba Creek and in a north-westerly – south-easterly direction by Kangaroo Creek. The Survey area is dominated by cleared cattle pastures with some notable areas of native vegetation, including Yuleba State Forest in the east and the Burnside Station in the west.

The revised Construction Disturbance Zone for the SD23 pipeline is located at the western end of the Survey area (**Figure 1.1**). The SD23 Pipeline ROW starts just southeast of the Wallumbilla North Road, approximately 8.5 km northeast of Wallumbilla and runs in south-easterly direction to just north of the Warrego Highway approximately 11.5 km east of Wallumbilla (**Figure 1.1**). The associated power station and water treatment facility are located at the southern end of the pipeline alignment (**Figure 1.1**).

-

<sup>&</sup>lt;sup>2</sup> SD22 Spine Pipeline Ecological Constraints Mapping. Report prepared for Santos Pty Ltd (October 2021).



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## Legend



Construction Disurbance Zone



SD23 Boundary (Survey Area)

#### FIGURE 1.1

#### **Project Location**

SD22 Pipeline Revised Significant Residual Impact Assessment

AD 03/02/23 Job No. 0303



Aerial imagery courtesy of Bing Maps



#### 2.0 Methodology

The desktop and field assessments that produced the field verified project scale regional ecosystem and threatened wildlife habitat mapping for this project was conducted for the original SD22 East surveys undertaken by Terrestria in in October 2021<sup>3</sup>. It is this assessment that has provided the baseline data for the impact assessment for the revised Construction Disturbance Zone.

State 1:10,000 regional ecosystem mapping, recent colour aerial imagery and detailed surface geological mapping have been used to build up a picture of the potential values present within the SD23 Survey area. Field assessment has identified the existence of these values on-ground allowing for the production of a field-scale regional ecosystem map for the Survey Area.

Field and desktop assessments were carried out in accordance with the following Santos documents:

- Methodology for Assessing Ecological Values (0007-650-PRO-0007)
- Santo's Procedure for Conducting Vegetation Assessments, Document Number: 0007-650-PRO-0008,
- Procedure for Conducting Preliminary Ecological Desktop Assessments (0007-650-PRO-0009)
- Procedure for Conducting Wetland Assessments (3301-GLNG-4-1.3-0016)
- Guideline for Conducting Vegetation Community Assessments: A Guide to Using the 'Procedure for Vegetation Community Assessments' (0007-650-GDE-0002).

Field validated regional ecosystem mapping and associated field wildlife habitat assessments provided the basis for the production of spatially explicit threatened wildlife habitat maps. The extent and distribution of impacts to these mapped threatened wildlife habitats has been determined by superimposing the CDZ over the threatened wildlife habitat mapping in a GIS. The resultant areas of clearing have been used, along with expert knowledge of wildlife ecology, to assess whether proposed actions will have a significant impact on any wildlife that are matters of national or State environmental significance.

#### 2.1 Desktop Review

Prior to the field investigation, all available spatially explicit data and imagery was interrogated within a GIS to build up a picture of the native vegetation community types, distribution and condition across the Survey area. This exercise was used to inform a targeted field program that accessed all vegetation types and range of conditions and targeted areas of higher uncertainty.

#### 2.1.1 Native Vegetation Community Base Mapping

A base map of the likely vegetation communities and associated regional ecosystems was developed within ArcMap. The following State government mapping was downloaded and imported into the GIS platform to provide a basis for polygon attribution.

<sup>&</sup>lt;sup>3</sup> SD22 Spine Pipeline Ecological Constraints Mapping. Report prepared for Santos Pty Ltd (October 2021).



- Detailed Surface Geology 1:250,000 (DNR 2015) (Figure 3.1);
- DES's VM Act Regional Ecosystem and Remnant Mapping-Version 12 (Figure 3.2); and
- High Value Regrowth Mapping.

The 1:100,000 State regional ecosystem mapping was refined to the site-scale by producing linework delineation of previously mapped vegetation and areas of previously unmapped native vegetation at 1: 6,000. Regional ecosystem type was assigned to each polygon using expert interpretation of underlying geology, landform, aerial imagery and previous mapping.

#### 2.1.2 Threatened Wildlife Habitat Modelling

The results of database searches (**Appendices A** and **B**) and species identified in Boobook (2021) were used to develop a list of target threatened wildlife species, listed under the EPBC Act and/or NC Act. Information gained from this phase of the study has been used to:

- Identify communities and species of significance known from the locality;
- Determine which species of significance are most likely to occur if suitable habitat is located within the Survey area. Those species that are known from nearby records and State mapping are considered more likely to occur if suitable habitat is located; and
- Identify significant areas and planning constraints associated with statutory mapping within the Survey area.

This work was used to focus survey efforts and develop field work programs.

#### 2.2 Field Assessments

Ecological surveys using the methods detailed above, were undertaken between November 2020 and February 2021. The locations of field survey sites are given in **Appendix C** and field data sheets are presented in **Appendices D**, **E** and **F**.

#### 2.2.1 Nomenclature and Taxonomy

Scientific names of flora cited in this report follow Bostock and Holland (2018). Common names for plants are used where helpful and are cited before the scientific name where they are used. Fauna nomenclature follows the International Ornithological Committee checklist (for birds) and DEHP's WildNet database taxonomy (for all other fauna), unless otherwise noted. Some notable references include Churchill (2008), Debus (2012), Van dyck et al., (2013), Cogger (2000), Crome and Shields (1992), Marchant and Higgins (1993), Menkhorst and Knight (2004), Pizzey and Knight (2012), Wilson (2015).

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#### 2.2.2 Vegetation Community Mapping

Field tablets loaded with base maps were used to inform on-ground assessment of vegetation type and structural maturity. Methods used to undertake this work followed:

- Neldner, V.J., Wilson, B.A., Dillewaard, H.A., Ryan, T.S., Butler, D.W., McDonald, W.J.F, Richter, D., Addicott, E.P. and Appelman, C.N. (2022) Methodology for survey and mapping of regional ecosystems and vegetation communities in Queensland. Version 6.0. Updated April 2022.
   Queensland Herbarium, Queensland Department of Environment and Science, Brisbane
- Santo's Procedure for Conducting Vegetation Assessments, Document Number: 0007-650-PRO-0008,
- Guideline for Conducting Vegetation Community Assessments: A Guide to Using the 'Procedure for Vegetation Community Assessments' (0007-650-GDE-0002).

Sufficient data was gathered across the Survey area to inform the production of a Project scale vegetation community map and associated regional ecosystem mapping.

#### 2.2.3 Vegetation Condition Assessment

BioCondition sites were established in all major vegetation assessment units (AUs) using the BioCondition classes and scores derived from the BioCondition – A Terrestrial Vegetation Condition Assessment Tool for Biodiversity in Qld (Eyre et al. 2006). In accordance with the bio-condition methodology the following site-based condition attributes were assessed:

- Presence of large trees;
- Tree canopy height;
- Recruitment of canopy species;
- Tree canopy cover (%);
- Shrub layer cover (%);
- Coarse woody debris;
- Native plant species richness for four life forms;
- Non-native plant cover;
- Native perennial grass cover (%); and
- Litter cover.

Section 1.4.2.1 Box 1.3 of the *Guide to Determining Terrestrial Habitat Quality* (DES 2020) allows for the reduction in the number of assessment units required "if it can be demonstrated that an assessment unit contains multiple discrete polygons that are uniform or in the same general condition".

To demonstrate that multiple discrete polygons of the same mapped assessment unit are in the same general condition, sufficient field data was taken during vegetation community mapping across the survey area to show uniformity and consistency in vegetation condition<sup>4</sup>. This data demonstrates that

<sup>&</sup>lt;sup>4</sup> Terrestrial Habitat Quality Guidelines (2020), Box 1.3, page 15.



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mapped vegetation types can be classified into 2 categories of relatively uniform condition for offsetting purposes. These categories will be:

- Remnant RE, and
- Functional Regrowth RE;

All mapped vegetation polygons have been classified into one of these condition groups and metrics of condition have been estimated for each polygon with attendant photographs.

#### 2.2.4 Wildlife Habitat Quality Assessment

An assessment of the presence and abundance of micro-habitat features necessary to support threatened wildlife known to occur within the locality was undertaken at all regional ecosystem Code sites. This information was used to assist in assigning habitat quality to impacted polygons within the CDZ. Habitat quality, quantity and configuration within the CDZ was used to inform the likelihood of significant residual impacts brought about through construction.

#### 2.3 Post-Survey Assessments

#### 2.3.1 Vegetation Community Mapping

Site-scale vegetation community mapping was produced using field data, aerial photography interpretation and refined (1:6000) linework within a GIS platform. This mapping was used to calculate the areas of remnant regional ecosystems and regrowth (vegetation community types) present within the SD23 Spine Pipeline Survey area.

#### 2.3.2 Threatened Wildlife Habitat Mapping

Threatened<sup>5</sup> wildlife habitat was modelled using the mapping rules for fauna species within Boobook (2021). Habitat types were assigned to field vegetation community mapping to identify areas of habitat that may support threatened species.

Areas of non-remnant vegetation that were determined to be functional regrowth or meet the criteria of a TEC were also considered to provide functional habitat for threatened species. Areas of mapped non-functional regrowth that do not meet requirements as a TEC or "functional regional ecosystem<sup>6</sup>" do not possess the micro-habitat components that provide habitat for threatened species and are considered to be generally unsuitable. This non-functional young regrowth vegetation has been mapped to provide information on potential offset areas and areas to avoid unnecessary disturbance if possible.

After habitat suitability was assigned to all mapped vegetation polygons, for all threatened fauna species, the areas of each habitat type present were calculated and exported from the GIS.

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<sup>&</sup>lt;sup>5</sup> EPBC (1999) and NCA (1992)

<sup>&</sup>lt;sup>6</sup> Guideline for Conducting Vegetation Assessment: A guide to using the 'procedure for Conducting Vegetation Assessments', doc no.: 0007-650-GDE-0002



#### 3.0 Results

#### 3.1 **Desktop Assessment**

The results of this report are based on a combination of desktop and site investigations as detailed in Section 2.0, above. Desktop surveys were used to highlight the potential ecological values that may be present within the Survey area. This work included the integration of current high-quality aerial photography, State regional ecosystem mapping, watercourse, essential habitat and preclearance regional ecosystem mapping to gain an understanding of the likely distribution of vegetation communities and associated regional ecosystems across the Survey area. These spatially explicit data were loaded onto tablets and hand-held GPS to inform field surveys. Field surveys attempted to sample as much of the Survey area as possible with priority given to areas of threatened vegetation and habitat for threatened species.

#### 3.1.1 Geology

The Detailed surface geology – Queensland (2015) spatial database mapping layer (Figure 3.1) identifies the study area as being dominated by fine grained sandstones (land zone 9) overlain by expanses of deep sand sheets of indeterminate origin or deeply weathered in-situ (Doncaster member (w)(LZ5) in the south and west. The underlying cretaceous geology of fine-grained sandstone have weathered to give rise to valley bottoms that support deep sandy clays (land zone 9) (Tables 3.1), whilst the overlying deeply weathered material presents as large relatively deep sandy plains. Yuleba and Kangaroo Creeks in the east and Blyth Creek in the west provide flat flood plains that support mosaic of clays and sands classified as Land zone 3.

The CDZ traverses areas of Minmi and Doncaster member fine grained cretaceous sandstones that give rise to landscape of low rolling clay plains (Land Zone 9). One short section crosses an area where the Doncaster member sandstones have experienced deep weathering (Qs-SQ>Doncaster Member) giving rise to deep sandy clay plains (Land Zone 5).

#### 3.1.2 **Regional Ecosystem Distribution**

The distribution of remnant (VM Act) regional ecosystems as mapped by the Queensland Herbarium (V11) at a scale of 1:100,000 is shown in Figure 3.2. Descriptions from the Regional Ecosystem Description Database (REDD) (version 11) for these regional ecosystems are presented in Table 3.2.

The Herbarium 1:100,000 regional ecosystem maps the remnant vegetation within the CDZ as a mosaic of eucalypt dominated woodlands on sand soils (RE 11.5.1) and woodlands on lateritic surfaces (RE 11.7.2). These remnant patches occur within a matrix dominated by cleared grazing and cropping lands.

The CDZ traverses through two patches of State mapped remnant regional ecosystem. One 1.1 ha patch of RE 11.7.2 and one heterogeneous polygon consisting of 2.17 ha of RE 11.7.2 and 0.54 ha of 11.5.1 (Figure 3.2).

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Table 3.1: Major Geology Units Mapped from the Survey Area (source: Detailed surface geology – Queensland, 2018)

Map Symbol/Name	Age	Lithology Description	Land Zone
Bungil Formation	Cretaceous	Glauconitic, labile to quartzose, siltstone, mudstone	9
Doncaster Member Kud(w)	Cretaceous	Carbonaceous mudstone, siltstone, minor siltstone; some glauconitic and calcareous; shelly fossils	9
Doncaster member (w)	Cretaceous	Deeply weathered carbonaceous mudstone, siltstone, minor siltstone; some glauconitic and calcareous; shelly fossils	5
Kingull Member Kyk	Cretaceous	Clayey sandstone and carbonaceous mudstone	9
Minmi Member Kyi	Cretaceous	Glauconitic lithic to quartzose sandstone, siltstone and mudstone, locally bioturbated with shelly fossils	9
Mooga Sandstone	Jurassic	Sandstone, siltstone, mudstone	9
Nullawurt Sands	Cretaceous	Quartzose to labile sandstone, siltstone and mudstone	9
JKb Mooga Sandstone	Jurassic	Sandstone, siltstone, mudstone	9
Kyn Nullawurt Sandstone Member	Cretaceous	Quartzose to labile sandstone, siltstone and mudstone	9
Qa-QLD	Quaternary	Clay, silt, sand and gravel; flood-plain alluvium	3
Qs-SQ>Doncaster Member	Quaternary	Sand, red sandy soil, silt and some gravel; floodout and sheet sand with some alluvium	5
Ts-QLD	Tertiary	Clayey sublabile to quartzose sandstone, sandy claystone, laminated siltstone, and local conglomerate	5

#### 3.1.3 Threatened Ecological Communities

There are five Threatened Ecological Communities (TEC) predicted to occur within the Survey area:

- Brigalow (Acacia harpophylla dominant and codominant)
- Coolibah Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions
- Poplar Box Grassy Woodland on Alluvial Plains
- Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions
- Weeping Myall Woodlands.

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## 3.1.4 Potential Threatened Wildlife

A Protected Matters Report for the pipeline area presents the threatened Wildlife<sup>7</sup> modelled to occur within the local area (Appendix A). A WildNet database search that encompasses the entire pipeline area presents threatened wildlife species<sup>8</sup> recorded within the local area (Appendix B). Threatened fauna species that could possibly occur within the Survey area are those listed for the Roma gas fields in Boobook (2021).

Table 3.2: State Mapped Regional Ecosystems within the Construction Disturbance Zone

RE	Biodiversity status	Description	Area mapped within the CDZ (ha)
11.5.1	NCP	Eucalyptus crebra and/or E. populnea, Callitris glaucophylla, Angophora leiocarpa, Allocasuarina luehmannii woodland on Cainozoic sand plains and/or remnant surfaces	0.54
11.7.2	NCP	Acacia spp. woodland on Cainozoic lateritic duricrust. Scarp retreat zone	3.28
Non-rem		Mainly grazing land and associated activities	35.76

NCP = no concern at present, OC = Of concern, E = Endangered

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<sup>&</sup>lt;sup>7</sup> For those species listed as threatened under the EPBC act 1999

<sup>&</sup>lt;sup>8</sup> For those species listed as threatened under the Nature Conservation Act, 1992 and Environment Protection and Biodiversity conservation Act 1999



## **Field Results** 3.2

Field results are based on surveys carried out between November 2020 and February 2021 by Terrestria field crews.

## 3.2.1 **Field Mapped Regional Ecosystems**

The remnant regional ecosystems within Spine Pipeline Survey area (relevant to the CDZ) are dominated by the presence of lancewood (Acacia shirylei) open forests on laterised surfaces (RE 11.7.2) and narrow bands of Poplar box (Eucalyptus populnea) woodlands on sandy clay plains (RE 11.9.7).

Large areas of regrowth of varying condition in the south of the Construction Disturbance Area are characterised as Narrow-leaved ironbark Eucalyptus crebra and Poplar box Eucalyptus populnea dominated woodlands on soils derived from deeply weathered material (RE 11.5.1). The north of the CDZ is characterised by the presence of large areas of regrowth Poplar box (Eucalyptus populnea) and Brigalow (Acacia harpophylla) dominated woodlands on sandy clay soils (RE 11.9.10) (Figure 3.3).

## 3.2.2 **Functional and Non-functional Regrowth**

Areas of regrowth were mapped regardless of functional status. Those areas that processed sufficient habitat attributes to be regarded as functional according to Santos' method (Boobook 2021) were noted whilst other areas of younger regrowth or in poorer condition were mapped as non-functional. These non-functional regrowth patches do not represent an ESA or TEC as they contain very little in the way of habitat factors for threatened species and are very unlikely to support these threatened species. They have been mapped to identify them for future offset areas and to provide information to project managers looking at native vegetation on aerial photographs that would otherwise have no supporting information.

### 3.2.3 **Threatened Ecological Communities**

Only remnant vegetation that meets the definition of "Brigalow (Acacia harpophylla dominant and codominant)" was mapped as the TEC 'Brigalow (Acacia harpophylla dominant and codominant)'.

### 3.2.4 Threatened Flora Species Survey

No evidence of the Threatened<sup>9</sup> flora or fauna species were observed within the Survey area.

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<sup>&</sup>lt;sup>9</sup> Listed under the Nature Conservation Act (1992) or the Environment Protection and Biodiversity Conservation Act (1999)



Table 3.3: Field Mapped Regional Ecosystems within the Construction Disturbance Zone

RE	Biodiversity status	Description	Area mapped within the CDZ (ha)
11.5.1	NCP	Eucalyptus crebra and/or E. populnea, Callitris glaucophylla, Angophora leiocarpa, Allocasuarina luehmannii woodland on Cainozoic sand plains and/or remnant surfaces	0.55
11.5.1 regrowth		EDL does not meet height and cover requirement for remnant status	7.66
11.7.2	NCP	Acacia spp. woodland on Cainozoic lateritic duricrust. Scarp retreat zone	0.34
11.7.2 regrowth		EDL does not meet height and cover requirement for remnant status	0.23
11.9.10	E	Eucalyptus populnea open forest with a secondary tree layer of Acacia harpophylla and sometimes Casuarina cristata on finegrained sedimentary rocks	1.17
11.9.10 regrowth	E	EDL does not meet height and cover requirement for remnant status	3.60
11.9.7	ОС	Eucalyptus populnea, Eremophila mitchellii shrubby woodland on fine-grained sedimentary rocks	1.05
11.9.7 regrowth		EDL does not meet height and cover requirement for remnant status	1.65
Non-rem		Mostly cleared grazing land and associated activities	25.47

NCP = no concern at present, OC = Of concern, E = Endangered, EDL = ecological dominant layer

## 3.2.5 **Threatened Fauna Habitat Mapping**

Threatened fauna habitat within the Survey Area was mapped using the mapping rules provided for Roma gas fields in Boobook (2021). Regional ecosystems assessed as providing habitat for threatened fauna are given in **Table 3.4**. Those habitats that occur within the CDZ are highlighted in bold.

Mapped remnant vegetation and functional ecologically sensitive areas were considered to possess sufficient microhabitat features to provide habitat for these species. In addition, non-functional TECs were assessed on a patch by patch basis using field data and aerial photograph interpretation.

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Table 3.4: Habitat Types for Threatened Fauna Species within the Survey Area

Common Name	Label	Habitat
South-eastern Long-eared bat Nyctophilus corbeni	Nyct_corb	11.3.1, 11.3.2, 11.3.25, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Greater Glider Petauroides volans	Peta_vola	11.3.2, 11.3.25, <b>11.5.1</b> , 11.5.5, <b>11.9.7</b> , <b>11.9.10</b>
Koala Phascolarctos cinereus	Phas_cine	11.3.2, 11.3.25, <b>11.5.1</b> , 11.5.5, <b>11.9.7</b> , <b>11.9.10</b>
Glossy Black-Cockatoo Calyptorhynchus lathami	Caly_lath	11.3.1, 11.3.2, 11.3.25, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Painted Honeyeater Grantiella picta	Gran_pict	11.3.1, 11.3.2, 11.3.25, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
White-throated Needletail Hirundapus caudacutus	Hiru_caud	11.3.1, 11.3.2, 11.3.25, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.7.7, 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Common Death Adder Acanthophis antarcticus	Acan_anta	11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Woma Aspidites ramsayi	Aspi_rams	11.3.1, 11.3.2, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Collared Delma Delma torquata	Delm_torq	11.3.2, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , <b>11.9.7</b> , <b>11.9.10</b>
Yakka Skink Egernia rugosa	Eger_rugo	11.3.2, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Dunmall's Snake Furina dunmalli	Furi_dunm	11.3.1, 11.3.2, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Golden-tailed Gecko Strophurus taenicauda	Stro_taen	11.3.1, 11.3.2, <b>11.5.1</b> , 11.5.5, <b>11.7.2</b> , 11.9.5, <b>11.9.7</b> , <b>11.9.10</b>
Dulacca Woodland Snail Adclarkia dulacca	Adcl_dula	<b>11.7.2</b> , 11.7.7, 11.9.5
Pale Imperial Hairstreak butterfly  Jalmenus eubulus	Jalm_eubu	11.3.1, 11.9.5, <b>11.9.10</b>

Habitat types that occur within the CDZ is highlighted in bold.

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## 3.2.6 BioCondition Assessment

BioCondition assessments were made on all remnant and regrowth regional ecosystems that occur within the SD23 east development and SD23 Spine Pipeline Survey area. A total of 42 BioCondition sites were undertaken across the broader SD23/SD23 Survey area. The locations of BioCondition sites are given in **Appendix C**. Field Assessment Sheets are presented in **Appendix G** and Field and landscape metric data are presented within **Appendix H**. The site scores are given in **Table 3.5**. These site scores are relevant to the SD23 revised pipeline and associated infrastructure. No BioCondition scores are given for REs 11.3.2b and RE 11.5.5 as there are currently no published benchmark data for these regional ecosystems.

Table 3.5: BioCondition Scores for the SD23 East Survey Area

		_							_	vey A				_			_	_
siteid	re	growth_status	tot_num_large_trees_ha	canopy_height	recruitment_canopy_sp_	canopy_cover	shrub_canopy_cover	woody debris_length_ha	native_sp_richness_	non-native_cover	native_per_grass	litter_grd_cov_	patch_size_ha_	context	connectivity	site_score	landscape_score	BIOCONDITION_SCORE
914	11.5.1	remnant	15	4	5	5	5	3	10	10	5	5	10	5	0	0.84	0.75	0.82
916	11.5.5	remnant	NS	NS	5	NS	NS	NS	NS	10	NS	NS	10	5	4	NS	0.95	NS
918	11.7.2	remnant	0	1.5	5	2.5	0	5	10	10	0	3	5	4	5	0.46	0.70	0.51
920	11.9.10	regrowth	10	3	3	2.5	3	5	12.5	10	1	5	5	4	0	0.69	0.45	0.64
922	11.9.10	regrowth	5	4	5	2.5	0	2	10	10	5	5	5	4	2	0.61	0.55	0.60
924	11.9.5	regrowth	0	1.5	5	2.5	0	0	12.5	10	0	3	2	0	0	0.43	0.10	0.37
940	11.9.10	remnant	15	3	3	5	0	3	10	10	0	5	10	5	5	0.68	1.00	0.74

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siteid	ге	growth_status	tot_num_large_trees_ha	canopy_height	recruitment_canopy_sp_	canopy_cover	shrub_canopy_cover	woody debris_length_ha	native_sp_richness_	non-native_cover	native_per_grass	litter_grd_cov_	patch_size_ha_	context	connectivity	site_score	landscape_score	BIOCONDITION_SCORE
984	11.3.2	regrowth	5	3	5	5	0	0	7.5	10	5	5	5	4	4	0.57	0.65	0.59
989	11.3.25	remnant	10	5	0	3	5	0	7.5	0	0	3	5	4	4	0.42	0.65	0.47
1007	11.7.2	remnant	0	3	5	5	3	2	10	10	1	3	5	5	5	0.53	0.75	0.57
1171	11.5.1	regrowth	0	5	3	5	0	3	7.5	10	1	5	5	4	0	0.49	0.45	0.49
1229	11.3.25	regrowth	0	3	5	5	0	5	12.5	0	5	3	0	0	0	0.48	0.00	0.39
1232	11.5.1	regrowth	0	1.5	5	2.5	0	3	10	0	3	5	2	2	0	0.38	0.20	0.34
1247	11.3.25	regrowth	0	3	5	3	0	5	10	0	5	5	2	2	0	0.45	0.20	0.40
1249	11.5.5	regrowth	NS	NS	5	NS	NS	NS	NS	5	NS	NS	2	2	0	NS	0.20	NS
1255	11.5.5	Regrowth	NS	NS	5	NS	NS	NS	NS	10	NS	NS	2	2	2	NS	0.30	NS
1278	11.3.2	remnant	0	5	3	2	5	5	15	5	3	5	2	2	4	0.60	0.40	0.56



siteid	ге	growth_status	tot_num_large_trees_ha	canopy_height	recruitment_canopy_sp_	canopy_cover	shrub_canopy_cover	woody debris_length_ha	native_sp_richness_	non-native_cover	native_per_grass	litter_grd_cov_	patch_size_ha_	context	connectivity	site_score	landscape_score	BIOCONDITION_SCORE
1330	11.9.10	remnant	10	5	5	2	3	3	5	10	0	5	5	2	0	0.60	0.35	0.55
1332	11.5.5	regrowth	NS	NS	5	NS	NS	NS	NS	10	NS	NS	10	5	5	NS	1.00	NS
1334	11.9.10	regrowth	0	1.5	5	3.5	0	3	12.5	10	1	5	2	2	5	0.52	0.45	0.51
1336	11.3.2	remnant	0	5	5	5	0	3	15	10	1	3	10	5	2	0.59	0.85	0.64
1338	11.9.10	regrowth	0	0	5	4	0	3	10	10	0	5	10	5	5	0.46	1.00	0.57
1340	11.7.6	Regrowth	0	4	0	3.5	0	3	15	10	5	5	5	2	0	0.57	0.35	0.53
1342	11.7.6	Regrowth	0	1.5	5	2.5	0	5	12.5	10	5	3	5	2	0	0.56	0.35	0.52
1344	11.7.2	remnant	0	4	3	4	0	2	15	10	5	5	5	4	5	0.60	0.70	0.62
1348	11.7.6	Remnant	0	4	5	4	0	5	12.5	10	5	5	5	2	0	0.63	0.35	0.58
1350	11.7.6	Remnant	5	4	3	2.5	5	3	12.5	10	5	5	2	0	0	0.69	0.10	0.57



siteid	ге	growth_status	tot_num_large_trees_ha	canopy_height	recruitment_canopy_sp_	canopy_cover	shrub_canopy_cover	woody debris_length_ha	native_sp_richness_	non-native_cover	native_per_grass	litter_grd_cov_	patch_size_ha_	context	connectivity	site_score	landscape_score	BIOCONDITION_SCORE
1353	11.7.7	regrowth	0	5	3	4	0	3	10	10	5	5	5	4	2	0.56	0.55	0.56
1355	11.7.2	regrowth	0	1.5	5	2.5	0	2	12.5	10	5	5	2	0	0	0.54	0.10	0.46
1357	11.7.2	regrowth	0	1.5	5	2.5	0	0	12.5	3	3	3	0	0	0	0.38	0.00	0.31
1359	11.7.7	remnant	0	5	3	3.5	0	3	12.5	10	5	3	5	4	4	0.56	0.65	0.58
1361	11.5.1	remnant	15	5	5	5	0	3	12.5	10	5	5	5	4	0	0.82	0.45	0.75
1363	11.5.1	remnant	15	5	3	5	0	3	15	3	5	5	5	4	0	0.74	0.45	0.68
1366	11.9.6	remnant	5	5	5	5	0	5	10	10	1	3	7	5	5	0.61	0.85	0.66
1368	11.9.6	regrowth	0	3	3	5	0	5	10	10	5	5	7	5	5	0.58	0.85	0.63
1370	11.3.2b	remnant	NS	NS	0	NS	NS	NS	NS	10	NS	NS	2	2	0	NS	0.20	NS
1372	11.3.2b	regrowth	NS	NS	3	NS	NS	NS	NS	10	NS	NS	5	4	0	NS	0.45	NS



siteid	ге	growth_status	tot_num_large_trees_ha	canopy_height	recruitment_canopy_sp_	canopy_cover	shrub_canopy_cover	woody debris_length_ha	native_sp_richness_	non-native_cover	native_per_grass	litter_grd_cov_	patch_size_ha_	context	connectivity	site_score	landscape_score	BIOCONDITION_SCORE
1374	11.3.2b	remnant	NS	NS	5	NS	NS	NS	NS	10	NS	NS	2	2	0	NS	0.20	NS
1376	11.7.7	remnant	10	5	3	5	0	3	12.5	10	5	3	5	4	2	0.71	0.55	0.68
1394	11.7.7	regrowth	5	3	5	3.5	5	3	17.5	10	5	5	2	2	2	0.78	0.30	0.68
1396	11.9.10	remnant	15	3	5	2.5	5	5	12.5	10	1	5	5	4	4	0.80	0.65	0.77
1819	11.9.7	remnant	5	5	5	2.5	3	5	7.5	10	1	3	5	5	4	0.59	0.70	0.61

NS = No Score due to lack of published benchmark data

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## 4.0 Significant Residual Impact Assessment – Wildlife Habitat

The reduction in the CDZ has led to a change in the quantum and distribution of areas of potential threatened wildlife habitat (a prescribed environmental matter<sup>10</sup>) that may be impacted by the Project. The effects of this clearing on the potential long-term survival of these species within the local landscape is investigated.

To calculate the total quantum of impacts on threatened wildlife habitat, Terrestria have taken the revised Spine pipeline footprint (CDZ) shapefile (supplied by Santos) and superimposed it over the field-scale ground-truthed regional ecosystem mapping in a GIS. Habitat suitability was then assigned to the resultant impact polygons using Boobook (2021), field data and local expert knowledge as provided in **Table 3.4**. The results of this modelling exercise provided the total quantum and distribution of wildlife habitat that may be impacted by clearing within the CDZ. These data were then used as the basis of an assessment of the likely significant residual impacts to threatened wildlife habitat according to requirements under Queensland's Environmental Offsets Policy (v 1.8; February 2020) as set out in Offset guideline<sup>11</sup>.

The assessment criteria for significant residual impacts to State wildlife habitat and significant impacts to MNES wildlife<sup>12</sup> are similar and therefore the potential impacts have been addressed concurrently for those species listed as threatened under the *Nature Conservation Act, 1992* and the *Environment Protection and Biodiversity Conservation Act, 1999*.

## 4.1 Background

## 4.1.1 Prescribed Environmental Matters – Protected Wildlife Habitat

Clearing of native vegetation, regulated by the State has the potential to impact upon Prescribed Environmental Matters. Protected Wildlife habitat is one of the prescribed environmental matters and is defined below:

Protected wildlife habitat<sup>13</sup>

This section applies to the following MSES prescribed in the Environmental Offsets Regulation 2014:

• an area of essential habitat on the essential habitat map for an animal or plant that is endangered or vulnerable wildlife (section 2(3)(b), Schedule 2, EO Reg);

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<sup>&</sup>lt;sup>10</sup> Environmental Offsets Act (2014) Sect 10

<sup>&</sup>lt;sup>11</sup> Queensland Environmental Offsets Policy, Significant Residual Impact Guideline: Nature Conservation Act 1992 Environmental Protection Act 1994 Marine Parks Act 2004, December 2014.

<sup>&</sup>lt;sup>12</sup> Significant Impact Guidelines, (2013). Matters of National Environmental Significance; Significant Impact Guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999. Australian Department of Environment. How to address environmentally sensitive areas and offset requirements in an application for an environmental authority for resource activities. https://www.google.com/search?client=firefox-b-d&q=relationship+between+environmentally+sensitivie+areas+and+Prescribed+environmental+matters Environmental value' is defined in section 9 of the EP Act. General guide for the Queensland Environmental Offsets Framework V1.03 EPP/2021/5541 • Version 1.03 • Last Reviewed: 23 Feb 2021

<sup>13</sup> Section 5,p 10



- an area that is shown as a high risk area on the flora survey trigger map and that contains plants that are endangered or vulnerable wildlife (section 6(1), Schedule 2, EO Reg)
- an area that is not shown as a high risk area on the flora survey trigger map, to the extent the area contains plants that are endangered or vulnerable wildlife (section 6(2), Schedule 2, EO Reg)
- an area of habitat (e.g. foraging, roosting, nesting or breeding habitat) for an animal that is endangered, vulnerable or a special least concern animal (section 6(4), EO Reg).

## Significant Residual Impact on a Prescribed Environmental Matter

A significant residual impact is generally an adverse impact, whether direct or indirect, of a prescribed activity on all or part of a prescribed environmental matter that:

a) remains, or will or is likely to remain, (whether temporarily or permanently) despite on-site avoidance and mitigation measures for the prescribed activity; and

b) is, or will or is likely to be, significant<sup>14</sup>.

It is noted that the significant impact criteria provide a trigger for consideration of offsets. Once this trigger has been met or exceeded, then the total of the impact is included for consideration—not just the component of impact exceeding the criteria.

Significant residual impact criteria<sup>15</sup>: Endangered and vulnerable wildlife habitat (including essential habitat) & Special Least Concern Wildlife

An action is likely to have a significant impact on endangered and vulnerable wildlife if the impact on the habitat is likely to:

- lead to a long-term decrease in the size of a local population; or
- reduce the extent of occurrence of the species; or
- fragment an existing population; or
- result in genetically distinct populations forming as a result of habitat isolation; or
- result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat; or
- introduce disease that may cause the population to decline, or
- interfere with the recovery of the species; or
- cause disruption to ecologically significant locations (breeding, feeding, nesting, migration or resting sites) of a species.

Special least concern (non-migratory) animal wildlife habitat

15 Section 5.1

<sup>&</sup>lt;sup>14</sup> Queensland Environmental Offsets Policy, Significant Residual Impact Guideline: Nature Conservation Act 1992 Environmental Protection Act 1994 Marine Parks Act 2004, December 2014, Section 1, p1.



An action is likely to have a significant impact on a special least concern (non-migratory) animal wildlife habitat if it is likely that it will result in:

- a long-term decrease in the size of a local population; or
- a reduced extent of occurrence of the species; or
- fragmentation of an existing population; or
- result in genetically distinct populations forming as a result of habitat isolation; or
- disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species.

## 4.1.2 Amelioration of Impacts to Protected Wildlife Habitat

Rehabilitation works<sup>16</sup>

Where rehabilitation requirements on the impact site are included in a condition of the authority, they may be a relevant consideration in determining the significance of the impact. For example, demonstration of how rehabilitation can mitigate an impact may be based on the production of a well-structured rehabilitation and management plan which identifies and commits to actions to ensure minimal disruption to the healthy functioning of the matter.

Should a proponent successfully demonstrate that rehabilitation works can mitigate an impact to the extent that the impact on MSES would not be considered to be significant, this could negate the requirement for an offset. This circumstance would need, as a minimum, to consider:

- the extent and duration of impact on the matter and its sensitivity to disturbance
- timeframe for rehabilitation relative to the impact occurring and the ability of the matter to maintain its viability during this timeframe
- likely success of rehabilitation works to return the impacted matter to its original condition and
- the time-lag effect—between impact and rehabilitation successfully delivering the original condition for the matter—on the matter's viability.

Rehabilitated land can be considered as an offset for future projects, it cannot be considered as a meeting the offset obligation for the project that is subject to the rehabilitation condition.

## 4.1.3 Santos Environmental Authority Rehabilitation Requirements

Santos' EA (EPPG04323316) requires that rehabilitation works are conducted (see below). This rehabilitation will commence within 6 months of disturbance. The narrow width of disturbance combined with appropriate topsoil management and facilitation of natural revegetation will provide for regeneration of appropriate pre-clear vegetation communities. This requirement for rehabilitation has been considered when assessing the long-term significant residual impacts to threatened fauna habitat.

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<sup>&</sup>lt;sup>16</sup> Queensland Environmental Offsets Policy, Significant Residual Impact Guideline: Nature Conservation Act 1992 Environmental Protection Act 1994 Marine Parks Act 2004, December 2014, Section 1.2



## **Progressive Rehabilitation**

Disturbed areas no longer required for construction will be progressively rehabilitated/stabilised as construction progresses. Rehabilitation of disturbed areas will include:

- Contouring to match surrounding landforms.
- Re-establishment of surface drainage lines.
- Re-spreading of stockpiled topsoil and establishment of groundcover.
- Placement of cleared vegetation as required.

## Rehabilitation

- Pipeline trenches are backfilled and topsoils reinstated within 3 months after pipe laying in accordance with condition E18 of EA EPPG04323316
- Gathering line / pipeline ROW are re-instated and revegetation commenced within 6 months after completion of petroleum activities for the purpose of pipeline construction in accordance with condition E19 of EA EPPG04323316.
- Rehabilitation of significantly disturbed areas will commence within 12-months of no longer being required (unless an exceptional circumstance in the area to be rehabilitated (e.g. a flood event) prevents this timeframe being met) in accordance with condition I2 of EA EPPG04323316.
- Areas potentially exposed to contamination will be assessed and remediated where required as required by condition I2 of EA EPPG04323316.
- Final rehabilitation of disturbed areas would be undertaken to achieve the final rehabilitation criteria conditions (condition 13 of EA EPPG04323316).
- Rehabilitation aims to reshape and stabilise disturbed areas to provide appropriate site conditions to facilitate natural revegetation processes, and will include the following activities (where appropriate):
  - o ripping of areas of compacted soil (except on sensitive soils / environments).
  - o respreading of stockpiled topsoil, vegetation and seed stock (where available) to facilitate natural revegetation; and
  - o restoration of natural landform contours.

These rehabilitation requirements are relevant in determining if a long-term significant residual impact will occur through the installation of the pipeline and are to be considered when making a final impact assessment.

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## 4.2 Assessment of Significant Residual Impacts

## 4.2.1 Quantification of Potential Wildlife Habitat Clearing

This assessment quantifies the area of potential habitat (e.g. foraging, roosting, nesting or breeding habitat) for an animal that is endangered, vulnerable or a special least concern animal (section 6(4), EO Reg) or MNES<sup>17</sup> threatened fauna and assess the likely long-term impact on the threatened species.

The ability of ground truthed regional ecosystems to provide habitat for the suite of threatened wildlife known to occur within the vicinity was modelled using local expert knowledge, field micro-habitat assessments and Boobook (2021). Habitat suitability was assigned to all polygons within the Survey area. The total potential clearing areas for each mapped regional ecosystem / Wildlife habitat were generated by superimposing the CDZ shapefile (supplied by Santos) over the field-scale ground truthed regional ecosystem mapping<sup>18</sup>/ habitat suitability shapefile within ArcGIS and using the 'clip' function.

Using the exported database, the total area of potential habitat for each relevant threatened species<sup>19</sup> was calculated by summing the individual areas of each RE that was determined to provide potential habitat for each species. We have presented the results of this exercise within **Appendix I**.

Table 4.1: Wildlife Habitat Clearing within Construction Disturbance Zone

Common Name	Potential Habitat within the CDZ (ha)
South-eastern Long-eared bat Nyctophilus corbeni	2.3
Greater Glider Petauroides volans	2.9
Koala Phascolarctos cinereus	2.9
Glossy Black-Cockatoo Calyptorhynchus lathami	2.3
Painted Honeyeater Grantiella picta	2.3
White-throated Needletail Hirundapus caudacutus	2.3
Common Death Adder Acanthophis antarcticus	2.4
Woma Aspidites ramsayi	3.3

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<sup>&</sup>lt;sup>17</sup> Matters of National Environmental Significance

<sup>&</sup>lt;sup>18</sup> SD22 Spine Ecological Constraints Mapping (Terrestria July 2021)

<sup>&</sup>lt;sup>19</sup> Species listed as threatened under the Nature Conservation Act (1992) and listed as Special least concern



Common Name	Potential Habitat within the CDZ (ha)
Collared Delma Delma torquata	3.3
Yakka Skink Egernia rugosa	3.2
Dunmall's Snake Furina dunmalli	3.2
Golden-tailed Gecko Strophurus taenicauda	3.3
Dulacca Woodland Snail Adclarkia dulacca	0.3
Pale Imperial Hairstreak butterfly Jalmenus eubulus	1.4

## 4.2.2 **Assessing Significant Residual Impacts**

The likely impact of the proposed clearing on each individual threatened species was assessed according to the criteria set out in Section 5.1 of the Significant Residual Impact Guideline (2014). This assessment considered:

- The total quantum of potential habitat clearing
- The size of individual patches of potential habitat to be cleared
- The micro-habitat features of the habitat to be cleared (Habitat Quality)
- The known presence of the threatened species
- The clearing width
- Requirements for Rehabilitation
- The ecology of the threatened species

The assessment criteria for significant residual impacts to State wildlife habitat and significant impact to MNES wildlife are similar and therefore the potential impacts of the proposed clearing within the CDZ have been addressed concurrently for those species listed as threatened under the Nature Conservation Act, 1992 and the Environment Protection and Biodiversity Conservation Act, 1999. The results of these assessments are present in Appendix G.

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## 5.0 Conclusions

Sufficient on-ground assessment by appropriately qualified ecologists was undertaken to produce an appropriately scaled vegetation community/regional ecosystem map for the Survey Area. Determination of habitat quality for threatened wildlife within the mapped regional ecosystem polygons was undertaken using field assessment of the presence of required micro-habitat features and knowledge of the species' ecology. The presence of potential fauna habitat was determined by a conservative approach which assumes the possible presence of a species if; it is known from the locality and a minimal amount of required habitat features are present.

Projection of the CDZ over the project-scale wildlife habitat mapping allowed for the calculation of the amount and distribution of threatened wildlife habitat that may be disturbed by the Project.

The reduction in the length and width of the CDZ has led to a reduction in impacts to remnant and functional regrowth regional ecosystems and associated threatened wildlife habitats. The narrow width of disturbance and restriction of clearing to the edges of larger habitat patches reduces the potential impacts to wildlife ecology. In addition, Santos' EA requirements to rehabilitate most of the disturbance immediately post construction will result in very minor long-term disturbances to existing threatened wildlife habitats.

Assessment of the quantum and distribution of impacts to threatened wildlife habitat against the significant residual impact<sup>20</sup> and MNES Impact guidelines<sup>21</sup> have shown that there will be no significant residual impacts to any wildlife habitats for threatened species brought about through the construction of the SD23 Spine pipeline and associated power station and water treatment facility.

## 6.0 References

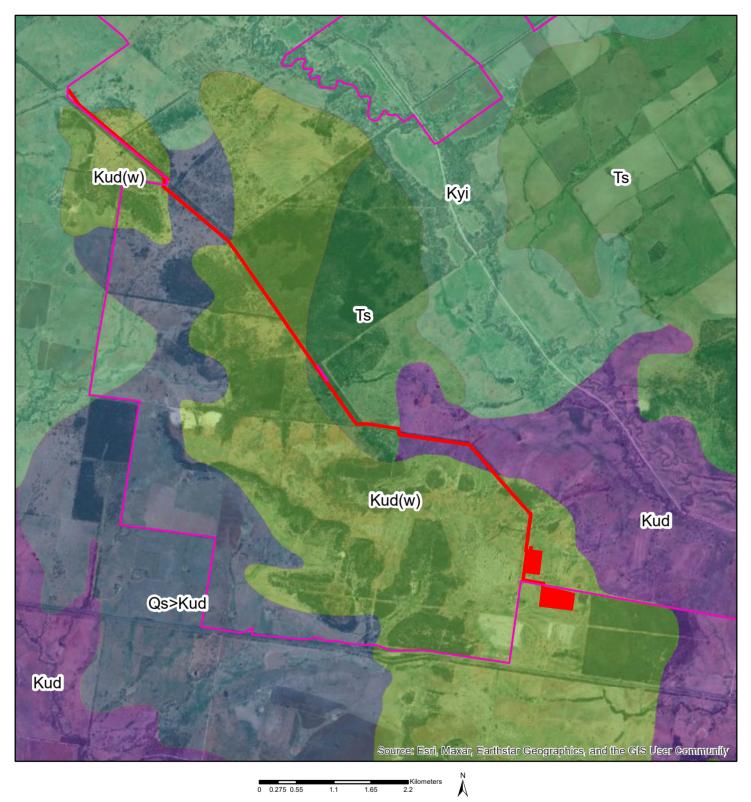
Boobook (2021) Predictive Habitat Mapping Rules for MNES and MSES Fauna Species within the Santos GFD Project Gas Fields. Prepared by Boobook Ecological Consulting for Santos (08/09/2021).

DES 2020. Guide to determining terrestrial habitat quality, Methods for assessing habitat quality under the Queensland Environmental Offsets Policy Version 1.3 February 2020

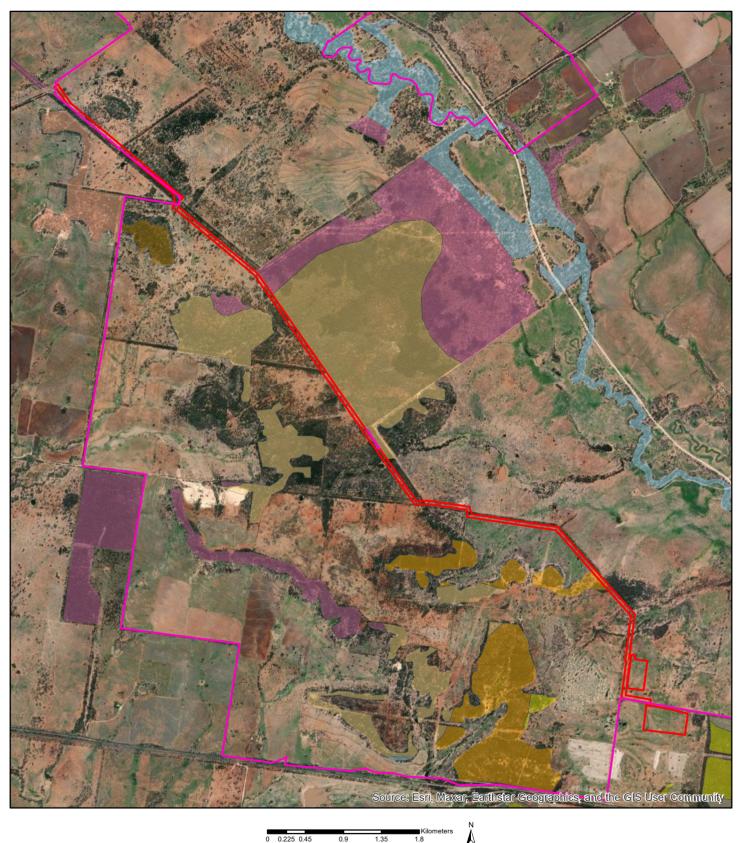
Significant Impact Guidelines, (2013). *Matters of National Environmental Significance; Significant Impact Guidelines 1.1 Environment Protection and Biodiversity Conservation Act 1999*. Australian Department of Environment.

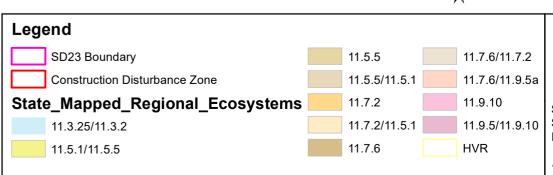
<sup>&</sup>lt;sup>20</sup> Matters of State Environmental Significance

<sup>&</sup>lt;sup>21</sup> Federally listed threatened species







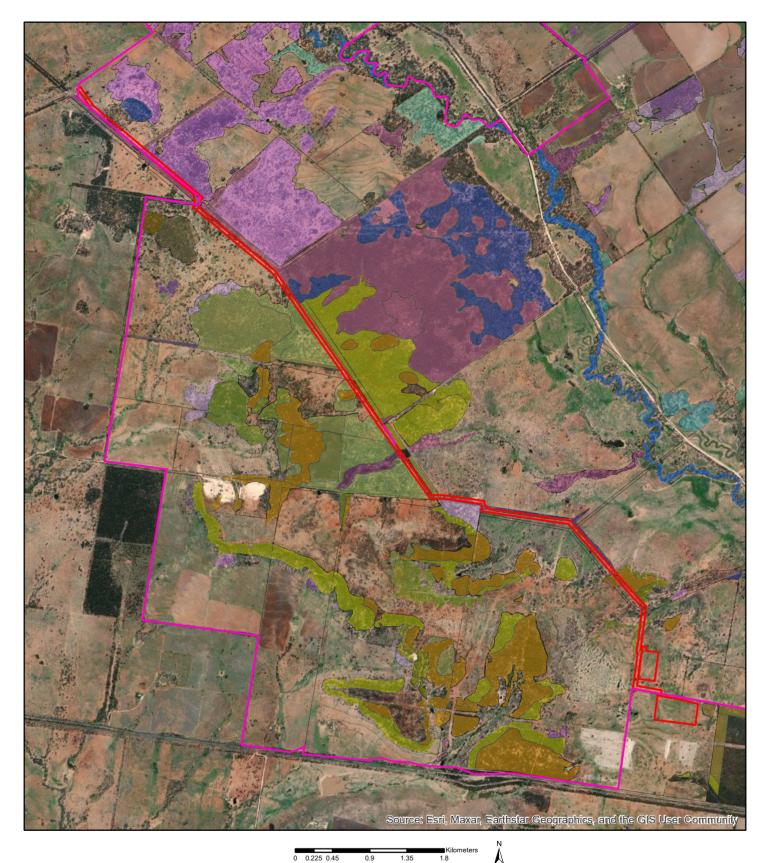


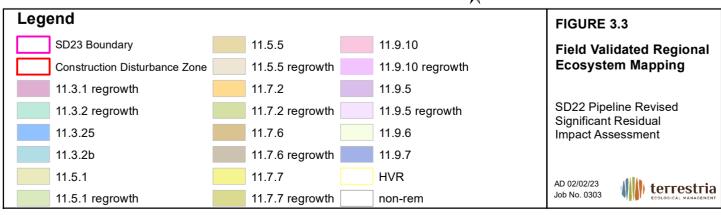
## FIGURE 3.2 State 1:100,000 Regional Ecosystem Mapping

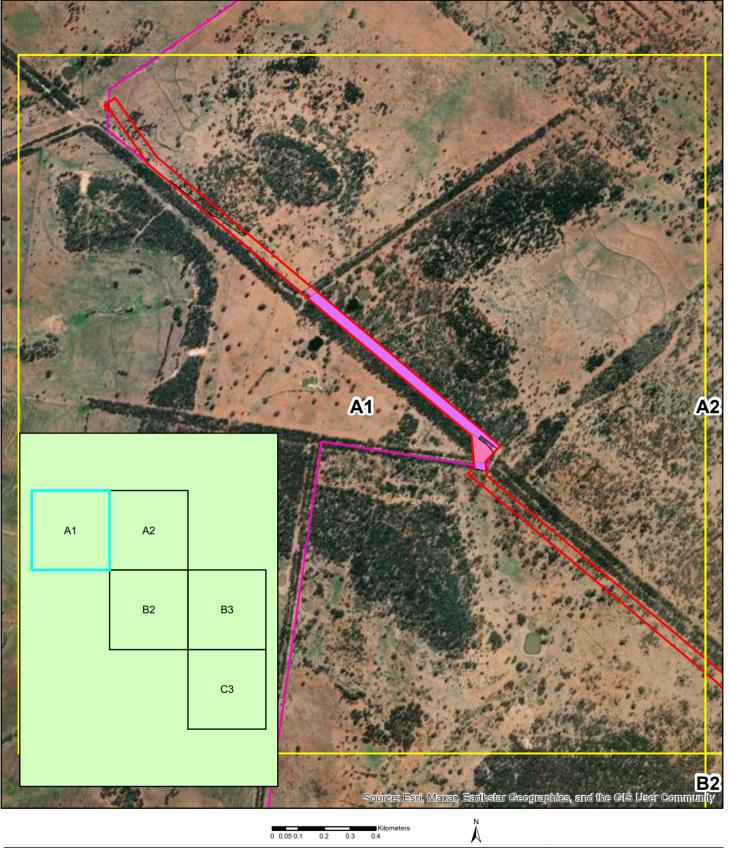
SD22 Pipeline Revised Significant Residual Impact Assessment

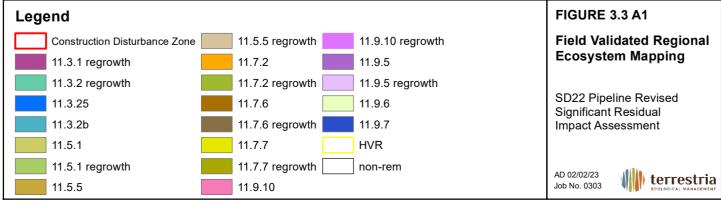
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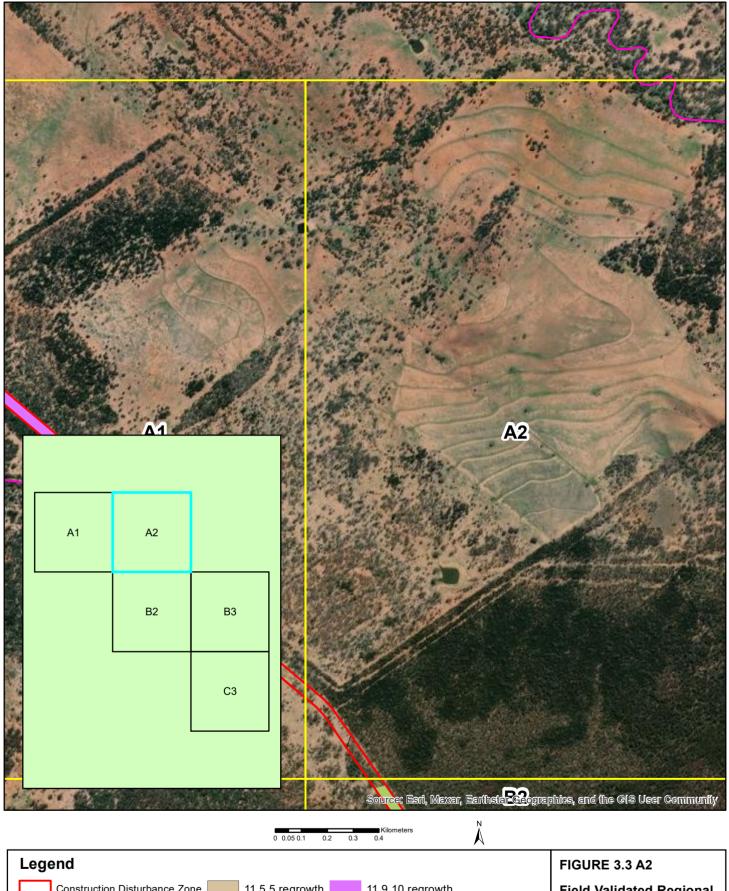


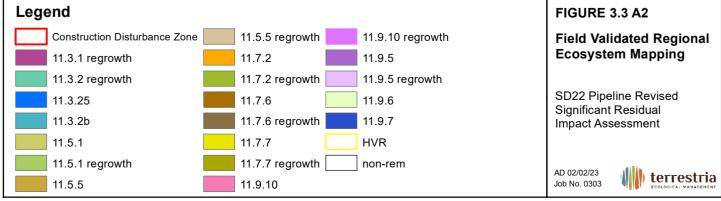


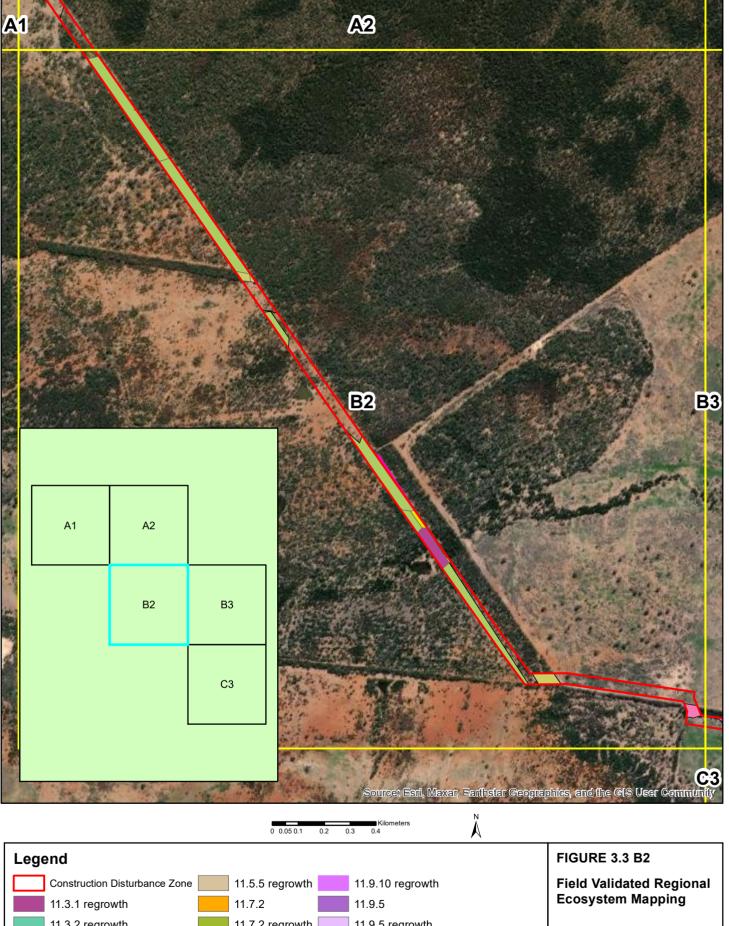


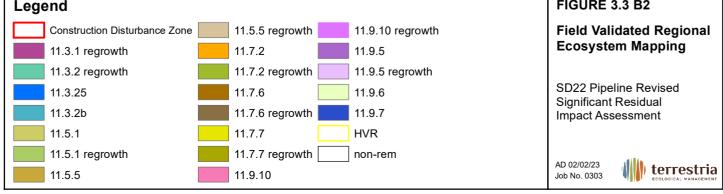


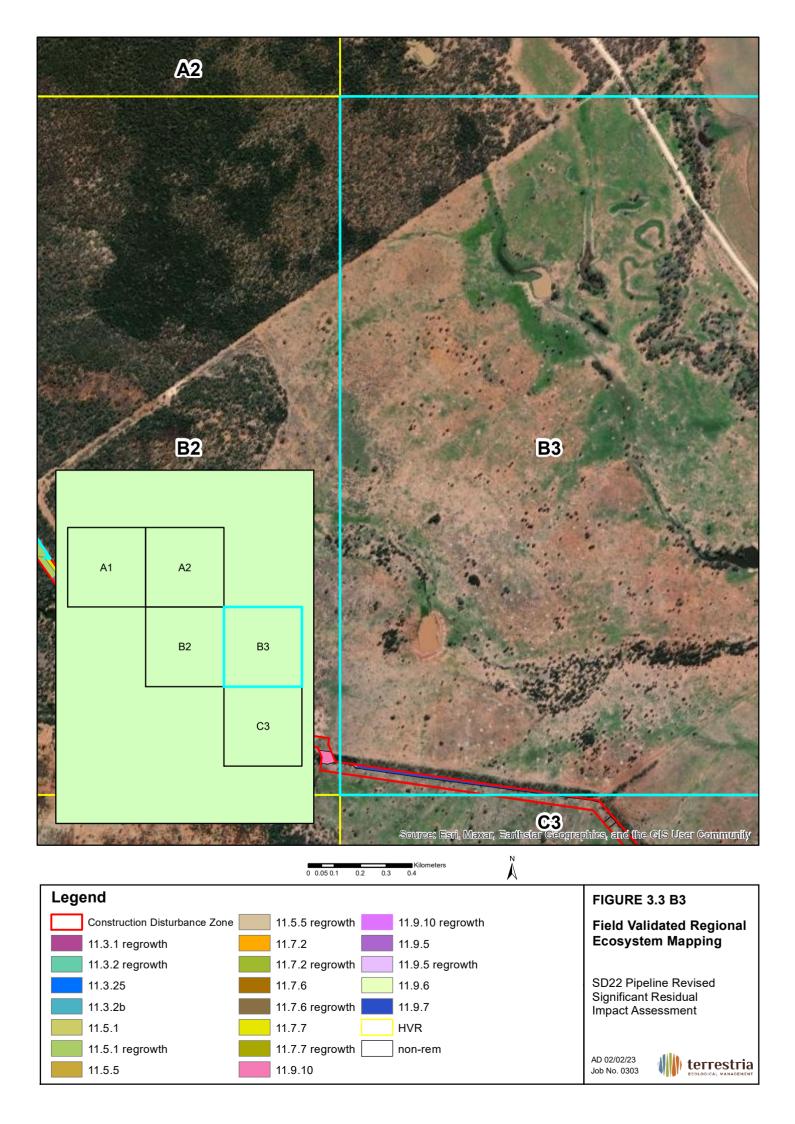


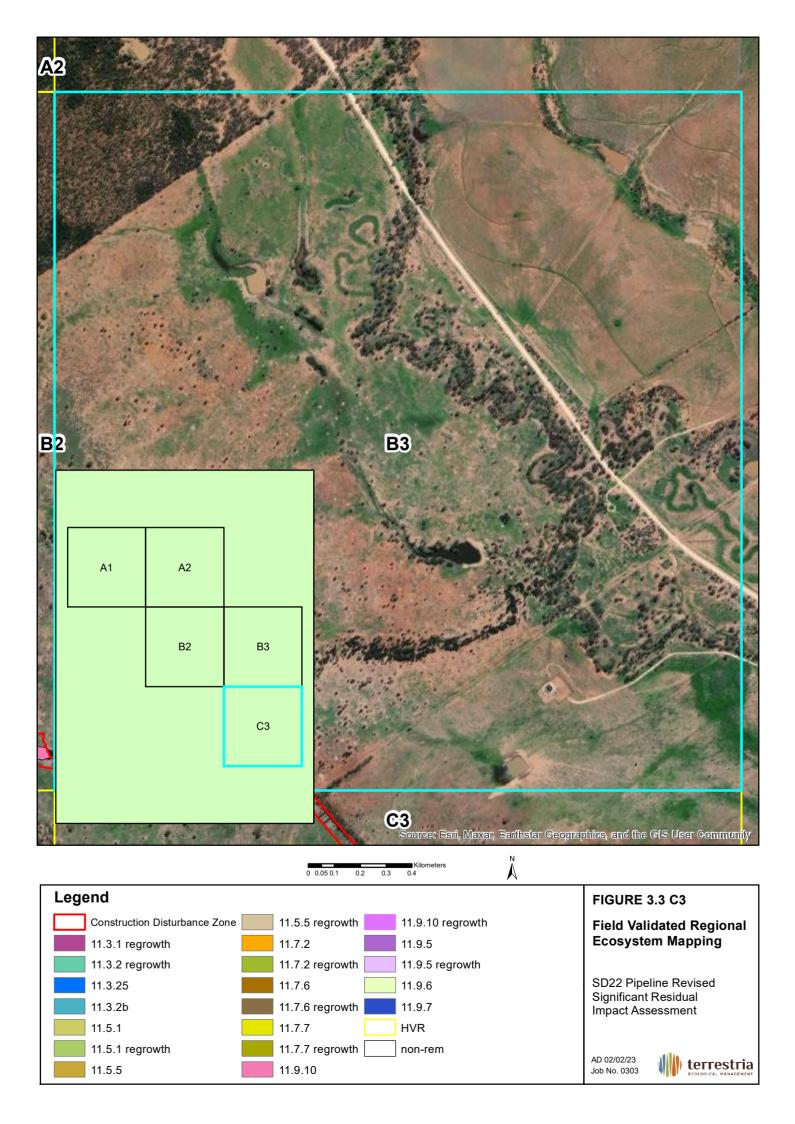














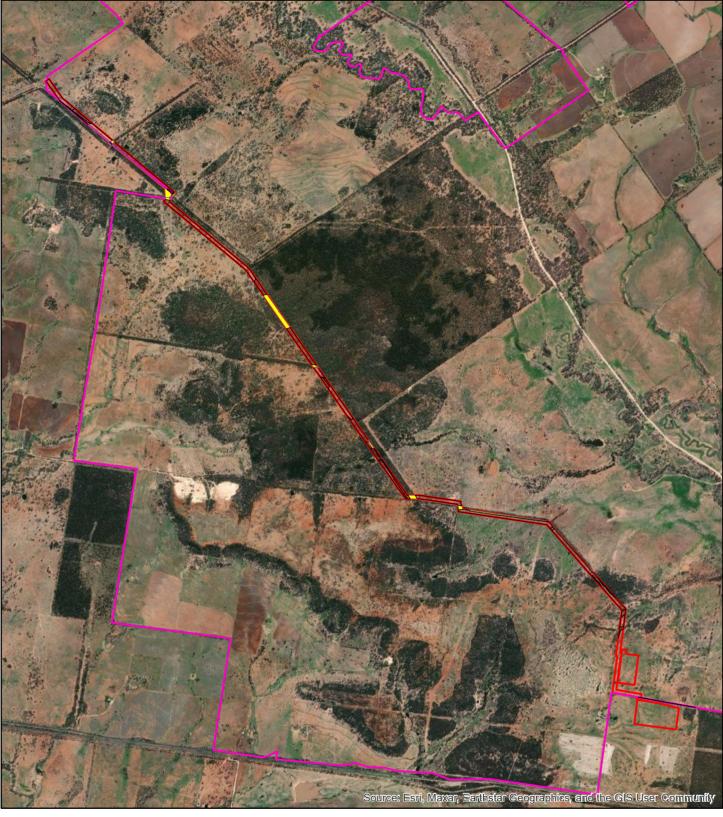


## FIGURE 3.4

South-eastern Long-eared bat Nyctophilus corbeni Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





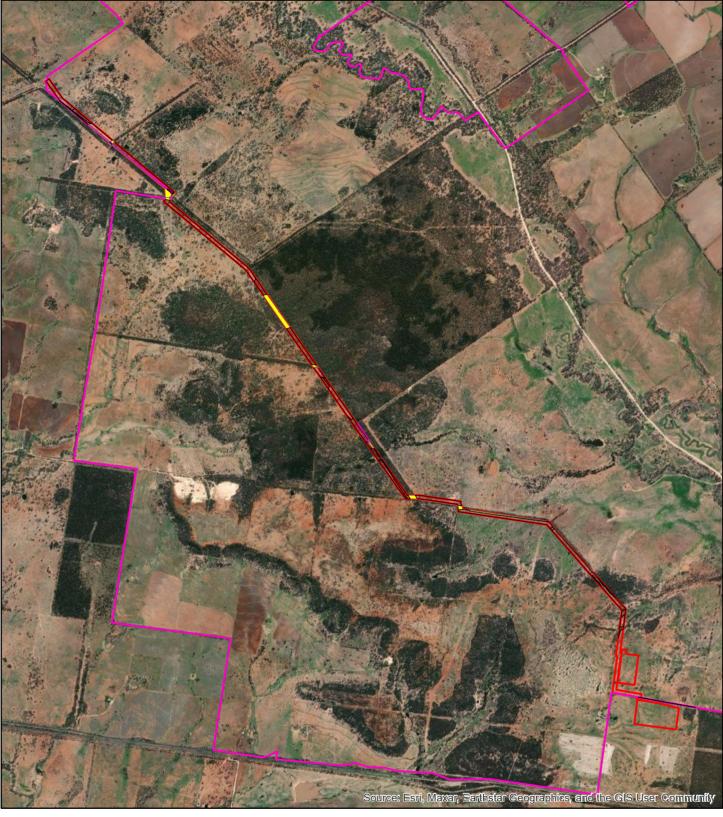


## FIGURE 3.5

## Greater Glider Petauroides volans Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





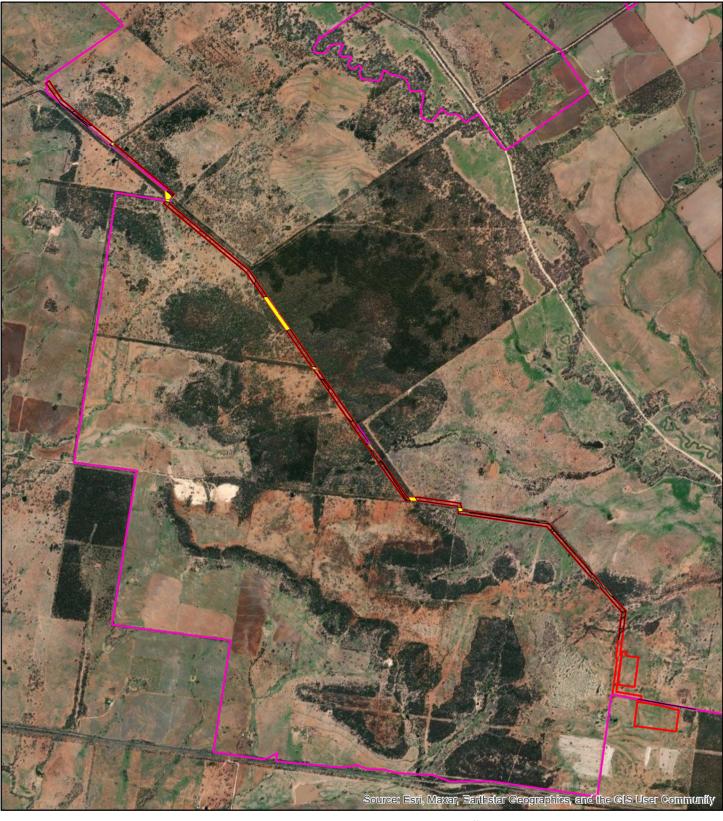


## FIGURE 3.6

## Koala Phascolarctos cinereus Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





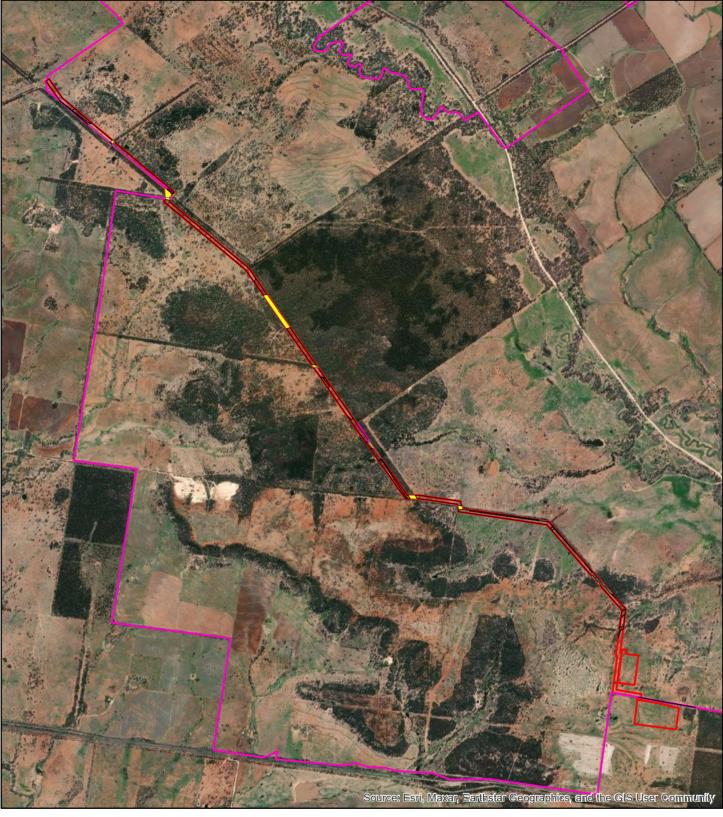


## FIGURE 3.7

## Glossy Black-Cockatoo Calyptorhynchus lathami Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





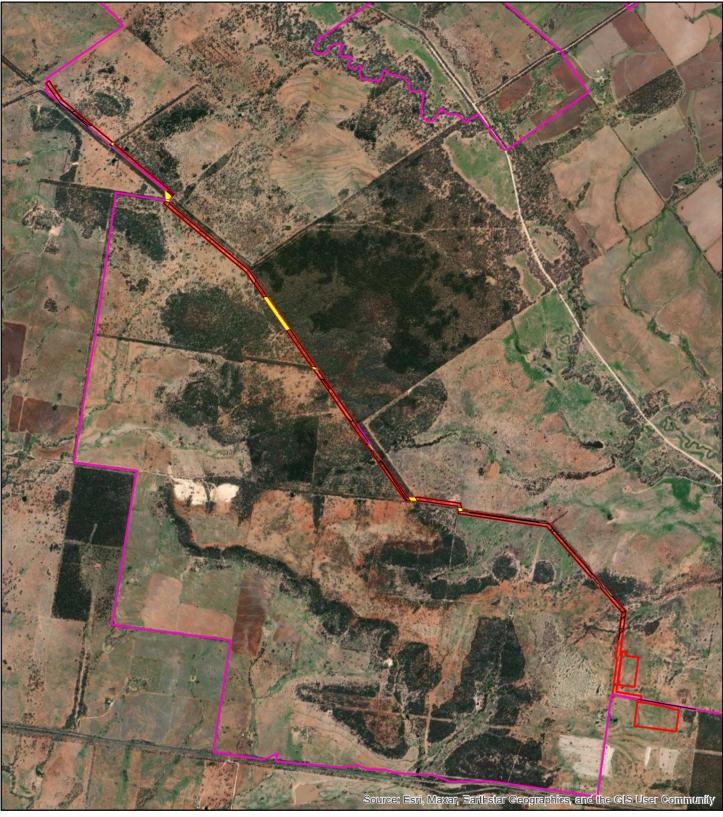


## FIGURE 3.8

## Painted Honeyeater Grantiella picta Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





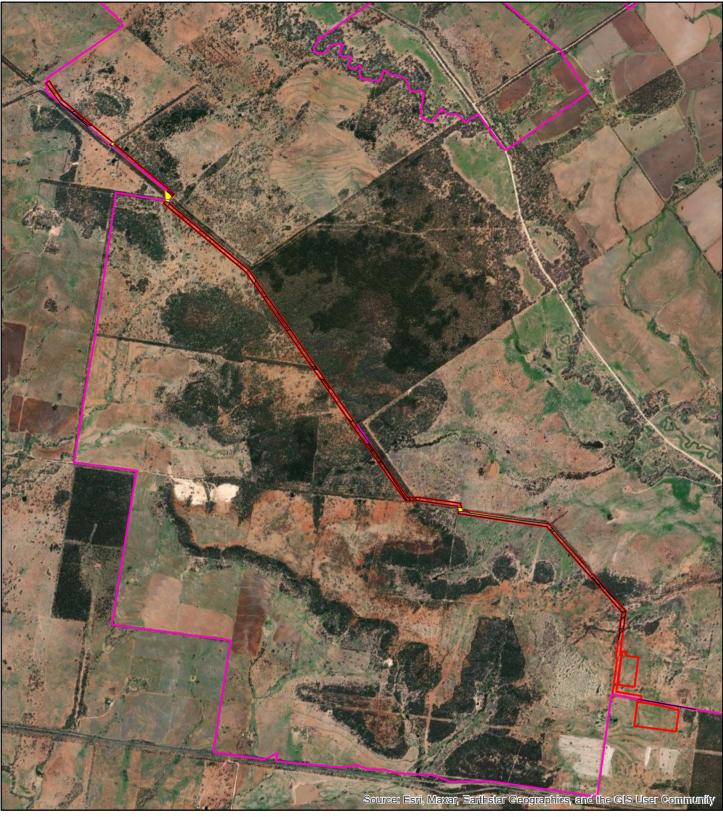


## FIGURE 3.9

White-throated Needletail Hirundapus caudacutus Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





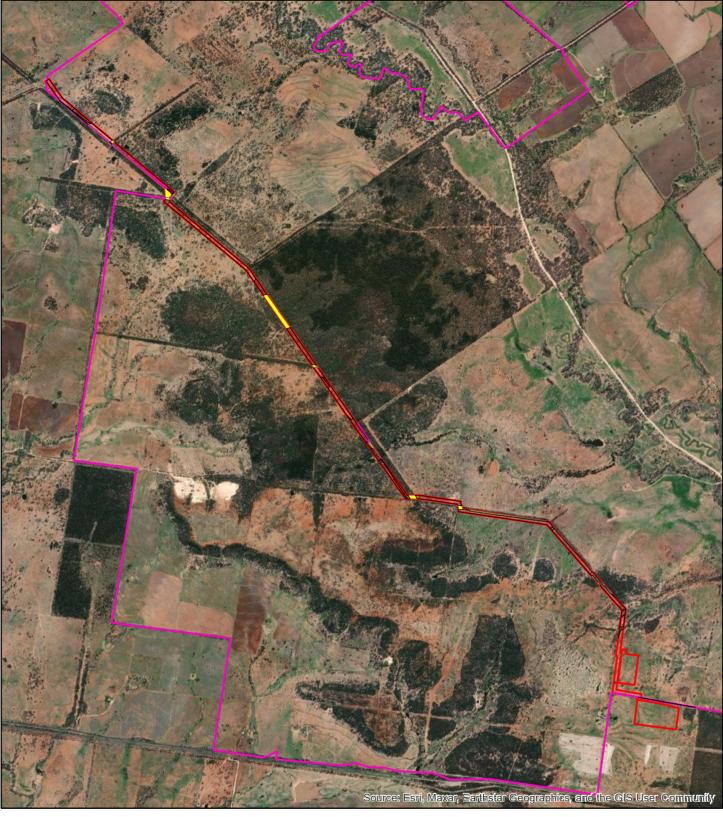


## FIGURE 3.10

## Common Death Adder Acanthophis antarcticus Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





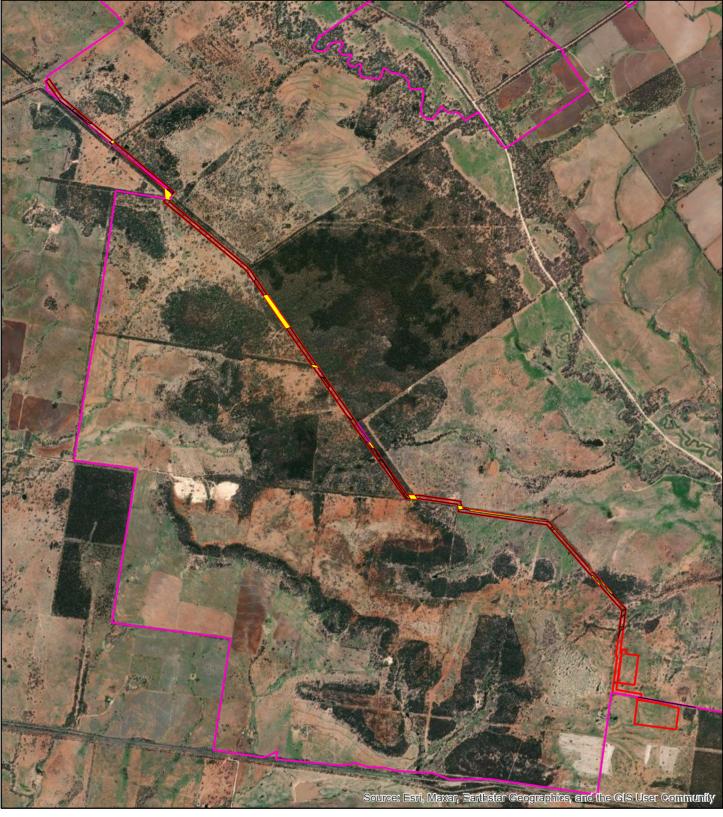


## FIGURE 3.11

## Woma Aspidites ramsayi Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





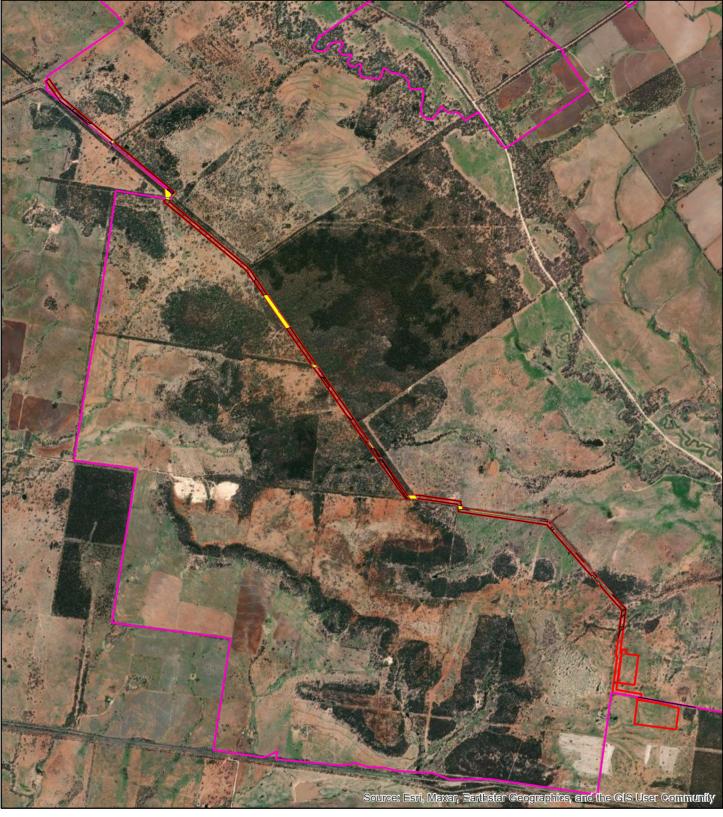


## FIGURE 3.12

## Collared Delma Delma torquata Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





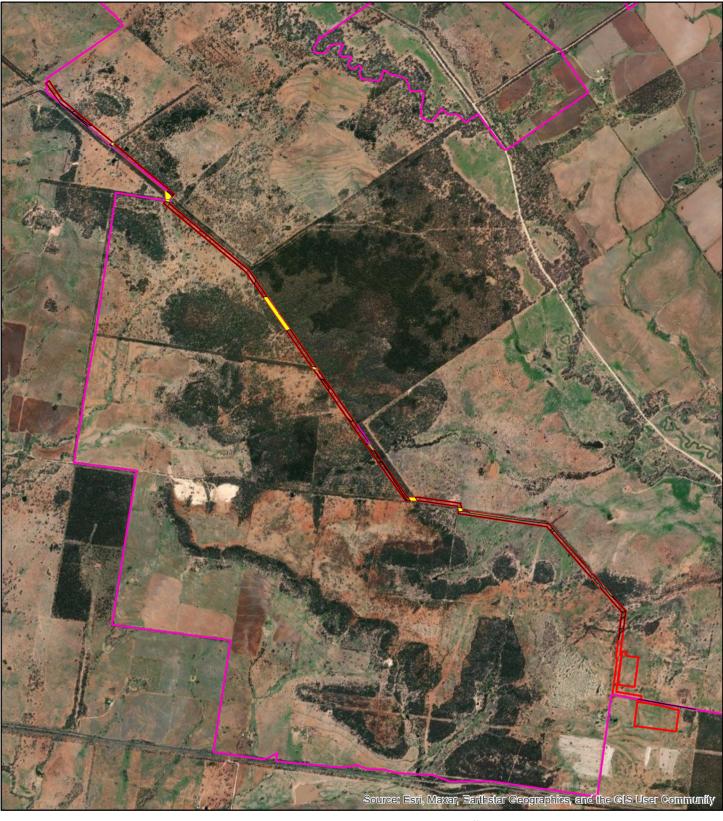


## FIGURE 3.13

## Yakka Skink Egernia rugosa Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment





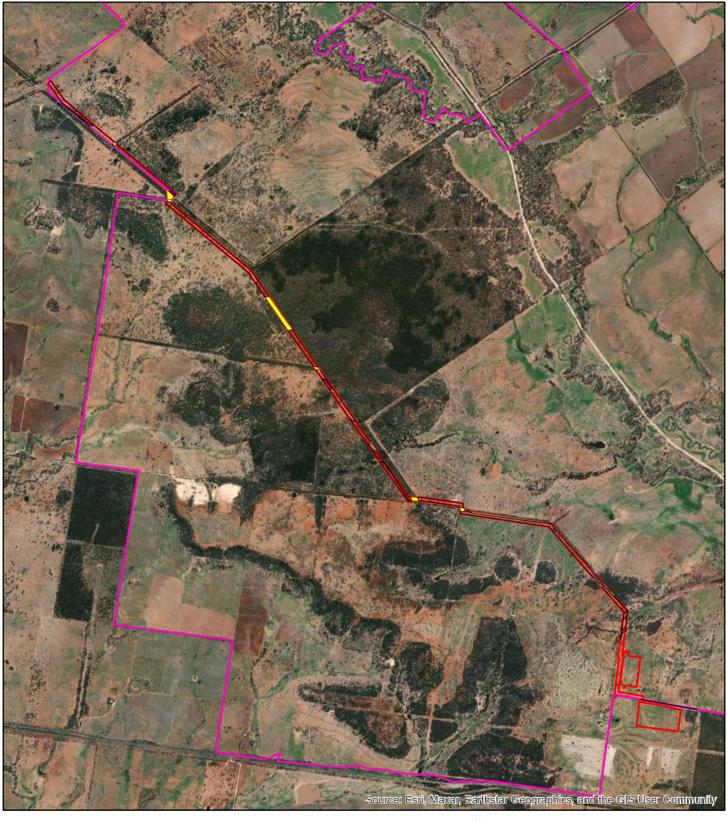


## FIGURE 3.14

## Dunmall's Snake Furina dunmalli Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment







## Legend

SD23 Boundary

Construction Disturbance Zone

General Habitat

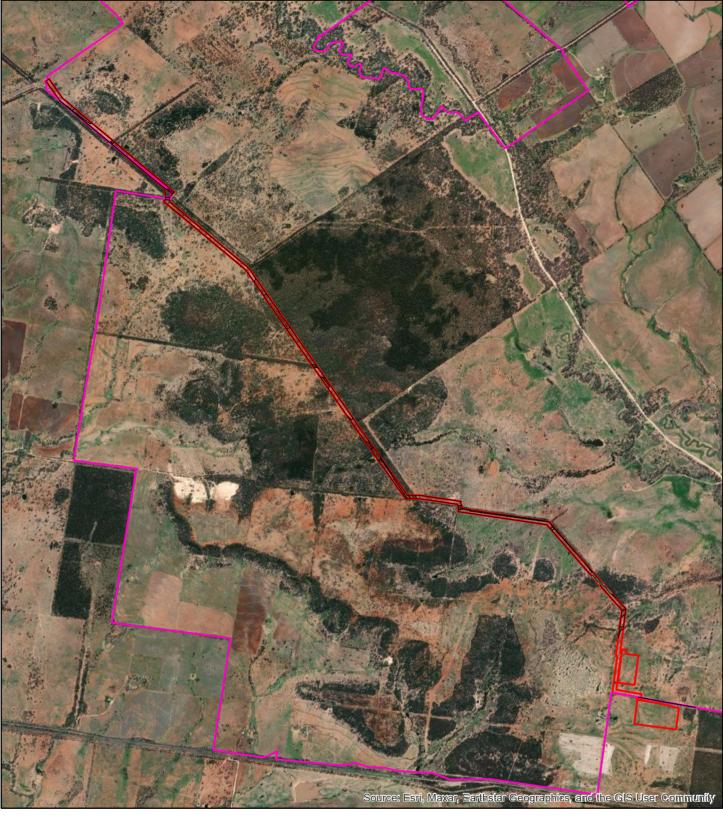
Generally unsuitable

## FIGURE 3.15

## Golden-tailed Gecko Strophurus taenicauda Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment







# Legend SD23 Boundary Construction Disturbance Zone General Habitat Generally unsuitable

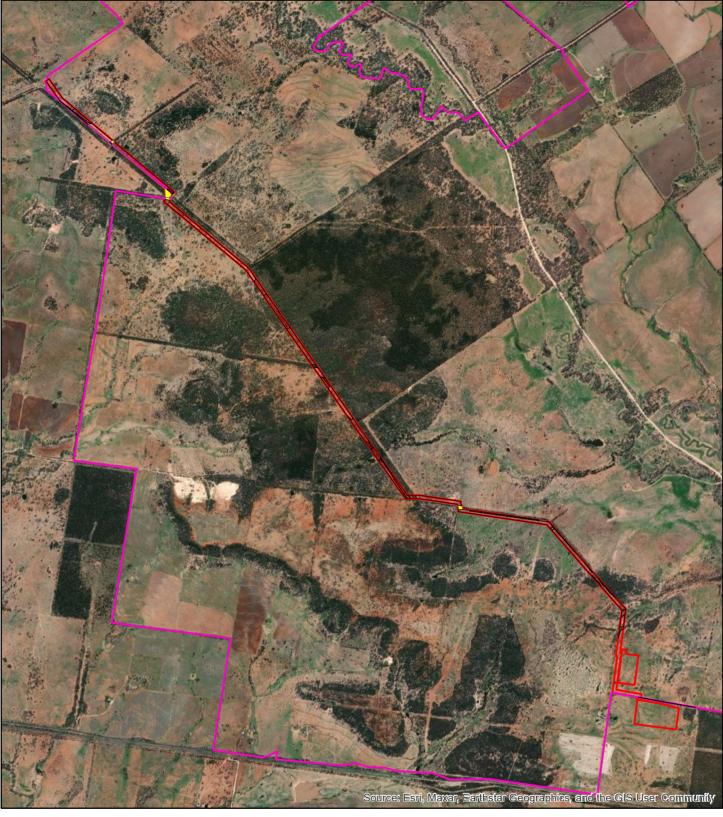
#### **FIGURE 3.16**

#### Dulacca Woodland Snail Adclarkia dulacca Habitat

SD22 Pipeline Revised Significant Residual Impact Assessment

AD 02/02/23 Job No. 0303







## Legend SD23 Boundary Construction Disturbance Zone General Habitat Generally unsuitable

#### **FIGURE 3.17**

Pale Imperial Hairstreak butterfly Jalmenus eubulus Habitat

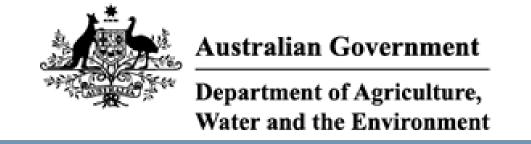
SD22 Pipeline Revised Significant Residual Impact Assessment

AD 02/02/23 Job No. 0303



## Appendix A

Protect Matters Database Search



## **EPBC Act Protected Matters Report**

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

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

Information is available about <u>Environment Assessments</u> and the EPBC Act including significance guidelines, forms and application process details.

Report created: 16/06/21 12:14:36

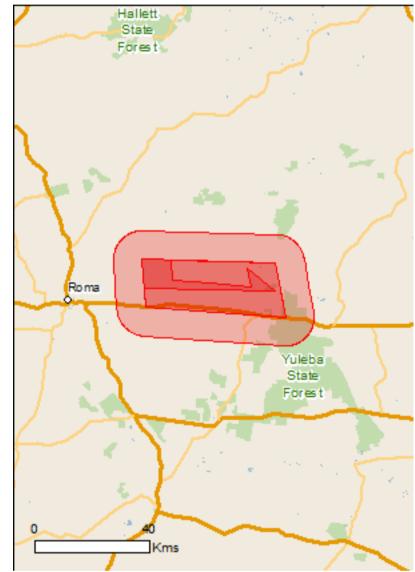
**Summary** 

**Details** 

Matters of NES
Other Matters Protected by the EPBC Act
Extra Information

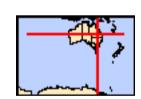
Caveat

<u>Acknowledgements</u>



This map may contain data which are ©Commonwealth of Australia (Geoscience Australia), ©PSMA 2015

Coordinates
Buffer: 10.0Km



## **Summary**

#### Matters of National Environmental Significance

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

World Heritage Properties:	None
National Heritage Places:	None
Wetlands of International Importance:	4
Great Barrier Reef Marine Park:	None
Commonwealth Marine Area:	None
Listed Threatened Ecological Communities:	15
Listed Threatened Species:	24
Listed Migratory Species:	10

#### Other Matters Protected by the EPBC Act

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

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

A <u>permit</u> may be required for activities in or on a Commonwealth area that may affect a member of a listed threatened species or ecological community, a member of a listed migratory species, whales and other cetaceans, or a member of a listed marine species.

Commonwealth Land:	None
Commonwealth Heritage Places:	None
Listed Marine Species:	14
Whales and Other Cetaceans:	None
Critical Habitats:	None
Commonwealth Reserves Terrestrial:	None
Australian Marine Parks:	None

#### **Extra Information**

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

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

## **Details**

#### Matters of National Environmental Significance

Wetlands of International Importance (Ramsar)	[Resource Information]
Name	Proximity
Banrock station wetland complex	1100 - 1200km
Narran lake nature reserve	300 - 400km upstream
Riverland	1100 - 1200km
The coorong, and lakes alexandrina and albert wetland	1300 - 1400km

#### Listed Threatened Ecological Communities

#### [ Resource Information ]

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

produce indicative distribution maps.		
Name	Status	Type of Presence
Brigalow (Acacia harpophylla dominant and codominant)	Endangered	Community known to occur within area
Brigalow (Acacia harpophylla dominant and codominant)	Endangered	Community known to occur within area
Brigalow (Acacia harpophylla dominant and codominant)	Endangered	Community known to occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Coolibah - Black Box Woodlands of the Darling Riverine Plains and the Brigalow Belt South Bioregions	Endangered	Community may occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Poplar Box Grassy Woodland on Alluvial Plains	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Semi-evergreen vine thickets of the Brigalow Belt (North and South) and Nandewar Bioregions	Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area
Weeping Myall Woodlands	Endangered	Community likely to occur within area
Listed Threatened Species		[ Resource Information ]
Name	Status	Type of Presence
Birds Calidric forruginos		
Calidris ferruginea Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Erythrotriorchis radiatus		
Red Goshawk [942]	Vulnerable	Species or species habitat likely to occur

		<b>-</b> (5
Name	Status	Type of Presence
		within area
Falco hypoleucos		
Grey Falcon [929]	Vulnerable	Species or species habitat
		likely to occur within area
Geophaps scripta scripta		
Squatter Pigeon (southern) [64440]	Vulnerable	Species or species habitat
		may occur within area
Grantiella picta		
Painted Honeyeater [470]	Vulnerable	Species or species habitat
		likely to occur within area
Hirundapus caudacutus		
White-throated Needletail [682]	Vulnerable	Species or species habitat
		may occur within area
Destructural		
Rostratula australis		
Australian Painted Snipe [77037]	Endangered	Species or species habitat
		likely to occur within area
Fieb		
Fish Magazilla de alla rea alii		
Maccullochella peelii	Modern II	0
Murray Cod [66633]	Vulnerable	Species or species habitat
		may occur within area
Mammals		
Chalinolobus dwyeri	Mala analala	0
Large-eared Pied Bat, Large Pied Bat [183]	Vulnerable	Species or species habitat
		likely to occur within area
Dacyurus hallucatus		
Dasyurus hallucatus  Northorn Ovell Digul Cogo Vimidir Wiiingadda	Codonacio	Charles or angeles habitat
Northern Quoll, Digul [Gogo-Yimidir], Wijingadda	Endangered	Species or species habitat
[Dambimangari], Wiminji [Martu] [331]		may occur within area
Nyctophilus corbeni		
	Vulnerable	Species or species habitat
Corben's Long-eared Bat, South-eastern Long-eared Bat [83395]	vuirierable	Species or species habitat likely to occur within area
Bat [65595]		likely to occur within area
Phascolarctos cinereus (combined populations of Qld,	NSW and the ACT)	
Koala (combined populations of Queensland, New	Vulnerable	Species or species habitat
South Wales and the Australian Capital Territory)	Valiforable	known to occur within area
[85104]		Known to occur within area
Other		
Outlo		
Adclarkia dulacca	Endangered	Species or species habitat
	Endangered	Species or species habitat
Adclarkia dulacca	Endangered	Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]	Endangered	•
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants	Endangered	•
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus		likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants	Endangered  Vulnerable	likely to occur within area  Species or species habitat
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus		likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]		likely to occur within area  Species or species habitat
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis	Vulnerable	Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]		Species or species habitat may occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis	Vulnerable	Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]	Vulnerable	Species or species habitat may occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum	Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]	Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum	Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]	Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii	Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]	Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii	Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]	Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]	Vulnerable Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]	Vulnerable  Vulnerable  Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat may occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]	Vulnerable Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]  Lepidium monoplocoides Winged Pepper-cress [9190]	Vulnerable Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat may occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]  Lepidium monoplocoides Winged Pepper-cress [9190]  Swainsona murrayana	Vulnerable Vulnerable Vulnerable Vulnerable Endangered	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat may occur within area  Species or species habitat may occur within area
Adclarkia dulacca Dulacca Woodland Snail [83885]  Plants Arthraxon hispidus Hairy-joint Grass [9338]  Cadellia pentastylis Ooline [9828]  Dichanthium setosum bluegrass [14159]  Homopholis belsonii Belson's Panic [2406]  Lepidium monoplocoides Winged Pepper-cress [9190]	Vulnerable Vulnerable Vulnerable Vulnerable	Species or species habitat may occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat likely to occur within area  Species or species habitat may occur within area  Species or species habitat may occur within area

Name	Status	Type of Presence
Tylophora linearis		
[55231]	Endangered	Species or species habitat may occur within area
Xerothamnella herbacea		
[4146]	Endangered	Species or species habitat may occur within area
Reptiles		
Delma torquata		
Adorned Delma, Collared Delma [1656]	Vulnerable	Species or species habitat may occur within area
Egernia rugosa Yakka Skink [1420]	Vulnerable	Species or species habitat
	vuirierable	known to occur within area
Furina dunmalli	V de analala	On a sing on an arian habitat
Dunmall's Snake [59254]	Vulnerable	Species or species habitat known to occur within area
Listed Migratory Species		[ Resource Information ]
* Species is listed under a different scientific name on t	he EPBC Act - Threatened	Species list.
Name	Threatened	Type of Presence
Migratory Marine Birds		
Apus pacificus		
Fork-tailed Swift [678]		Species or species habitat likely to occur within area
Migratory Terrestrial Species		
Cuculus optatus		
Oriental Cuckoo, Horsfield's Cuckoo [86651]		Species or species habitat may occur within area
Hirundapus caudacutus		
White-throated Needletail [682]	Vulnerable	Species or species habitat may occur within area
Motacilla flava		
Yellow Wagtail [644]		Species or species habitat may occur within area
Myiagra cyanoleuca		
Satin Flycatcher [612]		Species or species habitat may occur within area
Migratory Wetlands Species		
Actitis hypoleucos		
Common Sandpiper [59309]		Species or species habitat may occur within area
Calidris acuminata		
Sharp-tailed Sandpiper [874]		Species or species habitat likely to occur within area
Calidris ferruginea		
Curlew Sandpiper [856]	Critically Endangered	Species or species habitat may occur within area
Calidris melanotos  Pectoral Sandniner [858]		Species or species habitat
Pectoral Sandpiper [858]		Species or species habitat may occur within area
Gallinago hardwickii Latham's Snine Japanese Snine [863]		Species or species babitat
Latham's Snipe, Japanese Snipe [863]		Species or species habitat may occur within area

#### Other Matters Protected by the EPBC Act

Listed Marine Species  Species is listed under a different scientific name on the EPBC Act - Threatened Species list.  Threatened Type of Presence Birds  Actilis hypoleucos  Common Sandpiper [59309]  Apus pacificus  Fork-tailed Swift [678]  Ardea ibis  Cattle Egret [59542]  Species or species habitat may occur within area  Ardea ibis  Cattle Egret [59542]  Species or species habitat may occur within area  Ardea ibis  Cattle Egret [59542]  Species or species habitat may occur within area  Calidris acuminata  Sharp-tailed Sandpiper [874]  Species or species habitat may occur within area  Calidris ferruginea  Curlew Sandpiper [856]  Critically Endangered  Species or species habitat may occur within area  Calidris melanotos  Pectoral Sandpiper [858]  Species or species habitat may occur within area  Chrysococcyx osculans  Black-eared Cuckoo [705]  Species or species habitat may occur within area  Calidris melanotos  Pectoral Sandpiper [863]  Species or species habitat may occur within area  Chrysococcyx osculans  Black-eared Cuckoo [705]  Species or species habitat may occur within area  Calidris melanotos  Pectoral Sandpiper [868]  Species or species habitat may occur within area  Chrysococcyx osculans  Black-eared Cuckoo [705]  Species or species habitat may occur within area  Chrysococcyx osculans  Black-eared Cuckoo [705]  Species or species habitat may occur within area  Haliaaetus leucogaster  White-bellied Sea-Eagle [943]  White-throated Needletail [682]  Vulnerable  Species or species habitat may occur within area  Merops ornatus  Rainbow Bee-sater [670]  Species or species habitat may occur within area  Motacilla flava  Yellow Wagtail [644]  Species or species habitat may occur within area  Mylagra cyanoleuca  Satin Flycatcher [612]  Species or species habitat may occur within area  Rostratula benghalensis (sensu lato)  Parited Snipe [889]  Endangered*  Species or species habitat may occur within area	Other Matters Protected by the EPBC Act		
Species is listed under a different scientific name on the EPBC Act - Threatened Type of Presence Birds Actitis hypoleucos Actitis hypoleucos Common Sandpiper [59309] Species or species habitat may occur within area  Apus pacificus Fork-tailed Swift [678] Species or species habitat may occur within area  Ardaa ibis Cattle Egret [59542] Species or species habitat may occur within area  Ardaa ibis Cattle Egret [59542] Species or species habitat may occur within area  Ardaa ibis Cattle Egret [59542] Species or species habitat may occur within area  Calidris acuminata Sharp-tailed Sandpiper [874] Species or species habitat may occur within area  Calidris ferruqinea Curlew Sandpiper [856] Critically Endangered Species or species habitat may occur within area  Calidris melanotos Pectoral Sandpiper [858] Species or species habitat may occur within area  Chrysococyx osculans Black-eared Cuckoo [705] Species or species habitat may occur within area  Callinago hardwickii Latham's Snipe, Japanese Snipe [863] Species or species habitat may occur within area  Haliaeetus leucogaster White-bellied Sea-Eagle [943] White-bellied Sea-Eagle [943] Vulnerable Species or species habitat may occur within area  Hirundapus caudacutus White-throated Needletail [682] Vulnerable Species or species habitat may occur within area  Merops ornatus  Rainbow Bee-eater [670] Species or species habitat may occur within area  Merops ornatus  Rainbow Bee-eater [670] Species or species habitat may occur within area  Motacilla flava Yellow Wagtail [644] Species or species habitat may occur within area  Motacilla flava Yellow Wagtail [644] Species or species habitat may occur within area  Motacilla flava Yellow Wagtail [649] Species or species habitat may occur within area  Motacilla flava Yellow Wagtail [649] Species or species habitat may occur within area	Listed Marine Species		[ Resource Information ]
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#### **Extra Information**

Invasive Species [Resource Information]

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

Name	Status	Type of Presence
Birds		
Anas platyrhynchos		
Mallard [974]		Species or species habitat likely to occur within area
Columba livia		
Rock Pigeon, Rock Dove, Domestic Pigeon [803]		Species or species habitat likely to occur within area
Passer domesticus		
House Sparrow [405]		Species or species habitat likely to occur within area
Sturnus vulgaris		
Common Starling [389]		Species or species habitat likely to occur within area
Frogs		
Rhinella marina		
Cane Toad [83218]		Species or species habitat known to occur within area
Mammals		
Bos taurus		
Domestic Cattle [16]		Species or species habitat likely to occur within area
Canis lupus familiaris		
Domestic Dog [82654]		Species or species habitat likely to occur within area
Felis catus		
Cat, House Cat, Domestic Cat [19]		Species or species habitat likely to occur within area
Lepus capensis		
Brown Hare [127]		Species or species habitat likely to occur within area
Mus musculus		
House Mouse [120]		Species or species habitat likely to occur

Name	Status	Type of Presence
		within area
Oryctolagus cuniculus Rabbit, European Rabbit [128]		Species or species habitat likely to occur within area
Sus scrofa Pig [6]		Species or species habitat likely to occur within area
Vulpes vulpes Red Fox, Fox [18]		Species or species habitat likely to occur within area
Dianta		,
Plants Acacia nilotica subsp. indica		
Prickly Acacia [6196]		Species or species habitat may occur within area
Lantana camara Lantana, Common Lantana, Kamara Lantana, Large- leaf Lantana, Pink Flowered Lantana, Red Flowered Lantana, Red-Flowered Sage, White Sage, Wild Sage [10892]		Species or species habitat likely to occur within area
Lycium ferocissimum		
African Boxthorn, Boxthorn [19235]		Species or species habitat likely to occur within area
Opuntia spp.		
Prickly Pears [82753]		Species or species habitat likely to occur within area
Parkinsonia aculeata Parkinsonia, Jerusalem Thorn, Jelly Bean Tree, Horse Bean [12301]		Species or species habitat likely to occur within area
Parthenium hysterophorus Parthenium Weed, Bitter Weed, Carrot Grass, False Ragweed [19566]		Species or species habitat likely to occur within area
Prosopis spp.		
Mesquite, Algaroba [68407]		Species or species habitat likely to occur within area
Senecio madagascariensis		
Fireweed, Madagascar Ragwort, Madagascar Groundsel [2624]		Species or species habitat likely to occur within area
Reptiles		
Hemidactylus frenatus Asian House Gecko [1708]		Species or species habitat likely to occur within area

#### Caveat

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

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

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

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

Threatened, migratory and marine species distributions have been derived through a variety of methods. Where distributions are well known and if time permits, maps are derived using either thematic spatial data (i.e. vegetation, soils, geology, elevation, aspect, terrain, etc) together with point locations and described habitat; or environmental modelling (MAXENT or BIOCLIM habitat modelling) using point locations and environmental data layers.

Where very little information is available for species or large number of maps are required in a short time-frame, maps are derived either from 0.04 or 0.02 decimal degree cells; by an automated process using polygon capture techniques (static two kilometre grid cells, alpha-hull and convex hull); or captured manually or by using topographic features (national park boundaries, islands, etc). In the early stages of the distribution mapping process (1999-early 2000s) distributions were defined by degree blocks, 100K or 250K map sheets to rapidly create distribution maps. More reliable distribution mapping methods are used to update these distributions as time permits.

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

- migratory and
- marine

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

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

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

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

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

### Coordinates

-26.454 149.02,-26.59 149.03,-26.618 149.47,-26.465 149.44,-26.454 149.02

## Acknowledgements

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

- -Office of Environment and Heritage, New South Wales
- -Department of Environment and Primary Industries, Victoria
- -Department of Primary Industries, Parks, Water and Environment, Tasmania
- -Department of Environment, Water and Natural Resources, South Australia
- -Department of Land and Resource Management, Northern Territory
- -Department of Environmental and Heritage Protection, Queensland
- -Department of Parks and Wildlife, Western Australia
- -Environment and Planning Directorate, ACT
- -Birdlife Australia
- -Australian Bird and Bat Banding Scheme
- -Australian National Wildlife Collection
- -Natural history museums of Australia
- -Museum Victoria
- -Australian Museum
- -South Australian Museum
- -Queensland Museum
- -Online Zoological Collections of Australian Museums
- -Queensland Herbarium
- -National Herbarium of NSW
- -Royal Botanic Gardens and National Herbarium of Victoria
- -Tasmanian Herbarium
- -State Herbarium of South Australia
- -Northern Territory Herbarium
- -Western Australian Herbarium
- -Australian National Herbarium, Canberra
- -University of New England
- -Ocean Biogeographic Information System
- -Australian Government, Department of Defence
- Forestry Corporation, NSW
- -Geoscience Australia
- -CSIRO
- -Australian Tropical Herbarium, Cairns
- -eBird Australia
- -Australian Government Australian Antarctic Data Centre
- -Museum and Art Gallery of the Northern Territory
- -Australian Government National Environmental Science Program
- -Australian Institute of Marine Science
- -Reef Life Survey Australia
- -American Museum of Natural History
- -Queen Victoria Museum and Art Gallery, Inveresk, Tasmania
- -Tasmanian Museum and Art Gallery, Hobart, Tasmania
- -Other groups and individuals

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

Please feel free to provide feedback via the Contact Us page.

Appendix B
WildNet Database Search



#### Wildlife Online Extract

Search Criteria: Species List for a Specified Point

Species: All Type: All

Status: All

Records: All

Date: All

Latitude: -26.519 Longitude: 149.192

Distance: 30

Email: adaniel@terrestria.com.au

Date submitted: Wednesday 16 Jun 2021 12:15:36 Date extracted: Wednesday 16 Jun 2021 12:20:02

The number of records retrieved = 782

#### **Disclaimer**

As the DSITIA is still in a process of collating and vetting data, it is possible the information given is not complete. The information provided should only be used for the project for which it was requested and it should be appropriately acknowledged as being derived from Wildlife Online when it is used.

The State of Queensland does not invite reliance upon, nor accept responsibility for this information. Persons should satisfy themselves through independent means as to the accuracy and completeness of this information.

No statements, representations or warranties are made about the accuracy or completeness of this information. The State of Queensland disclaims all responsibility for this information and all liability (including without limitation, liability in negligence) for all expenses, losses, damages and costs you may incur as a result of the information being inaccurate or incomplete in any way for any reason.

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animals birds Accipitridae Aquila audax wedge-tailed eagle C 10 animals birds Accipitridae Milvus migrans black kite C 2 animals birds Aegothelidae Aegotheles cristatus Australian owlet-nightjar C 6							С		1
animals birds Accipitridae <i>Milvus migrans</i> black kite C 2 animals birds Aegothelidae <i>Aegotheles cristatus</i> Australian owlet-nightjar C 6									10
animals birds Aegothelidae <i>Aegotheles cristatus</i> Australian owlet-nightjar C 6							C		
animals birds Alaudidae <i>Mirafra javanica</i> Horsfield's bushlark C 2 animals birds Anatidae <i>Cvanus atratus</i> black swan C 1							С		
animals birds Anatidae <i>Cvanus atratus</i> black swan C 1							Č		
	animals	birds	Anatidae	Cygnus atratus	black swan		Č		_ 1
animals birds Anatidae <i>Biziura lobata</i> musk duck C 1							С		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
animals	birds	Anatidae	Anas gracilis	grey teal		С		4
animals	birds	Anatidae	Dendrocygna eytoni	plumed whistling-duck		С		2
animals	birds	Anatidae	Chenonetta jubata	Australian wood duck		С		3
animals	birds	Anatidae	Anas superciliosa	Pacific black duck		С		14
animals	birds	Anhingidae	Anhinga novaehollandiae	Australasian darter		С		4
animals	birds	Ardeidae	Egretta novaehollandiae	white-faced heron		С		3
animals	birds	Ardeidae	Ardea alba modesta	eastern great egret		С		5
animals	birds	Ardeidae	Ardea intermedia	intermediate egret		С		1
animals	birds	Ardeidae	Ardea pacifica	white-necked heron		С		6
animals	birds	Ardeidae	Nycticorax caledonicus	nankeen night-heron		С		2
animals	birds	Artamidae	Cracticus torquatus	grey butcherbird		С		41
animals	birds	Artamidae	Strepera graculina	pied currawong		С		15
animals	birds	Artamidae	Gymnorhina tibicen	Australian magpie		С		29
animals	birds	Artamidae	Artamus personatus	masked woodswallow		С		2
animals	birds	Artamidae	Artamus cyanopterus	dusky woodswallow		С		1
animals	birds	Artamidae	Cracticus nigrogularis	pied butcherbird		С		22
animals	birds	Artamidae	Artamus superciliosus	white-browed woodswallow		С		4
animals	birds	Artamidae	Artamus leucorynchus	white-breasted woodswallow		С		6
animals	birds	Artamidae	Artamus cinereus	black-faced woodswallow		С		1
animals	birds	Cacatuidae	Cacatua galerita	sulphur-crested cockatoo		С		11
animals	birds	Cacatuidae	Cacatua sanguinea	little corella		С		2
animals	birds	Cacatuidae	Eolophus roseicapilla	galah		С		34
animals	birds	Cacatuidae	Nymphicus hollandicus	cockatiel		С		13
animals	birds	Cacatuidae	Calyptorhynchus lathami lathami	glossy black-cockatoo (eastern)		V		2
animals	birds	Campephagidae	Coracina maxima	ground cuckoo-shrike		С		3
animals	birds	Campephagidae	Lalage tricolor	white-winged triller		С		2
animals	birds	Campephagidae	Coracina novaehollandiae	black-faced cuckoo-shrike		С		6
animals	birds	Campephagidae	Coracina tenuirostris	cicadabird		С		2
animals	birds	Casuariidae	Dromaius novaehollandiae	emu		С		4
animals	birds	Charadriidae	Vanellus miles novaehollandiae	masked lapwing (southern subspecies)		С		4
animals	birds	Charadriidae	Vanellus tricolor	banded lapwing		С		2
animals	birds	Charadriidae	Vanellus miles	masked lapwing		С		4
animals	birds	Ciconiidae	Ephippiorhynchus asiaticus	black-necked stork		С		1
animals	birds	Climacteridae	Cormobates leucophaea	white-throated treecreeper		С		1
animals	birds	Columbidae	Geopelia humeralis	bar-shouldered dove		С		3
animals	birds	Columbidae	Ocyphaps lophotes	crested pigeon		С		23
animals	birds	Columbidae	Columba livia	rock dove	Υ			2
animals	birds	Columbidae	Geopelia cuneata	diamond dove		С		1
animals	birds	Columbidae	Phaps chalcoptera	common bronzewing		С		3
animals	birds	Columbidae	Geopelia striata	peaceful dove		С		5
animals	birds	Coraciidae	Eurystomus orientalis	dollarbird		С		3
animals	birds	Corcoracidae	Corcorax melanorhamphos	white-winged chough		С		4
animals	birds	Corcoracidae	Struthidea cinerea	apostlebird		С		22
animals	birds	Corvidae	Corvus sp.	·		С		2
animals	birds	Corvidae	Corvus orru	Torresian crow		С		33
animals	birds	Corvidae	Corvus coronoides	Australian raven		С		23

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
animals	birds	Cuculidae	Eudynamys orientalis	eastern koel		С		1
animals	birds	Cuculidae	Cacomantis variolosus	brush cuckoo		С		1
animals	birds	Cuculidae	Centropus phasianinus	pheasant coucal		С		3
animals	birds	Cuculidae	Cacomantis pallidus	pallid cuckoo		С		1
animals	birds	Cuculidae	Chalcites basalis	Horsfield's bronze-cuckoo		С		2
animals	birds	Cuculidae	Chalcites lucidus	shining bronze-cuckoo		С		2
animals	birds	Cuculidae	Chalcites osculans	black-eared cuckoo		С		1
animals	birds	Cuculidae	Cacomantis flabelliformis	fan-tailed cuckoo		С		2
animals	birds	Estrildidae	Neochmia modesta	plum-headed finch		С		3
animals	birds	Estrildidae	Taeniopygia guttata	zebra finch		С		2
animals	birds	Estrildidae	Taeniopygia bichenovii	double-barred finch		С		3
animals	birds	Eurostopodidae	Eurostopodus mystacalis	white-throated nightjar		С		1
animals	birds	Eurostopodidae	Eurostopodus argus	spotted nightjar		С		1
animals	birds	Falconidae	Falco berigora	brown falcon		С		4
animals	birds	Falconidae	Falco longipennis	Australian hobby		С		1
animals	birds	Falconidae	Falco cenchroides	nankeen kestrel		С		10
animals	birds	Falconidae	Falco subniger	black falcon		С		1
animals	birds	Gruidae	Antigone rubicunda	brolga		С		2
animals	birds	Halcyonidae	Dacelo novaeguineae	laughing kookaburra		С		19
animals	birds	Halcyonidae	Todiramphus sanctus	sacred kingfisher		С		3
animals	birds	Hirundinidae	Petrochelidon ariel	fairy martin		С		3
animals	birds	Hirundinidae	Hirundo neoxena	welcome swallow		С		4
animals	birds	Hirundinidae	Petrochelidon nigricans	tree martin		С		1
animals	birds	Maluridae	Malurus melanocephalus	red-backed fairy-wren		С		2
animals	birds	Maluridae	Malurus leucopterus	white-winged fairy-wren		С		2
animals	birds	Maluridae	Malurus cyaneus	superb fairy-wren		С		5
animals	birds	Maluridae	Malurus lamberti sensu lato	variegated fairy-wren		С		8
animals	birds	Megaluridae	Cincloramphus cruralis	brown songlark		С		3
animals	birds	Megaluridae	Cincloramphus mathewsi	rufous songlark		С		6
animals	birds	Megapodiidae	Alectura lathami	Australian brush-turkey		С		1
animals	birds	Meliphagidae	Melithreptus gularis	black-chinned honeyeater		С		1
animals	birds	Meliphagidae	Philemon corniculatus	noisy friarbird		С		7
animals	birds	Meliphagidae	Ptilotula penicillata	white-plumed honeyeater		С		2
animals	birds	Meliphagidae	Manorina melanocephala	noisy miner		С		41
animals	birds	Meliphagidae	Philemon citreogularis	little friarbird		С		6
animals	birds	Meliphagidae	Acanthagenys rufogularis	spiny-cheeked honeyeater		С		5
animals	birds	Meliphagidae	Melithreptus albogularis	white-throated honeyeater		С		1
animals	birds	Meliphagidae	Plectorhyncha lanceolata	striped honeyeater		С		13
animals	birds	Meliphagidae	Melithreptus brevirostris	brown-headed honeyeater		С		1
animals	birds	Meliphagidae	Lichmera indistincta	brown honeyeater		С		2
animals	birds	Meliphagidae	Epthianura tricolor	crimson chat		С		2
animals	birds	Meliphagidae	Phylidonyris niger	white-cheeked honeyeater		С		1
animals	birds	Meliphagidae	Manorina flavigula	yellow-throated miner		С		6
animals	birds	Meliphagidae	Entomyzon cyanotis	blue-faced honeyeater		С		9
animals	birds	Meliphagidae	Caligavis chrysops	yellow-faced honeyeater		С		3
animals	birds	Meliphagidae	Meliphaga lewinii	Lewin's honeyeater		С		1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
animals	birds	Meliphagidae	Nesoptilotis leucotis	white-eared honeyeater		С		5
animals	birds	Meropidae	Merops ornatus	rainbow bee-eater		С		4
animals	birds	Monarchidae	Grallina cyanoleuca	magpie-lark		С		39
animals	birds	Monarchidae	Myiagra inquieta	restless flycatcher		С		3
animals	birds	Monarchidae	Myiagra rubecula	leaden flycatcher		С		3
animals	birds	Motacillidae	Anthus novaeseelandiae	Australasian pipit		С		4
animals	birds	Nectariniidae	Dicaeum hirundinaceum	mistletoebird		С		8
animals	birds	Neosittidae	Daphoenositta chrysoptera	varied sittella		С		6
animals	birds	Oriolidae	Oriolus sagittatus	olive-backed oriole		С		7
animals	birds	Oriolidae	Sphecotheres vieilloti	Australasian figbird		С		1
animals	birds	Otididae	Ardeotis australis	Australian bustard		С		8
animals	birds	Pachycephalidae	Pachycephala rufiventris	rufous whistler		С		17
animals	birds	Pachycephalidae	Colluricincla harmonica	grey shrike-thrush		С		11
animals	birds	Pardalotidae	Pardalotus striatus	striated pardalote		С		25
animals	birds	Pelecanidae	Pelecanus conspicillatus	Australian pelican		С		3
animals	birds	Petroicidae	Microeca fascinans	jacky winter		С		8
animals	birds	Petroicidae	Eopsaltria australis	eastern yellow robin		С		8
animals	birds	Petroicidae	Petroica goodenovii	red-capped robin		С		7
animals	birds	Phalacrocoracidae	Phalacrocorax carbo	great cormorant		С		1
animals	birds	Phalacrocoracidae	Microcarbo melanoleucos	little pied cormorant		С		4
animals	birds	Phalacrocoracidae	Phalacrocorax sulcirostris	little black cormorant		С		5
animals	birds	Phasianidae	Coturnix pectoralis	stubble quail		С		1
animals	birds	Phasianidae	Coturnix ypsilophora	brown quail		С		2
animals	birds	Podargidae	Podargus strigoides	tawny frogmouth		С		3
animals	birds	Podicipedidae	Tachybaptus novaehollandiae	Australasian grebe		С		4
animals	birds	Pomatostomidae	Pomatostomus superciliosus	white-browed babbler		С		1
animals	birds	Pomatostomidae	Pomatostomus temporalis	grey-crowned babbler		С		30
animals	birds	Psittacidae	Platycercus adscitus	pale-headed rosella		С		17
animals	birds	Psittacidae	Psephotus haematonotus	red-rumped parrot		С		7
animals	birds	Psittacidae	Northiella haematogaster	blue bonnet		С		1
animals	birds	Psittacidae	Barnardius zonarius	Australian ringneck		С		2
animals	birds	Psittacidae	Aprosmictus erythropterus	red-winged parrot		С		14
animals	birds	Psittacidae	Trichoglossus moluccanus	rainbow lorikeet		С		4
animals	birds	Psittacidae	Trichoglossus chlorolepidotus	scaly-breasted lorikeet		С		5
animals	birds	Psittacidae	Alisterus scapularis	Australian king-parrot		С		1
animals	birds	Ptilonorhynchidae	Ptilonorhynchus maculatus	spotted bowerbird		С		2
animals	birds	Rallidae	Gallinula tenebrosa	dusky moorhen		С		1
animals	birds	Recurvirostridae	Himantopus himantopus	black-winged stilt		С		1
animals	birds	Rhipiduridae	Rhipidura leucophrys	willie wagtail		С		18
animals	birds	Rhipiduridae	Rhipidura albiscapa	grey fantail		С		18
animals	birds	Sturnidae	Sturnus vulgaris	common starling	Υ			1
animals	birds	Threskiornithidae	Platalea regia	royal spoonbill		С		2
animals	birds	Threskiornithidae	Threskiornis molucca	Australian white ibis		C		4
animals	birds	Threskiornithidae	Threskiornis spinicollis	straw-necked ibis		С		2
animals	birds	Threskiornithidae	Platalea flavipes	yellow-billed spoonbill		C		3
animals	birds	Timaliidae	Zosterops lateralis	silvereye		С		2

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
animals	birds	Turnicidae	Turnix sp.			С		1/1
animals	insects	Pieridae	Catopsilia pomona	lemon migrant				1
animals	mammals	Bovidae	Bos taurus	European cattle	Υ			2
animals	mammals	Dasyuridae	Sminthopsis crassicaudata	fat-tailed dunnart		С		15
animals	mammals	Dasyuridae	Planigale maculata	common planigale		С		8
animals	mammals	Dasyuridae	Sminthopsis murina	common dunnart		С		10
animals	mammals	Dasyuridae	Sminthopsis macroura	stripe-faced dunnart		С		42
animals	mammals	Dasyuridae	Planigale tenuirostris	narrow-nosed planigale		С		11
animals	mammals	Emballonuridae	Saccolaimus flaviventris	yellow-bellied sheathtail bat		С		2
animals	mammals	Leporidae	Oryctolagus cuniculus	rabbit	Υ			4
animals	mammals	Leporidae	Lepus europaeus	European brown hare	Υ			5
animals	mammals	Macropodidae	Wallabia bicolor	swamp wallaby		С		5
animals	mammals	Macropodidae	Macropus giganteus	eastern grey kangaroo		С		9
animals	mammals	Macropodidae	Osphranter robustus	common wallaroo		С		1
animals	mammals	Macropodidae	Notamacropus dorsalis	black-striped wallaby		С		1
animals	mammals	Macropodidae	Notamacropus rufogriseus	red-necked wallaby		С		7
animals	mammals	Molossidae	Austronomus australis	white-striped freetail bat		С		3
animals	mammals	Molossidae	Mormopterus petersi	inland free-tailed bat		С		1
animals	mammals	Muridae	Mus musculus	house mouse	Υ			27
animals	mammals	Muridae	Rattus tunneyi	pale field-rat		С		1
animals	mammals	Muridae	Pseudomys delicatulus	delicate mouse		С		1
animals	mammals	Muridae	Pseudomys gracilicaudatus	eastern chestnut mouse		C		1
animals	mammals	Petauridae	Petaurus notatus	Krefft's glider		С		3
animals	mammals	Phalangeridae	Trichosurus vulpecula	common brushtail possum		С		14
animals	mammals	Phascolarctidae	Phascolarctos cinereus	koala		V	V	2
animals	mammals	Pteropodidae	Pteropus scapulatus	little red flying-fox		C		2
animals	mammals	Tachyglossidae	Tachyglossus aculeatus	short-beaked echidna		SL		17
animals	mammals	Vespertilionidae	Vespadelus vulturnus	little forest bat		С		1
animals	mammals	Vespertilionidae	Nyctophilus sp.			С		1
animals	mammals	Vespertilionidae	Chalinolobus gouldii	Gould's wattled bat		С		2
animals	mammals	Vespertilionidae	Chalinolobus picatus	little pied bat		С		1
animals	mammals	Vespertilionidae	Scotorepens balstoni	inland broad-nosed bat		С		2
animals	ray-finned fishes	Clupeidae	Nematalosa erebi	bony bream				8
animals	ray-finned fishes	Cyprinidae	Carassius auratus	<u>g</u> oldfish	Y			6
animals	ray-finned fishes	Cyprinidae	Cyprinus carpio	European carp	Υ			3
animals	ray-finned fishes	Eleotridae	Hypseleotris sp.	M' lala la sanca da ca				11
animals	ray-finned fishes	Eleotridae	Hypseleotris species 1	Midgley's carp gudgeon				1
animals	ray-finned fishes	Eleotridae	Hypseleotris klunzingeri	western carp gudgeon				2
animals	ray-finned fishes	Melanotaeniidae	Melanotaenia fluviatilis	Murray River rainbowfish				6
animals	ray-finned fishes	Percichthyidae	Macquaria ambigua	golden perch				2
animals	ray-finned fishes	Plotosidae	Tandanus tandanus	freshwater catfish	V			1
animals	ray-finned fishes	Poeciliidae	Gambusia holbrooki	mosquitofish	Υ			8
animals	ray-finned fishes	Retropinnidae	Retropinna semoni	Australian smelt				1
animals	ray-finned fishes	Terapontidae	Leiopotherapon unicolor	spangled perch		<u></u>		11 4
animals	reptiles	Agamidae	Amphibolurus burnsi	Burns's dragon		C		•
animals	reptiles	Agamidae	Pogona barbata	bearded dragon		С		119/2

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
animals	reptiles	Boidae	Aspidites ramsayi	woma		NT		11
animals	reptiles	Boidae	Antaresia maculosa	spotted python		С		12
animals	reptiles	Boidae	Morelia spilota	carpet python		С		7
animals	reptiles	Chelidae	Emydura macquarii macquarii	Murray turtle		С		1
animals	reptiles	Chelidae	Chelodina longicollis	eastern snake-necked turtle		С		31
animals	reptiles	Colubridae	Boiga irregularis	brown tree snake		С		1/1
animals	reptiles	Colubridae	Dendrelaphis punctulatus	green tree snake		С		2
animals	reptiles	Diplodactylidae	Diplodactylus tessellatus	tessellated gecko		С		19
animals	reptiles	Diplodactylidae	Lucasium steindachneri	Steindachner's gecko		С		6/1
animals	reptiles	Diplodactylidae	Diplodactylus vittatus	wood gecko		С		4
animals	reptiles	Diplodactylidae	Strophurus taenicauda	golden-tailed gecko		NT		14
animals	reptiles	Diplodactylidae	Oedura monilis sensu lato	ocellated velvet gecko		С		8
animals	reptiles	Diplodactylidae	Nebulifera robusta	robust velvet gecko		С		6
animals	reptiles	Diplodactylidae	Amalosia rhombifer	zig-zag gecko		С		1
animals	reptiles	Diplodactylidae	Oedura elegans	elegant velvet gecko		С		23/2
animals	reptiles	Diplodactylidae	Rhynchoedura ormsbyi	eastern beaked gecko		С		3/1
animals	reptiles	Elapidae	Pseudechis porphyriacus	red-bellied black snake		С		1
animals	reptiles	Elapidae	Brachyurophis australis	coral snake		С		4
animals	reptiles	Elapidae	Acanthophis antarcticus	common death adder		V		2/1
animals	reptiles	Elapidae	Cryptophis nigrescens	eastern small-eyed snake		С		3
animals	reptiles	Elapidae	Pseudechis australis	king brown snake		С		15
animals	reptiles	Elapidae	Vermicella annulata	bandy-bandy		C		3/1
animals	reptiles	Elapidae	Pseudonaja textilis	eastern brown snake		С		34
animals	reptiles	Elapidae	Pseudechis guttatus	spotted black snake		С		3/1
animals	reptiles	Elapidae	Demansia psammophis	yellow-faced whipsnake		C		20
animals	reptiles	Elapidae	Hoplocephalus bitorquatus	pale-headed snake		С		7
animals	reptiles	Elapidae	Suta suta	myall snake		С		75/1
animals	reptiles	Elapidae	Suta dwyeri	Dwyer's snake		С		15/2
animals	reptiles	Elapidae	Furina diadema	red-naped snake		С		14/2
animals	reptiles	Elapidae	Denisonia devisi	De Vis' banded snake		С		36/3
animals	reptiles	Elapidae	Cacophis harriettae	white-crowned snake		C		2/1
animals	reptiles	Elapidae	Cryptophis boschmai	Carpentaria whip snake		C		5/1
animals	reptiles	Gekkonidae	Gehyra dubia	dubious dtella		С		163/4
animals	reptiles	Gekkonidae	Heteronotia binoei	Bynoe's gecko		C		103
animals	reptiles	Gekkonidae	Gehyra versicolor	,		C		8
animals	reptiles	Pygopodidae	Delma plebeia	common delma		Č		7/1
animals	reptiles	Pygopodidae	Lialis burtonis	Burton's legless lizard		Č		6/1
animals	reptiles	Pygopodidae	Delma tincta	excitable delma		Č		2
animals	reptiles	Pygopodidae	Pygopus schraderi	eastern hooded scaly-foot		Č		_ 5/1
animals	reptiles	Pygopodidae	Paradelma orientalis	brigalow scaly-foot		Č		10
animals	reptiles	Pygopodidae	Delma sp.	anganan atany taon		Č		1
animals	reptiles	Scincidae	Anomalopus leuckartii	two-clawed worm-skink		Č		12/1
animals	reptiles	Scincidae	Morethia taeniopleura	fire-tailed skink		č		2
animals	reptiles	Scincidae	Pygmaeascincus timlowi	dwarf litter-skink		Č		2
animals	reptiles	Scincidae	Lerista punctatovittata	eastern robust slider		č		18/2
animals	reptiles	Scincidae	Cryptoblepharus pannosus	ragged snake-eyed skink		Č		7/1

Kingdom	Class	Family	Scientific Name	Common Name	Q	Α	Records
animals	reptiles	Scincidae	Eremiascincus fasciolatus	narrow-banded sand swimmer	С		6
animals	reptiles	Scincidae	Carlia pectoralis sensu lato		С		2
animals	reptiles	Scincidae	Cryptoblepharus pulcher pulcher	elegant snake-eyed skink	С		12
animals	reptiles	Scincidae	Carlia sp.		С		2
animals	reptiles	Scincidae	Lerista sp.		С		1
animals	reptiles	Scincidae	Ctenotus sp.		С		1
animals	reptiles	Scincidae	Egernia rugosa	yakka skink	V	V	2/1
animals	reptiles	Scincidae	Lerista timida	timid slider	С		7/1
animals	reptiles	Scincidae	Menetia greyii	common dwarf skink	С		5
animals	reptiles	Scincidae	Tiliqua rugosa	shingle-back	С		13
animals	reptiles	Scincidae	Ctenotus ingrami	unspotted yellow-sided ctenotus	С		9/1
animals	reptiles	Scincidae	Lerista fragilis	eastern mulch slider	С		16
animals	reptiles	Scincidae	Carlia pectoralis	open-litter rainbow skink	С		1
animals	reptiles	Scincidae	Egernia striolata	tree skink	С		10
animals	reptiles	Scincidae	Liopholis modesta	eastern ranges rock-skink	С		2
animals	reptiles	Scincidae	Ctenotus spaldingi	straight-browed ctenotus	С		26/1
animals	reptiles	Scincidae	Tiliqua scincoides	eastern blue-tongued lizard	С		52
animals	reptiles	Scincidae	Lygisaurus foliorum	tree-base litter-skink	С		13
animals	reptiles	Scincidae	Morethia boulengeri	south-eastern morethia skink	С		17/1
animals	reptiles	Scincidae	Ctenotus taeniolatus	copper-tailed skink	С		3
animals	reptiles	Typhlopidae	Anilios ligatus	robust blind snake	С		9/2
animals	reptiles	Typhlopidae	Anilios affinis	small-headed blind snake	С		2
animals	reptiles	Typhlopidae	Anilios wiedii	brown-snouted blind snake	С		3
animals	reptiles	Typhlopidae	Anilios proximus	proximus blind snake	С		2/1
animals	reptiles	Varanidae	Varanus tristis	black-tailed monitor	С		11
animals	reptiles	Varanidae	Varanus gouldii	sand monitor	С		9/1
animals	reptiles	Varanidae	Varanus varius	lace monitor	С		10/1
animals	reptiles	Varanidae	Varanus panoptes	yellow-spotted monitor	С		25
animals	uncertain	Indeterminate	Indeterminate	Unknown or Code Pending			2
fungi	arthoniomycetes	Chrysothricaceae	Chrysothrix xanthina	_	С		1/1
fungi	eurotiomycetes	Verrucariaceae	Placidium lacinulatum		С		2/2
fungi	eurotiomycetes	Verrucariaceae	Placidium squamulosum		C C		1/1
fungi	eurotiomycetes	Verrucariaceae	Endocarpon simplicatum		С		1/1
fungi	lecanoromycetes	Acarosporaceae	Acarospora citrina		С		3/3
fungi	lecanoromycetes	Caliciaceae	Buellia				1/1
fungi	lecanoromycetes	Caliciaceae	Buellia spuria var. spuria		С		2/2
fungi	lecanoromycetes	Caliciaceae	Amandinea punctata		С		1/1
fungi	lecanoromycetes	Caliciaceae	Pyxine subcinerea		С		3/3
fungi	lecanoromycetes	Caliciaceae	Buellia epigaella		С		1/1
fungi	lecanoromycetes	Caliciaceae	Pyxine petricola		С		1/1
fungi	lecanoromycetes	Caliciaceae	Buellia dispersa		С		1/1
fungi	lecanoromycetes		Cladia beaugleholei		C C		1/1
fungi	lecanoromycetes	Cladoniaceae	Cladia muelleri		C C		1/1
fungi	lecanoromycetes		Collema coccophorum		С		2/2
fungi	lecanoromycetes		Diploschistes euganeus		С		1/1
fungi		Graphidaceae	Diploschistes sticticus		С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
fungi	lecanoromycetes	Graphidaceae	Diploschistes actinostomus			С		2/2
fungi	lecanoromycetes		Lecanora pseudargentata			С		1/1
fungi	lecanoromycetes	Lecanoraceae	Lecanora pseudogangaleoides			С		1/1
fungi	lecanoromycetes	Lecanoraceae	Lecanora flavidomarginata			С		1/1
fungi	lecanoromycetes	Lecanoraceae	Lecanora helva			С		2/2
fungi	lecanoromycetes		Lecidea ochroleuca			С		1/1
fungi	lecanoromycetes	Ochrolechiaceae	Ochrolechia africana			С		1/1
fungi	lecanoromycetes		Physma ahtianum			С		2/2
fungi	lecanoromycetes		Xanthoparmelia consociata			С		1/1
fungi	lecanoromycetes		Austroparmelina subarida			C		1/1
fungi	lecanoromycetes	Parmeliaceae	Punctelia pseudocoralloidea			С		2/2
fungi	lecanoromycetes	Parmeliaceae	Austroparmelina conlabrosa			С		1/1
fungi	lecanoromycetes	Parmeliaceae	Xanthoparmelia exuviata			C		1/1
fungi	lecanoromycetes		Xanthoparmelia aridella			С		1/1
fungi	•		Xanthoparmelia incerta			C		1/1
fungi	lecanoromycetes		Xanthoparmelia hypoconstictica			С		1/1
fungi	lecanoromycetes		Punctelia subflava			С		1/1
fungi	lecanoromycetes	Parmeliaceae	Parmotrema subsumptum			C		1/1
fungi	lecanoromycetes		Parmotrema cristiferum			С		1/1
fungi	lecanoromycetes		Parmotrema reticulatum			С		1/1
fungi	lecanoromycetes		Pertusaria leucostomoides			С		1/1
fungi	lecanoromycetes		Pertusaria planaica			С		1/1
fungi	lecanoromycetes		Pertusaria clarkeana			С		1/1
fungi	lecanoromycetes	Pertusariaceae	Pertusaria thiospoda			С		1/1
fungi	lecanoromycetes	Physciaceae	Rinodina			_		1/1
fungi	lecanoromycetes	Physciaceae	Physcia nubila			С		1/1
fungi	lecanoromycetes	Physciaceae	Hyperphyscia pruinosa			С		2/2
fungi	lecanoromycetes	Physciaceae	Physcia jackii			С		1/1
fungi	lecanoromycetes		Physica populities			C		1/1
fungi	lecanoromycetes	Physciaceae	Physcia neonubila			С		1/1
fungi	lecanoromycetes	Physciaceae	Rinodina ramboldii			С		1/1
fungi fungi	lecanoromycetes		Psora crystallifera			C		1/1
fungi fungi	lecanoromycetes	Schaereriaceae	Schaereria xerophila			C		1/1 1/1
fungi fungi	lecanoromycetes	Teloschistaceae	Athallia cerinelloides					1/ 1 1/1
fungi fungi	lecanoromycetes	Teloschistaceae Teloschistaceae	Caloplaca yarraensis			C		1/1
fungi fungi	lecanoromycetes	Teloschistaceae	Caloplaca kaernefeltii			Ċ		1/1
fungi fungi	lecanoromycetes		Caloplaca rextilsonii			C		1/1
fungi fungi	lecanoromycetes		Caloplaca montisfracti			C		1/1
fungi fungi	lecanoromycetes lichinomycetes	Tephromelataceae Lichinaceae	Tephromela connivens Heppia			C		1/1
fungi fungi	lichinomycetes	Lichinaceae	Перріа Heppia lutosa			C		2/2
fungi fungi	lichinomycetes	Peltulaceae	Peltula patellata			C		1/1
fungi plants	land plants	Acanthaceae	Pseuderanthemum variabile	pastel flower		Č		1/1
plants	land plants	Acanthaceae	Brunoniella australis	blue trumpet		Č		4
plants	land plants	Acanthaceae	Dipteracanthus australasicus subsp. corynothecus	bide trumpet		Č		2/2
plants	land plants	Acanthaceae	Rostellularia adscendens var. adscendens			C		2

Kingdom	Class	Family	Scientific Name	Common Name	l	Q	Α	Records
plants	land plants	Aizoaceae	Tetragonia tetragonoides	New Zealand spinach		С		1/1
plants	land plants	Amaranthaceae	Nyssanthes erecta	·		С		3/2
plants	land plants	Amaranthaceae	Alternanthera nana	hairy joyweed		С		1/1
plants	land plants	Amaranthaceae	Ptilotus semilanatus	,,,		С		2/1
plants	land plants	Amaranthaceae	Gomphrena celosioides	gomphrena weed	Υ			1
plants	land plants	Apiaceae	Actinotus gibbonsii	dwarf flannel flower		С		1/1
plants	land plants	Apocynaceae	Leichhardtia viridiflora subsp. viridiflora			С		1/1
plants	land plants	Apocynaceae	Parsonsia eucalyptophylla .	gargaloo		С		3/3
plants	land plants	Apocynaceae	Parsonsia lanceolata	northern silkpod		С		2/2
plants	land plants	Apocynaceae	Alstonia constricta	bitterbark .		С		1
plants	land plants	Apocynaceae	Orbea variegata		Υ			1/1
plants	land plants	Araliaceae	Astrotricha biddulphiana			С		1/1
plants	land plants	Asphodelaceae	Aloe maculata <sup>'</sup>		Υ			2/2
plants	land plants	Asteraceae	Calotis lappulacea	yellow burr daisy		С		1
plants	land plants	Asteraceae	Erigeron canadensis	,	Υ			2/2
plants	land plants	Asteraceae	Minuria integerrima	smooth minuria		С		1/1
plants	land plants	Asteraceae	Erigeron bonariensis		Υ			1/1
plants	land plants	Asteraceae	Gamochaeta antillana		Υ			1/1
plants	land plants	Asteraceae	Hypochaeris radicata	catsear	Υ			2/2
plants	land plants	Asteraceae	Leiocarpa brevicompta			С		2/2
plants	land plants	Asteraceae	Podolepis longipedata	tall copper-wire daisy		С		1/1
plants	land plants	Asteraceae	Senecio brigalowensis			С		3/3
plants	land plants	Asteraceae	Pycnosorus chrysanthus	golden billy buttons		С		2/2
plants	land plants	Asteraceae	Senecio quadridentatus	cotton fireweed		C C		1/1
plants	land plants	Asteraceae	Sigesbeckia orientalis	Indian weed		C		1
plants	land plants	Asteraceae	Ozothamnus cassinioides			С		1/1
plants	land plants	Asteraceae	Ozothamnus diotophyllus			000000000		3/3
plants	land plants	Asteraceae	Chrysocephalum apiculatum	yellow buttons		С		2/1
plants	land plants	Asteraceae	Pseudognaphalium luteoalbum	Jersey cudweed		С		1/1
plants	land plants	Asteraceae	Olearia canescens subsp. discolor	,		С		1/1
plants	land plants	Asteraceae	Vittadinia dissecta var. dissecta			С		1/1
plants	land plants	Asteraceae	Coronidium oxylepis subsp. lanatum			С		2/2
plants	land plants	Asteraceae	Olearia canescens subsp. canescens			С		1/1
plants	land plants	Asteraceae	Rhodanthe diffusa subsp. leucactina			С		1/1
plants	land plants	Asteraceae	Brachyscome whitei subsp. lophoptera			C C		1/1
plants	land plants	Asteraceae	Leiocarpa semicalva subsp. tenuifolia			С		2/2
plants	land plants	Asteraceae	Xerochrysum bracteatum subsp. (Port			С		1/1
•	•		Keats C.Dunlop+ 6459)					
plants	land plants	Asteraceae	Calotis cuneifolia	burr daisy		С		2/2
plants	land plants	Asteraceae	Picris barbarorum	·		V		1/1
plants	land plants	Asteraceae	Camptacra barbata			С		1/1
plants	land plants	Asteraceae	Bidens pilosa		Υ			1
plants	land plants	Asteraceae	Rhodanthe moschata			С		1/1
plants	land plants	Asteraceae	Eclipta platyglossa					1/1
plants	land plants	Boraginaceae	Cynoglossum australe			C C		1/1
plants	land plants	Brassicaceae	Rorippa eustylis			С		1/1
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Kingdom	Class	Family	Scientific Name	Common Name	<u> </u>	Q	Α	Records
plants	land plants	Brassicaceae	Cardamine hirsuta	common bittercress	Υ			1/1
plants	land plants	Brassicaceae	Stenopetalum nutans			С		2/2
plants	land plants	Brassicaceae	Lepidium					1/1
plants	land plants	Brassicaceae	Arabidella eremigena			С		3/3
plants	land plants	Brassicaceae	Lepidium fasciculatum	fascicled peppercress		С		1/1
plants	land plants	Brassicaceae	Stenopetalum lineare			С		1/1
plants	land plants	Byttneriaceae	Seringia collina			С		1/1
plants	land plants	Byttneriaceae	Commersonia pedleyi			С		3/3
plants	land plants	Byttneriaceae	Seringia corollata			С		1/1
plants	land plants	Byttneriaceae	Seringia hookeriana			С		2/2
plants	land plants	Cactaceae	Opuntia stricta		Υ			4
plants	land plants	Cactaceae	Opuntia sulphurea		Υ			2/2
plants	land plants	Cactaceae	Opuntia tomentosa	velvety tree pear	Υ			5/1
plants	land plants	Caesalpiniaceae	Senna circinnata			С		1/1
plants	land plants	Caesalpiniaceae	Senna sophera var. (40Mile Scrub J.R.Clarkson+6908)			С		1/1
plants	land plants	Caesalpiniaceae	Senna artemisioides subsp. artemisioides			С		1/1
plants	land plants	Caesalpiniaceae	Petalostylis labicheoides			С		1/1
plants	land plants	Caesalpiniaceae	Erythrostemon gilliesii		Υ			1/1
plants	land plants	Caesalpiniaceae	Senna coronilloides			С		1/1
plants	land plants	Caesalpiniaceae	Chamaecrista nomame			С		1/1
plants	land plants	Caesalpiniaceae	Senna pleurocarpa			С		1/1
plants	land plants	Caesalpiniaceae	Senna occidentalis	coffee senna	Υ			1/1
plants	land plants	Caesalpiniaceae	Senna planitiicola			С		1/1
plants	land plants	Campanulaceae	Wahlenbergia graniticola	granite bluebell		С		1
plants	land plants	Campanulaceae	Wahlenbergia gracilis	sprawling bluebell		C C		1/1
plants	land plants	Campanulaceae	Lobelia concolor	, ,		С		1/1
plants	land plants	Capparaceae	Capparis Ioranthifolia			С		1
plants	land plants	Capparaceae	Capparis mitchellii			С		1
plants	land plants	Caryophyllaceae	Gypsophila australis			C C		1/1
plants	land plants	Casuarinaceae	Allocasuarina luehmannii	bull oak		С		5
, plants	land plants	Chenopodiaceae	Enchylaena tomentosa var. tomentosa			C C		2/1
, plants	land plants	Chenopodiaceae	Sclerolaena muricata var. semiglabra			С		2/2
, plants	land plants	Chenopodiaceae	Chenopodium desertorum subsp. anidiophyllum			С		2/2
plants	land plants	Chenopodiaceae	Einadia hastata			С		1/1
, plants	land plants	Chenopodiaceae	Dysphania valida			C C		1/1
plants	land plants	Chenopodiaceae	Maireana coronata			С		1/1
plants	land plants	Chenopodiaceae	Salsola australis			С		3/1
plants	land plants	Chenopodiaceae	Sclerolaena birchii	galvanised burr		С		2/1
plants	land plants	Chenopodiaceae	Maireana microphylla	3		С		3/2
, plants	land plants	Chenopodiaceae	Sclerolaena convexula					2/2
plants	land plants	Chenopodiaceae	Sclerolaena diacantha	grey copper burr		Č		1/1
plants	land plants	Chenopodiaceae	Maireana enchylaenoides	3 , 11		С		2/2
plants	land plants	Chenopodiaceae	Sclerolaena tetracuspis	brigalow burr		С		1/1
plants	land plants	Chenopodiaceae	Einadia nutans subsp. nutans	5		00000		2/1
, plants	land plants	Chenopodiaceae	Einadia nutans subsp. linifolia			С		2

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plants	land plants	Chenopodiaceae	Sclerolaena bicornis var. horrida			С		2/2
plants	land plants	Chenopodiaceae	Einadia trigonos subsp. stellulata			С		1/1
plants	land plants	Commelinaceae	Aneilema sclerocarpum			C C		1/1
plants	land plants	Commelinaceae	Aneilema acuminatum			С		1/1
plants	land plants	Commelinaceae	Commelina diffusa	wandering jew		C C		3/2
plants	land plants	Convolvulaceae	Evolvulus alsinoides	· .		С		1/1
plants	land plants	Convolvulaceae	Evolvulus alsinoides var. decumbens			С		2/2
plants	land plants	Crassulaceae	Bryophyllum x houghtonii		Υ			2
plants	land plants	Crassulaceae	Bryophyllum delagoense		Υ			1/1
plants	land plants	Cucurbitaceae	Cucumis melo			С		1/1
plants	land plants	Cucurbitaceae	Sicyos australis	star cucumber		С		1/1
plants	land plants	Cupressaceae	Callitris glaucophylla	white cypress pine		С		53
plants	land plants	Cyperaceae	Eleocharis plana	ribbed spikerush		00000000000000000		1/1
plants	land plants	Cyperaceae	Cyperus dactylotes	•		С		1/1
plants	land plants	Cyperaceae	Eleocharis pallens	pale spikerush		С		1/1
plants	land plants	Cyperaceae	Schoenus centralis			С		1/1
plants	land plants	Cyperaceae	Scleria sphacelata			С		2/2
plants	land plants	Cyperaceae	Bulbostylis barbata			С		1/1
plants	land plants	Cyperaceae	Cyperus leptocarpus			С		1/1
plants	land plants	Cyperaceae	Cyperus perangustus			С		1/1
plants	land plants	Cyperaceae	Cyperus alterniflorus			С		1/1
plants	land plants	Cyperaceae	Cyperus sanguinolentus			С		1/1
plants	land plants	Cyperaceae	Fimbristylis dichotoma	common fringe-rush		С		1
plants	land plants	Cyperaceae	Eleocharis cylindrostachys	-		С		1/1
plants	land plants	Cyperaceae	Cyperus gunnii subsp. gunnii			С		1/1
plants	land plants	Cyperaceae	Cyperus betchei subsp. betchei			С		1/1
plants	land plants	Cyperaceae	Cyperus gracilis			С		3/1
plants	land plants	Cyperaceae	Schoenus kennyi			С		1/1
plants	land plants	Cyperaceae	Cyperus fulvus			С		1
plants	land plants	Cyperaceae	Cyperus iria			С		1/1
plants	land plants	Cyperaceae	Cyperus					2
plants	land plants	Cyperaceae	Cyperus castaneus			С		1/1
plants	land plants	Cyperaceae	Cyperus concinnus			CCC		1/1
plants	land plants	Cyperaceae	Abildgaardia ovata			С		1
plants	land plants	Dilleniaceae	Hibbertia sp. (Barakula V.Hando 122)			CCC		1/1
plants	land plants	Droseraceae	Drosera lunata			С		2/2
plants	land plants	Droseraceae	Drosera finlaysoniana					1/1
plants	land plants	Elatinaceae	Elatine gratioloides	waterwort		С		1/1
plants	land plants	Ericaceae	Styphelia mitchellii			С		4/4
plants	land plants	Euphorbiaceae	Croton phebalioides	narrow-leaved croton		С		2/2
plants	land plants	Euphorbiaceae	Euphorbia dallachyana			C		1
plants	land plants	Euphorbiaceae	Euphorbia papillifolia var. papillifolia			С		1/1
plants	land plants	Euphorbiaceae	Bertya oleifolia			С		3/3
plants	land plants	Euphorbiaceae	Acalypha eremorum	soft acalypha		С		1/1
plants	land plants	Fabaceae	Glycine	• •				2/2
plants	land plants	Fabaceae	Tephrosia sp. (Miriam Vale E.J.Thompson+ MIR33)			С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	I	Q	Α	Records
plants	land plants	Fabaceae	Glycine tabacina	glycine pea		С		3/1
plants	land plants	Fabaceae	Mirbelia pungens			С		1/1
plants	land plants	Fabaceae	Desmodium varians	slender tick trefoil		С		3/1
plants	land plants	Fabaceae	Rhynchosia minima			С		1
plants	land plants	Fabaceae	Swainsona luteola	dwarf darling pea		С		1/1
plants	land plants	Fabaceae	Glycine stenophita	•		С		1/1
plants	land plants	Fabaceae	Glycine tomentella	woolly glycine		00000		1
plants	land plants	Fabaceae	Glycine microphylla	, ,,		С		1/1
plants	land plants	Fabaceae	Indigofera brevidens			С		1/1
plants	land plants	Fabaceae	Desmodium brachypodum	large ticktrefoil		С		1
plants	land plants	Fabaceae	Desmodium campylocaulon	· ·		С		1/1
plants	land plants	Fabaceae	Templetonia stenophylla	leafy templetonia		С		1/1
plants	land plants	Fabaceae	Medicago minima var. minima	, ,	Υ			2/1
plants	land plants	Fabaceae	Rhynchosia minima var. minima			С		2/1
plants	land plants	Fabaceae	Glycine clandestina var. sericea			С		1
plants	land plants	Fabaceae	Rhynchosia minima var. australis			С		1
plants	land plants	Fabaceae	Vigna lanceolata var. lanceolata			С		2/2
plants	land plants	Fabaceae	Medicago laciniata var. laciniata		Υ			2/2
plants	land plants	Fabaceae	Zornia dyctiocarpa var. filifolia			С		1/1
plants	land plants	Fabaceae	Zornia muelleriana subsp. muelleriana			С		4/4
plants	land plants	Fabaceae	Crotalaria dissitiflora subsp. dissitiflora			С		1/1
plants	land plants	Fabaceae	Hovea longipes	brush hovea		C		3/3
plants	land plants	Goodeniaceae	Goodenia glabra			С		1/1
plants	land plants	Goodeniaceae	Goodenia delicata			С		2/2
plants	land plants	Goodeniaceae	Brunonia australis	blue pincushion		C		1/1
plants	land plants	Goodeniaceae	Scaevola spinescens	prickly fan flower		С		1/1
plants	land plants	Goodeniaceae	Goodenia rotundifolia			С		2/2
plants	land plants	Gyrostemonaceae	Codonocarpus attenuatus			C C		1/1
plants	land plants	Haloragaceae	Gonocarpus urceolatus			С		3/3
plants	land plants	Haloragaceae	Haloragis heterophylla	rough raspweed		C		1/1
plants	land plants	Hydrocharitaceae	Ottelia ovalifolia subsp. ovalifolia			С		1/1
plants	land plants	Juncaceae	Juncus usitatus			С		2/2
plants	land plants	Juncaceae	Juncus aridicola	tussock rush		С		2/2
plants	land plants	Juncaceae	Juncus subglaucus			С		2/2
plants	land plants	Juncaginaceae	Cycnogeton multifructus			С		1/1
plants	land plants	Lamiaceae	Stachys arvensis	stagger weed	Υ			3/3
plants	land plants	Lamiaceae	Teucrium junceum			С		2/1
plants	land plants	Lamiaceae	Marrubium vulgare	white horehound	Υ			1/1
plants	land plants	Lamiaceae	Teucrium daucoides			С		3/3
plants	land plants	Lamiaceae	Prostanthera sp. (Baking Board V.Hando 135)			С		2/2
plants	land plants	Lamiaceae	Prostanthera ringens			С		2/2
plants	land plants	Lamiaceae	Prostanthera parvifolia			С		2/2
plants	land plants	Lamiaceae	Prostanthera İithospermoides			С		1/1
plants	land plants	Lamiaceae	Teucrium puberulum			С		2/2
plants	land plants	Laxmanniaceae	Lomandra multiflora subsp. multiflora			C C		3/1
plants	land plants	Laxmanniaceae	Lomandra leucocephala subsp. leucocephala			С		1/1

Kingdom	Class	Family	Scientific Name	Common Name	l	Q	Α	Records
plants	land plants	Laxmanniaceae	Lomandra filiformis subsp. filiformis			С		1/1
plants	land plants	Laxmanniaceae	Lomandra filiformis			С		1/1
plants	land plants	Laxmanniaceae	Laxmannia gracilis	slender wire lily		С		1/1
plants	land plants	Laxmanniaceae	Laxmannia compacta	ŕ		С		1/1
plants	land plants	Loganiaceae	Mitrasacme paludosa			С		1/1
plants	land plants	Loranthaceae	Lysiana exocarpi subsp. tenuis			С		1/1
plants	land plants	Loranthaceae	Dendrophthoe glabrescens			CCCC		2/2
plants	land plants	Loranthaceae	Lysiana subfalcata			С		1/1
plants	land plants	Loranthaceae	Ámyema miquelii			С		3/3
plants	land plants	Lythraceae	Ammannia multiflora	jerry-jerry		C		1/1
plants	land plants	Malvaceae	Sida	J- 3 J- 3				1
plants	land plants	Malvaceae	Sida laevis			С		1/1
plants	land plants	Malvaceae	Sida corrugata			C		4/4
plants	land plants	Malvaceae	Sida platycalyx	lifesaver burr		Č		1/1
plants	land plants	Malvaceae	Hibiscus sturtii			Č		1/1
plants	land plants	Malvaceae	Malva parviflora	small-flowered mallow	Υ	•		1/1
plants	land plants	Malvaceae	Sida hackettiana		•	С		1/1
plants	land plants	Malvaceae	Abutilon oxycarpum			Č		4
plants	land plants	Malvaceae	Abutilon tubulosum			Č		2/2
plants	land plants	Malvaceae	Abutilon malvifolium	bastard marshmallow		Č		1/1
plants	land plants	Malvaceae	Abutilon calliphyllum	velvet lanternflower		Č		1/1
plants	land plants	Malvaceae	Abutilon oxycarpum var. incanum	volveriamento		C C		2/2
plants	land plants	Malvaceae	Abutilon oxycarpum var. oxycarpum			č		4/4
plants	land plants	Malvaceae	Abutilon tubulosum var. tubulosum			Č		1/1
plants	land plants	Malvaceae	Abutilon oxycarpum var. subsagittatum			č		2/2
plants	land plants	Malvaceae	Malvastrum americanum var. americanum		Υ	Ū		3/1
plants	land plants	Malvaceae	Sida sp. (Musselbrook M.B.Thomas+ MRS437)		•	С		1/1
plants	land plants	Marsileaceae	Marsilea hirsuta	hairy nardoo		č		1/1
plants	land plants	Mimosaceae	Acacia leiocalyx subsp. leiocalyx	Hally Hardeo		č		3/3
plants	land plants	Mimosaceae	Acacia loidealyx subsp. loidealyx Acacia buxifolia subsp. buxifolia			C		3/ 3 1
plants	land plants	Mimosaceae	Neptunia gracilis forma gracilis			C C		1
plants	land plants	Mimosaceae	Acacia aneura var. major			Č		1/1
plants	land plants	Mimosaceae	Acacia bancroftiorum			Č		1/1
plants	land plants	Mimosaceae	Acacia spectabilis	pilliga wattle		C C		3/3
plants	land plants	Mimosaceae	Acacia sparsiflora	pilliga wattie		Č		4/3
plants	land plants	Mimosaceae	Acacia sparsinora Acacia harpophylla	brigalow		Č		1/1
plants	land plants	Mimosaceae	Acacia nai poprijila Acacia polybotrya	western silver wattle		Č		1/ 1
•	•		Acacia concurrens	western silver wattle		Č		1
plants	land plants	Mimosaceae		handaa				1/1
plants	land plants	Mimosaceae	Acacia catenulata	bendee		C C		1/1
plants	land plants	Mimosaceae	Acacia leiocalyx	lancewood		0		1/1
plants	land plants	Mimosaceae	Acacia shirleyi			C		1/1
plants	land plants	Mimosaceae	Acacia salicina	doolan		$\sim$		4/2 1/1
plants	land plants	Mimosaceae	Acacia oswaldii	miljee		$\sim$		1/1
plants	land plants	Mimosaceae	Acacia conferta			$\sim$		4/4
plants	land plants	Mimosaceae	Acacia jucunda	Milee mulae		00000		2
plants	land plants	Mimosaceae	Acacia aprepta	Miles mulga		C		2/2

Kingdom	Class	Family	Scientific Name	Common Name		Q	Α	Records
plants	land plants	Mimosaceae	Acacia decora	pretty wattle		С		1/1
plants	land plants	Mimosaceae	Neptunia					3/3
plants	land plants	Myrtaceae	Eucalyptus crebra x Eucalyptus melanophloia			С		1/1
plants	land plants	Myrtaceae	Eucalyptus bakeri	Baker's mallee		С		2/2
plants	land plants	Myrtaceae	Eucalyptus tereticornis subsp. tereticornis			С		1/1
plants	land plants	Myrtaceae	Eucalyptus melanophloia x Eucalyptus populnea			000000		1/1
plants	land plants	Myrtaceae	Kardomia jucunda			С		1/1
plants	land plants	Myrtaceae	Eucalyptus sideroxylon subsp. sideroxylon			С		1
plants	land plants	Myrtaceae	Eucalyptus crebra x Eucalyptus populnea			С		3/3
plants	land plants	Myrtaceae	Eucalyptus fibrosa subsp. fibrosa			С		3
plants	land plants	Myrtaceae	Eucalyptus melanophloia			С		11
, plants	land plants	Myrtaceae	Backhousia angustifolia	narrow-leaved backhousia		С		1/1
plants	land plants	Myrtaceae	Eucalyptus chloroclada	Baradine red gum		C		4
plants	land plants	Myrtaceae	Eucalyptus thozetiana	3		000000		1/1
plants	land plants	Myrtaceae	Corymbia clarksoniana			C		2/1
plants	land plants	Myrtaceae	Micromyrtus sessilis			Č		4/4
plants	land plants	Myrtaceae	Corymbia tessellaris	Moreton Bay ash		Č		1
plants	land plants	Myrtaceae	Eucalyptus tenuipes	narrow-leaved white mahogany		Č		2/2
plants	land plants	Myrtaceae	Eucalyptus populnea	poplar box		C C		7
plants	land plants	Myrtaceae	Eucalyptus dealbata	tumble-down red gum		Č		2
plants	land plants	Myrtaceae	Eucalyptus coolabah	coolabah		Č		_ 1/1
plants	land plants	Myrtaceae	Corymbia intermedia	pink bloodwood		Č		2
plants	land plants	Myrtaceae	Angophora leiocarpa	rusty gum		CCCC		4
plants	land plants	Myrtaceae	Melaleuca uncinata	. act, gam		Č		1/1
plants	land plants	Myrtaceae	Eucalyptus exserta	Queensland peppermint		C C		3/2
plants	land plants	Myrtaceae	Eucalyptus crebra	narrow-leaved red ironbark		Č		7/1
plants	land plants	Myrtaceae	Eucalyptus melanophloia subsp. melanophloia	narow loaved roa nonbank		Č		2/2
plants	land plants	Nyctaginaceae	Boerhavia pubescens			C C		1/1
plants	land plants	Nyctaginaceae	Boerhavia dominii			Č		4
plants	land plants	Oleaceae	Notelaea microcarpa			č		3/3
plants	land plants	Oleaceae	Jasminum didymum subsp. racemosum			č		1/1
plants	land plants	Onagraceae	Oenothera indecora subsp. bonariensis		Υ	O		1
plants	land plants	Ophioglossaceae	Ophioglossum lusitanicum	adder's tongue	'	C		1/1
plants	land plants	Orchidaceae	Cymbidium canaliculatum	adder a torigue		C C		7
plants	land plants	Orchidaceae	Pterostylis			O		5/5
plants	land plants	Orobanchaceae	Buchnera					1/1
plants	land plants	Papaveraceae	Papaver somniferum subsp. setigerum		Υ			1/1
plants	land plants	Passifloraceae	Passiflora aurantia var. aurantia		Į.	С		1/1
plants	land plants	Pedaliaceae	Josephinia eugeniae	josephinia burr		_		1/1
plants	land plants	Phrymaceae	Glossostigma diandrum	Josephinia bun		C		1/1
plants	land plants	Phyllanthaceae	Phyllanthus maderaspatensis			Č		1/1
plants	land plants	Phyllanthaceae	Bridelia leichhardtii			C		1/1
plants	land plants	Phyllanthaceae	Flueggea leucopyrus			C		1/1
plants	land plants	Phyllanthaceae	Phyllanthus virgatus			C		2/1
plants	land plants	Phyllanthaceae	Phyllanthus gunnii			C		3/2
plants	land plants	Phyllanthaceae	Phyllanthus Phyllanthus			C		3/2 1/1
ριαιτιδ	ianu piants	гнупаншасеае	r nylianulus					1/ 1

Kingdom	Class	Family	Scientific Name	Common Name	1	Q	Α	Records
plants	land plants	Picrodendraceae	Petalostigma pubescens	quinine tree		С		1/1
plants	land plants	Pittosporaceae	Bursaria incana	·		С		1/1
plants	land plants	Plantaginaceae	Stemodia glabella			С		1/1
plants	land plants	Plantaginaceae	Veronica plebeia	trailing speedwell		C C		2/2
plants	land plants	Plantaginaceae	Plantago debilis	shade plantain		С		1/1
plants	land plants	Poaceae	Dinebra decipiens var. peacockii	•		C C		3/1
plants	land plants	Poaceae	Chloris divaricata var. divaricata	slender chloris		С		3
plants	land plants	Poaceae	Urochloa panicoides var. pubescens		Υ			1/1
plants	land plants	Poaceae	Megathyrsus maximus var. pubiglumis		Υ			1/1
plants	land plants	Poaceae	Bothriochloa decipiens var. decipiens			С		4
plants	land plants	Poaceae	Poa labillardierei var. labillardierei	tussock grass		С		2/2
plants	land plants	Poaceae	Aristida jerichoensis var. jerichoensis	<b>G</b>				1/1
plants	land plants	Poaceae	Aristida jerichoensis var. subspinulifera			000000		2
plants	land plants	Poaceae	Panicum queenslandicum var. queenslandicum			С		3/1
plants	land plants	Poaceae	Digitaria divaricatissima var. divaricatissima			С		3/3
plants	land plants	Poaceae	Eriachne mucronata forma (Alpha C.E.Hubbard 7882	2)		С		1/1
plants	land plants	Poaceae	Perotis rara	comet grass		С		2/2
plants	land plants	Poaceae	Eriachne rara	9		С		2/2
plants	land plants	Poaceae	Melinis repens	red natal grass	Υ			1
plants	land plants	Poaceae	Aristida ramosa	purple wiregrass		С		4/3
, plants	land plants	Poaceae	Panicum effusum	1 1 3				2/1
plants	land plants	Poaceae	Eriochloa crebra	spring grass		C		1/1
plants	land plants	Poaceae	Themeda avenacea	-1 9 9		C		1/1
, plants	land plants	Poaceae	Themeda triandra	kangaroo grass		000000		5/2
plants	land plants	Poaceae	Triraphis mollis	purple plumegrass		С		2/2
, plants	land plants	Poaceae	Urochloa foliosa	1 1 1 3		С		1
plants	land plants	Poaceae	Aristida echinata			C		2/1
plants	land plants	Poaceae	Astrebla lappacea	curly mitchell grass		С		1/1
, plants	land plants	Poaceae	Cenchrus ciliaris	, 3	Υ			3
plants	land plants	Poaceae	Cenchrus setaceus		Υ			15
plants	land plants	Poaceae	Digitaria diffusa			С		1/1
, plants	land plants	Poaceae	Eragrostis pilosa	soft lovegrass	Υ			1/1
plants	land plants	Poaceae	Sporobolus caroli	fairy grass		С		1
plants	land plants	Poaceae	Thellungia advena	coolibah grass		С		3/1
plants	land plants	Poaceae	Aristida personata	<b>G</b>		С		3
plants	land plants	Poaceae	Chloris ventricosa	tall chloris		C		2
plants	land plants	Poaceae	Chrysopogon fallax			C C		2/1
plants	land plants	Poaceae	Eragrostis brownii	Brown's lovegrass		C		3/2
plants	land plants	Poaceae	Eragrostis curvula	3	Υ	_		2/2
plants	land plants	Poaceae	Eragrostis sororia			С		1/1
, plants	land plants	Poaceae	Eriachne mucronata			С		1/1
plants	land plants	Poaceae	Paspalum dilatatum	paspalum	Υ	-		1
plants	land plants	Poaceae	Paspalum distichum	water couch	Ý			1/1
plants	land plants	Poaceae	Digitaria ammophila	silky umbrella grass	·	С		1/1
plants	land plants	Poaceae	Homopholis belsonii	- , g		Ē	V	1/1
plants	land plants	Poaceae	Paspalidium gracile	slender panic		E C		3
•			. 5	•		-		=

Kingdom	Class	Family	Scientific Name	Common Name	l	Q	Α	Records
plants	land plants	Poaceae	Tragus australianus	small burr grass		С		3/1
plants	land plants	Poaceae	Aristida platychaeta	· ·		С		2/2
plants	land plants	Poaceae	Aristida psammophila			C C		1
plants	land plants	Poaceae	Cymbopogon refractus	barbed-wire grass		С		2
plants	land plants	Poaceae	Enneapogon avenaceus	Ç		С		2
plants	land plants	Poaceae	Eragrostis lacunaria	purple lovegrass		С		2/2
plants	land plants	Poaceae	Sporobolus elongatus			C C		1/1
plants	land plants	Poaceae	Éragrostis parviflora	weeping lovegrass		С		1/1
plants	land plants	Poaceae	Heteropogon contortus	black speargrass		С		3
plants	land plants	Poaceae	Iseilema membranaceum	small flinders grass		С		2/2
plants	land plants	Poaceae	Sporobolus natalensis	· ·	Υ			1/1
plants	land plants	Poaceae	, Aristida caput-medusae			С		3/2
plants	land plants	Poaceae	Arundinella nepalensis	reedgrass		C		2/2
plants	land plants	Poaceae	Brachyachne convergens	common native couch		С		1/1
plants	land plants	Poaceae	Cleistochloa subjuncea			C		2/2
plants	land plants	Poaceae	Enneapogon lindleyanus			C		1
plants	land plants	Poaceae	Enteropogon acicularis	curly windmill grass		Č		3
plants	land plants	Poaceae	Eragrostis alveiformis	9.202		Č		3
plants	land plants	Poaceae	Eragrostis cilianensis		Υ	_		1/1
plants	land plants	Poaceae	Eragrostis trichophora		Ý			2/2
plants	land plants	Poaceae	Paspalidium globoideum	sago grass	_	С		1/1
plants	land plants	Poaceae	Setaria paspalidioides	ougo g.uoo		Č		2/2
plants	land plants	Poaceae	Thyridolepis xerophila			Č		2/2
plants	land plants	Poaceae	Ancistrachne uncinulata	hooky grass		Č		1
plants	land plants	Poaceae	Dactyloctenium radulans	button grass		C C		1/1
plants	land plants	Poaceae	Eragrostis megalosperma	a amen greece		Č		1/1
plants	land plants	Poaceae	Paspalidium caespitosum	brigalow grass		Č		1/1
plants	land plants	Poaceae	Rytidosperma bipartitum	Julyanon glaco		C		2/2
plants	land plants	Poaceae	Capillipedium spicigerum	spicytop		Č		2/1
plants	land plants	Poaceae	Paspalidium albovillosum	Sp. 5) 15p		Č		2/2
plants	land plants	Poaceae	Walwhalleya subxerophila			C C C		1/1
plants	land plants	Poaceae	Diplachne fusca var. fusca			Č		1/1
plants	land plants	Poaceae	Eriochloa pseudoacrotricha			Č		4/4
plants	land plants	Poaceae	Dinebra decipiens var. decipiens			C		1/1
plants	land plants	Polygalaceae	Polygala triflora			Č		1/1
plants	land plants	Polygonaceae	Persicaria decipiens	slender knotweed		Č		1/1
plants	land plants	Portulacaceae	Portulaca bicolor	Cionaci Michiga		Č		1/1
plants	land plants	Portulacaceae	Portulaca pilosa		Υ	•		1/1
plants	land plants	Pottiaceae	Trichostomum brachydontium		•	С		1/1
plants	land plants	Pottiaceae	Syntrichia laevipila			Č		4/4
plants	land plants	Proteaceae	Grevillea striata	beefwood		č		3/1
plants	land plants	Proteaceae	Hakea purpurea	200.11000		Č		2/2
plants	land plants	Proteaceae	Hakea lorea subsp. lorea			C		1/1
plants	land plants	Pteridaceae	Pteris platyzomopsis			č		2/2
plants	land plants	Pteridaceae	Pellaea falcata			Č		1/1
plants	land plants	Pteridaceae	Cheilanthes distans	bristly cloak fern		C		1
Pidito	iana pianto	Tiondaceac	Choliantinos distans	bridly didak form		9		ı

Kingdom	Class	Family	Scientific Name	Common Name	l	Q	Α	Records
plants	land plants	Ptychomitriaceae	Ptychomitrium australe			С		4/4
plants	land plants	Ranunculaceae	Clematis microphylla			С		1/1
plants	land plants	Ranunculaceae	Ranunculus sessiliflorus var. sessiliflorus			С		1/1
plants	land plants	Rhamnaceae	Cryptandra armata			С		1/1
plants	land plants	Rhamnaceae	Alphitonia excelsa	soap tree		С		1/1
plants	land plants	Rhamnaceae	Cryptandra longistaminea	·		С		1/1
plants	land plants	Rubiaceae	Psydrax odorata subsp. australiana			С		1/1
plants	land plants	Rubiaceae	Asperula geminifolia			С		1/1
plants	land plants	Rubiaceae	Psydrax johnsonii			С		1/1
plants	land plants	Rubiaceae	Asperula conferta			С		1
plants	land plants	Rubiaceae	Richardia brasiliensis	white eye	Υ			1/1
plants	land plants	Rutaceae	Geijera parviflora	wilga		С		6/1
plants	land plants	Rutaceae	Phebalium nottii	pink phebalium		С		1/1
plants	land plants	Rutaceae	Philotheca difformis subsp. difformis	• •		С		1/1
plants	land plants	Santalaceae	Anthobolus leptomerioides			С		1/1
plants	land plants	Sapindaceae	Alectryon oleifolius subsp. elongatus			С		1
plants	land plants	Sapindaceae	Dodonaea triangularis			С		1/1
plants	land plants	Sapindaceae	Dodonaea lanceolata var. subsessilifolia			С		1/1
plants	land plants	Sapindaceae	Dodonaea stenophylla			C C		1/1
plants	land plants	Sapindaceae	Dodonaea filifolia			С		2/2
plants	land plants	Sapindaceae	Atalaya hemiglauca			С		3/2
plants	land plants	Sapindaceae	Dodonaea biloba			С		2/2
plants	land plants	Sapotaceae	Planchonella cotinifolia var. pubescens			С		1/1
plants	land plants	Scrophulariaceae	Eremophila longifolia	berrigan		С		1
plants	land plants	Scrophulariaceae	Eremophila mitchellii	-		С		12/2
plants	land plants	Scrophulariaceae	Myoporum acuminatum	coastal boobialla		С		1/1
plants	land plants	Scrophulariaceae	Verbascum virgatum	twiggy mullein	Υ			2/2
plants	land plants	Scrophulariaceae	Eremophila deserti			С		5/5
plants	land plants	Solanaceae	Lycium ferocissimum	African boxthorn	Υ			1/1
plants	land plants	Solanaceae	Śolanum ellipticum	potato bush		С		2/1
plants	land plants	Solanaceae	Solanum jucundum	·		С		3/3
plants	land plants	Solanaceae	Solanum esuriale	quena		С		2/2
plants	land plants	Solanaceae	Solanum parvifolium subsp. parvifolium	•		С		2/2
plants	land plants	Solanaceae	Physalis lanceifolia		Υ			1/1
plants	land plants	Solanaceae	Solanum ferocissimum			С		5/5
plants	land plants	Solanaceae	Solanum mitchellianum			С		2/2
plants	land plants	Solanaceae	Nicotiana megalosiphon subsp. megalosiphon			С		1/1
plants	land plants	Stackhousiaceae	Stackhousia viminea	slender stackhousia		С		1/1
plants	land plants	Thymelaeaceae	Pimelea trichostachya	flaxweed		С		4/4
plants	land plants	Thymelaeaceae	Pimelea microcephala subsp. microcephala			С		1/1
plants	land plants	Typhaceae	Typha domingensis			С		1/1
plants	land plants	Verbenaceae	Glandularia aristigera		Υ			4/1
plants	land plants	Verbenaceae	Verbena litoralis var. litoralis		Υ			1/1
plants	land plants	Verbenaceae	Verbena incompta		Υ			1/1
plants	land plants	Violaceae	Pigea stellarioides			С		2/2
plants	land plants	Viscaceae	Viscum whitei subsp. whitei			С		1/1

Kingdon	n Class	Family	Scientific Name	Common Name	I	Q	Α	Records
plants plants	land plants land plants	Viscaceae Zygophyllaceae	Korthalsella rubra subsp. geijericola Zygophyllum apiculatum	gall weed		C		3/3 1/1

#### **CODES**

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

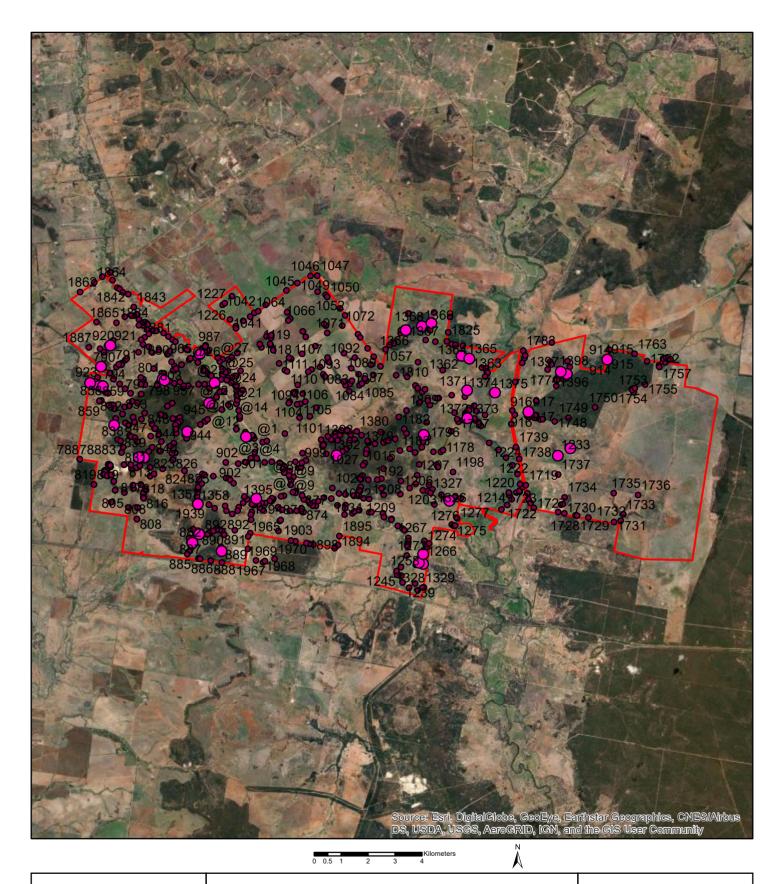
Records – The first number indicates the total number of records of the taxon for the record option selected (i.e. All, Confirmed or Specimens).

This number is output as 99999 if it equals or exceeds this value. The second number located after the / indicates the number of specimen records for the taxon.

This number is output as 999 if it equals or exceeds this value.

## Appendix C

Field Survey Site Locations



Terrestria Pty Ltd.

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#### Legend

- Biocondition sites
- Field Survey Sites

#### APPENDIX FIGURE A

#### State 1:100,000 Regional Ecosystem Mapping

SD22 East Ecological Constraints Mapping

AD 25/03/21 Job No. 0237



Aerial imagery courtesy of Bing Maps

## Appendix D

Field Survey Site Data: RE Code Site Sheets

Location		**	1719	4				
Site No.	1	tecorder:	AMIEL			Day	Date: 23	11 2020
Purpose		The same of the sa	July .					,
	(inc. distance	ce/direction to nearest	town) WYE	JM (	46	ijeci	spt.)	
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T1	7.	6-8	VS	F	d	Eur	aluphis	populage
T2	Cr	3-6	S			Aza	cid Jen	Mula
Т3		_						
<b>S</b> 1		_						
S2		_	, 					***************************************
G		-					'.	
٠.		n: (including height)	ud	i				
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Geology,	landfor	n, soils	,			ĵ		
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Landform	:			-1464444444				
Soils:				***************************************	·			
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<b>S</b> 2			¥2224+++2077				***************************************
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	code and re	ock types:		** ***********************************		v	
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Landform		•			/*************************************		***************************************
Field ops	ervation ar	id notes:	anggan ann an an aid aith a d' a saidh deirich e reil y deirichean a na an		\$\$\text{\$\tinx{\$\text{\$\		Landzone: 5
,		SS	LE STEEN MAN A 134 MAA BAA BALT LIFE I ARE BE				
	changes		5/11	/			·
Existing			.5/11.51		***************************************	.,	
Proposed	d RE code:	//:	J J		***********		

Location	•						
	3 R	ecorder:	-Danie			Day	Date: 23/11/2020
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GPS:		5	5 074	034	4	705	8096 90094
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	Median	Height	Est. cover	<b>d</b> − d	ominant; e	c – co-don	inant; <b>s -</b> subdominant, <i>a</i> – associated.
Stratum	height	interval	density (D,M,S,V)	Str.	dom.	Scientif	c Name
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T1	6	5 - 7	<u>S</u>	$  I_L$	a	Call	
T2	3	2.5	S	12	1	Call	ins glancophyla
Т3				3,10	19	Euc	arotell paralies
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<b>\$2</b>		-					
G		•					
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				J			
Geology	, landfor	n, solls					
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, p	***************************************		Landzone: 5				
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1	d RE code:	Man	iem 1	(-5.	5		

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7727				
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E -	T,	1	Eyco	lyptus melanglilera
T1 12 11-14 5	17,	a	Ang	phora lelocalpy
T2 10 8 - 11 S	Tz	d	Cal	tas oflancophyla
тз -				<i>(</i>
si - Absat				
S2 -				
G -				
Structural formation: (including height)				
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Ecologically dominant layer:				
Geology, landform, soils				
Geology map/scale/year:		**************************************	ender water to the second section of the section of the se	Michael Faller 1 Fall (March Control of March March March March March Control of March Mar
Geology code and rock types:				
Land system:				
Landform:	************	********		
Soils: pale Said				
Field observation and notes:				
		***************************************		Landzone: O
RE code changes		_		
Existing RE code: // 5-5/// 5 /				
Proposed RE code: // 5-5	***************************************			

Page 23 of 26

Location	į						
Site No.	5 R	ecorder:	1. DANIEL	×		Day	Date: 24 11 2020
Purpose	3858858533399FF	SD	, , , , , , , , , , , , , , , , , , , ,				
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			1738				·
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Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientif	
E		<b>-</b> .		T,	d	Euce	dyphus populned
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T2	10	9 - 11	S	1/2	d	Leise	vanua cristatu
Т3			An many transfer and and the burgers man is recovered as a second				20.00 - 10.00
<b>S</b> 1		_					
<b>S2</b>	<u></u>		w messoo dawayay saaa a am binkii weediye a maay			************	***************************************
G,		-					**************************************
Structura	l formation	n: (including height)					
Ecologica	ally domina	ant layer:	· · · · · · · · · · · · · · · · · · ·				
Geology	landfor						
	map/scale/					-	
		ock types:	egasa na Andre de Gelevich (Albert ann 1944). Parain an gann airte an Airthead (Albert An 1941) i 1946.	e e gangagagaga ana analash adhada di dadhili			Augustus (1964-1964) Augustus
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Landform			A				
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	¥2.5	•					
Location	7	AL.	. / `	•			
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Purpose		SV22-					
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GPS:		5	5				TI CONS
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Vegetati	on stru	cture	5948 A	( Pla	int spec	ies	
Median hei	ght of the E	DL is to be measur	ed		cord relative - dominant;	e (numeric ; <b>c</b> – co-do	l) dominance for each stratum; ninant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	St	Rel	Scient	fic Name
E		-		-	T, d	Euc	eliphis prouher
T1	14	12-16	-	g and the second		Cars	advina Orstola
T2	10	8 - 12			Z		
Т3		-					
S1		-					
Ś2		-					
G		-					A SANAAAAAAAA AA
Structura		: (including height)	į.				
***	Tull	<u>lisesill</u>	<u> </u>				
Ecologica	lly domina	nt layer:					
			}			i	
Geology,	landfor	n, soils					
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Geology o	ode and re	ock types:					
Land syst	tem:	4					
Landform	i:	place					
Soils:	<u> </u>	holy ch	Mariland				
Field obs	ervation an	d notes:	***************************************				
		***************************************					Landzone:
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**END** 

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Locality: (inc. distance/direction to rearest town)  GPS:  G		m7.	ecorder:	A Down	FL		Da	/Date: 23/1/2×20
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Stratum   Median   Height interval   density (0.MS.V)    E				= 950	Record	relative	(numerica	) dominance for each stratum;
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T1 10 8-12 5 T2 6 4-6 V5 T3	E		<u>-</u>		T	0	Chi.	Syntic populary
T2 6 9 - 6 VS  T3 - 5 Structural formation: (Including height)  Ecologically dominant layer:  NO CMS and a boy (a) 215u  Seology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Landform:  Soils:  Field observation and notes:  Landzone: 7	T1	10	8-12	9	T2	d	واستنصر	
Structural formation: (including height)  Ecologically dominant layer:  Beology, landform, soils  Geology code and rock types:  Landform:  Soils:  Field observation and notes:  Landzone: 7	Т2			**************************************				
S1 4 Z - 4 S S2 - G - Structural formation: (including height)  Ecologically dominant layer:  Ecology, landform, soils Geology, landform, soils Geology code and rock types:  Land system:  Landform: Soils: Field observation and notes:  Landzone: 9	тз		-		9,	1	F-10	madrila metabelli
Structural formation: (including height)  Ecologically dominant layer:  NO CMS and Nove (and 215 or 25	<b>\$</b> 1	4	Z - 4-	Cy	·····			
Structural formation: (including height)  Ecologically dominant layer:  NO CHSI and White Care Signature Solids  Geology landform, soils  Geology code and rock types:  Land system:  Landform:  Soils:  Field observation and notes:  Landzone: 7	S2			AND A THE PROPERTY OF THE PROP				
Ecologically dominant layer:  NO CMS and Nonvicon 215ur  Seclogy, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Soils:  Field observation and notes:  Landzone: 7	G		_					
Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Soils:  Field observation and notes:  Landzone: 7	Structural	AG A	8	<u>Med</u>				
Seology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Soils:  Field observation and notes:  Landzone: 9	Ecologica	lly domina	int layer:	1				
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Landform:  Soils: Mark Such Clary  Field observation and notes:  Landzone: 9	Geology o	ode and re	ock types:					
Soils: Soils: Soils: Charles: Field observation and notes:  Landzone: 7	Land syst	em:						
Field observation and notes:  Landzone: 1	Landform	:		A		·		
Landzone: 9	Soils:	ty).	1 Sug.	1 Clay				
	Field obse	ervation ar	nd notes:					
				·		************		Landzone: 7
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Proposed RE code: NUU-IEM 11.9.7			NUW-K	ew 11.9.	7	774		

Page 23 of 26

Location	1	<u> </u>							<u> </u>	
Site No.	8 R	ecorder:	DANIEL	***************************************		Day	Date:	23	(202)	O
Purpose		502	2							
Locality:	(inc. distanc	e/direction to neares	t town)	ena.				********		
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			1744							
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Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scientifi	: Name			
E		-		万	ट√	Euce	(ypt	us m	<u>dongol</u>	loca
T1	12	11 - 15	S	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	CI	Euca	Rense	Mas DX	17.4/1/2	a
T2		6 - 10		12	d	Call	Ins	Slave	ophylo	1
Т3			100 comment to the form of the form of the first transfer of the f					<i>V</i>		
S1			***						*****************	·
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Geology	code and i	rock types:	***************************************			***************************************	.,	******	n a aan	********
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Landforr	**********	***************************************				**************************************		<b>***</b>	<b>7</b> 45740 4444	
Soils:	soils: Pale Sandy loans								AND THE RESERVE THE PROPERTY OF THE PERSON O	
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					······································				Landzone:	<u> </u>
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Propose	d RE code	: 11.5	5	· · · · · · · · · · · · · · · · · · ·						

#### Habitat Characters - Abundance

Site No. Reco		)	Pay, Date:
Purpose	5022		
Locality: (inc. distance/dire		MYENA	
GPS coordinates:	Zone 55 E	0 0 4 7 7 3 1 2 4 5 N 7	61634 Datum (#494)
	174	4	
	593	59/5	
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	2	Same	
Fallen logs (>10cm diam.)	5	Previous logging a	fallen times d by
Decorticating bark	. 3	Predious logging of about the Callitas namely range Helmon	Source
Course litter (>2cm diam.)	3	,	
Fine litter (<2cm diameter)	5		
Bare ground	5		
Grass	2	Soly grass con	ner is metive but
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock			

Abundance key

0 = Nil 4 = Occasional to common 1 = Rare 5 = Commo 2 = Rare to Occasional 6 = Common to Abundant 3 = Occasional 7 = Abundant

Location										
***************************************		ecorder:	A BANG	<u> </u>		Day	Date:	23/11	2002-0	
Purpose		502	2						·	
		e/direction to nearest	1.1	LAP	A				444	
GPS:		5	5 078	954	3	706	1 5 8		GDA96	+
			747							
<b>Vegetati</b> Median hei	on stru ght of the E	<b>sture</b> DL is to be measu	5958 5959	Reco	it specion of the second of th	numerical	dominano nant; <b>s</b> - s	e for each ubdominan	stratum; t, <b>a</b> – associate	ed.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel	Scientif				
E				7	ACL	and a second and a second second			ocorpu	
T1	12	11 -15	5	1	\ C_	Eut	Deph	15 (b)	rehe	4
T2	7	6-9	VS		_ C-	Cal	11/15	glai	100/4	4
Т3			_			As .	-V6Clb	&	* °	and don't a V a Law
S1	Ц	3 - 5	<b>VS</b>							
S2		-	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	5	, 0	Aca	CIA	ere)	poted	******
G		<u> </u>					leananna e e e e e e e e e e e e e e e		10d 4886 1 F F FILE WOOD A BABE I F 1 FILE	
		n: (including height	a							
	ally domina	مييو.		9	7	Ans	704	Capi	t-Mod	المراكب
				. <del>L</del>						
Geology	, landfor	m, soils				<u>.</u>				
Geology	map/scale	year:	уудын жэг тай н тамин тайн хүр түү тэмж эх байгай байгай тайгай тайгай тайгай тайгай тайгай тайгай тайгай тайг	AAAAI EAALIIIIIIIIIIII AA	Madella de de de de la constitución de la constituc	agas a such sold and obtained at the hidden at a fine	and the second s	and the second s	and the desired of the second section of the second second second second second second second second second se	anagayay ay maka Wastinina
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Landforn	n:	*			~~~~~			************	**************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Soils:	De	eb chaps	<u>sand</u>						**************************************	
Field obs	ervation a	nd notes:	and a Margaryan a maked barrier of the display department of the district of the letter	V	rikanikansi kanifungan papa - amin'akan 🗷 🖽				4	
		***************************************						L	andzone:	)
RE code	change									———
Existing	RE code:	11.5.5	111.51					********		
_	d RE code									

#### Habitat Characters - Abundance

Site No. 10 Reco	order:	MULE	· ·	Day/Date:	23/11/2	020
Purpose						
Locality: (inc. distance/dir	ection to nearest town)	WIEN	M	·		
GPS coordinates:				76/15	8 <mark>3</mark> Datum	: 421 94
	1747					<u> </u>
						·
	Abundance (0 – 7)	Notes				<u>.</u>
Hollows in trees & stags	2					
Fallen logs (>10cm diam.)	6			_		
Decorticating bark	2					20000000 <u>-</u>
Course litter (>2cm diam.)	3					
Fine litter (<2cm diameter)	3					
Bare ground	6					· · · · · · · · · · · · · · · · · · ·
Grass	6					
Soil cracks			·			
Stones (20-60cm)						
Boulders (61cm-2m)	Mary 12 - Lan .					
Large boulders (>2m)	Secretary and the					
Rock crevices	Commence of					
Evfolioting rock						

Abundance key

0 = Nil 4 = Occasional to common 1 = Rare 5 = Commo 2 = Rare to Occasional 6 = Common to Abundant 3 = Occasional 7 = Abundant

Location	#								
Site No.	\I	lecorder:	M.Dowl	$\epsilon$		Da	/Date:	23/1/202	20
Purpose	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SD 22						\	
Locality:	(inc. distance	e/direction to nearest	town) $\lambda$	) HE M	A			,	
GPS:		-5	5				T.	SDU	44
<b>Vegetat</b> Median hei	<b>on stru</b> ght of the E	C <b>ture</b> DL is to be measur	- io/ 1	Recor		(numerica		for each stratum; odominant, <i>a</i> – ass	ociated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scienti	ic Name	.*	
Е	_			7	1	Cud	ding	glaucop)	4110
T1	13	11 - 14	S	7	<u> </u>		MADICA	4D	
Т2	6	4 - 7	5	77	c	Eu	rund	us PODU	New
Т3		_		12	a	Cal	MS	garrop	<u>Vulla</u>
<b>S</b> 1			1000 F V V V X X Y V V V V V V V V V V V V V V			March Park & March Park Street Water Street	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	<u>U</u>	
S2			EEEE 23 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	į			***********************	20/20/4,	***************************************
G		•							
Structura	Formation	i: (including height)	<u>u</u>						
Ecologica	ılly domina	int layer:	Ţ						
Geology,	landfor	m solls	, 	11 du	~ce	0+	(0891	ug	
Geology r	map/scale/	year:	Notes Administration of Section 1. I in contrast the section of th	ngang gandran dimensional di delibedia dia delakh Virakh a Milli		Land of the Property Spirited Spirite		a laborar filmantel emperior competition e a colorida colorida	dente e la representación de Madelant. II
Geology o	code and r	ock types:							
Land syst	em:								
Landform		1							*********
Soils:	<u> </u>	<u>ud</u>	ALAY 14 FRE S PRE ASSESSED 1997			,			
Field obs	ervation ar	nd notes:						<u> </u>	
								Landzone	
RE code	changes	1 1						<u> </u>	· ·
Existing F			/11.55					~	<del></del>
Proposed	RE code:	11 5.15	7777412A		************			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************

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Locatio	ių.						
Site No.		ecorder:	ADM	186		Day	/Date: 25 11 2020
Purpose		501	<u> Z</u>			:	
Locality:	(inc. distanc	e/direction to nearest	town)	1466	· #\	~1 V4 B4D14 M4.1.VV14	
GPS:		5	3				99794
<b>Vegetat</b> Median hei	<b>ion Stru</b> i ght of the E	cture DL is to be measur	) dominance for each stratum; inant; <b>s</b> - subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scienti	lc Name
E T1	15	12-16	9	-	d	Eu	alyphas popular
T2	10	6 - 12	9	1-	_	E	ealyphy popular
Т3			~~==~~==~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	12	C	Cerl	ms duicestilla
<b>S</b> 1			en en en en en en en en en en en en en e				
S2			C RASO = mmm x + m x in via mm a direction where is a first to the property of the property				
G		-					**************************************
Structura		i: (including height) ມີຄວ ຂໍ້	d.				
Ecologica	ally domina	ınt layer:	1/				
Geology	landfor	n, soils					
Geology	map/scale/	year:	la pied in la la principal de la proposition de la contrata de la principal de la contrata del contrata de la contrata de la contrata del contrata de la contrata del la contrata de la co	.414 ***********************************		angeres a gray angulgdy decessors a Walter	Makataka 12 a katuman manya staman manya manganya katabah kataba 12 a maya a mandah kataba 12 a mandah kataba 1
Geology	code and r	ock types:		A NECTURE			
Land sys	tem:			······································			
Landform	1:	1		***********	*******		
Soils:		<u> </u>		.n.			
Field obs	ervation ar	nd notes:			******************	·····	Landzone: ブ
Existing I	changes		7/11-51		·		
	RE code:	11.50	2			hamiltananie a sec. 11 m	

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	***							
Location	de .		Λ λ					
Site No.	(5) R	ecorder:	4 BALLEL	#18 <sup>45**</sup>	***		Day	Date: 23 11 2020
Purpose	***************************************	SD				بعبد		
Locality:	(inc. distance	e/direction to nearest	A 3 Co. 1					
GPS:		5	5 074	40	) <u>/</u>	<u> </u>	706	5837 GDA'94
		175						5978/9
Vegetati	on struc	cture .	ESSECTION .			speci		<b>'</b> .
Median hei	ght of the E	DL is to be measu	ed	, F	ecora d – do	relative ( minant; <b>c</b>	numericai co-dom	dominance for each stratum; nant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scientifi	Name
E	-	-			7	c1	Euce	hyptus populaer
T1	11	9 - 12	5		-	d	Call	Ms glancophylly
T2	7	6-9	S		1/2	d		My flow cop Cyller
Т3		_	The second state and a second distribution of the second state and the second s		5	4	Euc	eduphis papahed
S1	5	3 - 6	VS			d	Cal	listris glavicagiala
S2		_			f			U
G		_						
Structura	l formation	: (including height	) }					
3-11×	Market .	\An.esak	į.					
Ecologica		ınt layer:	) 		Si	D	Cen	days coloans
				] <b>[</b> }				A
Geology	, landfor	m, solls	Steph	11/	P.	1XC	8	y:" [
	map/scale/		\$	pages sy assist distribution	AAA A 4.4. F F-2.1.41		**************************************	and with A wind I happed to the last construction of the Machine to the last construction of the first construction of the last construction of th
	code and r		TO THE REAL REAL TO THE THE THE THE THE THE THE THE THE THE			000 V 10 10 10 V 10 V 10 V 10 V 10 V 10	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
Land sys				A				
Landforn	1:		Zaposanovumum omedonistoistoistoistoistoistoistoistoistoisto		**********			
Soils:	A	uap a						
Field obs	ervation ar	nd notes:						
			Landzone: S					
RE code	changes	· · · · · · · · · · · · · · · · · · ·	. "					
	RE code:	11.3.						
Proposed	a KE code:	·	4 <u> 4</u>	*********				

Page 23 of 26

**END** 

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Location	r/f		Adrian	- \ 1/\		Dev	Date: 23/1/2020			
Site No.		Recorder:		× (m.)		Day	Date:			
Purpose			1111	<i>f</i> :	1 41	NA				
_	(inc. distand	ce/direction to nearest	town)	n 4/2	12 (T	70	2747 D94			
GPS:		<u> </u>		<u> </u>			Consider an artistation of the state of the			
	ion stru		E_floose subspinu							
Median hei	ght of the E	DL is to be measur	ed	<b>d</b> – do	relative ( minant; c	numerica co-dor	) dominance for each stratum; inant; <b>s</b> - subdom <u>inant</u> , <b>a</b> – associated.			
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scienti	c Name E			
E	, noight	-		E	d	Euco	elephis! Vivens			
T1	11	10-13	149	1	1	Aza	cia Shreyi			
T2			www.cale.cale.cale.cale.cale.cale.cale.cale							
Т3		_					The second secon			
<b>S</b> 1	1,8	1 - 2	5	9,	1	40	coa parintora			
<b>S</b> 2			2 医硫酸 (4 + 4 + 1947年) 2 代 英中田田 = min/A 4.3-444 (450min 4*4-45) 2014 (7)			*****				
G		-					**************************************			
	I formation	n: (including height)	rest							
Ecologica	ally domina	ant layer:	- 							
Geology	, landfor	m, soils	e bugulor	Jue	(ela	e-	edge litree will			
Geology	map/scale/	year:	propagant of Velenot Ash Ashabil E. Est. 1988 IN 1889 I Est 1994 i Principale (1994).	A ALAN MANAGEMENT OF THE			· · · · · · · · · · · · · · · · · · ·			
Geology	code and r	ock types:			********		***************************************			
Land system:										
Landform:										
Soils:	Sho									
Field obs	ervation a	nd notes:		——————————————————————————————————————						
				.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			Landzone:			
RE code	change	<u> </u>								
	RE code:	115	5/115	/		******				
Proposed	d RE code:		('.7·Z		· · · · · · · · · · · · · · · · · · ·	, ,, ,, ,, , , , , , , , , , , , , , ,				
					_					

Page 23 of 26

### **Habitat Characters - Abundance**

Site No. 1 Reco	order:	DANIEL	Day/Date: 2	3/11/28/20
Purpose	9022	DANIEL		
Locality: (inc. distance/din	ection to nearest town)	WHERIA		
GPS coordinates:		0740463N	<b>70</b> 63714	Datum:
	1765			
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	0			
Fallen logs (>10cm diam.)				
Decorticating bark	5			
Course litter (>2cm diam.)	5			
Fine litter (<2cm diameter)	4.			<u> </u>
Bare ground	7			
Grass	2			
Soil cracks	0			
Stones (20-60cm)	₽3			
Boulders (61cm-2m)	0			
Large boulders (>2m)	0			
Rock crevices	0			
Eufoliation reals				

Abundance key

0 = Nil 4 = Occasional to common 1 = Rare 5 = Commo 2 = Rare to Occasional 6 = Common to Abundant 3 = Occasional 7 = Abundant

Location	i								
Site No.	15 R	lecorder:	ADMIEL	Tipudanga		Da	/Date: 23	11/2020	)
Purpose		G C	22						
Locality:	(inc. distanc	e/direction to nearest		described Administrative and the state of th		***************************************			
GPS:	GPS: 55							J GDA	`१५
Vegetation structure  Median height of the EDL is to be measured  Plant species  Record relative (numerical discontinuation)  A dominant; c - co-do							) dominance fo	r each stratum; ominant, <b>a</b> – asso	ociated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scienti	ic Name	•	
E	٠.			Ty	a	Euce	lyphas	crebya	
T1	[b	14-18	ń				11		···
T2	12	10 - 14	MD	Tz		Call	tus ale	encephi	1 a
Т3	*****		-				<u>U</u>	· · · · · · · · · · · · · · · · · · ·	·
S1	2	7 - 3	۷۷						****
S2			**************************************	51		Ges	era P	artitle.	1
G		- -							
# Part of 2000		: (including height)	4						
Ecologica	lly domina		T.				1	2443 h - 44 480 490 240 444 440 4 10 497 <b>1</b>	
Geology,	landfori	n, solis							
Geology r	nap/scale/y	year:	and a state of the	Facility Warris and a construction of the Wall	hada aankanka da'da ah ii Mahada aankada da'd		Words to the time to the second to the secon	the last the state of the state	and the second s
Geology o	ode and ro	ock types:							n an an an an an ann an an an an an an a
Land syst	em:								
Landform	:	1	************		****************	.,			
Soils:	_ <del>)</del> ~	icl							
Field obse	ervation an	d notes:							
					Landzone:	<u> </u>			
RE code changes									·
Existing R	E code:		5/11.5.1						· · · · · · · · · · · · · · · · · · ·
Proposed	RE code:	11-	5./		*************			**************************************	

# Habitat Characters - Abundance

		F1	1 3	1
		ance!	Day/Date: 23 (11/2=2	2
	502			
Locality: (inc. distance/di	rection to nearest town)	MARYEN	· · · · · · · · · · · · · · · · · · ·	
GPS coordinates:	Zone 5 5 E	0740294N7	46306/ Datum:	
	1766 5993			
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	/			
Fallen logs (>10cm diam.)	6			
Decorticating bark	5			·
Course litter (>2cm diam.)	5			
Fine litter (<2cm diameter)	7			· · · · · · · · · · · · · · · · · · ·
Bare ground	4			
Grass	2		·	
Soil cracks	0			
Stones (20-60cm)	3			,,
Boulders (61cm-2m)				<u></u>
Large boulders (>2m)	0		\	
Rock crevices	0			
Exfoliating rock			\	

Abundance key

0 = Nil 4 = Occasional to common 1 = Rare 5 = Commo 2 = Rare to Occasional 6 = Common to Abundant 3 = Occasional 7 = Abundant

Locatio							
Site No.	lo R	Recorder:	4 DAW!	<u>C</u>	7 <i>8-440</i> <b>10 10</b> 10 10 10 10 10 10 10 10 10 10 10 10 10	D	y/Date: 23(1/2520)
Purpose		9022				*************	v .
Locality:	(inc. distanc	ce/direction to nearest					
GPS:		5	5			;	GD(194
<b>Vegetati</b> Median hei		cture DL is to be measur	<b>es</b> (numerio c – co-do	al) dominance for each stratum; minant; <b>s</b> - subdominant, <b>a</b> associated.			
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scien	ific Name
E		-		7	d	Eu	calyphus nubila
T1	12	10-14	性的	Te	C	Ca	liths glaucophylla
T2	9	7 - 10	S	12	-	A	La Shrylei
Т3				* * 11			
S1	<del></del>		(MANO 11 MAP) - 10 MA			***********	**************************************
S2		<del>-</del>	ena menoro endre e menoro en en en en en en en en en en en en en			***********	
G		-				.0.57	
Structural	formation	: (including height)			<u> </u>		
Ecologica	illy domina	nt layer:					
Geology,	landfor	n, soils					
Geology n	nap/scale/y	/ear:	tion of distribution attribution (March March March March States and States States and S	**************************************	The state of the s	in to discribing odds throughout a see	
Geology o	ode and ro	ock types:			** ***** * A * * * * * * * * * * * * *	~~~~~	***************************************
Land syst	em:						
Landform	: -\-\-\		40.551.040.040.050.050.050.050.050.050.050.050				
Soils:	1,+1	रठङ्ग्री५					
Field obse	ervation an	d notes:		·> doc-red was up no 11 11	**	*********	
				Landzone: (			
RE code	changes						
Existing R	E code:	The state of the s	······································			·	
Proposed	RE code:	11.1.	<u>X</u>		F FOR A COLON ACTION AND THE WORLD WAS		

Location									. ,		
Site No.		ecorder:	Dane		7888 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Day	Date:	25	11 20	20	
Purpose		<b>C</b>	722			·					
Locality:	(inc. distance	e/direction to nearest	town)	W	ENT	······································		una una e Mal Philade à du A d'	ED  P P P P P P P P P P P P P P P P P P	~	
GPS:		5	5 074	02	14	706	30	6	D	NATIONAL STATE OF THE STATE OF	
		1	768 , ,								
Vegetati Median hei	on struc		5993/4/5	Reco	n <b>t spec</b> i rd relative	(numerical	domina	nce for ea	nch stratum;	;	
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rei	c – co-aom Scientif		supdomi	nant, <i>a</i> – as	sociated.	
E	16	14-17	VS	E	d				nup	rela	
T1	12	10-14	S	Ti	d	(asa	edu	a cr	1state	21	
T2	9	7 - 10	VS	1	C	Cal		7-7	uçp}		
Т3			THE BEST AND ADDRESS OF THE PARTY OF THE PAR		<i>C</i>	Cas	Carr	ريز رحا	restati	i P	
S1			PV		2	(eje	Nost	KIMO	n pu	pekar	١
S2			X#####################################				**********	<u> </u>		4 4 W 4 4 7 E 2 2 E 1 PP = = = = 4 2 2	122000
G		<u>-</u>						pro-process 2000 2000 4 4 4 6 5		*****	
Structura	-r NI	: (including height)					Space and a desirable Space Space				
Ecologica	ally domina	int layer:						ang ang ang ang digital shape and an ang ang ang ang ang ang ang ang ang	and and own works, blinds		
								•			
Geology	, landfon	n, solls							·		
Geology	map/scale/	year:	ga anganin é Millean Shillest II Ballasta i Manganayan a sandinan a Manlada é Millean Bhallast		entrophisch with the Pale 111111	and the forest of the second o	***************************************	, A. 17 A. 17 A. 18 E. 18	ganga y spagang ny yy an ay disah a dikada di WARA ma	MARKET BERNELLY FOR THE SECTION AND ADDRESS OF THE SECTION ASSESSMENT AND ADDRESS OF THE SECTION ASSESSMENT AS	
Geology	code and r	ock types:		***************	AAAWAAN SAAMAAA	**************************************		~~===.2%22,472	*******************	*********	*****
Land sys	tem:										***********
Landforn	***********	n /	1			**************		**************			
Soils:	pa	le Soud	y clay		nr					nt fak i ka a serve	
Field obs	ervation ar	nd notes:		*****	na anna na manada da anda dadar			a a silvado do a lodo de escorrer		9	
									Landzon	e:	
RE code	change										
Existing	RE code:	HUR		<b></b>			••••				
Proposed	d RE code:	11.4	5		,-,,,,-			a *** * · · · · · · · · · · · · · · · ·		,	

Location	ì							1
Site No.	14	tecorder:	A DANI	A CONTRACT	Ų.		Da	//Date: 24 1/ 2020
Purpose	**************************************	502	The state of the s					
Locality:	(inc. distanc	ce/direction to nearest	town)		******	***********	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
GPS:		5						GP/194
<b>Vegetat</b> i Median hei		cture DL is to be measur	3 6014 51,	o	Record		(numeric	l) dominance for each stratum; hinant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		fic Name
E						d	Euc	dystus camalduheri
Т1	14	12-16	S		1	a	Angó	hbra
T2	10	8-12	¥5		,	······ <b>\$</b> ·····	(1)	+ + + + + + + + + + + + + + + + + + + +
Т3		_	он мам Магабата - ааргус у Бум формун моёр Бугу Эму п.н.		Tz	1	M	labuca bradeata
<b>S1</b>								***************************************
S2			1 2 7 7 4 6 6 7 7 7 7 2 2 2 2 4 0 6 8 4 6 6 7 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		:			
G		_						***************************************
Structura	formation	: (Including height)	4					
Ecologica	ılly domina	ant layer:						
Geology,	landfor	m, solis						
Geology	map/scale/	year:	······································		tanti amman ta mannan mila animana			AND AND A PROPERTY OF THE PROP
Geology o	code and r	ock types:	(0.0.0.000 T TOTAL OF BEET AND AND AND AND AND AND AND AND AND AND					
Land syst	tem:							
Landform		4F(#8 DV444				************		KVANAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA
Soils:		TOO I STREET HERE IS SHOULD BE SHOULD SEE THE STREET						
Field obs	ervation ar	nd notes:		de de derre		with afficial time at South a consequence		Landzone: 3
RE code	chanes	¥						
						_		
Proposed	RE code:	Rem 11.	?·25		***************************************	###### U 1 V T T T P W T# # #		

Location	i						
**************************************	94	ecorder:	ADA	NIE	<u> </u>	Day	Date: 23/11/2020
Purpose	* 🐧	SD2					
Locality:	(inc. distanc	e/direction to nearest	Mos	***************************************			
GPS:		5	11423 40194				
Vegetati Median hei	on strui	<b>sture</b> DL is to be measur	ed 6017	Recor	t speci d relative	numerica	) dominance for each stratum; inant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	The state of the s	c Name
Е	<b>-</b>	-		T	1	Fuce	Lyphio breticonis
Т1	16	14-18	S	T	9	Ance	dyphis befronces
T2	,	-		<i>f</i>		U	/
Т3		_					
<b>S</b> 1			******************************				
<b>\$</b> 2			i kan kataman kan kan kan kan kan kan kan kan kan k			***********	
G		=					Manager and a common control to the control of the total and the total a
		: (including height)	4				
Ecologica	ılly domina	nt layer:					
Geology.		m čališ					
		3.33.34.3.3.1.1.1					
	nap/scale/y				***************************************		миниция (провед нем начина пода пода пода пода пода пода пода под
Land syst	code and re	ock types.		A R 4445 Y WATER WITH A 24 A 44		, ,, , , ,, , , , , , , , , , , , , , ,	
Landform			W				
Soils:	AT744244444	· ( (					
	ervation an	ıd notes:					
			Landzone: 3				
RE code	channe	*					
Existing F		11.3.2					
	RE code:		3-7-210				

Locatiei							<u></u>
Site No.	20 R	ecorder:	1. DANIEC		<b></b>	Da	/Date: 2511 2020
Purpose		5022					
Locality:	(inc. distanc	e/direction to nearest	town) <u> </u>	<u> </u>	N		
GPS:			073	00	3	706	11909 90494
<b>Vegetat</b> Median hei	<b>on stru</b> ght of the E	<b>cture</b> DL is to be measur	a) dominance for each stratum; r inant; <b>s -</b> subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str	Rai	Scient	i c Name
E		-		J	Ø.	C Euc	elypus comolodouss
T1	9	6 - 18	VS.	T	<i>L</i> .	Hec	la selicina
T2		-		1	c	- Euc	elyphus populad
Т3		_	VV-VAVORER VIII VVI A VIII A V				
<b>S</b> 1	2	7 - 3	5	9	10	1/z	eu farussiana
S2		-	<b>1</b>				<u> </u>
G	0.5	0-1	MD				AND AND ASSESSED ASSESSED AS A SECOND ASSESSED AS A SECOND ASSESSED ASSESSED ASSESSED AS A SECOND AS A SECOND ASSESSED AS A SECOND
		i: (including height)	d .				
Ecologica	√ ally domina	ınt layer:	<u> </u>	C <sub>e</sub>	d	Con	thrus alians
<b>Geology</b> Geology i	, landfor map/scale/			gan i A saddid Annah dhan ann d' a	Magnifering and the colored comme	AND AND THE PERSON WITH THE PARTY OF THE PAR	
Geology	code and r	ock types:			^**************	***************	
Land sys	tem:		<u> </u>				
Landform	ı: 	. / .	7.				
Soils:		ay stat					
Field obs	ervation ar	nd notes:	Landzone:				
RE code		1170					
Existing I		11.2 6				••••••••••••••••••••••••••••••••••••••	
Proposed	I RE code:	100	o-Kun				

Locatio							
Site No.	21 R	ecorder:	A Dono	<u>Cu</u>		Day	Date: 25/11/2020
Purpose		SDAZ	-				
Locality:	(inc. distanc	e/direction to nearest	A SECONDARY OF THE PROPERTY OF				
GPS:		5	5 0735	564	4	706	2368 409 97
			801				
Vegetat	on stru	di i je	ed 6046/47	Plant	speci	es (sumorios	) dominance for each stratum;
Median hei				d do	minant;	(numerica c – co-dor	inant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scienti	ic Name
E		-		7	d	Euc	eleptus pepuluea
T1	- 4	6-10	5	,			<u> </u>
T2	4	3 - 6	MP	12	d	Ere.	,
Т3	,		# 0 = 10,000,000,000,000,000	12	a	Aco	cia excelso
S1	2	1 - 3	5	2	d	90	kra parvillora
S2			**************************************			V	
G	0.2	0 -0.3	S				***************************************
Structura	I formation	: (including height)			· 		***************************************
	Woo	dad_					E .
Ecologic	ally domina	int layer:	17	CI		Enk	ropogon askulars
Geology	, landfor	ii Sõlls				·	
Geology	map/scale/	year:	gypapan y Vêrodyk Adolf Florifikki likhil i Filiratiya ya ya ya dala	en en en en en en en en en en en en en e	Maria Maria Maria de la compansión de la		Managarian kannan kannan kannan arangan kannan k
Geology	code and r	ock types:			· · · · · · · · · · · · · · · · · · ·		######################################
Land sys	tem:					Mary of the second seco	
Landforn	n:	487978888.144277689A4A44444	DELECTION AND AND AND AND AND AND AND AND AND AN		<u> </u>		
Soils:	:Pa	le ovan	ye sud	y c	lay		
Field obs	ervation a	nd notes:					
i				Landzone:			
RE code	change	<b>.</b>					
	RE code:	HUR					
	d RE code:	accept.					
END		1 11					
END	*	litter	, <del>-</del>				
		Fulk	1 1/				

Location								
Site No.	22_ R	ecorder:	ADAN	VE !			Day	Date: 25 11 202 2
Purpose	32000030		5022				7	
Locality:	(inc. distanc	e/direction to nearest	town)		E. Yuna		1 706	
GPS:			2747 49194					
			1807					
<b>Vegetati</b> Median hei	<b>on stru</b> ight of the E	<b>cture</b> DL is to be measu	red 605215	<i>←</i> Γ	Record	spectorel relative ( minant; o	(numerica	) dominance for each stratum; inant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scienti	ic Name
E		_			7	1	Euce	elyphus populaeca
T1	9	7 - 11	5		72	d	(a)	ecertha cristata
T2	Ь	4 - 7	MD					
Т3		_ :	***************************************		5,	J	He	nophila milebellili
S1	3	2 - 4						1
S2			######################################					
G								MANAGEMENT AND THE CONTRACT OF
1 .	S .	: (including height)						
Ecologica	ally domina	-	7					
						"		
Geology	, landfor	m, solls						
Geology	map/scale/	year:	OFFICE PERSONAL PROPERTY OF THE STATE OF THE		in had a strong of the strong of	***************************************	graphy and whitehold the state of the s	потительную в выполняющий потительного подать в при записный потительный в потительный в потительный п
Geology	code and r	ock types:	76 A 22 A 67 - 10 7 1 1 1 2 2 4 4 4 7 7 3 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		*******	*#************************************	******************************	
Land sys	tem:		VALUE DE LA 10-LE 11-LE			······································		
Landform	ı:		********************			*******		
Soils:	mark tok is the or a fire or a fire of the order of the o					***		
Field obs	ervation ar	nd notes:	Landzone:					
RE code	change							
	RE code:	HVR						
		11.9	10 fan	ct	70 L	.a./		

Location	i	·					
		ecorder:	A Down	الع		Day	Date: 25/11/2020
Purpose	p	V PARTY	SU2Z				
Locality:	(inc. distance	e/direction to nearest	town)	Mc	15/1		A_A_G;
GPS:		5	5 073	<u> 36 17</u>		706	4346 GDA194
		•	1812				
<b>Vegetati</b> Median hei	on strue ght of the E	<b>cture</b> DL is to be measur	<b>es</b> (numerica c – co-don	dominance for each stratum; nant; <b>s</b> - subdominant, <b>a</b> - associated.			
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str	Rel. dom.	Scientil	c Name
E		_		7,	d		ua houpophylla
T1	14	12-16	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	$\int_{\mathcal{U}}$	a	Gas	yanna cristata
T2	10	8 - 12	5	I I	2 0	Hec	cia harpophyla
Т3			**************************************	l			
<b>S</b> 1	3	2 - 5	<u>S</u>	5	d	Ger	era parviflera
S2			#### E.G. ## 4 mm 4 / 1/E.W. 1/2 # ## T.M. E.E.G. # # # # # # # # # # # # # # # # # #				
G				ļ			AAAAAAAA SAAAA SAAAAAAA AAAAAAAAAAA AAAAAA
Structura	l formation	i: (including height)	1				
Ecologica	ally domina	ınt layer:					
			<del>7 "</del>				
Geology	, landfor	m, soils					
Geology	map/scale/	year:	TARE E LA TARMENTANO (AND AND AND AND AND AND AND AND AND AND		ra newstations was company	A A Victor P & A STREET PROGRAMME CONTROL	Эмеран изактива такжа пакенденде жеринде кака пакенден жеринден жеринден жеринде жеринде такжа жеринде такжа ж
Geology	code and r	ock types:	, Married and A. A. A. A. A. A. A. A. A. A. A. A. A.			*************	***************************************
Land sys	tem:						
Landform	**********	1					
Soils:	Pa	le oran					
Field obs	ervation a	nd notes:	uu dog ay dog a a	9			
				Landzone: 7			
RE code	change						
	RE code:	11.9					
Proposed	d RE code:	1193		*****		107.3	Andrew Area

Location	<u> </u>							<del></del> _
Site No.	24 R	ecorder:	A BA	<u>31€</u>	<u></u>	\$44,000 cm = 100 cm =	Day	Date: 25/11/220
Purpose		<u> </u>	22					
Locality:	(inc. distance	e/direction to nearest	town)	Mo	<u>ت</u>	711	1	4792 PA94
GPS:		5	5 073	412	ઇ	<u> </u>	106	4792 PM94
		1814		31111110	************	specie	strept	-
Vegetati Median hei	on strue ght of the E	<b>cture</b> DL is to be measur	dominance for each stratum; nant; <b>s -</b> subdominant, <b>a</b> – associated.					
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	ľ	tr.	Rel. dom.		Name tes cretora
E		_		7	- .l	0	Euco	dyptus populmo a
T1	9	7 - 11	5	1	2	&C	A	acia hapophyla
T2	6	4 - 7	<u>S</u>		1-		Cas	
Т3		-				d	45	4
S1	3	1 - 4	<u>S</u>	G	1	2	Hes	ecia boerpophylla
S2	0.6	0.5-	<u> </u>					***************************************
G	<u> </u>	-				d		ssu oyata
Structura	1 1	n: (including height)			2		Cas	sa evera
		odlerd		1   7	9	d	Ans	tida calycing
Ecologic	ally domin	ant layer:		J <u>L</u>	<u></u>			
Geology	r, landfor	m, soils	·			<u>.</u>		
Geology	map/scale	/year:	erin ere er / Arekania in mannar i radok der in manna in ereke der in erek			ray y an dischark the P. M. S. All San San Springers and		er grade hall to the grade and the territories had a supergrade for the constraint of a constraint and the supergrade the supergrade and the supergrade the
Geology	code and	rock types:	♥ \$10,00,000,000 = 100 × \$10,0000,000 = 100 × \$10,0000,000 = 100 × \$10,0000,000 = 100 × \$10,0000,000 = 100 × \$10,0000,000 = 1					
Land sys	stem:				·			
Landfor	m:	la e	ou cla		*******			
Soils:	- 12	de San						
Field ob	servation a	and notes:		Landzone: 9				
				<u> </u>				
	e change	<u> L</u> №						
Į.	RE code:	Not 1						
Propose	ed RE code	· · · · · ·	ctional		Я	· /O	****	



Locatio	ĺ									
Site No.	25 R	lecorder:	A. DuwiE	ے۔			D	ıy/Date: 25/1/	2020	
Purpose			5022							
Locality:	(inc. distanc	ce/direction to neare	est town)	40	SZ	1N	···	***************************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
GPS:		Š	073	4	29	4	70	64903	90A194	
<b>Vegetat</b> Median hei	ion stru	<b>cture</b> DL is to be meas	1815 sured 6057/8	ζ !	Record		numeri	al) dominance for each minant; <b>s</b> - subdomina		
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scier	tific Name		
E	22	20 - 24	r VS		E	d	Eu	calyptus o	crebra	
T1		-			T		P	sent		
T2		_				ļ			1 /Prac	
Т3			VARBOR TO THE THE THE THE THE THE THE THE THE THE		5,	d	Ac	acia moli	ulle 1 ( )	
<b>S</b> 1	6	5 - 7	MD						100 A A A A A A A A A A A A A A A A A A	
S2		-					,*12E100F****	***************************************		
G		-						***************************************	***************************************	
Structura	l formation	: (including heigh	nt)							
Ecologica	ally domina	ant layer:	7							
Geology	, landfor	m, soils	Mall	Lei	e fo	rm				
Geology	map/scale/	year:	Натажен пересерубующей бубоку б. С МИКО Б.Б.К. Б. Б.К. Б. С ТОКУ БИКИ Б.Б.					en i jaji APA hini juliship di ju PHINI AR K K da A Wak PHINI A Will PARA P da A	amentalista kan manan manan ayan ing ing ing ing ing ing ing ing ing in	
Geology	code and r	ock types:	4		******	war war war war war war war a war war wa		***************************************	1. 18 18 18 18 18 18 18 18 18 18 18 18 18	
Land syst	tem:						WARRANT TANKS			
Landform			<u> </u>	******	**********	*************				
Soils:	OV	ange	clay							
Field obs	ervation ar	nd notes:								
				L:	andzone: 7					
RE code	RE code changes									
Existing I	RE code:									
Proposed										

END

Location	i ·		<u> </u>					
14414		ecorder:	A. DAN	IFL	r	******	D	ny/Date: 25/11/2020
	•	50						
Locality:	(inc. distance	e/direction to nearest	town)	los	>7T	11		
GPS:		5	5 073	45	56l	8	70	65514 90194
		"	1816					
Vegetati	on struc	<b>cture</b> DL is to be measur	cal) dominance for each stratum;					
Wedian nei	Median	Height	Est. cover	ı	<u>d – do</u> i	minant; <i>c</i> Rel.	- co-d	ominant; s - subdominant, a - associated.
Stratum	height	interval	density (D,M,S,V)		Str.	dom.		tific Name
Е		·			4		tu	calyphis crebry
T1	16	14-30	<u> </u>		<u>)                                    </u>	4	E	calyptus populea
T2	8	7 - 12	1/5		12	a	1	calypus populacy
Т3			4 15		<u> </u>	<u></u>		europhila untehellii
<b>S</b> 1	5	4 - (	MD	ļ	ر د		90	Hera Parutolia
\$2			~ ====== + + + + + + + + + + + + + + + +		5,	9		rovilla strata
G								
		: (including height)						
11	uu	loodland						
Ecologica	ally domina	ınt layer:/	<u> </u>					
	-							
Geology	, landfor	m, solla						
	map/scale/		HILIPPING THE CONTRACT THE PRESENCE THE PROPERTY OF THE PROPER			y Ayun minun e Mare V annon Meridia		мал тамантын ет обобовой байсан таман анын түүнүй бой байт талуын түүнүй бой талуын түүнүй байсан талуын түүнү
	code and r	ock types:	A A AND IS ANY TRANSPORT TO THE PARTY OF THE		~~~~~~	**************************************	*********	
Land sys					***********		<b>M3</b> 4447	
Landform	AVY *****	1.	dy clas	1			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Soils:	servation a							
rieia oos	ci valion a	ira liutes.		Landzone: 9				
	change							
	RE code:	11.	mapped 9	£y		**************************************		
Proposed	d RE code:		<u> </u>	<i></i>				

Page 23 of 26

Location	1						
		ecorder:	A-Danie	<u></u>			ay/Date: 25/11/2020
Purpose	•	Sl			**** *** *****************************		
Locality:	(inc. distanc	e/direction to nearest	town)	<u>Mo</u>	STY	7	
GPS:		5	5 073	3	15	70	65557 9494
		-	818				
Vegetati Median hei	ion stru ght of the E	<b>cture</b> DL is to be measur	cal) dominance for each stratum;				
Stratum	Median	Height interval	Est. cover density (D,M,S,V)	Str	Rel		ominant; s - subdominant, a – associated. tific Name
E	height	-	delisity (B,w,d,v)	7.		E	calyptus populared
T1	12	10-14	S		04	E	realyphis explorer
T2	9	Q - 11	V S	7,	d	E	californis jopulnes
T3							// /
S1	4	3 - 6	S	5	d	Ca	Ultris of laurophyllo
<b>S</b> 2	<u> </u>	_	人名英格兰 化氯化 医克克氏 医阿拉拉氏试验检 医原性 医皮肤 医皮肤 医皮肤 医皮肤 医皮肤 化二甲基苯酚		.\		<u> </u>
G							
		i: (including height)		ļ			
	ally domina	, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,	丁,				
			/		· ·-		
Geology	, landfor	m, soils	·				
Geology	map/scale/	year:	Harrick (1886) Anna Detak Frankliken i Fina Francisco		·	and the second second second	MATERIANNIAN IL PROVIDENCIA DOCUMENTA NA ANGRES AS ANTONIANIAN EL PROVIDENCIA EL PROVIDENCIA (MATERIANIA EL PR
Geology	code and r	ock types:		~. ** ** * * * * * * * * * * * * * * * *			***************************************
Land sys	tem:			24.00-01-01-01-01-01-01-01-01-01-01-01-01-0			
Landform	n:	<u> </u>	6 (		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Soils:	P"	ue se					
Field obs	servation a	nd notes:		9			
.,				Landzone:			
RE code	change:	<b>5</b>					
Existing	RE code:	Not					
Proposed	d RE code:	1109	a colo	orce	<u> </u>		

END

Location							
Site No.	25 R	ecorder:	A Dec	Lice		D	y/Date: 25/11/2020
Purpose				. A			
Locality:	(inc. distanc	e/direction to nearest	town)	1-60		<u>'</u>	<i>C</i> _ 0 { <i>B</i> t
GPS:			073	542	4	70	05/62 PAY
<b>Vegetati</b> Median hei	<b>on Stru</b> ght of the E	<b>cture</b> DL is to be measur	al) dominance for each stratum; minant; <b>s</b> - subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scier	tific Name
E				7,	d	Eu	coeleptus melanophing
T1	14	12-16	a manda en dels o menos servicios menos servicios dels dels de	7	0	E	caliphis populares
T2	10	9 - 12		12	d	Fu	coleptus uplusifiera
Т3			AND MINERAL AND AND AND AND AND AND AND AND AND AND	1/2	4		
S1			**************************************		_9	Fu	The state of the s
S2	, <u></u>	***************************************	大学/大学/10mm m m m m m m m m m m m m m m m m m m	1	CA	Ca	Mitro glaiscophylly
G		_					
420 mm		: (including height)					
Ecologica	ally domina	nt layer:	A A A A A A A A A A A A A A A A A A A				
Geology	i andida	m, soils	coela po	<del>1</del> 0			
Geology	map/scale/	year:	A R & 1-2-4 VINNEY HAVE THE COMMAND AND AND AND A PRINCE HERE	Name and Address of the Address of t		ng gyperagon y syferiae ad air de	The state of the s
Geology	code and r	ock types:			***************************************		
Land sys	tem:						
Landform	): 	·	.O. A	cn (/	*************		A
Soils:			indy a	7	***************************************		
Field obs	ervation a	nd notes:		Landzone: 9			
REcode	change						
		11.9		·			
Existing	RE code: I RE code:	11. 9	7	<u>.</u> ,			
Proposed	KE CODE:			A==,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	

Page 23 of 26

Location	•						
Site No.	29 R	ecorder:	A. Drwi	EC	10 valo anni 100 va	Da	y/Date: 25/11/2020
Purpose	7	5022			<b>EUJE</b> -1-14E-1-J		. 1 -
Locality:	(inc. distance	e/direction to nearest	town)		************		***************************************
GPS:							GDA94
	<b>On Sfru</b> c	S <b>ture</b> DL is to be measur	il) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scient	fic Name
E		_		7	d	Euc	alyphys populain
T1	12	10-14	٧S	, , , , , , , , , , , , , , , , , , ,			<u> </u>
T2	8	6 - 10	5	T	2 0	Cu	litris glaucophylla
Т3	· <del>-</del>						<u> </u>
S1					• • • • • • • • • • • • • • • • • • • •		
S2		_	1884 (1800 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 - 1700 -				
G		-					***************************************
		(including height)					
Ecologica	lly domina	nt layer:					
Geology,	landfom	n, solls				·	
Geology n	nap/scale/y	ear:	III E E FRANKI IMMINISTERE E E ERIFERMEN I NOM ME VARCONELL I DA	and the state of t	h-1791 - 1881 - 1981 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 1181 - 118		метеринала групичника на такинализата изменья на кантимиската в катимиската в кантимиската в на симентине групич Стата применения на применения на такинализата на применения применения применения применения применения приме
	ode and ro	ck types:	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\				
Land syst		<b>有一种一种,不是一种,不是一种,不是一种,不是一种,不是一种,不是一种,不是一种,</b>					
Landform Soils:	: . ၇	de clo		And the state of t			
	ervation and		·····				
rielu obse	avalion and	i notes.		Landzone:			
RE code	changes						
Existing R							
Proposed		11.9.7					

Location								
Site No.	30 R	tecorder:	ADance	1			Da	//Date: <u>25 (1) 2</u> 62 (2)
Purpose		End Prove	) postve.					
Locality:	(inc. distance	e/direction to nearest	town)	.,,	************	****************		
GPS:		·						90A194
<b>Vegetati</b> Median hei	on strue	cture DL is to be measur	331 ed 60931	4	Plant Record d – do	specion relative (cominant; cominant;  numeric - co-do	l) dominance for each stratum; ninant; <b>s</b> - subdominant, <b>a</b> – associated.	
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		fic Name
E		-				0	Ene	alyphs nubila
T1	16	14-15	\$			,	(a.e	
T2	10	8-4	VS		12	d	Cal	itris glaucophyla
Т3								
S1								***************************************
\$2 2		<u>-</u>	44494899994548489999999999988				********	
G								
Structural	tormation	: (including height)						
Ecologica	lly domina	nt layer:						
Geology,	landfor	n, soils						
Geology n	nap/scale/	year:	NE PLE ENGLISHEN VINNER LINES OFFI VINNER LINES FOR VINNER VINNER VINNER VINNER VINNER VINNER VINNER VINNER VI	g doch a Wasse	differences on death ordinarly objection	g g g dy consigna a sa dy chi d' M dell's desde de chi chi		
Geology o	ode and r	ock types:	***************************************		**********	r w 1970 1970 1970 1970 1970 1970 1970 1970	************	WALLS
Land syst	em:	, Ansaz,		····				
Landform	:	Durib NA		******		***********	·	
Soils:								
Field obse	ervation an	nd notes:						Landzone:
RE code	changes		<i></i>					
Existing R				·				
Proposed			60-16-1-16-1-16-1-16-1-16-1-16-1-16-1-1					

Location	**							
***************************************	24.	ecorder:	nd A	SIES		D	y/Date: 25/11/	2020
Purpose	*	3	222			/		
Locality:	(inc. distance	e/direction to nearest	town)	1-109	574	7		Cn41911
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Vegetat Median hei	ght of the E	cture DL is to be measur	al) dominance for each minant; s - subdomina	n stratum; int, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name	
E	Height	-		Ī,	d	Eu	alyphus 7	opulea
T1	14	12-16	S	T2	d	Eu	colyphus ?	phea
T2	10'	8 - 12	18		ļ	<b>A</b>	( /	· I fi
Т3			######################################	15,	<u> </u>	±1€	mophila u	nitzhellii
51	4	3 - 6	<u> </u>	.,,				
S2			\$24444444444444444444444444444				***************************************	
G		- (including boight)		***************************************	***************************************			
Structura		a: (including height)						
2.2.4.2.2.2.4.7.	ally domina	-	7					
-								
Geology	, landfor	m, soils						<u> </u>
Geology	map/scale/	year:	NO. BLE & D. L. HARRING STATES OF SPECIAL STREET, SPECIAL STREET, SPECIAL SPEC	Color / Voletonia in Indian Prima Prima	ng gagaray annyan andarah sa sa sa sa sa sa sa sa sa sa sa sa sa		A AN AN ANAMANAN MER MER ANAMANAN MERANDAHAN MERINDIAN M	, girki AAAA BELL E K LYUgun AAAAAYAF EARYERRAYUN AA TRA 1994
	code and r	ock types:	· ************************************		alana a mananaka anan yana wa			
Land sys						***************************************		
Soils:	mal	le San	du clas	1				
Field obs	servation a	nd notes:						000ppg
,		***************************************	14 EA FT T BROWN AND THE BROWN BROWN BROWN BROWN					andzone: 1
RE code	change	<u> </u>			<u> </u>			
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Propose	d RE code:	Tunc						
END		SFWI						
		< Stor	e prock	_			:	
		- / I. L	6					

Locatio								
Site No.	32 R	ecorder:	A Boom	V) (			Day	Date: 26/11/2020
Purpose			772					· · · · · · · · · · · · · · · · · · ·
Locality:	(inc. distanc	e/direction to nearest	town)	h	ال	7AV	ME	
GPS:		5	DOTZ	31	77	6	706	6306 amy
			1641					
<b>Vegetat</b> Median hei	ion stru ght of the E	<b>cture</b> DL is to be measur	A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	Record	specie relative ( minant: o	numerical	dominance for each stratum; nant; <b>s -</b> subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (b,M,S,V)		Str.	Rel. dom.	Scientif	c Name
E		_			7	d	Euca	yphes camaldulus.
T1	18	16-22	S		<i>T</i> ,	9	EUN	phy melanophilisa
T2		12-16			1-2	d	Euc	Suptres 11 November or
T3		1	** * *********************************	,				<i>(</i>
S1			NA 5 5 7 7 10 7 10 10 10 10 10 10 10 10 10 10 10 10 10				****	
S2			2 MMM					
G								MARKET CO
Structura	ıl formatior	1: (including height)		_				
Ecologic	ally domina	ant layer:		ŀ	9	d	Ans	rda (white)
Geology	. landfor	m. soils						·· 
	map/scale/				_			AAAAA8
	•	ock types:			*******	**************************************		
Land sys	tem:			220,777,724				
Landforn	n:	************************		*******	****	~~~~~~~		
Soils:	72	<u> </u>	y clay					
Field obs	servation a	nd notes:	Landzone:					
200700000000000000000000000000000000000	22 2000000 pp 200000000 A.W.		A. L. L. S.				• · · · · · · · · · · · · · · · · · · ·	LUIIVAVIIG. meggi <sup>o</sup> .
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Existing	RE code:	+1//						
Propose	d RE code:	11.57	erec.			*****		

	ii.					-	
Location Site No.	***	ecorder:	A Dan	W(		Day	Date: 26 11 2020
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		e/direction to nearest		Juc	$MUF_{3}$	LE	
GPS:		5		448	5	706	13492 CPA94
		14	344	<u></u>			
<b>Vegetat</b> Median hei	i <b>on Stru</b> ght of the E		ed 611//2	Recor	t speci	(numerica	) dominance for each stratum; inant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel.	Scienti	ic Name
E	10	9-12	VS	Lucio Lecura	- American State of the State o	Euc	abyptus popular
T1	-7	<b>5</b> - 9	VS.	P. Carrier	d	Ed	cellythis popular
T2		-	,				3
Т3		-		3	1	Ever	ophila metablellie
<b>S</b> 1	4	2 - 5	S	<i>j</i>			TO THE THE THE THE THE THE THE THE THE THE
<b>S</b> 2		-	**************************************				***************************************
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Structura	l formation	ı: (including height)					
Oen.	Lian	Nural					
Ecologica	ally domina	ant layer:	morphism .	9	0	Ans	nda sp
Geology	, landfor	m, soils					
Geology	map/scale/	year:	Make a P. L. Company C		ada 1918 ili ili ili ili ili ili ili ili ili il	n Volk (NA) F. CORNEL AL III ROF, AL L. F. A	менянция: этичничной обобовать може ветания институтельной сетания и при при от при от при от при от при от пр
Geology	code and r	ock types:	ar a			V 1900 AND A BROWN THE B 1 B B	
Land sys		* >					
Landform	1:		<u>n clulewhin</u>	4	*******		
Soils:	- Pal	2 Saidy					
Field obs	ervation ar	nd notes:	\ <u>\</u>		ana a a a a a da desendad		<u> </u>
	B ( B **** )			************			Landzone:
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Existing I	RE code:	$\Lambda 0 \nu - r$	Cus				
	d RE code:	100	Man no	n- /	yan.	7.00-11	11.9.7

	£5 P*									
Location		<u> </u>	A Bynni	: «£"				/D=+=	) L-	
	7				Supara :		<sup>U</sup>	y/Date:		4060
		57(1)				A 10.	»			
Locality:	(inc. distanc		own)		A Commission	. <i>Y</i> ↑ ↑ \				~~\~\
GPS:		5	1 072	4	89			5151C	96	CD14/4 (+)
			352							
Vegetation structure  Median height of the EDL is to be measured 6/21/2  Record relative (numerical)									ince for eac	ch stratum;
Stratum	Median	Height interval	Est. cover density (D,M,S,V)		d – do Str.	Rel.		minant; s tific Name		ant, <b>a</b> – <u>associated.</u>
E	height	10 - 24			L	1	Ecla	celes	hus D	- Pulver
	4	6 - 10	ς			d	A	00	a 🔷	celso
T2	<i>V</i>		name the same and the same.				1	coles	Ober	celsa Populea
T3			- Harris 1/4 diğin yüyeşimini tari Alban unta Ari'l diğin yör		<i></i>	• • • • • • • • • • • • • • • • • • •	7			
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S2			/ Wind the first of a value of a very transfer of the first very transfer o					******************	A B B STORE THE TO STORE BE STORED IN	No. 10 to 10
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		alled								
Ecologic	ally domina	ant layer:	1						· · · · · · · · · · · · · · · · · · ·	
Geology	, landfor	m, soils								
Geology	map/scale	year:	ANNANT BLE STEER IS ET REFERENCE AND THE STEER STEER BLEEF BLEEF BLEEF BREEF	1500 A.V.A.I		water and common and common to	***************************************	***************************************		APPARTURENTEEN TOO OF A PROPERTY PROTECTION AND A PROPERTY OF A PROPERTY
Geology	code and r	ock types:	化子子 计记忆 人名西西西 金沙人名 计字符 化混合法 医血液性 化压力 化甲基磺胺 化合物 化合物		*********	to the an extension design account to the ex-	V ***********		*******	VA ANA YARU
Land sys	item:									
Landforn	n:	<u>urdelul</u>						**********	**************************************	
Soils:	Pal	r orange	Sie wally	<u> </u>	4	<del>}</del>				
Field obs	servation a	nd notes:	S							· · · · · · · · · · · · · · · · · · ·
										Landzone:
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		104-10	un Note	s- ;	July July	i y pro-	C.		97	111:3:2

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		ecorder:	A Juni &	ne house			y/Date: 26/11/2020
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Purpose	3.2.3022.1000		7.	JILEM	VA	E	A STATE OF THE STA
GPS:	(inc. distanc	ce/direction to nearest		********		70	65192 GDA194
GPS.		·—. — ·	365	S. general Section	Transfer	1 .	A Manager to A Man
		1					
Vegetat Median hei	ght of the E	DL is to be measur	6137/	Recor	d relative	(numen	al) dominance for each stratum; minant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median	Height interval	Est. cover density (D.M,S,V)	Str.	Rel.		tific Name
E	height		<b>ability</b> (2),11,2,17	1 7	d	E	alyptus popular
	11	9-13	5	十	a		uarma latistata
T2	-7	6 - 9	5	-			calyptus popula
·	1	<u> </u>		1 2	c	Cer	suaring cristates
T3	4	3 - 6	S	12 12 5,			nophila mitchellii
S1 		0.4.0.8	VS	5,	C		Hera DavVI Tova
S2	0.5	0 -0.4	VS				
G		· · ·		5,	<del> </del>	M	avienae Villosa
		n: (including height)		52	-		pon>/eltranHi
<i>\</i> .	all!	walle	<u>a</u>	1 c,			ustrula so
Ecologic	ally domina	ant layer:	1-1			*	
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Geology F	, landfor	m, soils					
Geology	map/scale	/year:	PROCESS Explosion to the State Control of the Contr	H Lafteria P. B. a resided approximate designed by	erania de desta de esta esta esta esta esta esta esta est	and described of the Reserve	PER PERSONAL PERSONAL PERSONAL PROPERTIES IN CONTRACTOR AND ARREST ALL PROPERTIES IN CONTRACTOR IN C
Geology	code and r	rock types:	~ * * * * * * * * * * * * * * * * * * *	,	5.000 V V/W V/A A A A A V V V W	*****	
Land sys	stem:	Δ					
Landforn	n:	Hot .		<b></b>		************	-
Soils:	pali	e Sandy	clay		************		
Field obs	servation a	nd notes:		Bussia 2 2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4			G
							Landzone:
RE code	change	<b>s</b>	·				
	RE code:	10			,		
ł	d RE code:	1)	1.910				a. v
		A Company of the Comp	THE THE TAX AND THE THE THE TAX AND THE TA				
END	>+	lollows Docorf					
	\ T1.	melily					
	250	. selet	W				·

Location	1						
Site No.	36 R	ecorder:	y/Date: 26/11/2020				
Purpose		SD22					
Locality:	(inc. distanc	e/direction to nearest					
GPS:							an194
<b>Vegetati</b> Median hei		cture DL is to be measur	II) dominance for each stratum; ninant; <b>s</b> - subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Pal		fic Name
E				T		Cas	uarina cristatu
<b>T</b> 1	12	9-15	710	12	c(	Co	waring cristular
T2	7	6 - 9		1.	a	Eu	codyphus populnes
Т3		-				<u> </u>	
S1	4	3-6	VS				
S2				S	, 1	fre	mophila mitchellii
G		-					
Structural	formation	: (including height)					
Ecologica	lly domina	nt layer:					
Geology,	landfori	n, soils					
Geology r	nap/scale/y	/ear:	and a second of the second of the second of the second of the second of the second of the second of the second	armer racement hours de	ERROR LINE ON BY ST. W. EY WERE DE F.	1 NOTES I F 12-4 TO F. AND 10-1-1-1-1	AND THE PROPERTY OF THE PROPER
Geology o	ode and ro	ock types:		****************		***********	
Land syst	em:						
Landform			CO 10 200 1 A 10 10 10 10 10 10 10 10 10 10 10 10 10				
Soils:		Note of Commences in the Commences of Commen					
Field obse	e <b>rvation</b> an	d notes:	Landzone: 9				
RE code	changes						
Existing R			· · · · · · · · · · · · · · · · · · ·				
Proposed						n ame broomeranno acce.	

Location	1							
Site No.	37 R	ecorder:	A BAN	IEL				ay/Date: 26 11 2020
Purpose	•		22_			GAN		
Locality:	(inc. distanc	e/direction to nearest	£					
GPS:		3	64284 GDAIGY					
		(						
Vegetation structure  Median height of the EDL is to be measured  6152 53 Plant species  Record related to								cal) dominance for each stratum; ominant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scie	tific Name
E					7	<i>C</i>	A	suanna constates
T1	5	4 - 7	VS		1	<b>C</b> .	6	suanua constated
T2	3	2 - 4	9		$T_{t}$	<u></u>	4	eyera zarvifloru
Т3			AND AND THE WASHINGTON AND AND AND AND AND AND AND AND AND AN	-	11	<u></u>	E	ethophila mitchellii
<b>S</b> 1			NOTES STORES OF NOTES STATEMENT OF STORES STORES STORES STORES STORES STORES STORES STORES STORES STORES STORES		12			As Hoove
S2			. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				*****	
G						·		
	formation	: (including height)				· ,		
	ally domina		T <sub>1</sub>					
Geology	landfor	m, soils						
Geology i	map/scale/	year:	aj mesa trig a sejanyayanini kini (1888/Abininin DV-1811 F.A 1188/1188	111 W 11 T 1 T 1 T 1 T 1 T 1 T 1 T 1 T 1			manan ar ar ar ar ar ar ar afara	NOTE A MANAGEMENT PROPERTY CONTROL OF THE PROPERTY OF THE PROP
Geology	code and r	ock types:	*******************************	*****	, may' = 14, pr 14, 46 may 16 at			
Land syst	tem:							
Landform	1:	Max	7	- f				
Soils:	<u> </u>	udy U	stones mixelongin					
Field obs	ervation ar	nd notes:						
	· ************************************		Landzone: 7					
RE code changes								
Existing I	RE code:	not						
Proposed	d RE code:	11.04.	futur	<u>(</u>	1	1.9.	10	

Location				_				
Site No.	<u> </u>	Recorder:	A. Duni	£		0	ay/Date: 27/1/	2020
Purpose		5						
Locality:	(inc. distar	nce/direction to near	rest town)	USER	100	<u> </u>		**************************************
GPS:			55 073	101	<u> </u>	70	56939	GDA194
			1896					
Vegetati Median hei	on stri ght of the	ICTURE EDL is to be mea	suréd	Reco	nt spec ord relative dominant	e (nume	cal) dominance for eac ominant; <b>s -</b> subdomina	h stratum; ant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str	Rel.	1 10	tific Name	
E				T <sub>1</sub>	d	Eu	aliphus po	pubner
Т1	8	7 - 10	) VS	72	1	E	calyphus 7	opular
T2	6	5 - 7	7 VS	$ T_2 $	_ C	tu	-	relamphlora
Т3				I		Ca	litros of lan	CODY/UN
S1							·	
S2		***************************************					***************************************	
G		_						
Structura	. 8	on: (including heig	ght)		·			
Ecologica	ally domi:	nant layer:	7					,
			ţ					•
Geology	, landfo	rm, soils		_	<del></del>			
Geology	map/scal	e/year:	· · · · · · · · · · · · · · · · · · ·	***************************************			The second secon	A COMMENTAL STREET OF A STREET SPECIAL STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET S
Geology	code and	rock types:		**************************************	A BOOK WAY TO A - A - A A A A A			
Land sys	ţ.	<b>4.</b>			**************************************			
Landform	n: <u>P</u>	alu.	1	.,	~/ <b>**</b> ********************************			
Soils:	— P	de Se	sycrey.					
Field obs	ervation	and notes:	· · · · · · · · · · · · · · · · · · ·	laka da kulu bawa waka ce san	y y y y a martin de la companya de l	da darkelina a riberre me		andross:
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RE code	chang	es	<u></u>					
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Proposed	d RE code	e nou	-ren Tu	uchic	nal	1/2	7.7	

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## A 3.3 Sheet D – Regional Ecosystem type assessment site

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		ecorder:	ADMEL		*****		ay/Date: 27 11 2020
Purpose	Ĩ		322				
Locality	(inc. distanc	e/direction to nearest	town)	Majon	<u>. ala.</u>	مرب	100 100 100 100 100 100 100 100 100 100
GPS:	•	5	5 072	149.		w. ya	58647 GDA 94
<del> </del>			116				
'eaetat	ion stru		12.11	Plant	speci	es	
/ledian hei	ight of the E	DL is to be measu	red C	Record <b>d</b> – do	relative minant; o	(nume c – co-	cal) dominance for each stratum; ominant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scie	tific Name
Е		_		7	1	Eu	alyphus polmog
T1	8	6-11	S	72	a	Cox	su amusi cristatos
T2	- Committee	3 - 6	5	E.c.			
тз		_	TO THE PROPERTY OF THE PROPERT	5,		Fix	mophila mitchellii
S1	)	/ - 3	VS				
S2	0.5	602 - 1	V5				
G	0.2	0-03	VS	52		6	suarina constituta
	<u> </u>			<u> </u>			The second secon
	6.4	n: (including height					and the state of t
	<u>(Noocl)</u>			G	1	1	Ada SD
Ecologic	ally domina	ant layer:	<u> </u>			1/2	
			e e				
Seology	r, landfor	m, soils					
Geology	map/scale	/year:	orish dalah fabil 1148-11660-1170-00000 dalah Radio F.F. (1884-1990-1	gal di disente dell'estatti il futbolica della disenta	** 1818****** With -****** ** 286688 818		долже V М. СМИТ ШИШ 1919 МДД 1919 М. 1950 М. ЗАМИНИ ШИВИТИР 1910 М. 15 М. 14 А. 1. ВИГ ШТООО М. К. 1. ВАВИНИЯ С
Geology	code and r	rock types:		*************************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	* **** *** ***************************	
Land sys		1					
Landforn	_ A	1414				**********	A CONTRACTOR OF THE CONTRACTOR
Soils:	Pal	L Clay					
Field obs	servation a	nd notes:		*** > d*****			
		199899	No. 2 to 1 very published to 10 very published to 1				Landzone:
RE code	change	<b>S</b>					
Existing	RE code:	not ma	rpped				
		: Function	11.9.1	0			
END							
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		CONCI V	55V				
		用心型的 图书	* / *				

Location								, , ,
Site No.	40 R	Recorder:	4 DUNK	L			Q	ay/Date: 27 11/2020
Purpose		SDZ	and the second	~~			<u></u>	<u> </u>
Locality:	(inc. distanc	ce/direction to nearest	sus / Karldock					
GPS:		5	59551 99A (U					
<b>-</b>		ľ	get					·
<b>Vegetat</b> Median hei	i <b>on stru</b> ght of the E	<b>cture</b> EDL is to be measur	cal) dominance for each stratum; ominant; <b>s -</b> subdominant, <b>a</b> – associated.					
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		tific Name
E	-	-			T	d	Eu	alypta's populacy
T1	18	16 -70	5		2	1	Cu	suctive on sent
T2	12	10 - 14	2			,		
Т3				<	7	d	Eve	ucophila antibellin
S1	6	4 - 7	V S					
S2			N 25 25 4 4 4 4 70 70 7 25 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7					
G	0.7	0 -003	VS					
		n: (including height)						
Ecologica	ally domina	ant layer:	Ţ		9	d	ter	eropoekn asimulans
		<u> </u>						Ů
Geology	, landfor	m, soils				_		
Geology	map/scale/	/year:	h die e die stelle erregen ze en en en en het man den den de de delen de delen de de			entresent process from the desirability of the		THE PART THAT HE COME AND ADDRESS AND ADDR
Geology	code and r	ock types:			********		~	
Land sys	tem:							
Landform	1:							
Soils:	Plan	n Pale	: Secolyk	Ç.s.	1			
Field obs	ervation a	nd notes:	Carrier special and a state of the state of	·>>=				G <sub>1</sub>
								Landzone:
RE code	change	***						
Existing	RE code:	yout t	topped Lipha			···	. <b></b> ,	
Proposed	l RE code:	Rance	ent for		~ OL	~e.\	,	-9-10

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9	0.3			ļ	MD	
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		- 2	and annual comment of	The state of the s
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A Transcription of the Property	7,	6	1	Bucalyphy moluccand
The state of the s	T	4	4 <	Firedyphus popular
	Tz	A Complete to the second secon	d	Eucophes andrews
A Company of the Comp	7,	A STATE OF THE PROPERTY OF THE	8	Geyera pomiflera
Months from the second section of the second	5,		æ	Acana Sherylai
Control of the Party of the Par	$S_{Z}$	Programme and the second secon	d	Cons ovatel
	to the state of th	C.Maria		The state of the s

Meyu max

Soils

pale brown clay

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Photos 6261 6262

Location							
Site No.4	42 F	Recorder:	/Date: 23 11 2020				
Purpose		5022					
Locality:	(inc. distanc	ce/direction to nearest	***************************************				
GPS:		5	1 1 1 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1 9 1				
<b>Vegetati</b> Median hei		cture EDL is to be measur	l) dominance for each stratum; inant; <b>s</b> - subdominant, <i>a</i> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scient	ic Name
E				1	cl	En	alyphus populary
T1	<u>tr</u>	9-12	5	Tz		Call	tris glaucophylly
T2	7	6-9	VS	**********			V
Т3							
<b>S1</b>		-			······································		Y(3.44.N44)Y(1,1).544.X44Y(1,1).542.X4.X4(1,1).543.X4(1,1).543.X4(1,1).543.X4(1,1).543.X4(1,1).543.X4(1,1).543
<b>S2</b>						************	***************************************
G		-					
Structural	formation	o: (including height)	()				· ·
Ecologica	ily domina	ınt layer:					· ·
Geology,	landfor	m, soils					· · · · · · · · · · · · · · · · · · ·
Geology r	nap/scale/	year:	TOLOGY BOOK STANDARD FOR PROPERTY FOR PROPERTY AND PROPER				мыним сыны ере чирын маламы оры түшкин каламы каламы маламы алу ушуучуу үчү каламы ала тайын ала тайы маламы а
		ock types:			*** 10 0000000	************	4,000,000,000,000,000,000,000,000,000,0
Land syst	4.40400						
Soils:	· <		****	\$241W0044A4440W004A444A4440W0014A44A1W00W004AAAA79W004AAA79W004AAA79W004AAA79W004AAA79W004AAA79W004AAA79W004AA			
	ervation ar	nd notes:					
			Landzone: 5				
RE code	changes						
Existing R		11-5					
Proposed		71	5.5.	,			

43 R	ecorder:	//Date: 25 11 2020				
•						
inc. distanc	e/direction to nearest					
		90A194				
o <b>n struc</b> ht of the E	<b>cture</b> DL is to be measur	l) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.				
Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scient	fic Name
		. [ ]	T,	d	Euc	elyphus melouophloia
				1		<u> </u>
10	8 - 12	6	12	d	(a)	itms/glaucophylla
	*************************************	рау каруу жана жана калан жана жана жана жана жана жана жана				/
		EMPAA 70 AN NEWS TA 30 SAN BYS TA STEERA NES DAA .				***************************************
		*************************************			·····	
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£ 1						
landforr	n sells					
		MINE I AN MANAGEMENT IN EACH STOLE THE STOLE THE STOLE THE STOLE THE STOLE STATES OF S				оприменения на применения применения применения в применения применения применения применения в применения в п
	ck types:		******************			
m:			**************************************			
n a	la Sad	a Clari			*************	
. 7	·					
		Landzone:				
hanges						
E code:	,					
RE code:		THE RESIDENCE OF A STATE OF THE PERSON OF TH	**************************************	<b>.</b>		
	inc. distance  In Struct  In of the E  Median height  I 4 / 0  formation:  y domina  andform  ap/scale/y  ide and ro  m:  vation an  hanges  code:	inc. distance/direction to nearest  in structure In of the EDL is to be measur  Median Height interval  14 12 - 16  10 8 - 12  formation: (including height)  y dominant layer:  andform, soils  ap/scale/year: Inde and rock types: Inde and notes:  hanges  code:	inc. distance/direction to nearest town)    1836     1600   0       1836	inc. distance/direction to nearest town)    1836	inc. distance/direction to nearest town)    1836	inc. distance/direction to nearest town)    Structure
**END** 

Location	j						
Site No.	44 R	ecorder:	//Date: 27/11/2020				
Purpose	*	<u>S02</u>					
Locality:	(inc. distanc	e/direction to nearest	***************************************				
GPS:			900194				
<b>Vegetati</b> Median hei	on strue	c <b>ture</b> ( <sup>°</sup> DL is to be measu	l) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scient	fic Name
E				Tj	d	Eu	alyptus populaca
T1		9 - 13	S	17	d	Cal	alyptus populasa Litas glacicophyla
T2	7	6 - 9	S-ND	Tav			·
Т3		.vgsv.514.4.4.000000001.4.1.00000000000000000	AND AND RESENTANCING A DESTAURANCE OF RESENTANCE OF DE-		***************************************		
S1		_	**************************************				**************************************
S2		<u> </u>					
G		-				**********	
Structural		(including height) : کاکونک	-1		***************************************	gan a tha deiliún an deiliún a chap a d	
Ecologica	- <del></del>	nt layer:					
		· ·					
Geology,	landforr	n, solls					
Geology n	nap/scale/y	/ear:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	de del della companie de collègica e Mandre con con			and the state of t
Geology o	ode and ro	ock types:	***************************************			***********	***************************************
Land syst	em:	-				***************************************	
Landform	**********		***************************************	**********	***************************************		
Soils:	Par	le facili					
Field obse	ervation an	d notes:		e***3			
			Landzone:				
RE code	changes	·					
Existing R	E code:				· dd d	<i>-</i>	
Proposed	RE code:	19.7	regrowth		W 2 C A . W TO E POWER PAUL CO.	n and the special section of the se	***************************************

Location					•		,					
Site No.	45 R	ecorder:	A. Dun	11EC	AND AND AND AND AND AND AND AND AND AND	Da	v/Date: 27/11/2020					
Purpose	•		22				' (					
Locality:	(inc. distanc	e/direction to nearest	town)	*********	*****		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~					
GPS:					. [		904, dt					
<b>Vegetati</b> Median hei	<b>on stru</b> ght of the E	<b>cture</b> DL is to be measu	957 <sub>62</sub> 49	Reco	n <b>t speci</b> ord relative dominant;	(numeric	al) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.					
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str	Rel. dom.	Scien	fic Name					
E		-	***************************************	$\mathcal{T}_{L}$	c	Eu	alyphus crebra					
T1	16	14 - 18	S	$I_2$	<u> </u>	Eu						
T2	10	8 - 14	<u>S</u>		લ	Sim	Villea Stricta					
Т3			dala de tita terrata meloste terre menditita terditando.		a	Ac	acia Shirlyel					
<b>S</b> 1			****************************				# E					
S2		· _	la la almandria d'unicia la cid Nordindo d'Anna 2000. E color el defenda la la cid N									
G		<u>.</u>					***************************************					
Structural		: (including height)	4									
Ecologica	lly domina	nt layer:	Ţ <u> </u>				· .					
		,										
Geology,	landfor	n, soil <b>s</b>										
Geology n	nap/scale/y	/ear:	NIN BANY SYAN BANKBANY BANKSTANA BANBAY SAKATANA BANBA	FOR THOMAS WARRING LINES AND A	and and the state of the state	tion to the state of the state	WARRICK DER CHEST W. AND ENDER DE CONTROL OF A CALLEY BOOM WARRICK DE CONTROL OF A STANDARD THAT IS A CHEST OF THE CONTROL OF					
Geology o	ode and ro	ock types:										
Land syst	em:											
Landform		·		1	**************************************		***************************************					
Soils:	_red	Stopy So	ud pol	1 She	d p	اطناء	7					
Field obse	ervation an	d notes:	Heriotore escaped									
**************************************				Landzone: 5								
RE code	changes											
Existing R	RE code:											
Proposed	RE code:		xisting RE code:									

Location	n .							
Site No.	46 R	Recorder:	4 Dans	16			Da	//Date: 25/112020
Purpose		Sn	_					
Locality:	(inc. distanc	e/direction to nearest	town)				***********	
GPS:		5	5					GDA 94
<b>Vegetati</b> Median hei	on stru ght of the E	<b>cture</b> DL is to be measur	821 ed 6077	F	Record	speci relative minant; d	(numeric	al) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – assoclated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scien	fic Name
E	-	-			T,	d	tu	alphas popular
T1	14	12 - 16	S		$7_{i}$	q	Fu	alliphis exclora
T2	8	6-12	6	-	72	d	6	litro glaceophilla
Т3		_			-		***********	0 1
<b>S</b> 1	***************************************		***************************************					***************************************
S2			######################################	ŀ				
G		-						
Structura	1/ 1	i: (including height) ນ້ອວວ່າ ໄລ	<u></u>					
Ecologica	ally domina	nt layer:	<u> </u>					
Geology,	landion	n sols		<i>N</i>	10	CT	ista	a or burpoplyla
Geology r	map/scale/	year:	OF ANYSMA SASSABLE F F PHI SHARING HERE PROPERTY SHARING			ngag ng ng ganan ng ana shekita na na dashek	han i i Vindi d'Addin de de de de de	N .
Geology	code and re	ock types:	***************************************	/		**************************************		
Land syst	tem:						SAMERIC PROPERTY.	
Landform	:				*******	************	************	
Soils:	**********************	AAF EZIMBINI PERINTIN IN THE TOTAL T						
Field obs	ervation an	nd notes:						Landzone: 9
RE code	changes	· ·						
Existing F	·-							
	RE code:	11.9	. 7					MANAGARA ANA MANAGARA



Location	1							
Site No.	47 R	ecorder:	A Danie				Da	/Date: 25 (1/2020
Purpose		SI	D22_					
Locality:	(inc. distance	e/direction to nearest	town)					A
GPS:		5	<u> </u>					CPH 144
<b>Vegetati</b> Median hei	<b>on stru</b> ght of the E	c <b>ture</b> DL is to be measur	) dominance for each stratum; inant; <b>s -</b> subdominant, <i>a</i> – associated.					
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		ic Name
E		-		100	7	d	Euc	algebras melanopholy
T1	14	12 - 16	<i>V</i> 6	:	,			1
T2	7	4-9	5	-	1-2	_{	Cal	itris gloucoshylla
Т3			****		Control			<u> </u>
S1			49 F N M P F F W N I M M M M M M M W W W W W M M M M M M M					***************************************
<b>S2</b>			ND669 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0					NORTH CONTROL OF THE PROPERTY
G		_						
Structural	formation	: (including height)	<u></u>			·····		
Ecologica	lly domina	nt layer:	T.4					
Geology,	landfon	n, solis	•					
	nap/scale/	44	ALT SAFARAMINAMILE CHI HURNINEW CHONMIN				onessen i d'aditione existe respensable	aminda (tid Padrino) ildistatud/aman (di) a ilmumahinda a ildistatudiken eta Penyapul Padom, dalib
	ode and re	ock types:			~~*=-*- <b>*</b>			
Land syst	1	A. 1.1.					***************************************	
Landform Soils:		رمات حام						
	ervation an							
, 10.4 050	, valion an	,	anta () anni a vival a atra	Landzone:				
RE code	changes							
Existing R		·						
Proposed		11.9.						
•			7 (Non			CONTRACTOR VASIAN	I word out to Affilia to a	

## Vegetation Structure Site Inspection Sheet - Proforma

Locatio							٠	
Site No.	48 R	ecorder:	ADunik	人		-		ay/Date: 23 (11/2020)
Regiona	ecosyste	em:	\$027	abr'	(-	2 <b>E</b> 1	11.	10
Locality:	(inc. distanc	e/direction to nearest	town)		WЧ	ENA	<del> </del>	
Vegetati Median hei Cover dens	ght of the E	DL is to be measur	ed 5965/6	, •	Record	speci relative ominant;	(nume	5 % 7 cal) dominance for each stratum; ominant; a – associated; s – suppressed.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scie	ıtific Name
E					7	1	Fu	alphas popular
T1	12	10 - 14	5		12	Œ		esuanua crotada
T2	C	6-10	S		TZ	<u>_</u>	Ad	acia happeplyly
Т3		_		-	5,	d	Ge	em parvifora
S1	4	3 - 6	S		5,	a	M	ectryon diversity/lings
S2		0.5 - 1	<b>U</b> S	-		<u> </u>		
G	0.5	0 - 1	<i>V</i> S		S <sub>2</sub>	<u>d</u>	Ca	nssu Watel
		: (including height)	1					
	į	1 Word	£1					
	Illy domina	nt layer: 1/						
Notes:	14.4	FWM		-				
71 9 44	Zan)	litter		ľ				
nativ	e and	US wed	in the state of th					
	T T	<b></b>						,
					***************************************			
Fund	tronga	1 ESM						
	Cat	B			9	d	Na.	stadue une total
		<u></u>			9	a	E	Holusia Stricty
Notes		11.910	2)	-				
Disturba	nce:	logettu4	Drevious		lear	407		
				\$		J		
Weeds:								
		·				·	,	

Landzone:

	Locatio	ň						. ) )
	Site No.	R	ecorder:	5^	<u> </u>	*****		ay/Date: 23   11   20
	Purpose				1			
	Locality:	(inc. distanc	e/direction to nearest	town) Wal(J	242		70	59757 0766
•	GFS.			<u> </u>	>     4		710	7 1 1 7 2 1 7
	Vegetat Median he	ion stru ight of the E	<b>cture</b> DL is to be measu	red	Record	speci relative minant, o	(numer	cal) dominance for each stratum; ominant; s - subdominant, a – associated.
1.	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name
Ke)	Ε	4	14=16		11	D	$\epsilon$	ibios nubila
3929	T1	18	16-20	M	12	7	R	shalen
Land F.	T2	15	12-66	5	7			<u> </u>
5920	Т3	3	2-9	V	13	1. <i>Y</i>		c chodosolon
5936	S1					0	<i>!</i>	telostione pubescio
931	\$2	ر ع	***************************************	M				
**F		1		<u> </u>	G	(i)	A	reisteachne uncinula
73	2 Structura	il formation	: (including height)	1		0	A	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	Ecologic	ally domina		(				53.134
						1		
	Geology	Jandfon	m, soils			٠.		
	Geology	map/scale/	year:					
	Geology	code and re		· · · · · · · · · · · · · · · · · · ·				
	Land sys	tem:		<u>~~</u>	· ····			
	Landforn	n:	Midselo	T.	·/		f	
	Soils:	U V	15 M	loon	La	13	40	rock
	, ,	ervation ar	nd notes:	-ideot-p L		<u>ज*् ८</u> ो	40711	timber, lot & long
	(20)	b, ma	t mk !	300 1 C 10	en ka	Jan 3 1	<u></u>	Landzone:
	RE code	change		11010				
	Existing	RE code:	11.73	/119.10				
	Propose	d RE code:	كالحال	<del></del>				
	END		11.	7.4				

Locatio	ñ				, <u>, , , , , , , , , , , , , , , , , , </u>		
Site No.	2 R	ecorder:	MI D	5		c	ay/Date: 23/11/20
Purpose				}			, , ,
Locality	(inc. distanc	e/direction to nearest	town)	Hum	bolla	4	in PT and
GPS:		5	5 072	350	8	70	59874 077
	:						
Vegetat	ion struc	eture		Plant	speci	es	
Median hei	ight of the E	DL is to be measur	ed	Record	relative	(numer	al) dominance for each stratum; ominant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name
E	6~	5.8	P	TI	d	A	radordon
T1 <sub>.</sub>	R-S	া ≸ - 8	D				
Т2	<u>S</u>	<u> 1.0. 3.</u>					
Т3		-					
<b>S</b> 1		-					
S2		_					
G		•					
Structura	ıl formation	: (including height)					
bw:	ر سورد	Charles 4	Sw				
Ecologica	ally domina	ent layer:	!				
	<del></del>	<del></del>					
Geology	, landfor	m, soils					
Geology	map/scale/	year:					
Geology	code and re	ock types:					
Land sys	tem: 🚆	90000	Laboration and the second				
Landforn		. "		e L	900	دع	: 4
Soils:	b	son s	moch!				
Field obs	ervation an	nd notes:	a boxlandak	<u> 2014</u>	(eq		& A. cooper
	15 m	-2-acello.	o. Lhat	250 m	$r \propto \lambda$	-5.e	Ma quacin, Landzone:
RE code	changes	<u> </u>					
Existing	RE code:	HUR					<b>Y</b>
Propose	d RE code:	#1 <del>9</del>	regroup	· (vaj	( % W	~ ~ a	( )
END		11.7:	Z.		· · ·		

Site No.	<u></u>	ecorder:	s MH	r ran ran and rate de de de	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	D	y/Date: Tue 24/11/20
Purpose	·				1		
Locality:	(inc. distance	direction to nearest		************			
GPS:		S	55 072	3 2 9	8	20	5 9 6 8 9 D 7
<b>Vegetat</b> i Median hei	ion struc	<b>ture</b> OL is to be measu	C5-q	Record	speci I relative	(numeri	al) dominance for each stratum;
	Median	Height	Est. cover	d − do	minant; «	c – co-d	minant; s - subdominant, a – associa tific Name
Stratum	height	interval	density (D,M,S,V)	J	dom.		
E	15	11 -13	<u> </u>	6	C		populmea
T1	\ \mathcal{G}	5 - \$9	5	2	<u> </u>	€.	Crefic
T2	3	3 - 5	5	E	С		Cartala
<b>T3</b>	4	+	<b>—</b>	71	9	ے	
<b>S</b> 1	١ ١	\ _ 2	J	11	С	WE.	n.tcheljia
S2		<del>-</del>		11	C	A	solicena
G	1600	01-95		11	a	Ba	papulara Cupestais
Structura		: (including height		12	c	A	been hipsphila
		napper		72	c	E	mitchelle
		nt layer:		SI	₫.	E	n.tchelii
Ecologic	any domina	in layer.		<u>9</u>	0	<b>6</b>	enchois Ciliaris (buffel as
7 . I	r, landforr	a Salië		ું વ	a	•	a sycarpson tong
	CALL X C P S T T T T T T T T T T T T T T T T T T	:	<u> </u>	चु	9		Mariana marraphyla
	map/scale/y		MATTER STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE S	5	C1		carisso ourta
-	code and re	. \		5	30		schlerolgena buchi
Land sys	1 A	2.4	ono contri		1		
	n: <u>१</u> ८०	1	. \	13/1/2	mall	<b>6</b>	
Soils:	1.4/4	props, P	is a disty			1	es coverage,
Field ob	servation ar	nd notes:	71000 10401	<u> </u>	<u>nair</u>		J
		Manager	## P4				Landzone:
RE code	e changes	<b>3</b>					
Existing	RE code:		HUR				
i -		H-	2 11-2		AU1	Q (1	195

**END** 

Locatio	ů							
Site No.	4 R	ecorder: 🥂	, n	} }			D	y/Date: 24/11/20
Purpose		<u>\</u>			····/}/	ļ		
Locality:	(inc. distance	e/direction to neares	town) well	υy	nbil	17		~P+
GPS:		5	5 072	3	3 2	[5]	70	19622 1973
	i							
Vegetat Median hei		<b>cture</b> DL is to be measu	red		Record	speci relative ominant; o	(numeri	al) dominance for each stratum; minant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		ific Name
E					11	2	A	as Acacia shilly)
T1	11	10-12	M					*
T2	6	4.8	5		12	a	4	menia verese?
Т3						a		cocie heyloplylla
S1	1	0 - 2				<u> </u>	Ac	acia shirtyi
S2		-				-		
G		< 1.			5)		6	risse ovete
E .	od (	ı: (including height ←	) II n		6	D	A	stida renosci
Ecologic	ally domina	ent laver:	<u></u>			5	C	relies ciliais
		*		1		<u>م</u>	A	stick celicini
Geology	, landfor	m, soils					Ì	
Geology	map/scale/	year:						
Geology	code and r	ock types:						
Land sys	tem:	Roch	Sump	L	}			
Landforn	n:	beHon	. J- sle	P	ra.			
Soils:	LI	51t bu		X	< lo	$ \leftarrow$		
	ervation a	nd notes:		· 		···r	<del>,</del>	
		Sm.	all pete	بار		ല് .	ene	ewood Landzone:
RE code	change	5						
Existing	RE code:	HV	14					
	d RE code:	() -	7.2			_,,,,		
END								, ) )
LIND				Brochadre SP.				
				Brochacture SP.				
								Page 23 of 26
								, ,
							1	Dusplaner organism

**END** 

,	Location									
	Site No.	5 R	ecorder: D	WH			Dŧ	y/Date: 24//	420	
	Purpose		· · · · · · · · · · · · · · · · · · ·		1	11.			py-possessessessessessessessessessessessesse	
	Locality:	(inc. distance	e/direction to nearest		Munh	1/W~	·		Mug	
	GPS: 7	42	5	5 012	4 6 4	ا عا	10	19903	AVD GU	
	Vegetati				Plant	speci	es		GDA	
	Median hei	ght of the E	DL is to be measur	ed	d – do	minant;	(numerii c — co-di	ical) dominance for each stratum; It minant; <b>s -</b> subdominant, <b>a</b> – associated.		
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ific Name		
	E	18	19 -19	V	6	D	E	filtosa c. Rhedeon	mbla	
	T1	9	7-10	M	11	<u>)</u>	Δ	c. Rhedow	d and	
	T2	6	4-4	V	12	γ	Δ	0500000		
	Т3			O MARION NAME OF THE PARTY AND A PARTY AND						
	S1		**************************************	**************************************				,	; .www.a.a.nnd+5.YY.b.h.a.awn.nn+4.YY.b.h.a.n.a.v++6.4b.Wi	
	S2			- - - - - - - - - - - - - - - - - - -	6	D	Ce	elves ei	Les es	
	G		<60em	5			Δ	istide cali	yera	
,	Structura	ıl formation	n: (including height)	)			1)	Marin en	natr	
	Ecologic	ally domina	ant layer:							
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		, landfor								
		map/scale/			a Maranta I. Patanta (Papa) spronoces his coloris et Vandere e	maken an america process and defectively	on lateral and a recommend of	A PRICE SECTION OF A SECTION OF S	ngag galjakovivat i pili 14 tirong valakovillata pili progrejejskovilati severi ved	
	Land sys	code and r	Junes.	UPS		.,	*****			
	Landfor	L	and of	slope				***************************************	***************************************	
	Soils:	6	reg C	lan						
		servation a	nd notes:	Lots a	of f	all	<u>~</u>	taker		
			40	· ELY	er c	70	$   \sqrt{2} $	L	andzone:	
	DE and	change		1		•	- 1:			
		RE code:	11.1	.3/11.9	10					
	_	KE code:	. 11-6	7-2	***************************************					
	Fropose	a NE Code.	•							

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6 5863 6 5864

C31 5865

Location	•				·		
Site No.	6 R	ecorder:	DS +MH			D	1y/Date: 24/11/2020
Purpose			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	······································			
Locality:	(inc. distanc	e/direction to nearest	town) Ual	(and)	1		
GPS:	1821	5	53072	430	ì	<u>っ</u>	59735 D
<b>Vegetati</b> Median hei	on struc ght of the E	c <b>ture</b> DL is to be measu	red	Record	specion relative (	numer	al) dominance for each stratum; bminant; <b>s</b> - subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name
E	ð Ó	18-21	2	Eà	d	$\epsilon$	Crebre
T1	17	15-18	N	TIS	d	A.	Shashi
Т2	6	5 -7	M	TL	d	A,	(Odexalon
Т3			***************************************	51	d	ρο	certic plant (to Lotup
\$1	125	0.5 - 1	V				
\$2			**************************************	9	<b>5</b> 5	la	nandra phylafolia
G	A POST		W	$ \widetilde{g} $	<b>6</b> 5	a	phores exteta
Structura	I formation	: (including height)	· ·	9			Acistus capromodusi
 	oper	Pares !		9	S	2	Cherus trancata
Ecologica	ally domina	ant layer: 🗼	\	9	d	A	relation plumpage
Geology	, landfor	m <b>, soils</b>	<u></u>				
Geology	map/scale/	year:	The state of the s		y,		The second desired and the second sec
Geology	code and r	ock types:		501200 1001200			
Land sys	tem:	Jemp 1	102				
Landforn	n:	Maker cours	e leading	owo)	tron	n ps	Ja
Soils:	5.0 AV VV V <b>V VV V</b>	brown, s	and, loor	- Mary			<u> </u>
Field obs	ervation a	nd notes: 📉	apped as 1	or rem	nont	50	150 yery tall 1100
	) red	he with	Harry CARAL	A. 54	4 CRAY	\@y2~	Landzone: 2
RE code	change	<b>S</b>					
Existing	RE code:	non					
Propose	d RE code:	11.7					
END							

Locatio	<b>Š</b>		· •				)	è	
Site No.	7 R	ecorder: DS	M	H		D:	y/Date: 2식 / /	1/20	
Purpose			31	/1		<del></del>		-5 le	·
Locality:	(inc. distanc	e/direction to nearest	town) Wall	-mb1(1.	<u></u>	154	क्लेडिंग च ०	13,1	. / / } ]
GPS: 4	~1-18	5 3	072	446		70	59780	D A	6091
<b>Vegetati</b> Median hei	ion strue ght of the E	<b>cture</b> DL is to be measur	ed	Record	<b>speci</b> relative ( minant; d	numerid	al) dominance for eac minant; s - subdomina	h stratum; ant, <b>a</b> – associa	ited.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		fic Name		
E	16	15-18	<b>V</b>	E	A	E.	grebor.		
T1	11	1D-12	M		_	€,	ribrox,		
T2	8	7-9	5	1)	$\mathcal{D}$	2 Oc	· , shiele	N	
Т3		-		12	Ď	A	. shirle	<u> </u>	
S1							Q		
S2	.,,,	<u>-</u>		G		Ar	eapt	moders	ب
G		20.3m	V			las	*	50.	
Structura	l formation	: (including height)	·			A	cistroclas	<u> </u>	· Me
						Q	1stile	cahorn	
Ecologica	ally domina	int layer:			.,,				
			and district	<u>-</u>			·		-
Geology	, landfori	m, soils							
Geology	map/scale/s	year:						**************************************	
Geology	code and re	ock types:						.,	
Land sys	tem:	5-mg	~~P3	b hebber handere de drak de flesh de fleshe de fleshe de fleshe de fleshe de fleshe de fleshe de fleshe fleshe					
Landform	ı: <u></u>	<u>Shofte</u>	Ridge	-ter	)	·		,	
Soils:	1	Bra-	Lot	d (oc	K				
Field obs	ervation an	nd notes:	U	ME7					
								andzone:	
RE code	changes								
Existing		4	11.7.2	11	1.5	Charles and the Control of the Contr			
	d RE code:	1	.7.2	/					

Locatio							,		
Site No.	R	lecorder:	is MH			D	y/Date: 24//	11/20	
Purpose								,	
Locality:	(inc. distance	e/direction to neares	town) Jally	mbille	3				
GPS:	upt -	746 <u>5</u>	5 072	460	7	10	59860	D 16096	
Vegetat Median hei		<b>cture</b> DL is to be measu	red	Record	speci relative	(numeri	inal) dominance for each stratum; minant; <b>s</b> - subdominant, <i>a</i> – associated.		
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name	ari, e associated.	
E	15	14-15	5	E	U	6	F.brosa	-	
T1	12	8 _14	D	ME	_	$\mathbb{E}$	Crebra		
T2		*		11	d	6	Sherlyii.		
Т3		-		c <sub>s</sub>	0	1,	mandra s	g.	
<b>S</b> 1				)					
<b>S</b> 2	·	-						***************************************	
G	0.3		<u> </u>						
Structura		: (including height)							
	OPe	fores					***************************************		
Ecologica	illy domina	nt layer:							
Geology	landfor	m, soils		·					
Geology i	nap/scale/	year:		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~			**************************************		
Geology	code and re	ock types:							
Land syst	tem:		p -p>				1	/	
Landform	: 	40, de 2,	opes, and	Joting	<u>, C</u>	och!	mku speres i	54	
Soils:		21000, (	<b></b>	*	1		<u>,                                     </u>		
Field obs	ervation an	••	Mind hills		shop.		<b>V</b> ,	· وسمس	
<u> </u>	- ( - C	Not too	y entro	ered or	APP NATIONAL	16-8-70	offer rock 1	andzone:	
RE code	changes								
Existing F	RE code:	いっつ、ユ							
Proposed	RE code:	ルフ・′							
END									

N-58-72

E-5874

W= 5875 501-5876

**END** 

Location Site No.		ecorder:	DS MH			Da	//Date: 24/1) 2
Purpose			V				4011,001 A4A AAA AA WAXAA AA
-	/:	e/direction to neare	st town) WIDA	Jel	·		
GPS:	(inc. distance			3 4 2		706	3614 DAGD
GPS:	41.10			>  \ L		The proof	Tomas and Market
2029 onesimposis				440			
Vegetati Median hei		<b>:ture</b> DL is to be meas	ured	Record	t <b>speci</b> relative	(numerio	l) dominance for each stratum;
Stratum	Median	Height interval	Est. cover density (D,M,S,V)	<b>d</b> − dd <b>Str</b> .	Rel.		ninant; s - subdominant, a – associate fic Name
E	height			11	1)	€.	Parlnes
T1	13	10 -14	Ŝ	1	o	0	es costata
T2	6	5-8	//M		<u> </u>	10	
T3		5 - "	7'-	1/2	)	En	maphila mitchelli
	1	. 2	5	1	- Z	Ge	
S1	<b>I</b>					Juc	
S2		<u>-</u>		3	า		1155c ovato
G					7		·
		: (including heigh			a	Als	sporum sprace
	en wa		14 14 ~		م	1 13	one consticte
Ecologica	lly domina	nt layer:					1
				6		ch	
Geology	landfor	n, solls	· ·			VI	stude educare
Geology	nap/scale/	year:	in a carrier and a strangenium from a footbook full behalf of the carrier and	, press, 1	***************************************	annes propertied Nyderoccusters in	- BENEFIT STREET FREE PRESTONNES OF THE STREET STRE
Geology	ode and re	ock types:	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		***********		
Land sys	em:	Plant					
Landform	: <u> </u>	-las			************		
Soils:	<u>.</u>	rown a	4 411	· · ·			
Field obs	ervation an	nd notes:	hy	4100	<u>t</u>	••••	4.44
							Landzone:
RE code	channe						
Existing		- <u> </u>	Not ma	Dra al	1	- :	
	<pre><pre>code:</pre></pre>		/ * * * * * *	1 1 1 1 C 1 1 1	ī		

**END** 

		tecorder: $\frac{D^{5}}{}$	M)	4	VAR.41.0.0.1/4001		ay/Date: 24///	THE REPORT OF THE PROPERTY OF
Purpose			town malga	verte				PP 36 Abbar 200 200 200 200 200 200 200 200 200 20
_	(inc. distanc	e/direction to nearest	5 072	464		40	62521	D 161)94
GPS:				7 - 7	7	710	01217131	1300000 2 1 1 1 1 1
	on stru	<b>cture</b> DL is to be measur	ed	<b>Plant</b> Record	<b>speci</b> Frelative	es (nume	cal) dominance for each	stratum:
Stratum	Median	Height	Est. cover	<b>d</b> − do	minant;	<b>c</b> – co-	ominant; s - subdominar	nt, a – associated.
	height	interval	density (D,M,S,V)		dom.		-	
E	18	/7 -20		$\mathbb{C}_{\mathbb{R}}$	9		populaec,	
T1	10	9-12		6	S	0	<u>christata</u>	
T2	6_	3.5 - 2.5	<u> </u>	11	<i>V</i> .	G	christola Bas	Ω/.
Т3		_	***************************************	T2		امری عدم	ijera Parve Erampphilb n	11.11.
S1		-	V #W//#ARAAA 18/8 V # 33/8 # W # 13 # - 23/9/97	72		4	ecer-sponse o	wilched)
S2		-	· · · · · · · · · · · · · · · · · · ·			**********	***************************************	,
G		-					THE THE THE THE THE THE THE THE THE THE	IMMAR DANIET I JARA PRO
Structura		n: (including height)	1					minimining and a single state of the state o
		es for	Fig. 1				**************************************	
Ecologica	ally domina	ant layer:	1					
	landfor							<u> </u>
Geology ı	map/scale/	year:	Note AND A Publish LEMBER OF METERS OF SPECIAL SPECIAL SPECIAL SPECIAL AND ASSESSMENT OF SPECIAL SPECI			***************************************	BLE & LIMBOURI MARRIED PROCESSOR CONTROL AND COMMUNICATION AND PROCESSOR	Milliand Ballet instrument responsibility i 1944 i instrument security secu
		ock types:	lun alain	s Γ/ο	J			
Land sys	Vanis	bu roll	D'GID	<u> </u>	* /			
Landform	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			246-				**************************************
	<i>.</i>	/	1 16 /S pa	20153 21, 1, 1	of you	العالوس	1 1-16 M	A III
Field obs	ervation a	nd notes:	1 down/pa	ML	<u>~04</u>	62 CA 67	<u> </u>	indzone 1:5
	11 NO 1940		* 1 JAN 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	LEN CO			La	III III III III III III III III III II
E code	change			•				·
Existing I	RE code:	11.9	010				,	· · · · · · · · · · · · · · · · · · ·
Proposed	I RE code:							

**END** 

Location	1	·	e e				
Site No.	12 R	ecorder: <u>)</u> "	5 MH			Da	//Date: 24/1/20
Purpose	***						,
Locality:	(inc. distance	e/direction to nearest	town) Using	avull			
GPS:	spt 7	199 5	5 5 7 2 6	164	6	40	12891 DAGD 94
	· <u> </u>		•				
	on struc	<b>:ture</b> DL is to be measu	red		speci		il) dominance for each stratum;
Wiedlan Tier			Est. cover	<i>d</i> do	minant; c	- co-do	ninant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	density (D,M,S,V)	Str.	dom.		fic Name
E				T1	)	6	Poplace
T1	14	12-16	5	12	<u></u>	6	a Purpose
T2	8	8 -10		5).	<u>_</u>	Cur	cristate
Т3	5	4 -5	5	12	••••	6	população
S1			***************************************	12,	n	En	populara neglite mitelellis Populari
\$2					a	سے	Popular
G		220cm	5				
Structura	l formation:	(including height)	,	6		61	tempoyon acicclesis utilda Calycina uris truncati
6 6 A 6 6 6 6 6 7 7 8		· · · · · · · · · · · · · · · · · · ·	· ·			Ac	utida capaina
Ecologica	ally domina	nt layer:				CL	aris truncati
						-	
Geology	, landforn	n, soils					
Geology r	map/scale/y	ear:	alle to the about the state of	***			Annoushousha, kalisima-sa, akasimbasimbasimb er krimindinini er erritioosiskale kalasistimber kasistimber (as issa
Geology	code and ro	ock types:					
Land syst	tem:	Much					
Landform	):	GLAT .		*****************		***********	
Soils:	Le	<u>jlt b'</u>	an 5111				
Field obs	ervation an	d notes:					·
							Landzone:
RE code	changes				1		
Existing F	RE code:	Н					
Proposed	I RE code:	μ.	1- (1	1.9.	10		and the second of the second o

Locatio	•						·
Site No.	13 R	tecorder:	DS my			Da	//Date: 24/11/20
Purpose		***************************************					
Locality:	(inc. distanc	ce/direction to nearest	town)				VV-200 1 244 T T T T T T T T T T T T T T T T T T
GPS:	ತ್ತಂ	<u>S</u>	5 072	172	5	700	3083 DAGO94
Vegetat Median hei		<b>cture</b> DL is to be measu	l) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scient	fic Name
, E		3-12		TI	0	6	populnea
T1	11	8-12	М	12	<b>C</b>	Gra	populnea mobile mophals mitchelii
T2	Ц	3 -6	5	12	C	<u> </u>	99
Т3	*		***************************************	5)	C	D	V13608
S1	1	3-5 - 1-5	5	5)	C		ext. A. exceltate
S2				51	<		ciang microphyli
G	3/200	2-7 - 0-2	U	5)	۷	Ench	meg tomantesa
Structura	I formation	n: (including height)			C	est.	entrapagm askularus
**************************************				5	۷	€G ¢	estatus cancera
Ecologica	ally domina	ant layer:		3_	c		anthum corisium
				9	<b>C</b>	b.\	of Deales
Geology	, landfor	m, soils			•		
Geology	map/scale/	year:	PRODUCE FOR ENGINEERING AND ADVANCED BROKERS IN THE PROPERTY OF THE PROPERTY O	gang gegeneration and an extensive of the seguine	AND THE PROPERTY.		нь выполняет выполняем померя заклиния помера на принципа на принципа на принципа на принципа на принципа на п
Geology	code and r	ock types:			**************************************	***********	***************************************
Land sys	tem:	Plains	•	1.11			
Landform	1:	17/1	ucl u	L' 17-			
Soils:			1,5,17y	elay 1			1 5 6 1
Field obs	ervation a	1111	laise reas	35-4-P	<u> 1000</u>	80	miled on 6 popularea
	<u>\</u>	057 1,1420	grass cour	· *			Landzone:
RE code	change	5					· ·
Existing	RE code:	nors-	·				
Proposed	d RE code:	AVI	(11.9.10	<b>)</b>		nak sasana anama nama n	

Site No. 13	Project	Recorder	m4 : 05	Date 24/11/20
ZONE EASTING	NORTHING	, 3 0 8 3		LONGITUDE

_							T
Tree	Starts	Stop	Species	Ht		Condition	Age
	2.5	5	Popla	C			·
	33.5	36.5	Popla		<b>)</b>		
	363	39	Popla	۱.			
	39	4)	Popla		)		
	42.5	44	))		0		
	45-	49.5 49.5 52	11	1			
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	485	5 4 4 × 5	· / / ·	1	)		
	50	52	17	l	}		
	54.	56	<i>i</i> 1				
	56	60	,)		12		
	63	60	, , , , , , , , , , , , , , , , , , , ,	8			
	70.5	76	n e e e e e e e e e e e e e e e e e e e		)		
	92	95	<i>P</i> .		3		
	95-5	100	Cas cristata		) .		
-		ħ.	<del></del>				

End 650 072 4640 7063134

**END** 

Location	·							
Site No.	14 R	ecorder: $\overline{\mathcal{Y}}$	MH			*********	D	ly/Date: 25 / 11 / 20
Purpose						~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
Locality:	(inc. distance	e/direction to nearest	town) Bour	che r	يء	)	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
GPS: ,	upt 4c	5	5 4 9 6 6 D 16D 94					
<b>Vegetati</b> Median hei	on struc ght of the E	<b>ture</b> DL is to be measur	al) dominance for each stratum; minant; <b>s -</b> subdominant, <b>a</b> – associated.					
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		tific Name
Е	$\mathcal{U}$	10-12		6	(,	7)	Λ	E. hapopsylla
Т1	6	4-8	М	1		り	1c	hopopylla
T2			whose provides a secretar and interview			0	O.	
Т3		——————————————————————————————————————				ů,		achelitan reposition
<b>S</b> 1			************************************			O-	Ge	jee pantshi
S2			4 M 4 M 4 4 4 4 4 4 4 5 7 7 7 7 7 7 7 7 7 7 7 7	ļ		_	6.	inghla mtdillar
G		630-						
Structura	l formation	: (including height)	per foot to		G	.,	At	plex 50?
			1000				5.	
Ecologica	ally domina	ınt layer:	<u> </u>			<u></u>	140	. happfylle seedlings
	, landfor	m coile					M	atilor oxycopin
	map/scale/							
	code and r		r ma dóba é daddi is Millios II i Piper y ma dar é rá dóba é i Tidi Bhilli		A. V.A/F	F1.F1 H 10.MM 11 F74	*************	Approximate that the PRANCE AND ADMINISTRATION OF THE STATE AND ADMINISTRATION OF THE AD
Land sys		TUMP-V	p J					
Landform		notton	of slape		********			
Soils:	30	2m 5	ity loa	$\sim$		p		
Field obs	ervation a	nd notes:	boyalor represt					
	Lo	its of ce		Landzone:				
RE code	change	• • • • • • • • • • • • • • • • • • •						
	RE code:	Non						
	d RE code:	HVP	(1).9.50	_ /_				

Location							
Site No.	\ <u> </u>	ecorder:	MH +	25	· · · · · · · · · · · · · · · · · · ·	Da	/Date: 25/11/20
Purpose							
Locality:	(inc. distance	e/direction to nearest	town) <u>Bikir</u>	<u> </u>	·- · · · · · · · · · · · · · · · · · ·	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************
GPS:	618	5	5 5 0 7 2	475	50	709	8646 D
Vegetati Median hei	on struc	<b>iture</b> DL is to be measur	ed	Recor	t specili d relative (	numeric	l) dominance for each stratum;
Stratum	Median	Height	Est. cover	<u>d − d</u> Str.	Rel.		ninant; <b>s -</b> subdominant, <i>a</i> associated.  fic Name
	height	interval	density (D,M,S,V)		dom.	A	
E		-		TI			harpsphyle
T1	9	8-1011	10/	T2		<u> </u>	Myerton rupestos
T2	7)	5 - 5	2	72	<u>a</u>	(E)	p-pulaces
Т3			And Andrew Control of Transportation of the Control	T2	Q	0	hiopophile
S1			***************************************		C	19	spalldin distors
S2	Nes			\C\		7	utel gross
G	ages"		lose				astital catyping
Structura	l formation	: (including height)	. 1	9	) <	C	landan actions
		sper /	med	1 3			hous and alous
Ecologica	ally domina	nt layer:		<u> </u>	£	<u> </u>	agrasts Ocaumi
Geology	, landfon	m, soils					
Geology	map/scale/	year:	na przesty spychowskie dodkie z w 1 trypnych namecky, dodko stabieni		na i programa pragrama (Projek y Medicina de Bra	and the second of the second second	THEN WITH A RAY WAS THE STREET FOR THE STREET OF THE STREET FOR THE STREET OF THE STRE
Geology	code and r		*	φ			
Land sys	tem:	Oug olet "1	continu o	L fine	- 210,0	<u> </u>	me jern ræt.
Landforn	u: <u> </u>	Not I	Slape,	الحفاداس	4 02	7 h	2 North
Soils:		1754 PLA	~ pg/-	r cla	<u> </u>		
Field obs	ervation ar	īd noteš: "		<u>. (5</u> )	<u>coully</u>	JC V	which O. She
2		ecnohona	, annual	Prals	Him	2 Jr 25	Landzone:
RE code	change						
Existing	RE code:		***************************************		g ····		
	d RE code:	HVR	(B.11.	9.50	<u> </u>		
END	· · · · · · · · · · · · · · · · · · ·	<u> </u>			71		11
FILD		11 217	pedionial	and e	e low	Ē. ρ°	ison wilk around

ocatio	i					2 3
		ecorder: ${\mathfrak D}$	5 N	1 H	Da	/Date: 25/11/20
Purpose	2. 000. 020.000					1 *
Locality:		e/direction to neare	st town) Bile	<u>^1}</u>		AL LA
GPS:	~A	815	5 072	4412	70:	8915 D NO 91
	on stru			Plant spec	les	
<i>M</i> edian hei	ght of the E	DL is to be meas	ured	Record relative d – dominant;	(numeric c – co-do	i) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str. Rel.	Scient	ic Name
E	19 1	19-20	$\overline{}$	$\epsilon$ D	C	fibrosa Nubila
T1	17	10-13	M	11 4	€ 6	1 7
T2		_		11 C	E	crepic
Т3		_	AND COMPANY OF THE PARTY OF THE	C	A	stateji 6. exs
S1	3	2 -6	5	41 2	B	serie record
S2		_		51 0	1	er lopen
G		Ζ1 <u></u>	5	51 0	Co	4 ste gia maginal
	I formation	: (including heigh	nt)	G-	P5.	drex odoela
Junguna	·	. (moloding neigi	···/	10	An	istructure uneinolo
Easle!-	ally damin	int laver	na san san na nga gap gap san san san san san san san san san san		,	A Comment of the Comm
	ally domina	mir layer.				
	las-Ma-					
	, landfor					
	map/scale/ 			AMI MERINI INSTITUTO COMMINSTON / A MINISTONIA MILITER DE L'ESPASSION		INTERNAL SEE SEE SEE SEE SEE SEE SEE SEE SEE SE
	code and r	ock types:	VM	WYN 4 AA A2WY YAN'I AAN 4 A4 4 V WWWWN XAN A XAWA	V	
Land sys		( . 1	L adse			
Landforn	n: 	Estat S	27	alla el	simul	- Lots d-com-1
Soils:			1 A	( A want		Proce
Field obs	servation a	na notes:	12( )		YT	Landzone:
			BARRA E 2774 AAAAAA AAA EAAA EE AAAA AAA			Landeding
RE code	change					
Existing	RE code:	16-	9.5/11.9.10			
Propose	d RE code:	11-	77			

Location	ń						
	16 R	ecorder:	Ds M	I W			Day/Date: 25/11/20
Purpose			**************************************				· · · · · · · · · · · · · · · · · · ·
Locality:	(inc. distanc	e/direction to neares	st town) Wilgar	sole		*********	~*************************************
GPS:	upt 8		5 0724	169	8	40	60246 046094
	-	:					
	ion struc	<b>cture</b> DL is to be measu	ıred		speci		ical) dominance for each stratum;
	Median	Height	Est. cover	<b>d</b> – do	minant; o	- 00	dominant; s - subdominant, a – associated.
Stratum	height	interval	density (D,M,S,V)	Str.	dom.	Sci	ntific Name
E		-		71	9	1	. Shorli
T1	8	7-9	M	71	α	4	Cre-19
Т2	U	u - S	W			-4	thate.
Т3		-		12	<u></u>		Eallitius endlichen
S1				72	and the second second		A-41-3-4-C
S2		_		T2	$C_1$		Mellebour decora
G		-		9	<	4	aprit medusi
Structura	l formation:	: (including height	)	7 9	<u>C</u>	d	phania coranator
Ecologica	ally domina	nt layer:	Til				
		Y MARINE STATE					
	, landforr						
	map/scale/y		A PARCE I A STANDA DERBODO DE PER CELORIZADO DARGO. PRES SERVE DESCRIÇÃO				MARTER PARTICULAR CONTROL OF THE CON
	code and ro	ock types:		Nelle-			
Land syst			<del>C</del> 1	AN CHRON			
Landform		<del> </del>		<u> </u>	***********		en makkerske i kilolokisk kilolokisk og delikalik i forde og i kartina i sadd Celevenia and kritisk i kritisk d
Soils:		Proper	red oby		1 )		1
l .	ervation and	d notes:	thornal to	CINA.	born	, ,	namesting Landzone: 7
PE code	changes		F				,
		11-7	7.2/11.5.1				-
Existing F	RE code:		11.7-2				, , , , , , , , , , , , , , , , , , ,
Proposed	RE code:						

**END** 

N 5966 S 5967 E 5968 W 5969

Location							
Site No.	17 R	ecorder:	MK			Da	//Date: 25/11/20
   Purpose							
Locality:	(inc. distanc	e/direction to nearest	town) Willy	ivahe	·	**********	
GPS:	wht &	VY 5	5 072	577		70	0334 0 (6) 94
Vegetati	on struc	ture		Plant	speci	es	I) dominance for each strature.
iviedian nei		DL is to be measur	···-	<b>d</b> – do		, numerio co-dc	l) dominance for each stratum; ninant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		fic Name
Е	14	13/4-15	V	$\epsilon$	D	€.	crebra (ipesent)
T1	4.5	3-6	М	TI		Con	Ilitris erolliders
T2		-				- <b>C</b> ,	- Att
Т3		**************************************	www.www.www.www.www.com			411.	cosverina leuhmanii
<b>S</b> 1			v=//#X##################################				
S2			arana may mark kamara di manka marka a ancesak.	6		Ac	Capit-medisue
G		10.7m	- 1				Fallag
Structura	l formation	: (including height)					
		w.pp. a a. a. a. a. a. a. a. a. a. a. a	y typ pyprospopy aspectly tak and an and an and an an an and an and				
Ecologica	ally domina	nt layer:	************				
Geology	landforr	n, soils					
Geology r	map/scale/y	/ear:	anne e e industri samen paper paperanen en dech espe depe e dilibit del de de	A 14-A47741-11-1-14-1-1-1-1-1-1-1-1-1-1-1-1-1-			NAMES SANGES OF STATES AND TRANSMISSION OF STATES AND STATES OF STATES AND ST
Geology	code and ro	ock types:		*** *** *** * *** * *** ** * * * * * * *	*******		
Land syst	tem:	1016	y don	. ns			
Landform	***************************************	Midsli	R.	••••••			Landson and Address (1000 April 1000 April 1
Soils:	P	al sad	1 cley			-	
Field obs	ervation an	d notes:	not empo	ナ	high	<u>υη</u>	disturbed still
,		ala,	n track		·		Landzone:
RE code	changes			o			
Existing F	RE code:	11.7	2/11.5.1				
	I RE code:	NR	(11.5.1		**************************************		

Locatio								· •			
Site No.	16 R	ecorder: $\widehat{\mathcal{Y}}$	15 M	H		D	y/Date: 2	11/20			
Purpose											
Locality:	(inc. distanc	e/direction to neares	t town) Wildon Ve	le	***********	-YYY + TTF4 #WWN RIF		**************************************			
GPS:	not	833 5	072	422	5	70	60949	DA60 94			
Vegetati	1			Plant	speci	ës					
Median hei	ght of the E	DL is to be measu	red	Record <b>d</b> – do	l relative ominant; e	(numerio c – co-do	al) dominance for each minant; <b>s -</b> subdomina	ı stratum; n <b>t, <i>a</i> –</b> associated.			
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scien	ific Name				
E	to	9-11		$\mathcal{T}_1$	り	1	. shirley 1				
T1	10	9-11	M			€.	crebin				
T2		_									
Т3			The amount of the contract of				***************************************				
<b>S</b> 1		** \^\$\$#* \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	*	6		4	emadra fill gallidium c	Mult			
S2		<u> </u>				Po	pellidium c	distars			
G		20.7									
Structura	formation	: (including height)					*****************************				
			******					····			
Ecologica	Ily domina	nt layer:					-				
Geology,	landfort	n, soils									
Geology r	nap/scale/y	/ear:	NIN TO A CHIEFE AND A CHIEFE AND AND COMMON PROPERTY AND THE COMMON A PROPERTY AND A CHIEFE AND	Bull 1 March and Bull Vall at 1 Vall 1853 after	de antiga es cantes d'est a canada es des		delinelle of the collection of	efrager von den fillstadelikkelisk Microf M. Veltilletillillet II. 1.8.141919			
	ode and ro	ock types:					######################################				
Land syst		Mid slow	~≅								
Landform	:	7		1.2	ts (	/ cm	Noch				
Field observation and notes: Well observed to own wood. Landzon											
	E code changes										
Existing F	*	11.1	7/ "								
Proposed	RE code:	1/ +	<u></u>								

	Location	i									
			Recorder:	DS	-	M	1			D	y/Date: 26/11/20
	Purpose	•									
	Locality:	(inc. distant	ce/direction to	nearest	town)	wile	<u>ب</u>	vel	<u> </u>		
	GPS:	My u		5	5	072	5	15	5	70	5/232 DAGD96
		•	441								
	Vegetation structure       Plant specie         Median height of the EDL is to be measured       Record relative (r         d - dominant; c       d - dominant; c										al) dominance for each stratum; minant; <b>s -</b> subdominant, <b>a</b> – associated.
	Stratum	Median height	Heigh interv			st. cover sity (D,M,S,V)		Str.	Rel. dom.	Scier	ific Name
1.1	E	1	#	<b>=</b> /				$ \mathcal{T}_{j} $	D	E	crebra
	T1	13	11 -	12)		<u>~</u>	_		ے	Са	llitres glosephilis
	T2	7	<u></u> 5 - '	8	.,	5	_				
	Т3		_		***************************************	POV PA ANNONE (PENN 1 ANNONE PEN		12		Cg	syami custata
	S1	3	2.	4		5			C		liter slaughte
~ 6007	S2		60/2				-		<i>~</i>	E	moltila naturalli
5 6008	G		1	1			-	per .			
6 6001		r	n: (including	$\sim$	m	tall		<u> </u>	7)	60	Jera parvitiona
		<u>a. ko</u>			VV			G		Ere	istide capit-melusoé
W 6010	Ecologica	ally domina	ant layer:				_	<u> </u>		Die	1 30
6 601	Geology,	landfor	m. soils							1/9	icum offusium
	Geology r	The second secon				,		·		A	stoon conficine
	Geology code and rock types:  Land system:  Chiling hill A Solo										ysupyon fallow
											um 5/2
	Landform		100	<u> 'ok</u>	· V	(II)		······			***************************************
	Soils:	flech	diff	c(c	{				1 2	11	
	Field obse	ervation a	nd notes:	5+-	for Revol						
					, ?(	) w	~~ ·	ar-			Landzone:
	RE code	change:	\$	<b>.</b> . 1	را	A					
	Existing F	RE code:		NA	( 	rem			<u></u>	+	1
	Proposed	RE code:		14	4	<i>Y</i> -		ren	11/2	<b>/</b> \	11.5 . [

	Location	1								
	Site No.	Site No. $\frac{20}{}$ Recorder: $\frac{1}{}$				egypergeregype on agypergered og dy bede dy decide	Da	//Date: 26/11/20		
	Purpose	-60-6-44-4400000								
	Locality:	(inc. distanc	ce/direction to nearest							
	GPS:	upt &	4.6	5 072	435	9	70	11664 DAGD94		
	Vegetati	ion stru	dille.							
			DL is to be measu	red	Record	speci relative o minant; d	(numeric	l) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associ <u>ated</u> .		
	Stratum	Median height	Height interval	Est, cover density (D,M,S,V)	Str.	Rel. dom.	Scient	fic Name		
	E	30	42		1)	ワ	G c	rebea		
	T1 -	20	18 -22	5	11	a	Ċ	oplace		
	T2	12	10 -13	3	12	シ	C0~	litis obsusephille		
	Т3	4	4-5	5		<u>a</u>	6	cebe		
	S1			************		حـ	An	ophora leiocopa		
	S2					a	111	icasuarna endlicher		
	G		20:3	$\bigvee$		۵.	EC	plor		
	Structura	formation	: (including height)	<u> </u>	13	D	Cal	itris slaveoffille		
	\ \	000	lad 1	2 2 Lm	6		Ch	ysopoja fallad		
	Ecologica	ally domina	ant layer:	AC	stide capit-median					
	Geology	DESCRIPTION OF STREET	00000000000000000000000000000000000000							
		map/scale/		METAMANIAN PARAMANIAN INTERNAL TERRETARIA DEL PERSONAL PE						
Geology code and rock types:  Land system: Sed I wentay, plant's  Landform: To pot hill										
	· ·	ervation ar	nd notes:		cleard					
				Landzone:						
	85.22	eha===								
	RE code									
	Existing I			l						
	Proposed	RE code:		113/						

END

	Locatio	1						
	Site No.	2_/ R	ecorder:	S MH				ay/Date: 26/11/20
	Purpose					J. M		
	Locality	(inc. distanc	e/direction to neares	t town) W. 190	, val	e		A Company of the Comp
	GPS:	upt:	852 5	5 072			1 e	62038 0 1609
	- Tark	•	-		-		,	, , , ,
	<b>Vegetat</b> Median hei		<b>cture</b> DL is to be measu	red	Record		(nume	ical) dominance for each stratum; lominant; <b>s</b> - subdominant, <b>a</b> – associated.
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
N 6026 9 6029	E		_		1	D	6.	Poplace
5 6029	T1	19	18-23	5			₡.	crebia
6028	T2	16	12-18	5	12	,	(,	Mitris glaucophla
	Т3	6	5-8	V	·		E	creptor
6 6029 6 6030	<b>S</b> 1		-	*	13		P	etalostigno pobescens
(630	S2						A	stonia Constructa
	G		L+2m				$\mathcal{G}$	Mitro glascophlic
	Structural	l formation	: (including height)		6		1	- The state of the
				78 No. No. All All Coll St. Coll St. Coll St. Coll Coll Coll Coll Coll Coll Coll Col			Α.	1stida capt medisa
	Ecologica	lly domina	nt layer:					•
	Geology,			<b></b>				
		nap/scale/y		er rennger op Mangangerskelser i 1914 in der til Hebekel i 1.4° er 1.477 oktobri i deskulten	randamental reporter 1.4 and	******************************		Consequent region of the second section of the second seco
		ode and ro	ck types:	· to		***************	************	
	Land syst	/		WILL WILL	nin	***************************************		
	Soils:	·1	Take sa	~el				
		ervation and	d notes:					
								Landzone:
	RE code	changes		1				
	Existing R			4-21	:5°-1	- 1	1.8	10 11.51
	Proposed			181		12	g	16
				1 married 1			<u>i</u>	

	Locatio		,					
	Site No.	22 R	ecorder: $\int$	15 MI	1		Da	//Date: 26/11/20
	Purpose					<del>,</del>		
	Locality:	(inc. distanc	e/direction to neares	town) W1/5	«Val	<b>-</b> C.		
	GPS:	853	5	5 072	395	¥	70	1785 DA6094
	<b>Vegetat</b> Median hei		c <b>ture</b> DL is to be measu	red	Record	speci relative	(numerio	il) dominance for each stratum; ninant; <b>s -</b> subdominant, <b>a</b> – associated.
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		fic Name
	Ш		-		11		Co	umbic intermedia
r	T1	13	12 - 15	5		_	A	godora leverypa
\$	T2	8	9-9	M		<	6.	rebra
	. Т3			A. A. A. A. A. A. A. A. A. A. A. A. A. A			6.	Pepline
Ų	S1	2_	0-2	V			Car	Has glassophiles
35	S2		-	********************************	12	D	(0)	litris glacof Ma
هد جم	G		<b>Z</b> <u>0</u> -3		· · · · · · · · · · · · · · · · · · ·	2	An	roplora le rocarpo
	Structura	l formation	: (including height)		51		Corl	trus
	O in a oran		· (modaling noight)		6		Pol	Fide capcine
	Feologica	ally domina	nt laver:	100 apr april 100 april 10			d.	ysupes on Fellat
					<u> </u>	ŧ	Ech	
	Geology	landforr	n soils					
		nap/scale/y						
		code and re		I KARIA I. KARI INTANI NIMINI PERINTENINYA INTANINYA INTANINYA INTANINYA INTANINYA INTANINYA INTANINYA INTANIN	ayeri yir a tina ang arang na agandinah atas ang agan	***************************************		AN INSTITUTE OF THE STATE OF TH
	Land syst		Sedinut	as Mari		~ * * * * * * * * * * * * * * * * * * *		
	Landform		(lope	1				A STATE OF THE STA
	Soils:	***************************************	Reddish	Sady (	14/	***************************************		
		ervation an		Ver on	e 1	Cen	con	missim Crebra
	Lieid Ahz	ei Adrioii gij	u 110tes				- ( · U	Landzone:
		20 20 20 20 20 20 20 20 20 20 20 20 20 2			a territorio mendi di destre della di constanti di	FEERIFF 1 1775 TC 177		Lanazone.
	RE code	changes		12/	- 1			
	Existing F	RE code:	·	P- / //	<u>51</u>			
	Proposed	RE code:		<u>                                     </u>	-		annes de Marie de Maldester a constitu	

**END** 

Locatio	<b>.</b>						
Site No.	23 R	ecorder:	)5 M1	\			ay/Date: 26/11/20
Purpose							
Locality:	: (inc. distanc	e/direction to nearest	town) W15	avale	<u>)</u>		
	654		5 072	331		10	62638 D 16014
-							
Vegetat Median bei		<b>cture</b> DL is to be measu	rad		specie		cal) dominance for each stratum;
Median nei	-	T:-	<del></del> -	<i>d</i> − do	minant; c	- CO-C	pminant; s - subdominant, a - associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name
Ε				11	D	6	erebro
T1	11	10-13	5		0	13,	adjetation populares
T2	7	5-8	M	12	D	Ca	Mite's glavcophla
Т3			· · · · · · · · · · · · · · · · · · ·		مــ	<b>t</b> =	achiclitan popularea Untils glavcopylla Gergera parvillaria
<b>S1</b>		_			a	· G	pair lovathokolic
<b>S</b> 2			**************************************				
G		LO.7	5	6	: :		Mará
		: (including height)				Cel	nopogon nutas
Wa	sod la	-d 11.	m			Pla	ctraffis of
Ecologica	ılly domina	nt layer:	_)			R	stide calycina tida captimedisal
						ALI	tida captimedisal
Geology,	landforr	n, soils					
Geology r	map/scale/y	/ear:		~	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		partition of the state of the s
Geology o	ode and ro	ock types:	Sung-U	$V_{0}$	v		***************************************
Land syst	em:	Topo	of Jump				
Landform	:		1 3 7		**************************************	********	**************************************
Soils:	(/0	the reda	71 / Je				
Field obse	ervation an	d notes:	1015 C	St 10	~ Je	r	sok
							Landzone:
RE code	changes		,				·
Existing F	RE code:		11.7.6	1			
Proposed	RE code:	11:	7.6	- (it	and	0/0	not present

**END** 

26032 N6036

€ 60 34

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G 60 40

Locatio	i							Mercan
Site No.	24 R	ecorder:	D< 1	иH			ay/Date: 26/11	120
Purpose			3	***************************************	-t		<u> </u>	·
Locality:	(inc. distance	e/direction to nearest	town) // (	g de Ve	<u>ke</u>			8/2
GPS: 4	<del>856</del>	. 5	5 072	3 4 2 0	₹	10	62565	DAGD 9
	<b>ien Struc</b> ght of the El	<b>citure</b> DL is to be measur	ed	Record	<b>spec</b> i relative minant;	(nume	cal) dominance for each s ominant; s - subdominant,	tratum; <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scie	ıtific Name	<u> </u>
E		-		1,	9	A	e hapophl	(m)
T1	10	8 10	M		5	$\epsilon$	Paplace	~^^
T2	6	5.7		12		50	talin love	e. later
Т3						G	yer pertlo	( pur
<b>S</b> 1		1 - 2	·····			6	emophile mol	delli
S2		70-3	388844.					4. 4. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.
G		<u> </u>	5	51		54		datin
Structura	formation:	(including height)				G	isera parvil	
	· ************************************	Ligar oper gan op i men syn sag om om sag sageran som san gan ere som g	. May happy and the state of th	<b>A</b>		J	c. harropy	a (seed
Ecologica	ılly dominaı	nt layer:		G		6	teopogen o	rejectori 1
						5/	brobolis cm	ber
Geology,	landforn	1, soils				<u></u>	Clours tre	rcom
Geology r	nap/scale/y	ear:	Made Calant Colombia All Balletin ( Madel All All All All All All All All All A			//	istida ea	being
	ode and ro	ck types:					***************************************	***************************************
Land syst	*********	Foot of	State 1	3/7/42***********************************				
Landform	: Pa	**********	n de		**************			
Soils:				<b>)</b>	*************			
riela obse	ervation and	a notes:			***************************************		Lan	dzone:
2E codo	changes							
		:	NR			f		
	RE code: "		UR	- 4	03	SH	<b>A</b>	
	joue.		+ 6	nah		are.		
END	85	15 5%	art of a	1,2	200	:		

Location	ä						
	X	ecorder:	4 C C				y/Date:
Purpose		ecoldel.					y/Date.
_		e/direction to nearest	town) W.V	acrucil	<u> </u>		
GPS: 9		S/direction to hedrest		3 1 5	Long T	70	2268 D
Vegetati	on struc	<b>:ture</b> DL is to be measur	al) dominance for each stratum; minant; <b>s</b> - subdominant, <b>a</b> – associated.				
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scien	ific Name
E				71	0	A	harpolphylla
T1	12	9 - 13	M	11	9	$\epsilon$	109mugacq
T2	5	2-6	<u>S</u>	I)	G.	C	Castato
Т3				12		C	Constata
51	3	) - 4	5	72		(a	Iltrus glavec
S2			· 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.	12	<u> </u>	E	Micheli
G		•		51	C	h	lga
Structural	l formation	: (including height)		9	C		isus truntiata
				9		b	K.C.
Ecologica	illy domina	nt layer:			<u> </u>	e.	Acoper acicularis
				9 9	€ C '	bi V	doenan tomontosa
Geology,	landfor	n, soils			ς	SC	Jerogena breedi
Geology r	map/scale/y	/ear:	h la kalendari kandi kandi kandi pengeri pengeri perpengan penga sapar pengeri pelan				мустурноструктов обобнова объему выблика балаг на камения пирту в уприродителему в забали в лиги об
Geology o	code and re	ock types:			······		***************************************
Land syst		4 12	1 8e.0 100 V	1 0 m	-P)	<u>any</u>	
Landform		11/1	<u>la-ol.</u>	J. F.2			
Soils:		nghi ba	own dust	J <u>C 7</u>	-	}	A
Field obse	ervation an	d notes:	JOSON SKI		i, ~o	5	Landzone:
<i>~</i>	~U' o~e	San Contract	OVO RECET	7			Langzone: )
RE code	changes			Λ			
Existing f	RE code:	N.					
Proposed	RE code:	11.	9.5a		and a few same a con-	v 1/	
END		<	7<9 = 10	. A. ~ (15) •	, g. (3).		not of manager

Location					• •		1	
Site No.	26 R	ecorder:	MALOS			D	y/Date: 2-7/11/-	<u> </u>
Purpose								
Locality:	(inc. distanc	e/direction to nearest	town)	Macin	iale		***************************************	KAAAA *********************************
GPS:	<u>869</u>	5	5 072	361	3	70		D
<b>Vegetat</b> Median hei		<b>cture</b> DL is to be measu	red	Record	speci relative ominant;	(numeri	al) dominance for each stra minant; <b>s -</b> subdominant, <b>a</b>	tum; – associated
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scier	ific Name	
~~~ <u>E</u> ~~~	-10-	9-12	-taj	B	5	$\in$	Crebra	C Partia data anima pro 1 sina data anima di monta da
T1	10	912	m	11	5	Ca	litros glovest	:\c
T2	4	2-6		11	0	<u>A</u>	Shirlshi	
Т3			**************************************	7 <u>2</u>	c	<u>A</u>	Str. Capper.	
S1				<u> 12</u>	c	<u> </u>	altins glaved	
S2				3		a	***************************************	1 .
G	1044 31-1304	_		3		1	cuita coplat	nodvs ·
Structura	l formation	: (including height	)					
Ecologica	ally domina	ınt layer:						
Geology								
Geology	map/scale/	year:	gg o vigo é de dé debigh la Callacada i a stair distribus part y confédérado à formación.	e.a. 10 1 1000 111 1100 1100 1100 1100 11			e e martin historia (a proce appelosópio delode a deben historia despetadores e procesa espetadores	(N. S. APPA) (A MANINE LAMBOUR CONT. AND AND AND AND AND AND AND AND AND AND
Geology	code and r	ock types:	***************************************		******	~~~		naman film de vers an ann angle de Villes Austre
Land sys		<u></u>	J met c	<u>ę — </u>		***************************************		
Landforn	1:	11)	3 1 000C	kab s	2 5	SY R		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Soils:	T. B. (41) 1889 (1) 18 818 (1) (	halat 3	- 12	<u> </u>	<u> </u>		de colo	And Company
Field obs	ervation ar	id notes:	Cooking, no	- low	iarn. Io	lión.	day is dagato- Land	1
RE code	change:	and time	Der pency =	~1420	- e poli n	٣ وأ		
Existing			7.2/13.5.1					
1	d RE code:	11	.7.2					

END

s	ite No.	27 R	ecorder: 🎉	MK			D	ay/Date: 27/11/2	.0
Р	urpose			·				*	
	ocality:	(inc. distanc	e/direction to neares	town) wil	jeval	ζ			***************************************
G	PS:	865	5	5 072	301	8	10	65951	<b>D</b>
		on stru	c <b>ture</b> DL is to be measu	rod		speci		al) dominance for each stra	huro:
IVIE	ulan nek		·			minant;		minant; s - subdominant, a	
Si	ratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scie	tific Name	
	E	P	MAG		Ti	9	455 - 1 bound 465	crelor	
	T1	13	12 -15	٤	12	ภ	Ca	Ultro glacey	041
j	T2	9	8-11	N					U
*	Т3				51	2	Co	11/50 avota	
`	S1	İ	1 -1.5	V					
3	S2		************************		6		$\epsilon_{\alpha}$	grosts allin	<u>~</u>
	G		20-2	<u></u>			A,	grostis allings to the course	· ·
	ructural	formation	; (including height)				6-	Treasure 80	
6							Ac	stide copet	- M
E	cologica	illy domina	nt layer:	ALANIA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MARANA MA				:	
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Ge	ology,	landfor	n, solls		<b>3</b> 11				
G	eology n	map/scale/	/ear:	MAI 1 % & 1 % 1 % A MAINTANAN STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE STATE ST	to an of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section		AANT AA UTSTUURA	E 1 MBC INMINISTRATOR SAN SERVICIONAL CONTROL OF SERVICION CONTROL WITH A SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL OF SERVICION CONTROL O	
G	eology o	ode and re	ock types:	10/6		***********	**********		
L	and syst	em:	Rolly	4.116			~~~	NACHAMBAN MANAGER OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPE	*********
L	andform	:	Stope			******************************			
,	Soils: _		Valu Sa	<u>~1</u>			************		
Fi	eld obse	ervation ar	d notes:			eru u elocola d'elòcilo é eloci	***************************************	,	
								Landz	one:
RE	code	changes			,				
E	cisting F	RE code:	11.	76/3	4		***************************************		
		RE code:	4	= 11	1.7	, 6	_	Citropodes	N.

	Site No. 28 Recorder: MH105	D y/Date: 27/11/20
•	Purpose	
	Locality: (inc. distance/direction to nearest town)	Jilopuole
		4074 7067452 P
	Vegetation structure	Hant species
	Median height of the EDL is to be measured	Record relative (numeri al) dominance for each stratum; d – dominant; c – co-d minant; s - subdominant, a – associated.
	Stratum Median Height Est. cover density (D,M,S,V)	Str. Rel. dom. Scientific Name
	E 19 18-22 V	E 9 6 Copra
•	T1 10 -9-13 M	Tid A Harpophylla
	T2 4 4 - 6 5	TI a Epopulnes
	тз –	BYESSAR LO CO
6067	S1 -	TI O G where
6566	S2	T2 a product oder
6060	G 125	G arcicistration con
6076	Structural formation: (including height)	o old
607	) open forest.	g spropologis calsia
O	Ecologically dominant layer:	9 ectoropogon ascillaris
		9 corissa ovate
	Geology, landform, soils	
F	Geology map/scale/year:	
	Geology code and rock types:	
	Land system: Undulating country	Α
	Landform: b-Hon & stope	betwee two odges
	soils Elox to dianage	ne show clay
	Field observation and notes:	3
	heavily pulled on going	and an real of & Solvy Landzone:
	RE code changes	
	Existing RE code: 11-7-2-/11-5	5 • 1
	Proposed RE code: 11.9.50	

END

e No. 20 Recorder: 75 MH I ay/Date: 3	7 6) 1.11
	30/17
rpose	
cality: (inc. distance/direction to nearest town)  Review Downs  98: 444  65 0426576 765749	
s: 974 65 072 6576 705749	
getation structure Plant species	
lan height of the EDL is to be measured Record relative (numerical) dominance <b>d</b> – dominant; <b>c</b> – co-lominant; <b>s</b> - su	
atum Median Height Est. cover height interval density (D,M,S,V) Str. Rel. dom. Scientific Name	
E TID AS Shill	Les)
n 9 17-10 5 E Crebr	
T2 -	
T3 5; 7) As . Sh./	(by)
S1 2 1-4 V	······································
se - 6 D Acotida	
G Kor3 M Ageistado	re u
uctural formation: (Including height)	to the
ologically dominant layer:	
ology, landform, soils	
ology map/scale/year:	
ology code and rock types:	·
nd system: Top of Smr. VP	
oils: Light brown Silly cly fots of	Feb.
eld observation and notes:	·
	Laı
code changes ,	
isting RE code: //.7 - 2 / // 5)	*

END

_			05 N	7 H			ay/Date: 0/11/20
_							
GPS:	(inc. distanc	e/direction to nearest	town) R	be-	00	ــ^ــ	
	884	5	5 072	642		ە د	56672 DC
		•					
Vegetat Median hei		<b>cture</b> DL is to be measur	ed	Recor	t speci d relative	(nume	cal) dominance for each stratum; ominant; s - subdominant, a – as
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
E	15	14-16	. O	E	9	8	populnea
T1	フ	6 - 10	WS	71	c	G	populnes
T'2	Ų	2 - 5	V	71	٠,	(7	horpophyla
Т3 -	1	05-15		7	14230	A	Shirty
S1	7	0.5.1.5	V	T )	(		,140
\$2		_		T)	c	A	Atalong honigar
G	1/200 KOCA	_	0/~	7,	c		Mitchelii
Structura	!	: (including height)	<b>D</b> 1	12	B		Milleli
- Ottablara		oper fore		12	S ,		Julga
Ecologica		ant layer:		72	S		) is harpophyla
				12	5	:	Atalya honiglance
Geology	, landfor	m, soils		5 ) 5 i	c c	1	stoleta Leniglaca sodonneo uscoso
	map/scale/			5) 9	c C	Y.	populate fuses
Geology	code and r	ock types:	***************************************		م 'د		Oblans truncata
Land sys	tem: 🕠	id-lating hills	downs	(	ა <del>}</del>	'	Dickenthium price
Landforn	1: lad	hand slape		(	<del>/</del>	-	Aristing calicena
Soils:		high bear	in clay				
Field obs	ervation ar	nd notes: .D.	por voodle	~d, d	1415e	Po	est
						·	Landzone
RE code	change	S			· · · ·		;
	RE code:		none	,			
				1.9.10			

**END** 

N 6113S 6116W 6116

G 6117

**END** 

ocation	 1	•					·
.,	<u> </u>	ecorder:	m4. 00				ay/Date: 30/11/20
Purpose							
Locality:	(inc. distanc	e/direction to nearest	town) Rub	~ D.	·~13	).	
GPS: <	792	ς	5 072	7 7 3	9	기이	57299 D
<b>egetati</b> ledian hei	i <b>on stru</b> ght of the E	<b>cture</b> DL is to be measur	ed	Record	specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specio	nume	cal) dominance for each stratum; ominant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
m f	15	12:12	-5	11	0	$\exists$	Calica
T1	15	12-17	5			9	- Gencelia
T2	10	8 10	5	11	5	£	Shielyii
Т3		1-4	7	71	5		Curiote
\$1	2_	۱ - 4	V	12	ے	(	conteta
S2		_		12	C		Shelvi.
G	lessil.an	-	M	51	d		sholyin
Structura	<u></u>	n: (including height)		9	2 99 2 99 2 99	A	irlita comprimadusi
Ecologica	ally domina	ant layer: 🗍 )		5	Š		ancingulata
eology	, landfor	m, solls		Ĉ	C		pres diar
Geology	map/scale/	/year:					
Geology	code and r	ock types:	· · · · · · · · · · · · · · · · · · ·		<b></b>		
Land sys	tem:	andulation	17 Kills				
Landforn	n:	hills, synn	or the fire	pup	COL		
Soils:		ceddish,	sity oby		·- <u>-</u> /a-		·
Field obs	ervation a	nd notes:	ols of tall	<b>-</b>	60-54		no less intrology
••••			**************************************				Landzone:
	change	Š					
	RE code:	n·S·	1/11:5-5				
LAIGUIG	UVUU:		7 11.77				

	1	Location		•		-			
		Site No.	223 R	ecorder:	MH+ DS	<u>&gt;</u>			ay/Date: 1/12/20
		Purpose						<del>1</del>	
		Locality:	(inc. distanc	e/direction to nearest			70000	<u>L</u>	
		GPS:	Jpt 9	<u>s</u>	5 072	826		7 0	59936 D
			. (Ceep of a Tag Co 200_000 E087 )			Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan	speci		
		Vegetati Median hei		Cture DL is to be measu	ical) dominance for each stratum; lominant; <b>s -</b> subdominant, <i>a</i> – associat <u>e</u> d.				
		Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
		E	廿	8 -12	14	7)	Ö	0	cristata
		T1	1)	8-12		12	0	C	constata
÷		<b>T</b> 2	6	U-8	5	12_	5	6	populnea
NE	126	Т3		_		51	۲.		1 G C
5 6	127	S1	<u> </u>	05-1	V	5)	C		cartata
6	128	S2		_		9	2	ļ	b. Rel
W 61		G	ા 🕏	-		9	٠	<b></b>	ianico effusio)
		Structural formation: (including height)					c_		digiteria sp
26	130					5		95	Nesoposon ascialar
		Ecologica	ally domina	ant layer:	T1		C		alsola crush-rhr
		•				,			
		Geology	, landfor	m, sølis	-	··•			
		Geology	map/scale/	year:					
		Geology	code and r	ock types:	, ,	1			
		Land sys	tem:	plan	s. e-dele	stmg_			
		Landforn	n:	valor co	user of 1	-	71		
		Soils:	***	por lie	htbour, c	191,51	174		) ) 1
		Field obs	ervation a	11	ીન	my class stapped stops			
			gre c	eks than	Landzone:				
		RE code	change	Š				1	
		Existing	RE code:	No	we ,	t ren	~ c ~	<i>-</i>	
		Propose	d RE code:	11:	3.1 35				
		END							

G 6143

Location	<u>n</u>							
Site No.	23) F	lecorder:	m+ c	5				ay/Date: 1/12/20
Purpose	·							
Locality:	(inc. distanc	ce/direction to neares	t town)	Scr	1810/5	عـ		
GPS:		<i>J</i>		6	46	2	70	(1134 D
Vegetat Median he		<b>cture</b> :DL is to be measu	₹0 <sup>4</sup> (	F	Record	speci	(nume	cal) dominance for each stratum; ominant; s - subdominant, a - associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel.		ntific Name
E	10	9-11			TI	D	A	haspophyla
<b>T</b> 1	10	a _11	M		7,	a	d	populnea
T2		_			T J	5	C	cristata
Т3		_			,			a English
\$1		.2.4	W		51	9		Wilgg
\$2		-						J
G		-						
Structura	l formation	: (including height	)	 				
				-				
Ecologica	ally domina	ant layer:						
27.11.11.11.11.11.11.11.11.11.11.11.11.11		rgag rangga region - community i milit						·
Geology	, landfor	m, soils						
Geology	map/scale/	year:						
Geology	code and r		1 1	77	<b></b>			·
Land sys	tem:	U^0	Artelay h	115	4	ə A	1.2	
Landform	) <b>:</b>	<u>~</u>	s/spe/	~°c	o ·	y #	alte	· ·
Soils:		hold	boun/gre	) ,	51	the c	191	
Field obs	ervation ar		gine.	9 <i>-1</i>	oV.	græ	rler	than Sha (estructe)
		Mers	tree neg	4/33		13090		Landzone:
RE code	changes	<u> </u>	<u></u>					
Existing I	RE code:		1.72/11.5	• /				
Proposed	f RE code:	·	11.9.59					
END			·					
	. 11	)	andhhan site					
r	-55, b e	0)500	onother site	٠,	rem	na #	<u> </u>	

Location

N 6209

S 6210 € 6211 W 6212

G 6213

Site No.	274 R	ecorder:	MN+05				ay/Date: 3\12\20
Purpose	Ser	305			<del></del>		
Locality:	(inc. distanc	e/direction to nearest	town)	<i>,</i>	<b>3</b> 0	<u>( )</u>	ode,
GPS: C	143	5	5 0主台	32	3 -	2/2	6/11/2/4 D
· · · · · · · · · · · · · · · · · · ·			072	31:	2	フロ	61105
Vegetati Median hei		c <b>ture</b> DL is to be measur	ed	Record	specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specio	(nume	cal) dominance for each stratum; ominant; <b>s</b> - subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		itific Name
Е	18	16 -18	V	$\in$	d	6	populaça
T1	9	8-10	M	TI	d	A	harpophyla
T2	4	3 - 6	5	T2	c	d	onstate
Т3		-		ナユ	C .	,	Ma
<b>S</b> 1	0.3	_		12	C	1	Korpophyla
<b>S</b> 2		_		12	G	e	mitchelii
G	1055 30cm	-	V	51	59	<	constata
Structura	l formation	: (including height)		51	a	7	but Flower stub
·				9	Q.		april modusi
Ecologica	ally domina	nt layer:		~			
Geology	landfor	n, sóils					
Geology i	nap/scale/	/ear:					
Geology o	code and re	ock types:					
Land syst	tem:	<u></u>	Valed dapa	ze\$ :			
Landform	ı <b>:</b>	én slo	pe				
Soils:		half br	own Fix	4			2
Field obs	ervation an	d notes:	rge busins	on fo	mest,	, ver	Alle indistory, bose
	<u>.</u>	61 W. L.	may sma	ll slow	es les	<u>- Il</u>	Scm Landzone:
RE code	changes						
Existing F			.2/11.51		-		
	RE code:	11.9					
END							

Site No.	313 F	lecorder:	MH+OS				ay/Date: 4/12/2-0
Purpose	) <u></u>						
Locality:	: (inc. distanc	ce/direction to nearest	town)	urosi	Je.		
GPS:	Mas S	183 <u>S</u>	5 0-2	( 99	7	20	6 4 09 6 P
	ion stru			Plant	speci	es	
vledian hei	ight of the E	DL is to be measu	red	Record <b>d</b> – do	relative ( minant; <i>c</i>	(nume = co-	cal) dominance for each stratum; ominant; <b>s -</b> subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scie	itific Name
<b>E</b>		<b>多</b>		TI	<u></u>	$\in$	canal dulensis
T1	18	15 - 19	5	Ī!	۷.	$\in$	poplers
T2	12	129-14	5	17	d	6	poples
ТЗ		_		12	C4		eris ola
<b>S</b> 1		_		12.	0,	h	190
S2			***************************************	T2	5	ß	copeeins
G	160, 20	17020 m.		<b>ブ</b> ン	CA.	S	populnia
Structura	I formation	n: (including height)		9	5		lanum sp
				9	d		topler spo
Ecologica	ally domina	ant layer:		9	d		platus sp. 1the belldary
•				79	5	o V	alstus sp. 11the belldassy moduligates a signala
Geology	, landfor	m, soils		9	٩		
Geology	map/scale/	year:		<u></u>	્ 	ەد. رو	solypha diegrass
Geology	code and r	ock types:	a	- 6	9		Earthum spinosun
Land sys	tem:	quate	ray allu	val su	13to N	۶ و <u>د</u>	Argenda Schralupa
Landform	ı: 	3,40	Angressian	11	The		Ha-d
Soils:		1,924	the worm	3 allu	wal .	८।	/fine.
Field obs	ervation as	nd notes:	olicas Zasla	all N	) ere!	Ollo	o weeds, ladiones
1.3	<u>s</u> 2-	pressil le		cely. (	phon		Landzone:
RE code	change	late Si Crec	E d shed		pea pea		a polygon dominated by E pa
Existing	RE code:	11.8	₹3.7				

**END** 

N 6364

5 6265 5 6266

W6267

9-6269

Locatio	n		_				
Site No.	309 R	ecorder:	MH + DS				Pay/Date: 3/12/20
Purpose							.,,
Locality	inc. distanc	ce/direction to nearest	town) B	caside			
GPS:	wnt9	~×		732	4	70	62846 D
/egetat	ion stru	cture		Plant	speci	es	
		DL is to be measu	red	Record	relative	(nume	ical) dominance for each stratum; ominant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Sci	ntific Name
E	15	+2-15-	- PA	TI	0	(	populnec.
T1	14	<b>100 -</b> 15	m/s	72	C	1	populnec Constata
T2 ·	. 4	3 - 6	5	12	C	9	nitchelij
Т3		-		12	C		ulga
<b>S</b> 1	0.75	0.5-1~	V	51	c	4	m teldi
<b>S</b> 2		_		T2	Q		itius slavea
G		-		51	a		trus glavee
Structura	l formation	ı: (including height)		اح	C		lejera
				51	ح	c	
Ecologica	ally domina	ant layer:	ſ,	51	****		viga Wilga
	-		· ·	5		a	istita calicena
Geology	, landfor	m, solls					
Geology	map/scale/	year:					
Geology	code and re	ock types:					
Land sys	tem:	alu	ial Plats			]	
Landform	n:	tat	clar to	nok			
Soils:		1924	010000	Lelan	\		
Field obs	ervation ar	•	very Flat	10-	2 C	Livin	g olong side of
	c. J	rect	<u> </u>				Landzone: 3
RE code	changes						
Existing			3.2				
_	d RE code:	- 3	3.2		•		
END							_

END

€ 6255€ 6257

U 6258

ocation	-	·					
Site No.	1299 R	ecorder:/	') MH	~~~~~~~~~~~~~~~~~~			ay/Date: 3 12/20
Purpose						,,,	, ,
Locality:	(inc. distance	e/direction to nearest	town) BU	10510	L		
GPS: N			5 072	692	8	<b>4</b> 0	64151 DAGD
				•			
enetati	on struc	turo		Plant	speci	es	
		DL is to be measur	ed	Record	relative (	nume	cal) dominance for each stratum; ominant; <b>s -</b> subdominant, <i>a</i> – associated
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		tific Name
E	300	4-25		11	カ	E	Copylares'
T1	20	18 -21	M		<i>a</i>	اسے	can ald cheris
T2	1)	12 - 15	5	12	c		
Т3		_		, was	~	E	popular
<b>S</b> 1	5-	3 -6				<b>C</b>	canaldulers;
<b>S2</b>		-					
G		-	***************************************	5)	e	6	ifee painflood
Structura	I formation	: (including height)				Ci	rus glauca
						A	c. excelsi
Ecologica	ally domina	nt layer:		6		Ca	elms chars
						d	ny sepajar Fallor
ieology	, landfori	n, soils				Ν	orrease marghin
Geology	map/scale/	year:				<i>چ</i> ل	organic fallor organic marghlio colonic bidii
	code and re						
Land sys	tem:	MUNA					
Landform	i: M/~	Lewise	-jovallan	creo-			
Soils:	Bro	on Ja	/\ 	····		,	
Fleld obs	ervation an	nd notes:	Danirated	<b>b</b> -	γ	a	(e)
							Landzone:
E code	changes	1	· · · · · · · · · · · · · · · · · · ·				
		11:5	.2				
	RE code:	11.3	. Z				· · · · · · · · · · · · · · · · · · ·
Proposed	RE code:	<i>I</i> 1	and chair	0 / 4	01-	1	
END		overfl	on endan	766 -	96	† , ı	i a crohi

N 6266

56267

W 6268 E 6269 G 6270

**END** 

Locatio	n						
Site No.	M( A	ecorder:	M			·	ay/Date: 1/12/20
Purpose		****				~~~~	
_		e/direction to nearest	town)	Tr.	8 00g	$> \setminus_{k}$	
	5   5	Z	6 554	34		14	928726 DWG384
		75	22 055	885	, )	70	60873
	ion strue	<b>cture</b> DL is to be measu	red	Record		(nume	ical) dominance for each stratum; lominant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
E	16	43 JE	M	TI	D	6	CanaloVensir
T1	16	,3-19	M	71	5	$\leq$	Pophla
T2	C	4 -6	Ü	12	5		4,1/9
Т3	57.50	- -		72	5		relatera Ma bookents?
<b>S</b> 1		_		12	S	<b>(</b> 2)	paplinea
<b>S2</b>		-		G	$\Box$		buffel
G		-					
Structura	l formation	: (including height)					
Ecologica	ally domina	ınt layer:	· )				
Geology	, landfori	m eoile					
	map/scale/						
	code and re	***************************************					
Land sys		vale	y caver wo	i N			
Landform		Ţ.	el ede	<del>.</del> .	i		
Soils:		Vers	IND B	oun /	don		
•	ervation ar	nd notes:	与天物	1900 c	7 M 7	b.c	( sed about now
	<u>p</u>		And K	L. TO	<u> </u>	: C'C	Landzone:
RE code	changes	=: <b>5</b>					
Existing I			11.325		***		
Proposed	d RE code:	1	1.7.25				
<del></del>			· · · · · · · · · · · · · · · · · · ·		<i>y</i> :		

		,	* *				*
ocatio							
ite No.	405 F	Recorder:	DS MH	<del>(</del>			Day/Date: 15/10/20
urpose	· !			1)			
.ocality:	(inc. distanc	ce/direction to neares	t town)	Mla			
GPS: 🗠	7799	6 5	5 043	0 K1 4	4	4	59776 DAGD9
eaetat	on stru	cture	•	Plant	speci	es	
		DL is to be measu	red	Record	relative	(num	rical) dominance for each stratum; dominant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		entific Name
E		_		11			comba
<b>T</b> 1	4	5 _ 8	M				tos - cristata
T2	3	3-61	w				allita glaverphila
Т3		_		1 sm		C	allitas glascopyllà
<b>S</b> 1	)	0.5-2	5			G	gea perfola
S2		<u> </u>				6	rengalla n. telelli;
G		20-2	9	< 1		Ĉ	
tructural	formation	: (including height)			٠.	6	Mikas glacephla (se
<b>- -</b>	<b></b>					d	trus glauca
cologica	ily domina	ınt layer:		6		G	nterpoja pitis
						Ą	ist de capcin
ology,	landfori	m, soils				B	ist de moso
eology n	nap/scale/y	year:					
		ock types:				7	
and syst	em:	Rocky	TV LAC UV	15			
andform	 - 1	100 of (1	del				
Soils:		Brown	cilty su	A			
ield obse	rvation an	d notes:	Mapper	WR		,,,,	
			00	1			Landzone:
		:		-		*******	
	changes	. 17	11				
xisting R			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		7 ·	······································	
heenno	RF code:	1	11/16		T -		

**END** 

END

ocatio	2		2 1 2				
Site No.	408 R	ecorder: $\underline{\mathcal{D}}$	MH				Day/Date: 15/1
Purpose		·····	,				
=	1	e/direction to neare			,		
GPS: ι	of 100	S	15 043	036		40	60004
<b>/egetat</b> i Median hei	on struction of the E	<b>cture</b> DL is to be meas	ured	Record	t <b>speci</b> I relative	(nume	ical) dominance for eac
Stratum	Median	Height	Est. cover	<i>d</i> − do	Rel.		dominant; s - subdominantific Name
E	height	interval	density (D,M,S,V)	1)	dom.	+	1/+1/2
	ζ-	4 .6	5				week the
T2		_				9	c shilles
T3					ļ		12 populare
S1		-					K SV
S2		-					
G		20-4	V	6		Λ	noistrache
Structura	l formation	: (including heigh	nt)				
	;	_	·				
Ecologica	ally domina	nt layer:					
Geology	, landfori	n, soils			<u></u>		
Geology	map/scale/y	/ear:					
Geology	code and re	ا م					
Land sys		Rocky +	mp v/ 5				
Landform		10pd	Ni ! !				
Soils:		s vel	/ 1000	att		() Yo	$\sim -mP$
Field obs	ervation an	d notes:	Lan Vagita			1	***************************************
			***************************************				
RE code	changes	<u> </u>					
Existing I	RE code:		U/L	0			
Proposed	RE code:	Max	be 10	10			

**END** 

_ocatio	n		,				· · · · · · · · · · · · · · · · · · ·
Site No.	409 Re	ecorder: $\underline{\underline{\mathcal{D}}}$	M	H			Day/Date: 15/12/20
Purpose							
Locality	(inc. distance	/direction to neare:	st town)		,,,,,,,,,,,		
GPS: 7	NPT 10.	e) 5	5 0730	) 6 3	3	7 c	60325 DAGD 94
<b>/egetat</b> Median he	ion struc	<b>ture</b> DL is to be measo	ured	Record		(nume	ical) dominance for each stratum; dominant; <b>s</b> - subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Sci	ntific Name
E	a	-5-B		5,		1	· trocally
<b>T</b> 1	4	3 -5	\$			A	(-50.
T2		-				A	15 Jens constructu
Т3		- :				4	. celoro
<b>S</b> 1	:	-					
<b>S2</b>		<del>=</del>					
G		<u>-</u>		6		d	relatives serbert nel rus alogs
Structura	I formation:	(including heigh	t)				relates serbell
						C	nel nus aleris
Ecologica	ally dominar	nt layer:					
					•		
Geology	, landforn	n, solls					·
Geology	map/scale/y	ear:					
Geology	code and ro	ck types:			·		
Land sys	tem:						
Landforn	n:		1, 1				
Soils:	Olonge	am 4.	My cly				A
Field obs	ervation and	d notes:	<i>U. E</i>	. \	n clubs	2٠٠٠	ate
****							Landzone:
₹E code	changes			. )			
Existing	RE code:	Lo	~ regran	~XL_		$\vee$	ngod
	d RE code:						, v

Day/Date: 15/12/2020

#### A 3.3 Sheet D - Regional Ecosystem type assessment site

Site No. 41) Recorder: MH + 95

Location

	Purpose							
	Locality:	(inc. distance	e/direction to neares	it town)	yalla			
	GPS:	wptic	5	5 7 0 2 3	228	<u> </u>	24	61138 D
'								
				ıred	Record	relative	(nume	ical) dominance for each stratum; tominant; <b>s</b> - subdominant, <i>a</i> – associated.
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
	E		. <u>-</u>		11	D		populnea
	T1	10	8 -12	~	71	5	<u>  d</u>	ccinjepo,
	T2	6	5 - 8	<i>W</i>	12	CZ	<u>C.</u> q	्राचित्र ।
	Т3		-		12_	<u>a</u>	A	10. lumenii
	<b>S</b> 1	1-5	1 -3	5	72	5	19	populnes
	S2	beell c	-		51	10	ے	codata
	G	0.5		1 1	51	ح	4	Nga
			: (including height	)	3	9	<b> </b>	capel medus;
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		-						
			, , ,	my hills				
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	Soils:	hd	1 1	1				
	Field obs	ervation an	id notes:	ols of popl	or kins	o bo	571 ) A	on, n. Mala
		gnill c	ed endors		myate	<u> </u>	49"	Landzone:
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	6305 6305 6307	Locality: GPS:  Vegetati Median hei  Stratum  E T1 T2 T3 S1 S2 GS GS Structura GSOS Geology Geology Geology Land sys Landform Soils: Field obs  RE code Existing Proposed	Vegetation struct Median height of the E  Stratum Median height  E  T1 10  T2 6  T3 S1 15  S2 G OS  Structural formation  Geology, landforn  Geology map/scale/ Geology code and re Land system: Landform: Soils: Field observation an  S G OS  RE code changes  Existing RE code: Proposed RE code:	Locality: (inc. distance/direction to neares GPS: Wp 1003 S  Vegetation structure Median height of the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the EDL is to be measured by the	Locality: (inc. distance/direction to nearest town)  GPS: Wp 1003 S 5 0 0 3   Vegetation structure  Median height of the EDL is to be measured  Stratum Median height interval density (D.M.S.V)  E	Locality: (inc. distance/direction to nearest town)   Mys/19	Cocality: (inc. distance/direction to nearest town)   Mychights	Locality: (inc. distance/direction to nearest town)   Mg-

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Site No.	4,2 Re	corder:	MH+ DS	<i>.</i>			ay/Date:  5/12-2-0
Purpose							
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GPS: \	nbj 1000	· ·	0 2 3 3	242	0	70	61018 D
/egetati	on struc	ture		Plant	speci	es	
Median hei		DL is to be measu	·	d – do	minant;	(nume c – co-	cal) dominance for each stratum; ominant; <b>s</b> - subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scie	ntific Name
E		11 -		7/	D	8	melanophloic
T1	12	10-14	5	-	5	P	ovels 9
T2	8	6 - 7	V	71	5	Ē	1 1
Т3		-		Τ,	5	C	alitius glaveschylle
<b>S</b> 1	3	3 -5	V W	ŢI	5	6	populnee
\$2		-		+2	$\bigcirc$	C	Mrus
G	1e55	_	M	Sı	d		Llga
Structura	formation:	(including height	)	<b>S</b> 1	5		orisse ovald
		,	,	9	C		tristita calcena
Ecologic	ally domina	nt layer:	1	G	C.	1	Ansthe cappinadusi
	,			4	<		otlochoa descipieri
Geology	, landforn	n, soils		J			
Geology	map/scale/y	ear:					
Geology	code and ro	ck types:					
Land sys	tem:	undelahu	7 hills /5/=	noes			
Landform	ı:	Ligh	n en epolo	1) la			
Soils:		rely pro	n- cady		···		1 \$
Field obs	ervation and	d notes:	sporse F	-n=5 \ ,	~ 01	Vps	historical cleaned gone
<u> </u>	d to	re-rat.	***************************************			····	Landzone:
RE code	changes						
	RE code:		5.5				
	d RE code:	11.	5. {				

_ocatio	1		un.				
Site No.	413 A	ecorder:	W + D5				ay/Date: 15/12/20
Purpose				- 10			
Locality:	(inc. distanc	e/direction to nearest	town)	1/0/1			
GPS:	ا لحرب	00)	0732	227	1	クロ	60480 D
	- 11.		""				
	on stru			Plant	speci	es	
ledian hei	ght of the E	DL is to be measu	red	Record d – do	relative minant;	(nume <i>c</i> – co-	cal) dominance for each stratum; ominant; <b>s -</b> subdominant, <u>a</u> – associa <u>t</u> ed
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Sci	ntific Name
E	18	16.18	5	E	D		ceba
<b>T</b> 1	12	10 - 13	W	TI	5		colva
T2		-		71	D		1. sharhii
Т3		_	-	0	0		Capatinedusi
<b>S</b> 1		_					
S2		_			E		
G	165	-			!		
Ecologic		ant layer:					
	map/scale				A.V.A.Z.		
Geology	code and r	ock types:					
Land sys	tem:	10~0	. pr				
Landforn	n:	ridge la	ρ <u><b>Ø</b></u>				
Soils:		brown	cl des				
Field obs	ervation a	nd notes:	.l. to ils	e Fe	nali	5/5	e shapene and the
٥	1/15	Clearly do	muched by	A. 52	231 J.J.		Landzone:
RE code	change	<b>S</b>	rd bajdes h	sach	viy	, 12 <b>6</b>	represent A. Shurlyn: 11.7.2
	RE code:	11.5	· · · · · ·				
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Location			$\Lambda_{-}$				
Site No.	419 R	ecorder:  🗡	MI				ay/Date: 15/12/20
Durnese							: 1
Locality:	(inc. distance	e/direction to nearest	town) My	who	44447777777777		
GPS: υ	-pt 10	5)4	5 013	299	<u> </u>		60302 06047
	i <b>on struc</b> ght of the E	<b>cture</b> DL is to be measu	red	Record	speci relative (	nume	cal) dominance for each stratum;
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	<b>d</b> – do <b>Str</b> .	minant; c Rel. dom.		ominant; s - subdominant, a - associated.
. <b>E</b>	15	12-13	V	$\epsilon$	7	6	cebra
T1	3	2-35	2	1/	7)	Mg	Crebra Raleuca termansunia
T2		_			7		
Т3							
<b>S1</b>							
S2			- 15 - 16 Mar 19 10 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		,		***************************************
G		20.4	5				
Structura	l formation	:: (including height)		6		70	spalledur distans
Ecologica	ally domina	nt layer:	)			Éu	poracece Sp
						J	, ,
Geology	, landfori	n, soils	· · · · · · · · · · · · · · · · · · ·				
Geology	map/scale/	year:	Historic e a supervisión de de de desde de de de de de de de de la company de de de de de de de de de de de de				Not I k kirokiri konje pri vivirino od konje kristikiri kirokiri pri privovjekomba i konstantiviri pri konda utila krij izvo
Geology	code and re	ock types:	1 11		~~~~		***************************************
Land sys	tem: (	Maly land	A Pills			~~~	
Landforn	n:	top de h		_ ا ـ	1		
Soils:	accessories in community of a recognity of a processories	recensor	nron	<u> </u>	100		
Field obs	ervation ar	nd notes:	(rebra)	)	501	· ~ . )	1
,							U Landzone:
RE code	changes			-			
Existing	RE code:		11.5.3				
Proposed	d RE code:		1.5.10			*********	

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Location		ecorder:	~~~~	14			y/Date: 15 /12 20
Purpose		ecorder: <u>*/</u>	***************************************	. 11		U	y/Date:
-			town)	4 all			
	1 (y P)	e/direction to nearest		288	8 F	40	19479 D 6249
0.0.0	W ( _ W			3 4 1			constant. Max Paper and constant of the
<b>Vegetat</b> i Median hei		<b>cture</b> DL is to be measur	ed	Record	speci relative (	numeri	al) dominance for each stratum;
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		minant; s - subdominant, a – associated.  Ific Name
E	3	19-20	<b>V</b>	$\epsilon$	7)	6.0	rebro
T1	12	10-13	W	1	<u>D</u>	6.	rebri
T2	6	5 -7	5	12	Ø	A٠	kiocorpin
Т3			** Francista (100 and 100 and			۵,	Mitas glacapulla
<b>S</b> 1		< -5				G	mophila ntelelli
\$2		- (0:2		ļ	·········	A.	occupation leutronami
G							
Structura	I formation	: (including height)		6		<u> </u>	pers exertate?
			the contract the last and the last the contract the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last the last		·	14	stida cept-malisae
Ecologica	ally domina	ınt layer:	VIII			(ك.	150fgor tollax
		TOTAL SALES AND AND AND AND AND AND AND AND AND AND				En	oraskis collina
Geology	, landfor	m, soils				Los	randla of
	map/scale/		ggyptiong (from the local de federal). No de federal de la principal de l'est de federal de federal de federal			H 1880 1. 27772 208M294	MARIAN AND AND AND AND AND AND AND AND AND A
	code and re	ock types:	k. 1	1/<	***************************************		
Land syst		1.11 to0	212 E	16.3	gy gy, ge i a reve venez a venez de		
Landform Soils:	1i	reddid	Salv	ol.	/	**************	
	ervation ar	nd notes:	6		L		
Fleid ODS	CI VALIOII AI	Id Hotes.	4 )				Landzone: 5
RE code	changes						
Existing I			11.5.5	5			
·	l RE code:		11.5.1	,			

Locatio			<u> </u>		n lu				mil ran la es
Site No.	923	Recorder:	ν)	N	11/			[	ay/Date: /5//2/20
Purpose				M		110			
		ance/direction to ne		073	£			70	59380 DGDA
GPS:	101		55	0 7 2	) <u> </u>	70	6	70	7 3 8
<b>Vegeta</b> Median he	ion str	<b>ucture</b> EDL is to be me	easured			Record	<b>speci</b> relative minant; d	(numer	al) dominance for each stratum; ominant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Media:			Est. cover nsity (D,M,S,V)	)	Str.	Rel. dom.		tific Name
E	20	10 7	_0	V		E	0	6	repro
<b>T</b> 1	70	6.4	,	$\vee$		1		(-	exserted by ((a) 11 ?
T2	5	4 -6	9	<u>)                                    </u>		12		Ą.	bullarin?
T3		-		S-MANGENIA TO FRANCE AND MANGE TO SERVICE AND THE					
S1									
S2		<b>L</b> o-4		******************		G		$\mathcal{E}_{c}$	
G		20-4			4			Ac	stde ayar
Structura	al formati	ion: (including he	ight)						
			(7)						
Ecologic	ally dom	inant layer:	L	*****					
Seologi	, landf	orm, scils							
	map/sca						.,,		The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
Geology	code and	d rock types:			<b>1</b>			,, ,	
Land sys	stem:	Undul	$\alpha^{t}$		<u>IS</u>	****************			
Landfor	n:	Slape	<i>v</i>		********		**********		
Soils:		**************************************	7		1		•••••		
Field ob	servation	and notes:	1510	~ <u> </u>	L	مناح	<del>/</del>	eve	1
				· · · · · · · · · · · · · · · · · · ·			*		Landzone: 7
RE code	chang	es		J - 6 11					
Existing	RE code			hor	17	) (L			
Propose	d RE cod	le:		11-7-2		1121	122/Z	(C	) could
END	1	shrler	hes.	here b	Ve.	y ro	14	od	acent
	, , , , , , , , , , , , , , , , , , ,	J. 3. 4. *	)	1	clo			۔ ر	

Location				<u>.</u>			
Site No.	430 R	ecorder: $\mathcal{D}^5$	MH				Day/Date: 15/12/20
Purpose							·
Locality	(inc. distanc	e/direction to neares	t town) Mya	lla			
GPS:		5	5 073	138	9	70	60574 D6DA94
				· · · · · · · · · · · · · · · · · · ·			
Vegetat					speci		
Median hei	ight of the E	DL is to be measu	red				ical) dominance for each stratum; dominant; <b>s -</b> subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Sci	ntific Name
Е		<b>L</b> -		11	<i>C</i>		E. cherocada
T1	10	8-14	5				F popular,
T2	6	5-4	5	12			c hep-ph/la
ТЗ		_					
S1	j	1 -2				/	com ducor
S2		_	`	5)		G	eira pavifica
, <u> </u>		< 0.5	5			(	emophile Sp.
Structura	l formation	: (including height)	)			€	emophila mifchellii
				6			ristida Celyeria
\   Ecologica	ally domina	nt layer:			*******		ristida calycina noisticuline unanultai
			···	<u> </u>	<u> </u>		alors truncation
Geology	, landfori	m, soils					
Geology	map/scale/s	year:		-			·
Geology	code and re	ock types:	` <b>4 1</b>				
Land sys	tem:	undulai	to hills				
Landform	n: <u>5</u>	leps	<u> </u>		~		
Soils:	<i>(</i> **	ved c	1 ay - 10 cm	`			
Field obs	ervation an	nd notes: //	rapped a	5 C	mna	*	1.5.5 but is
	ړو	gouth	with bu	gelov	J		Landzone:
RE code	changes						
Existing I			11.5.5				
	RE code:		1116				
END							

**END** 

Vegetation structure  Median height of the EDL is to be measured  Stratum Median height interval density (DMS,V)  E			H+05	~	ecorder:	133 Re	No. L
Vegetation structure  Median height of the EDL is to be measured  Stratum Median height Est. cover density (0.M.S.V)  E							ose
Vegetation structure Median height of the EDL is to be measured  Stratum Median Height interval density (D.M.S.V)  E  T1 2 8 - 2 5 5 T2 C  T2 12 8 - 1 5 5 T2 C  T3 5 5 5 T2 C  T3 5 5 5 T2 C  T4 5 5 5 T2 C  T5 5 5 T2 C  T6 0 5 5 - 1 V  Structural formation: (including height)  Ecologically dominant layer:  Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system: (INCLUDIA)  Landform: Soils  Soils: boundand height interval density (D.M.S.V)  Plant species Record relative (nu d - dominant; c - vi dom.)  Str. Rel. dom. S  T7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	runde	784. (	) A	o nearest town			
Stratum   Median   Height   Est. cover   density (DMS.V)   Str.   Median   Height   Interval   density (DMS.V)   Str.   Median   Height   Interval   density (DMS.V)   Str.   Median   Median   Height   Height   Height   Height   Median   Median   Height   Height   Median   Median   Height   Median	_ \	<del>Y - 1</del>			028	wpt 19	: '
Stratum   Median   Height   Est. cover   density (DMS.V)   Str.   Median   Height   Interval   density (DMS.V)   Str.   Median   Height   Interval   density (DMS.V)   Str.   Median   Median   Height   Height   Height   Height   Median   Median   Height   Height   Median   Median   Height   Median							
Stratum   Median   Height   Est. cover   density (D.M.S.V)   Str.   Rel.   Str.   Str.   Rel.   Str.   Rel.   Str.   species	Plant			cture	n struc	tatio	
Stradim   height   interval   density (D.M.S.V)   St.   dom.   dom.   St.   dom.			_	e measured	DL is to be n	nt of the E	n heigh
T1 2 8 - 23 5 T2 C  T2 12 8 - 15 5 T2 C  T3 - 51 C  S1 3 2 - 3 V 52 d  S2 0 5 - 1 V 52 5  G 0 5 - 1 V 52 C  Structural formation: (including height)  Ecologically dominant layer: T/ G C  Geology, landform, soils  Geology map/scale/year: 9 C  Geology code and rock types:  Land system: (Including height)  Landform: epheroscal vetland  Soils: boundard has considered, soils  Field observation and notes:		Str.				1	um
T2 12 8 - 15 5 T2 C  T3 - 51 d  S1 3 2 - 3 V 52 d  S2 0 5 - 1 V 51 5  G 0 5 - 2 Structural formation: (including height)  Ecologically dominant layer: T/ G C  Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system: (Now Mars  Landform: e phomesa well and solutions)  Soils: how land brow cas in Field observation and notes:	9 E	T/					E
T2 12 8 -15 5 T3 C  T3		TZ	5	23	18 - 3	20	<b>T</b> 1
S1 3 2 - 3 V S2 d  S2 0 5 - 1 V S2 5  G 0 5 - 1 V S2 0  Structural formation: (including height)  Ecologically dominant layer: T/ G C  Geology, landform, soils  Geology map/scale/year: 9 C  Geology code and rock types:  Land system: (Iver Mars  Landform: ephomera vertage  Soils: browdowk brow code soils  Field observation and notes: land ephomera vertage, s	c (6		5.			12	T2
S1 3 2-3 V S2 d  S2 0-5-1 V S2 S  G 6 0-5 - 1 V S2 0  Structural formation: (including height) S2 0  Ecologically dominant layer: T/ S2 C  Geology, landform, soils  Geology map/scale/year: Sales  Geology code and rock types:  Land system: (Not Mays  Landform: ephaneral vettand  Soils: boundard brack care soil  Field observation and notes: land spacement wettand.				····	j		
S2   05-1   V   S2   5    G   05   -   S2   0    Structural formation: (including height)   52   0    Ecologically dominant layer:   T   G   C    Geology, landform, soils   Geology map/scale/year:   Geology code and rock types:  Land system:   (1000 Mark   Mark   Code soil    Soils:   brown / drink his or   Code soil    Field observation and notes:   A   A   A   A   A   A    Field observation and notes:   A   A   A   A   A    Field observation and notes:   A   A   A   A    Field observation   A   A   A    Field observation   A   A   A    Field observation   A    Soils:   A   A   A    Field observation   A    Field observation   A    Soils:			J	3 \	2 - 3	3	S1
Geology, landform, soils  Geology code and rock types:  Landform:  Soils:  Structural formation: (including height)  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  52 0  53 0  54 0  55 0  56 0  57 0  58 0  58 0  59 0  69 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60 0  60			V				S2
Structural formation: (including height)  Ecologically dominant layer: T/ 9 C  Geology, landform, soils  Geology map/scale/year: 9 9  Geology code and rock types:  Land system: (Including height)  Landform: ephomera uetland  Soils: hour land has coursely soil		52			_	25, 12-	G
Ecologically dominant layer:  Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Phomesa vetland  Soils:  Field observation and notes:				n height)	· (including h		
Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Phomesa vetland  Soils:  Field observation and notes:				g neight)	. taroidaling i	vi mativili	riulai l
Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Soils:  Soils:  Description of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of the code of t				 T1	int laver	v domina	naicall
Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Phomesal vetland  Soils:  Soils:  Field observation and notes:	C A				,	, 40.11111141	-917011
Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Phomesal uetland  Soils:  Soils:  Field observation and notes:  Soils:   - · ·				m polic	landfor	omu I	
Geology code and rock types:  Land system: (row Mat's  Landform: ephomeral vetland  Soils: boundand brow clay soil  Field observation and notes: language plantal wetland, s		)	<u></u>				
Land system: (ver Mats  Landform: ephoneral vetland  Soils: boundanh bron cousoil  Field observation and notes: language ephoneral workers, s	~						
Landform: ephomeral vetland  Soils: boundant brown clausoil  Field observation and notes: langua ephomeral wetland, s	······			01 /			
Soils: boundark brown clausoil  Field observation and notes: large explanation wether A. s.			1 - 1				-
Field observation and notes:	}		11	mera)	Show		
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totals, various alter	tecal, sie	Jw-C		1,3			
			C. I	yra exte	· Mariety	rer o	+0
RE code changes					<u> </u>	hanges	ode c

.ocatio	n						
ite No.	435 R	ecorder:	DS 1	MH			ny/Date: 16/12/20
urpose						- <del>,</del>	
ocality:	(inc. distanc	e/direction to nearest	town)	157	J. M	ste.	
GPS: (0	137	5	5 072	8 16		70	55040 DGDA9
•		· · · · · · · · · · · · · · · · · · ·					
	ion struc		· ·		speci		al) dominance for each stratum;
	Median	DL is to be measur  Height	Est. cover	<i>d</i> − do	minant; d	- co-	ominant; s - subdominant, a - associated.
Stratum	height	interval	density (D,M,S,V)	Str.	dom.		tific Name
E	16	17-16	V	Œ			
T1	21	5.40	$\mathcal{M}$	1	····	Vς	reu herpophylla
T2		_				50	dulum breeclight
Т3		_				€	emplum mitdelli,
S1	1	1-2	<b>V</b>				
<b>S</b> 2		-		5)	<b></b> ,	120	Gerjore partilloria
G		10.7	n			A	tolard horistona
Structura	al formation	: (including height)					3
Ecologic	ally domina	ant layer:		6	D	Co.	chrus alleic
	•	-		G		Oc	nieum effusion
eology	, landfor	m. soils		G		2	nicom effusión gophylun ??
	map/scale/						
	code and r						
Land sys		Dorn)					
Land sys		12					
	···	IK Brown	160	el lum	 K		
Soils:	servation a		00-00	South	ナー - Si 人	<u></u>	1000
riela obs	servation al	nu notes:	IIm a	→ No	AL	510	A read Landzone:
		_	<u> </u>			3,50	C1 Callacono.
RE code	change:		····	<i>i</i>			
Existing	RE code:	N	of nopped	7			
Propose	d RE code:		11.95				

END

# Vegetation Structure Site Inspection Sheet - Proforma

N 6391

5 6392 E 6393

W 6394

G 6395

Locatio	n							
Site No.	<u> બહુજુ</u> R	lecorder:						ay/Date: 16/12/2-0
Regiona	l ecosyste	em:	11.9.10	(	(not	Wa	ppe	1)
Locality	: (inc. distanc	e/direction to nearest	town)A	<u>^</u>	5 <u>~~</u>	1000	le	
Median hei	ion strueght of the Esity is to be	DL is to be measu	049 (058 red	<b>)</b>	Record	speci relative ominant;	(nume	ical) dominance for each stratum; lominant; <b>a</b> – associated; <b>s</b> – suppressed.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Sci	ntific Name
E	16	14.20	E		$\in$	c		regelov
T1	C/	WI- 8'	5		E	c	$\epsilon$	populaea
T2		-			11	c	)	nsalor
Т3					14	<b>C</b>	6	populaca
<b>S</b> 1	1.5	1 - 2	V		T)	<u> </u>	A	schiena
<b>S</b> 2		-			f1	C	C	altrus
G		-			$\in$	a	đ	melanphloia
Structura	l formation	n: (including height)			51	r		aparis loranthofola/coneson
					51	(	1	ature citrus
Ecologica	ally domina	nnt layer: T/			51			madov
Notes:					51	(		Ma
aron	re con	1 00011	in hid		12	a	6	zetron diversifolia
ط ک	, bu	Fel, up to	90% £		9	d		Med gross
લ્લ	SUNDE	arme.			7	S	A	pointedan bacialata
New	< may	oped habit	at, containing			5		Wons truncata
ball	. 1	15 m / br	· 1		c	5	C	astaridium distans
	,		¥./		) 0	5	ß	ostrostata vertisalata
					J			
								/
	***************************************							
				1				
Votes		1						
Disturba	ince:	heavil	y graze					
Weeds:		bullel	donnabed					
	-							
-								
								Landzone: 7

Location

G 6403

Site No.	452 R	ecorder:	wH ros					l ay/Date: 16/12/2-0
Purpose								
Locality:	(inc. distance	e/direction to nearest	town)	Ano	J.()	ر ر	<u>~</u> 4	<u>e</u>
GPS:		5	5 073	27	[]		つ 0	64625 D
		d in some	3.					
Vegetati			ere.			specie		La National Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o
Median hei	gnt of the E	DL is to be measur		Re a	cord – do	relative ( minant; c	nume - co-	e cal) dominance for each stratum; - ominant; <b>s -</b> subdominant, <i>a</i> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	s	Str.	Rel. dom.	Scie	e tific Name
E	11	10 -14	V		C	d		lagaby
T1	S	u -8	S		<	S		· cristata
T2				[τ	۲}	d		Ingolow
Т3			***************************************	1	-,	C <sub>1</sub>		Wenia ascidula
<b>§</b> 1	\	0.5 - 1.5	J	1	r)	5	<u>C</u>	cristata
<b>S</b> 2		_		5	; )	d		ngalov .
G	thon's	-			9	9		outsel land
Ecologica	ally domina							
Geology					—		$\dashv$	<del></del>
	map/scale/	••••						
-	code and re	ock types:	aling Lills	***************************************				
Land syst		- Cugnic	<del>)</del>	<u>&gt;</u>				· · · · · · · · · · · · · · · · · · ·
Landform	1: 	boun	١ ٠١					
Soils:			107 2011	; -	<u></u>	\ 1/		under, bongalow
rield obs	ervation an	*****	Obor, Cor	√ c6 		<u></u>	2/2 a	1 00 1
DE	changes					<b>/</b>		
			×		—			<del>                                     </del>
Existing i		11·	9.5 <sub>0</sub>	<u></u> -				
Proposec	d RE code:	/1.	. ~ 0				-	
END								

N 64 08 5 6409

€ (410

W6411

G6412

**END** 

Location							
Site No.	455 R	ecorder:	MA, OS				ay/Date: 16/12/2-0
Purpose							
Locality:	(inc. distanc	e/direction to nearest	t town)	toora	<u> </u>	<sub>50</sub> /5	
GPS:		2	5 0 % 3	3/16		ž 0	63614 D
			1558				
Vegetat			``		speci		(act) daminance for each stretum:
iviedian nei	gnt of the E	DL is to be measu	rea	a – do	minant; c	nume - co	ical) dominance for each stratum; lominant; <b>s -</b> subdominant, <b>a</b> – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Sci	ntific Name
E	121	14 - 16	V	E	0	6	popelnea
T1	9	8-10	5	T1			prigator
T2	4	3 - 5	5	11	·	C	cristata
Т3		_		<b>1</b>		G	populacs
S1	1.5	۱ - 2_	J	1		6	n.tohelii
S2		-		72			Maa
G		_		51			Nga
Structura	i formation	: (including height)	)	51		1	cheve citees.
				9			o. The
Ecologica	ally domina	ınt layer:		<u> </u>		ļ <u>;</u>	engaphylumus sp
				g		C	loses decreate
Geology	, landfor	m, solls		9		Spi	-yena bicornis??
Geology	map/scale/	year:		51		$\infty$	poris conescense
Geology	code and r	ock types:					······································
Land sys	tem:	code	ulation of	<u>owns</u>			
Landform	ı: 	blat		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t			
Soils:		hole	bran	<u>clon</u>	·····		
Field obs	ervation a	nd notes:	regrout s	1 kg	brig	باداد	obminating
	<u>.</u>						Landzone:
RE code	change	\$,					
Existing	RE code:	Hv	R		···		
Propose	d RE code:	14.	UR 11.9.	5	·		

**END** 

Locatio	 1	•					
Site No.	456R	tecorder:	MH			P	ly/Date: 16/12/20
Purpose							, ,
Locality:	(inc. distanc	ce/direction to nearest	town) A	<u>Osca</u>	ومرس	<u>رکر</u>	
GPS: /	039	5	5 0 7 3	3 2 6	7	70	63233 P60194
Vegetati Median hei		<b>cture</b> DL is to be measu	red	Record		numer	al) dominance for each stratum;
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	<b>d</b> − dd Str.	minant; d Rel. dom.		minant; <b>s -</b> subdominant, <i>a</i> – associated.
E		_		1		Ne	acia pendula
T1	8	7-10	5				•
T2		-	***************************************				
Т3	****	-		51		E	ophle-sp
<b>S</b> 1	3	1.3	5			Ce	ison paritin
<b>S</b> 2		=	~~~444 444 <b>**</b> **				
G		< <u>0</u> ·3		6		Ce	netres orleans
Structura	l formation	n: (including height)					érologra biceini
<b></b>			<i>-</i>			M	ulcostrum americania
Ecologic	ally domina	ant layer:	])			Ab	
		<del></del>				1	love truncation
Geology	, landfor	m, soils			P	hle	(v) 5/1.
Geology	map/scale/	/year:					
Geology	code and r	rock types:					
Land sys	tem:	buns					
Landforn		terous.		·····			
Soils:	ع) ڈا	an cly		1.	~!	1	1 ( 2 1 1 1 )
Field obs	servation a	nd notes: ]	tominated tosynifica	J sa	nofy	'Yan Olen	Landzone:
RE code	change	Š			* //		
	RE code:		HVR				
	d RE code:	. 17V	n				
		*					

# Vegetation Structure Site Inspection Sheet - Proforma

Location	on							
Site No	6.4 <u>5</u> 2 F	Recorder:^	WHY DS					ay/Date: 16/12/20
Region	ial ecosyste	em:		_				
Localit	<b>y:</b> (inc. distand	e/direction to nearest	town)	<i>\</i>	Non	1 Jou	· */\	
Median h	<b>Ition stru</b> eight of the E nsity is to be	DL is to be measu	•		Recor	t speci	(nume	ical) dominance for each stratum; ominant; <b>a</b> – associated; <b>s</b> – suppressed.
Stratum	Modion	Height interval	Est. cover density (D,M,S,V)	1	Str.	Rei. dom.		entific Name
E		-		1	+1	_		crystata
T1	9	8 -11	W	1	-	Same.		oricalow
T2	4	3 - 5	S		11	Ci		maall
Т3		-			17	G	C	paplore
<b>S</b> 1	1	1 -2	VS		12	COL		Initalelii
<b>S</b> 2		_			72	01		wilgs
G	1255	-	~		51	Q		pasninem didinem
Structur	ral formation	n: (including height	)		31	a	1	ratine cities
					12	<u> </u>	L	manlow
Ecologi	cally domina	ant layer: T						
Notes:					9			offel
С.	enstate	donnote	A washin		3			thbrus truncates
10/5		71-2	ming through	4	<u> </u>			ntrapoga ascicularis
<u>d</u>	alel gr	onny Mr.	au/Lat					
	possible	HVR						
						ļ		
		544574554B94V&±1						
			***************************************	-				
		<u>`</u>						
Notes								
Disturb	ance:							
Weeds	<u> </u>				<del></del>			
					»	<del></del>		
						/		
								l andzone:

Location

Site No.	460 A	ecorder: D	5 MH	***************			ay/Date: 17/12/20
Purpose Locality:		e/direction to neare:	st town)	Ans	$\sim$	J./	154
GPS:	A 106	,4	5 073	006	7	70	65566 DGD
Vegetat Median hei	ion strue	<b>cture</b> DL is to be meas	ured	Record	speci relative minant;	(nume	cal) dominance for each stratum; ominant; s - subdominant, a – assoc
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
E		_		1	り	Ac	ceici horpodylla
<b>T</b> 1	11	10-13	M		0-	Ca	
T2				5,	D	(	region pointland
Т3							,
<b>S</b> 1	3	3 <u>-</u> 4	<u> </u>			ļ	
S2		<u>-</u>				ļ	
G		- 5.0	Ð	6	$\mathcal{D}_{-}$	<u></u>	nehrus ciliaris
Structura	l formation	: (including heigh	t)				
Ecologica	ılly domina	nt layer: 1		***************************************			
Geology,	landfor	n, soils					
Geology r	nap/scale/y	/ear:		<b></b>			
Geology o	ode and ro	<i>a</i> )	Λ				
Land syst		roly o	louns				
Landform		signe			<b></b>		
Soils:		rown	c icy	41			
Field obse	ervation an	d notes:	Shib lgo d 1003	2 b	iffe	1	Landzone:
RE code	changes						
	RE code:		11.9.5/	11-9-1	0		
Existing F							

	Location	n							,
	Site No.	461 F	Recorder:	D5	Μ	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa			ay/Date: 17/12/20
	Regiona	al ecosyste	em:						
	Locality	: (inc. distanc	ce/direction to nearest	town)		Ha		<u>/s</u>	y jungle
		ion struelight of the E sity is to be	EDL is to be measu	(665 ured (066		Record	t specied relative of	(nume	cal) dominance for each stratum; ominant; <i>a</i> – associated; <i>s</i> – suppressed.
	Stratum	Median height	Height Interval	Est. cover density (D,M,S,V)	, ]	Str.	Rel. dom.		tific Name
<u></u>	Е								<u> </u>
	<b>T</b> 1	6	5-8	3		11	n	Ace	cia harpophyla
	T2						ļ	R	relighten in pestix
	Т3		<u> </u>	ļ,					0
	\$1	3	3 - 5	<u> </u>					
	\$2	1	05-1			51	7)	10	erjea partilar
	G	<u> </u>	(0-2	$\Box D$	_			6	mophilla mitteleller
. 1 a .m.s	Structura	al formation	n: (including height)	)			<del> </del>		try glaven
P 6434	ļ			·	_		<del> </del>	<i>▶</i>	alga hendered
5 6436	Ecologic	ally domina			_			<del>                                     </del>	
6 6436	Notes:		1.9.50	1)		Se		G	
W 6437	a	, dua	sed reg	routh		 		C1	Ins glance
6 6439	Ve	'y 01	Der		_			A	lectingon diversibility
	<b></b>					G	1		enchas exhauss
	***************************************	***************************************	A124222272727		-		-2	+7	
					-			+ 7	10
	<b> </b>				-	<b>-</b>			listen and mon
	<b> </b>				-	ļ		1/~19	mastron ornavionon
					-			+-	
				4544444					
	Notes								
	Disturba	ance:	-						
	Weeds:	_	Grove	d ia	5 4	<u> </u>	PV-1"	e	
								-	9
	1							, r	Landzone:

5 6442 6442

Location	<u> </u>							
Site No.	462 R	ecorder: D5	ay/Date: 17/12/20					
Purpose			;					
Locality:	(inc. distanc	e/direction to nearest	town) A	<u> </u>	$\gamma$ . T	ماورر		
GPS: سر	of 1062	5	5 0 7 3	Ŏ	65	4	70	64851 DGDA94
V ?	1-4							· · · · · · · · · · · · · · · · · · ·
Vegetati	on stru	cture			Plant	speci	es	
		DL is to be measur	red		Record	relative (	nume	cal) dominance for each stratum; ominant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		itific Name
Е	-	13-55			11			isvovina cristuta
<b>T</b> 1	14	13 - 15	V			5)	D.	ada hapapyla
T2	10	4 -1)	5					I I V
T3		-			12	1)	A	reia happyllic
<b>S</b> 1	Ц	3-5	5				Æ	cosmone enstato
<b>S2</b>		05 - 15	<u> </u>				O	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s
G		Ko-1					B	edyclitan apostris
Structura	l formation	: (including height)			51	り	G-e	yera Pariffici
				_	<b>\2</b>	7)	٨L	etryon dienfolis
Ecologica	ally domina	ınt layer:	***************************************				Cer	
		·		_				
Geology	, landfor	m, soils			12		<u>E</u>	Creboro
Geology	map/scale/	year:						
Geology	code and re	ock types:		****	6	DC	ه بره	has alled
Land sys	tem:					<u> </u>	0/1	trunestà
Landform	ı: 					And		achne uncunlate
Soils:		·				lasp	all	)
Field obs	ervation ar	nd notes:				Ent	eg	ison acicularis
						Zy59	γ٢	Landzone:
RE code	changes	S				<u> </u>		
Existing l	RE code:		Net	γ.	90	بعد		
Proposed	l RE code:		19.5a					
END			· · · · · · · · · · · · · · · · · · ·			1	, 2_	aportion tombésai
	·				6	A:	(1.51 por	openha tontesa ide adjuna helix astralis Page 23 of 26

Location

56456

Site No.	<i>Ц</i> 64 г	Recorder:	5 MH				ay/Date: 1/12/20
Purpose	·				<del>.</del>		
Locality	(inc. distan	ce/direction to neare	st town) Angr	j jung	ole .	<i>.</i>	
GPS:	pt 125	9 5	0 7 3	150	3	70	65059 P
/enetat	ion stru	icture		Plant	speci	20	
Median he	ight of the I	EDL is to be meas	ured	Record	l relative	(nume	cal) dominance for each stratum; ominant, <b>s -</b> subdominant, <b>a</b> – ass
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.		ntific Name
E		_		11	2	Лc	rcia harpopyla
<b>T</b> 1	7	6.9	M	12	7	Ac	ora happydylla
T2	3	3-4	5			Ci	rus glacei
Т3		-		51	0	G	ifea perifolis
S1	05	05-1	<b>/</b>		ļ	N	ctyon chresifolis
S2							
G		26.6	D	6	n	Ce	relia entreis
Structura	i formation	n: (including heigh	nt)		ļ		
	<b></b>		:		ļ		
Ecologic	ally domin	ant layer:	<u> </u>	************			
		į					
Geology	, landfor	m, soils					
Geology	map/scale	/year:					
Geology	code and i	rock types:					
Land sys		Downs					
Landforn	n: <i>f</i>	lat					
Soils:			DK Brow				
	ervation a	nd notes:	Vr 15/3-	on c	<u> </u>		
Field obs		1 . 6	J/ 1 11 1				Landzone
Field obs	6001	1 (00)	% buttel				Landediso
	change		% buttel	£			Landzone
RE code			% buttel	410			
RE code	change	<b>s</b>	% buttel 9.5/11.91 150	lio			

Page 23 of 26

	Site No.	472 <sub>Re</sub>	ecorder:	BS N	M	<u> </u>			ay/Date: 17 12 20
	Regiona	ıl ecosyste	m:					-,	
	Locality	: (inc. distance	/direction to nearest	town) And	50	***************************************	200	$\mathbb{Q}^{r}$	
	Median he	ion structight of the Elsity is to be e	DL is to be measu	ıred		Record	specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specion specin specion specion specion specion specion specion specion specion	(nume	cal) dominance for each stratum; pminant; <b>a</b> – associated; <b>s</b> – suppressed.
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel dom.		tific Name
	E		-,			11	7)	A	reic happpylla
	T1	5	4 -6	5		۲.			
	Т2			\					
	Т3		<u>-</u> .		-				
	S1	2	1.5-2.5	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \					
	<b>\$2</b>	0-4	0.2 <u>-0.5</u>	V		51	<u> </u>		tos glance
	G			<del>  \</del>				6	emphila mycletty
	Structura	ıl formation:	: (including height)	<b>)</b>			رغت	Α.	cera hapaphille Good
			11			52	$\mathcal{D}$	^	eers happylle sood
6469		ally dominar	0/ 1.1/						
buto	Notes:	<u>160</u>		<u>w</u> :					
6421		0,	open	stable legs					· · · · · · · · · · · · · · · · · · ·
6472	1	Pero L				6	ก	7	nelvy cilieis
6473	· /	Mostly	box 5	rend					hostom onercomin
		<i>V</i>	<i>Ų</i>	· · · · · · · · · · · · · · · · · · ·					3, 3, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,
	Notes	,							
	Disturba	ance:	Ver	oper	ſ	~ (i) /	ext		
	Weeds:			,5 100	6/	/	blut		
					<u>/\_/</u>				

Locatio	i H	18				٠		
Site No.	R AMERICA	tecorder:	5 mH				(	ay/Date: 17/12/20
Regiona	l ecosyste	em:				:	<del>- J</del>	•
Locality:	(inc. distanc	e/direction to nearest	town)	Ú	7	5000	ولو	
Median hei	ion strught of the Esity is to be	DL is to be measu	cal) dominance for each stratum; pminant; <b>a</b> – associated; <b>s</b> – suppressed.					
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scie	tific Name
E		-			11	)	6	svanne Charlete
T1	13	10-15	M		Ì	·	R	E. popular
T2	4	2-5	M				,	svame Costate  6. populnes  anaplia midulli £10
Т3		-				f		
<b>S</b> 1					12	D	$\epsilon$	ergen pervitalia
S2		<u> </u>					4	eijea parvitalia
G		40.5					4	itas glacer
Structura	l formation	: (including height	)			·		
			-j/					
Ecologica	ally domina	ant layer:	1/					
Notes:		a			C		0	Lons truncata
							Α	ristida calquina
		*****						
			· · · · ·					
Notes				_				
		<u> </u>	Alat	N	a DA	o A		***
Disturba	iric <del>e</del> :		Not	1	· d !	$\frac{\sim}{O}$		
Weeds:			,		, ,			
110003.		<del> </del>				<u> </u>		
-								9

Location			
Site No. 488 Recorder: D5 M	A		1 ay/Date: 17 12 20
Purpose		<i>-</i>	`
Locality: (inc. distance/direction to nearest town)	$\alpha_{0}$	$7^{-}$	mg (
APS: 1097 55 0430	2 3 0 9	٩١ [	4062514 DGDA
<b>/egetation structure</b> Median height of the EDL is to be measured		elative (	(nume cal) dominance for each stratum;
Stratum Median Height Est. cover	Str	Rei. dom.	c – co- ominant; s - subdominant, a – associal Scientific Name
height interval density (D,M,S,V)	11	<u>1)</u>	Browin hamophila
7 6-10 M		······································	Blacera happoplyla
T2 -		·	Soltalin Knowletin
Т3 -			1 ectron diversions
sı   1 - 15   V	31.		Cities glower
82 O -0.5	4,2		Acces hapeple for see
G 2 3			1 1
Structural formation: (including height)	6		andry while
Ecologically dominant layer:			
Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:  Land system:  Landform:  Soils:  DK Brown Clay  Field observation and notes:			Landzone:
DE sade abandes			
RE code changes  Existing RE code: Not musted			
RE code changes  Existing RE code: Not may fed  Proposed RE code: 11. 9.5	IVR?		

	Location	n	4	•	,				
		442 R	ecorder:	73	W	N			ay/Date: 17 2 20
	Regiona	ıl ecosyste	<b>;</b> m:				<del> </del>	<del>,</del>	
	Locality:	: (inc. distance	e/direction to nearest	st town) Avar	<u>&gt;</u>		J-1/3/	L_	
	Median hei	ion struc light of the El sity is to be e	DL is to be measu	ured		Record	t speci d relative lominant;	(numer	cal) dominance for each stratum; ominant; <i>a</i> – associated; <i>s</i> – suppressed.
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.		tific Name
	E		-		]	1	D	Ac	are hoppopylla
	T1	5-	5 - 6	M				6	renophia intalli,
	T2		-					1	commun didynum
N 6490	Т3		-	<u>.</u>	_				
5 6491	\$1						ļ		
€ 6492	S2		2 0.6		_	<u> </u>			
W 6493	G		< 0.6	<u>D</u>	<b> </b>		<u> </u>		
6 6494 6 6494	Structura	al formation	n: (including heigh	ıt)					
	Ecologic	ally domina	ant layer:	TI		6	D	Cd	extra tonatora
	Notes:	<u>-</u> -	etcy don r	<del>- h</del>	_			19	critica tonantora
		Brigg	don r	Trong		<u> </u>	<del> </del>		
•					-	-	-		
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				***************************************		<u> </u>			
•					4	<u> </u>	ļ	+	
					_	_	<del> </del>		
					_	<u> </u>	<del> </del>		
		***************************************			_	<u> </u>	<del> </del>		
	<u></u>								
	Notes								
	Disturba	ance:				<del></del>			
	Weeds:	:		Goved	10	20%	Zk	,JF	e
		·							
	<u> </u>							·	Landzone:

Locatio							
		Recorder:	DS 1	MN		Da	//Date: [7] 12 20
Purpose	· !				)		
Locality	(inc. distanc	ce/direction to neare	st town) A	m F	wol	U	
GPS: /	114	3		074	8	70	0 2 2 4 4 D 6D1 90
	10 (					, ,	
	ion stru ight of the E	<b>cture</b> EDL is to be measi	ured	Record	speci relative	(numeric	il) dominance for each stratum;
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel.		ninant; s - subdominant, a – associated. fic Name
E.	<u></u>	_		T,	D	Ace	ia harpophila
. T1	6	6.8	M		A		raine Cristata
T2		_					
Т3				5/		11-	are honorlilla
S1	3	2_4	5			64	rephla mitchelli
S2		0-2-1	5				
G		Lo.1	5	52		Ae	en harropy or sending
Structura	l formation	ı: (including heigh	t)			(a)	ica Lypopylla seedlys
		(	7			Ate	Gergeo Parifolis
Ecologica	ally domina	ant layer:		6	Ŋ	Ce	-Lous allate
				J	I	50	asbows astrolls
Geology	, landfor	m, solls				$\epsilon'$	aprostis brownii
Geology	map/scale/	vear:	•				<del>- 0</del>
	·	ock types:	g gagant i mane. He mane i mane i mane i mane i mane i mane i mane i mane i mane i mane i mane i mane i mane i	Wales of all and the sale			THE RESERVENCE OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY
Land sys		P)0-15					
Landforn		est.	reconstruction to the second common and the second common and distillate the description (ACP) (ACP) (ACP).	U. renew median-Museum median			
Soils:	<b>1</b>	31000 0	gravely	cloy			( r - i
	ervation a		Ground	d de	om va	Lod	by Bathel
							Landzone:
DE cada	change			و			
		<del>.</del>	11.95/	11.9.	10		·
-	RE code: d RE code:		11. a. C.	<b>~</b>			
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Locatio	n										
Site No.	498 R	ecorder: $\overline{\mathcal{V}}$	<u> M</u>	H			•	ay/Date: 17/12/20			
Regiona	l ecosyste	em:									
Locality	(inc. distance	e/direction to nearest	-								
Median height of the EDL is to be measured Recor							(nume	cal) dominance for each stratum; ominant; <i>a</i> – associated; <i>s</i> – suppressed.			
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)		Str.	Rel. dom.	Scie	tific Name			
E	14	12_14			$\epsilon$		Co	scaine cristator			
T1	8	8-10	<u> </u>								
T2	5	3 - 7			11		C	somme enstate			
Т3		-					Λo	acia herpophila			
<b>\$1</b>		1.2	V								
S2					12		A	our topplin			
G		C0=10	M	-							
Structura	l formation	: (including height)	1		7,		n	I LA			
				$\blacksquare$	21		A	ection dupitors			
Ecologic	a <u>lly domina</u>	int layer:		-			E	englile nitclellii			
Notes:								XOOM OVER			
ļ	Leo com	Demon 1 1						X00/			
				-		7		rehalf enhances			
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	<del>,,</del>			-							
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Notes						٠					
Disturba	ance:										
						1. 7		1 1 1 1 1 1			
Weeds:		Ground	my spe	ve	b	t de	DAM 1	sted by lattel			
								a			
	Site No. Regional Locality  Vegetat Median he Cover dense  Stratum  E T1 T2 T3 S1 S2 G Structura  Ecologic Notes:	Regional ecosyste Locality: (inc. distance  Vegetation struct Median height of the Ecover density is to be  Stratum Median height  E /4  T1 /5  T2 /5  T3 /5  S1 /5  S2 /6  Structural formation  Ecologically domination  Notes:	Site No. 498 Recorder:  Regional ecosystem:  Locality: (inc. distance/direction to nearest to the content of the EDL is to be measured)  Vegetation structure  Median height of the EDL is to be measured  Stratum Median height interval  E	Site No. 496 Recorder:	Site No. 496 Recorder:  Regional ecosystem:  Locality: (inc. distance/direction to nearest town)  Vegetation structure  Median height of the EDL is to be measured Cover density is to be estimated  Stratum Median Height interval density (D.M.S.V)  E	Site No. 496 Recorder:  Regional ecosystem:  Locality: (inc. distance/direction to nearest town)  Vegetation structure  Median helght of the EDL is to be measured Cover density is to be estimated  Stratum Median Height Est. cover density (DM.S.V)  E   f4   12   f4   V    T1   S   S   V    T2   S   S   T    T3   S   S   T    Structural formation: (including height)  Ecologically dominant layer:  Notes:    C   C   C    Notes  Disturbance:	Site No. 496 Recorder: DMR Regional ecosystem: Locality: (inc. distance/direction to nearest town)  Vegetation structure Median height of the EDL is to be measured Cover density is to be estimated  Stratum Median Height interval density (DM.S.V.)  E 14 12 14 V  T1 8 8 10 V  T2 5 3 7 V  T3 - V  T3 - V  Structural formation: (including height)  Ecologically dominant layer: Notes:  Per Cover density is to be estimated  T1 19 S 1	Site No. 498 Recorder:  Regional ecosystem:  Locality: (inc. distance/direction to nearest town)  Vegetation structure  Median height of the EDL is to be measured Cover density is to be estimated  Stratum Median height interval density (OM,S,V)  E   12   12   14   V    T1   8   8   10   V    T2   7   3   7   V    T3   -			

	Location							
	Site No.	499 R	ecorder:	05 M	И		Da	//Date: 1712/20
	Purpose	,			ر.	, C		
	Ī .,	(inc. distance	direction to neares	t town) Arg	<u>्</u> ।		10 (	3410 D6DB 94
•					<u> </u>			
		on struc	<b>ture</b> )L is to be measu	ured	Record	specion relative ( minant; c	numerio	l) dominance for each stratum; ninant; s - subdominant, a – associated.
	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rei. dom.	Scien	fic Name
	E		- / B		1)	D	Ace	or happyla
	T1	9	3 <b>-9</b>	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	,-		C	scarnon Exstutei
5	T2							
r 6-23	S1	4	2 - 4	M	51	ŋ	Ge	re partle
5 6524	<b>S2</b>	.						Y
E 6525	G		<b>4</b> -3			· 		
W 1526	Structura	l formation:	(including height	·).	6		C	dus. Clibars
6 6523	Ecologica	ally dominar	nt layer:	\			G ra	groshs bownin
						•	یک	aplana bicinis
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pinosom	Soils:			- A				wisson over
p. may	Field obs	ervation and	d notes:	er er y	3×)			Landzone:
2 7	REcodo	changes						
H.	Existing			Not n	noffe	1		
\$ 5		i RE code:		.9:5 ro	Mes	.7	hen	not but ved
•	END				1 1.	(		Poed Condition
			Lea	offer s	Leet	re		
			7	***		$O(\sim 1)$		

Page 23 of 26

499

Transect - crown cover measured (transect intercept method)

Hungest Grown oo	VOI INCAGGIOGO (III.A.1356)	or mitorocopt interne	,0,				
GPS coordinates:	Datum:	GDN 94	Transect	ength:	100		
Start point	Zone 55 E 0 7	29982	N 70	634	10	1109	
End point	Zone <b>5</b> E <b>0 7</b>	30066	N 10	6 3 3	62	1140	

All heights in the "Str./height" column are to be measured

All neights in the "Str./neight" colum	ir are to be i	Trouse	
Interval (metres)	Interce	pt	Str./height
7-12.5	5.5	m	T1 8
19-20	1	m	1/6
265 - 29	2.5	m	51 25
265 - 29 37 - 40	3	m	51 3,
45 - 50	2_	m	かず
<del>-</del>	, i	m	
15 - 77	2_	m	51 2
75 - 77 84 - 88	4	m	512
87 -98	1	m	T, 7
		m	
-		m	
•		m	
· •		m	
-		m	
-		m	
		m	
-		m	
-		m	
		m	
-		m	

Summary: Minimum hei	nt of plants transect table:	6 m	
included in th Intercept of E		2	m
	L 50 -100m:	4	m
Measured cro of EDL 0 -10	vn cover % m:	28	%
Structural for	ation		
Conclusions/	otes:		
	"		
		<u></u>	
			. "

**END** 

Locatio	86			•			
	6011	ecorder: D5	MH			Da	/Date: 17/12/20
Purpose						·	/ '.
Locality:	(inc. distanc	e/direction to nearest	town)	77	Jur	gh	
GPS:	ms	5	5 042	930	9	10	06DA94
Vegetati Median bei	on strue	<b>cture</b> DL is to be measur	ed.	Plant Record	speci	es (numeric	I) dominance for each stratum;
Stratum	Median	Height	Est. cover	d – do	minant; e	: – co-dd	ninant; s - subdominant, a - associated.
ouatum	height	interval	density (D,M,S,V)	Ju.	dom.		
E	מ	- , 11		11	7)	Aca	ere horsephylloi
T1	0	6-72	, lympad			CP	Mr Tomotosic
T2							
Т3	~		5	51		C	endola mitalli
<b>S1</b>	3	2 _>				E	enophia militariii
S2	01	0 - 5-5	······································				clayer hemislauca
G	0.3		M	*********		0	ise ferrale
Structura	l formation	: (including height)		<u>\$2.</u>		$A_{\leq j}$	er Lappytha tedle
			·		6	<u> </u>	abya hendere
Ecologica	ally domina	nt layer: / /	· · · · · · · · · · · · · · · · · · ·	۷	1)	Ce /	chus ciliaris
Geology	, landfor	m, soils	· · · · · · · · · · · · · · · · · · ·				
Geology	map/scale/	year:	( .			·····	***************************************
Geology	code and r						
Land sys	7	Dow					
Landform	1: <u>{</u> -	1.16					
Soils:	red	als of	rain elo	7			
Field obs	ervation ar	nd notes:		·	·	<del></del>	9
							Landzone:
RE code	change	Š					
Existing	RE code:		11.9.5/11	·9·(O			
Proposed	d RE code:		.9.Sa				
		•					

Page 23 of 26

	Location	1						,
	Site No.	513 Re	ecorder: DS	MH				ay/Date: 18/12/20
	Purpose							-
		**	/direction to neares	t town)	50	Kr	$\sqrt{\lambda}$	
	GPS:		5		822	U -	7 0	64054 D60Aa4
	·							
		on struc ght of the El	<b>ture</b> DL is to be measu	red	Plant species  Record relative (nume			cal) dominance for each stratum; ominant; <b>s</b> - subdominant, <i>a</i> associated.
-1	Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scie	itific Name
N6551	Е	10	4-10	V	$\mathcal{I}_1$	7	Δ	. harpopy lo
5 6552	T1	5	4-5	MDD	E	7)	6	Populace Con edges
6 6553	, <b>T2</b>		-					
1554	Т3		-		41	D	G	year partloin
Work	<b>S</b> 1		1 _15	\ \ \				
W 6554 G 6555	\$2		-				ļ	
	G		20.1	MD	6		Ce	rchs aller
	Structura	l formation:	: (including height	)			57,	la oxycesfum
				: 			61	grates brown!
	Ecologica	ally domina	nt layer: T	ì			6,,	adia theorog
							00	inte disortiaes
	Geology	, landforr	n, soils					
	Geology	map/scale/y	ear:					
	Geology	code and re	ock types:					
	Land sys		Rolly	downs				
	Landform	າ: <u></u>	Slope			····		
	Soils:		150000	cley	7 11			1
	Field obs	ervation an		Ground	4/10	•••••	20.e/ ]	hs common
	***********************			/cm	-mesty Landzone: 9			
	RE code	changes	•					
	Existing	RE code:						
	Propose	d RE code:		11-9.50	reg	eul		
	END			·				

Location

N 6469

€ 6571

Purpose  Locality: (inc. distance/direction to nearest town)  GPS: 1/29  Plant species Record relative (nume cai) dominance for each stratum declar height of the EDL is to be measured  Plant species Record relative (nume cai) dominance for each stratum density (0.M.S.V)  ESTRATUM Median height interval density (0.M.S.V)  E  T1 12 10-12  T2 8 8-9  T3 -	0 6 D/
Plant species   Record relative (nume cal) dominance for each stratum   Median   Height   Est. cover   density (D.M.S.V)	60/
Plant species   Record relative (nume d - dominants of reach stratum d - dominants of reach stratum   Record relative (nume d - dominants of reach stratum d - dominants of reach stratum   Record relative (nume d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - dominants of reach stratum d - d	61)/
Record relative (nume d - dominance for each stratum d - dominant; c - co ominant; s - subdominant, a - stratum   Median height   Height interval density (D.M.S.V)   Str.   Rel.   dom.   Scientific Name	
Stratum Median height interval density (D,M,S,V)  E  T1	m; associated.
E - T1 12 10-12 V T1 D E Paplunea  T2 8 8-9 V T2 D Ac haropylla  T3 - S1 T4 3-6 S C Gerrar Parried  S2 - C Crophila mitch  G # 2-3 V  Structural formation: (including height)  Ecologically dominant layer: 1  Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:	
T2 8 9 9 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
T2 8 9 9 1 1 1 No harpopylla  S1 1 3 - 6 5 5 6 Gergan Partifol  S2 - C Emphro mitol  Structural formation: (including height)  Ecologically dominant layer: 1   Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:	
S1 If 3 - 6 5 5 C Gerror Particol  S2 - C Enophila mital  Structural formation: (including height)  Ecologically dominant layer:  Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:	
Geology code and rock types:	
Geology code and rock types:	<u>                                     </u>
Structural formation: (including height)  Ecologically dominant layer:  Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:	e.((1)
Ecologically dominant layer:  deology, landform, soils  Geology map/scale/year:  Geology code and rock types:	
Geology, landform, soils  Geology map/scale/year:  Geology code and rock types:	) 
Geology map/scale/year:  Geology code and rock types:	
Geology map/scale/year:  Geology code and rock types:	
Geology code and rock types:	
Landform: Touads button of slope	
t .	
Soils: Red/brown Clay	
Field observation and notes:	··
Landzo	ne:
E code changes	
Existing RE code: 11-9-5 / 11-9-10	
Proposed RE code: /1.9./O	
ND ND	

# Appendix E

Field Survey Site Data: Quaternary Site Sheets

	Job	SD22	23/1	(202e) (1)	
			NI - Al-lina	Comments	Photo
*	172c	)		Canstate 10-12 m US RILL Sur und	2/31
				Epopular 12-13m, Gals hosquilancopy	3,54
1	121		<u> </u>	t popular 12 1sm, com	317
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17	23	(+c.lstz	n South	Saddand Callitas 6m VVS and buffel	3,55
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173	25	(non-rem	n pedrah)	T. E. Gebra, A lelocarpa 1401 VS, C. Alauco 8m	3158
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73.	7	Non	rem	II T familiaring	
78	4			New 11.5- # 1	3174
7	- Autorian			rem 115.1 South (mapped new rem)	3174
7 1				Camedalla	3172
73	6			C. grandy wa reany on 3- 8m / 110 n-rem	7778
73				C. glausphylla remulti 5-8m/non-rem E. Crebia E. E. Richard T. Access Tancerland	13110
				now the hand I swill rock	
	<u></u>		<u></u>	1 1 miles from 1 st DW 1868 1964	<u> </u>

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Date.....

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				remnant	
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				T2 10m cas cristal 3 720m	
	:			T2 10m Cas cristatos Stell 720 w remnent (mogamax) wide	5999
( <del>- 7</del> )	7 1			TI E pop 10 m S < 15 m wde	5950
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	'			S, Even Milch5m S no FWM	
		·			
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			'/	Dale Sandy Clary RESINANT	595 [
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				& E- melangentera Remnant	
17/1					5156
174				Row 11.5.5	5936
,	,,			abundant logs, native gr	عاد 
174	16			rem 1155 abundant logs, native gra	595F
		ohunden	Acc	T, C. glancophyla, Grymbia sp. 11-14425 72 Expulsen 4-7m S c. glancophylas	5760
17	48	native 9	(A rin ")	To Epopulien 4-7h S ciglancapyers	591-1
	10	FWM		Labelle in all locations	7107
17/1	G			1155 good and liker, FWH. liter	5962
(74	] (				
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75				Caropy gap zom	5963
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¥.				natural dringe ine	5973

Date.....

Job.....

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No.	Easting	Northing	Comments	Photo
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	•	FUNI	TE FOR/ Call glower (8-62) 10m 5	5877
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7/2	> FWI		19-12 (1) transler 15	
760	< grain		126-9 1 C. Marie	5981
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			Enuls 1/a/c. grancophyron	3
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173	1		Paredon Madal - Ray non-functional	600
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75		<u>.</u>	T, 12m E-moluccound LZ+	600
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1.0		1199	To Can a a la Alrecon	6000
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Job. 5022 (9)

		SULL			
	No.	Easting	Northing	Comments	Photo
•	1777		nount	Poplar box 16m RK 10m wide	6005
	1778	Lam	amt RL	Replantex 11 in good and whom 11.9.7	book
	1779	Happen	HIR	IT ELDED 10m S track brough	6007
		1		tool non-1eur 1197	8000
		1780 Nan	Thank	11-9-7 New-forband insulfation	6009
			:		
	1781	losei.	Je	1197 lemant good condition	600
	1782	80 m E	outh	hen rean non-functional of	6011
	1783	HVRA	Jorth?	Pour 1132 distribut (days)	6012/1.
为(4—	783	> Full > litter	Remll.3.2	5.7, 12-16 m 14 E. comaldedus, Angostury 128-12 10 N. brackedor VS.	6014
		Zrack		128-12 10 N. Marian	6015 /E
	1785			E. melanghiba /Any floro = 23	6019
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r	76f			ic a y	6024
	<u> </u>	Soller	urs	11.3.27 Eronaldulusis US 16m	6025
				G=nado	6026
1	1790			Par 11:3.25	6027
	1792			non-com confirmational	6030
	1793	LAGO a	udes_	11.3.25 ran	6031/3
	1794			11.3.25 ran	6033
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	1795			allitis 8a non-functional	6034
	1776			Cullities San non-function	
	1797	-		paddock non-tendered 11.3-2	6036
	1798			non-tenderal 11.3-2	6037

SD2Z 25/11/2020 (5)

•	No.	Easting	Northing	Comments	Photo 6042	-  /_ ' .
	1799	Soil Cu		Eamoldoluis 18-22m VS (RE11327)	6042	(3 -
	1800			40 HVR - cleared (sull patch)	6045	·
1	802			no HVR - cleared (smll patch) Functional 1197	6048	
				Aclo lealimanii		· ·
	1803	FWM	gruss	TI E pop Géglascofylla 10-13m llun S Tz Allocas leuhmanii 7-10 8m MD	6049	
			reality bad	To Allocas leahmann 1210 out man	6050	
·	804	Rem	nent	TIE. nubola 18ms, 127 117472	605/	
		Sull	spocks	(6058)		
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<i>t</i> /	1/20			pulled N-fance ha Non-functional	6 <i>05</i> 3	石
	306			11.9.10 fenctional	605,6	
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> 18						
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18	22	<u> </u>		pyrouth poplar /allitrs non-functional	6077	
		ha. bà i	m 11.9.7	T. E. melanopholog 14m VS nor Franchand	6080	101
11 5 5 18	323 74	red Sono	125	Ti 10-14 12m HO Callitres Glacaphytha	6082	
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Job	 

No. Easting Northing Comments 1827 Holosond 1153 T. E. nellang Soy 14-16 VS 1828 Photo North T. Callitris General Comment 11-910 1829 Warte Sand 1155 Dolla Stakes Jones 6088 1155 Dolla Stakes Jones 6088 1830 pole clay 12 C. glantophylla 8m 11-97 1831 1831 LZ7 Junion T. C. Glantophylla 8m 11-97 1834 LZ7 Junion T. C. Glantophylla 8m 11-97 1835 M. 12-16m 1325 good and 6097 1835 M. 32 1cm good and 6097 1836 Proper M.K. 12-16m 14 12 molosophylla 5 6100 1837 LZ7 Junion T. C. Glantophylla 10m VS Pennson 6093/4 1838 M. 32 1cm good and 6097 1836 Proper M.K. 12-16m 14 12 molosophylla 5 6100 1837 Ram 11325 good and 6099 1838 M. 32 1cm good and 6099 1837 Ram 11325 Good and 6099 1838 M. 32 1cm good and 6099 1839 Param adex M. 12-16m 14 12 molosophylla 5 6101 1837 Ram 11325 Capacidadada 5 6103 1838 M. 132 Company Clay 2 7 5002 1838 M. 132 M. (Paradh 5) 6107 N 1839 Param adex M. 132 N (Paradh 5) 6107 1843 Capacidada 3-12m M. 6110 1844 Mapper HVR Ram 1132 6110 1847 Non-nam 1197 Gills 1132 6116 1847 Non-nam 1197 Gills 1132 6116 1847 Non-nam 1197 Gills 1132 6116 1847 Non-nam 1197 Junion 1132 6116 1849 May part HVR Ram 1132 6116		5D2	2 (		•
1828   Photo North   Ti Callins Gaucaphylla   10 m MD 6086     1829   Warter Sand   11.5.5 both scales force   6088     1830   pale clay   Tz   Co glavosphylla 8m   11.9.7   6089     1831	No.	Easting	Northing	Comments	
1828 photomoreh Ti Callishs General Common 10 mm 6036  Renadmane 1155 pollishes General Common 10 mm 6036  1829 name sand. 1155 both scales fance. 6088  1830 pale clay To Co glanophylla 8m 1197 6091  1831 LZ7 puning To Co glanophylla 10m N S Punnont 609314  1831 LZ7 puning To Co glanophylla 10m N S Punnont 609314  1835 1132 rem good and 6099  1836 supplied HVK To 12-16m 14 th molomorphylla VS 6180  1837 12-16m 14 th molomorphylla S 6101  1837 Pan 11-9-7 To 2 gentla year 10 S 6101  1838 113-2 rem good and 6099  1838 113-2 rem good and 6099  1838 113-2 rem good and 6099  1839 Pan 11-9-7 To 2 gentla year 10 S 6101  1839 Pan 11-9-7 To 2 gentla S 6101  1839 Pan 11-9-7 To 2 gentla S 6109  1839 Pan 11-9-7 Common Calama dudar 6103  1838 11 Common 11-9-7 6113  1845 Lagrand HVR Com 11-32 6116  1845 Non-rem 11-9-7 6113  1845 Non-rem 11-9-7 6113  1847 Non-rem 11-9-7 6113	1827	f ledso	d 11:55	T. E. melanophora 14-164 VS	606D
Revendence  11.5.5 red and lamnant (not 11-910)  1829 wentered 11.5.5 both sieles force 6088  1530 pale clay 72 (a lamosphylla 8m 11-97 6091)  1831 LZ7 Junior T. C. glanosphylla 8m 11-97 6091  1831 LZ7 Junior T. C. glanosphylla 10m S Pumpont 6097/8  1835 11.32 rem good and 6097/8  1835 11.97 pale 8mly 10m S Pumpont 6097/8  1836 stoffer HVK 1, 12-16m 14 12 moderno 1914 VS 6100  128-12 10 Co found for VS 6100  1837 Rom 11.3.25 (South)  1838 11 C 1 6000 dander 6103  1843 1094  1843 1-327 (orker)  1843 1-327 (orker)  1843 1-327 (orker)  1845 1096 HVR Com 11.32 6116  1847 Non-rem 11.9.7 6115  1847 Non-rem 11.9.7 6115  1848 11-1 patch (gas 1901-65) 11.3-2 section 611.7					
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1830 pake clay T2 Co of aucopylyla 8m 1194 + 6091 1831 LZ7 Junjup T5 Co glavopylyla 10m S Pennont 6093/4 1834 LZ7 Junjup T5 Co glavopylyla 10m S Pennont 6093/4 1835 Penn 11325 good and 6099 1836 mappel tilk 7, 12-16m 14 th malonal 1914 VS 6180 1837 Penn 11.9 + 72 12 10 Co glavopylyla S 610/ Pak Sendy Clay LZ9 1837 Ram 11372 (South) 77 E. pap 10m 5 (Classo duder 6103) 1838 " 1639 Parawi ody) 11.32 N (Remeath 5) 1839 Portugal Alia 1132 (109) 1843 Coglavophylla 8-fan HD 6110 1845 Non-pan 1197 6113 1845 Non-pan 1197 6113 1847 Non-pan 1197 6113 1847 Non-pan 1197 6113	1829	white	Send.	1155 both sides free	8025
1831 Leman 11325  1831 LZ7 Jump D Tz C. flancophylog 10 m S Pennicont 6093/6  1831 LZ7 Jump D Tz C. flancophylog 10 m S Pennicont 6093/6  1835 Ll 3.2 rem good and 6097/8  1835 Ll 3.2 rem good and 6099  1836 Supplied HVK T. 12-16 m 14 th mologod by 14 V 5 6100  1837 Lan 11.97 July Clay LZ 9  1837 Lan 11.925 Const. 12.9  1838 Lum 11.325 Const. 12.9  1838 Lum 13.25 Const. 13.2 (South)  1839 Rum adapt 13.2 South  1839 Rum adapt 13.2 N (Remarks S.) 6105 N  1840 Lan 11.3.27 (South)  1843 C. glavrophylla 8-Han MD 6110  1845 Longert HVR Rem 11.32 6116  1847 Non-penn 11.97 Gas Tipuline 211.3.2 80,000 m 6117			_0	TEPOP RMV3	65691
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1836 Noppel HVK 7, 12-16 in 14 The modern 1914 VS 6100    1836 Noppel HVK 7, 28-12 10 Coglassed will ed S 6101    1837 Rom 113.25 Stock)   1837 Rom 113.25 Stock)   1838 II	157 6	in l		11 3 7 1844 000	6099
10   10   10   10   10   10   10   10	(0)	Mar Cook	de VIII	7 12 = 1/4 14 14 moloure 4014 VS	<del></del>
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1839 Paramet odge 11.32 N (Riverath S.)  1842 Rounant 11.3.2 (Oxform)  1843 Coglaveophylla 8-Pan Mile 6110  1845 Non-rem 11.9.7 6113  1847 Non-rem 11.3.2 6116  1847 Non-rem 1000 for the a 11.3.2 6116	ler.	bw 11 . 1	, 7	Del 8 - du Chy 1/29	0 (0/
1839 Paramet odge 11.32 N (Riverath S.)  1842 Rounant 11.3.2 (Oxform)  1843 Coglaveophylla 8-Pan Mile 6110  1845 Non-rem 11.9.7 6113  1847 Non-rem 11.3.2 6116  1847 Non-rem 1000 for the a 11.3.2 6116	1872			Rom 1/3.25	5102
1838 11 (1 6104  1839 Paramit odge) 11.32 N (Rinzarth S.) 6107 N  1840 11.3.27 (oxform)  1842 Rounant 11.3.2 (109  1843 Coglawophylla 8-17m MD 6110  1845 Non-rem 11.9.7 6113  1846 Magsped HVR Rem 11.3.2 6114  1847 Non-rem 100 funding 11.3.2 6116  1847 Non-rem 100 funding 11.3.2 6116				0 11 20 (Say Ma)	103
1839 Runnel odge) 11.32 N (Rinzath 5.)  1840  11.3.27 (oxtern)  1842  Romant 11.3.2  Coglaveophylla 8-Hun MD  1845  1845  Non-rem 11.9.7  1847  Non-rem 11.3.2  6114  1847  Non-rem 100n function 11.3.2  6116  Ting patch (gas pipeline) 11.3.2 region of 6117				TIE. pop 10 m 5 (classo direct)	6/0
1842 Romant 11-3-2 (709) 1843 Romant 11-3-2 (709) 1845 Rom- penn 11-9-7 (8113) 1846 Mapped HVR Rem 11-3-2 (6116) 1847 Non-new Non-fresh 11-3-2 (6116) 1848 Ting Patela (gas 71pelina) 11-3-2 (6116)	1838				6104
1842 Romant 11-3-2 (709) 1843 Romant 11-3-2 (709) 1845 Rom- penn 11-9-7 (8113) 1846 Mapped HVR Rem 11-3-2 (6116) 1847 Non-new Non-fresh 11-3-2 (6116) 1848 Ting Patela (gas 71pelina) 11-3-2 (6116)		1			
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1843 Coglaveophylla 8-12m MD 6110  1845 Non-rem 11-9-7 6113  1846 Wagged HVR Rew 11-3-2 6116  1847 Non-rew 15on fraction 11-3-2 6116  Try patch (gas 71peline) 11-3-2 11-3-2 11-5-1	18 90			11-3.27 (oslow) ( )	
1843 Coglaveophylla 8-12m MD 6110  1845 Non-rem 11-9-7 6113  1846 Wagged HVR Rew 11-3-2 6116  1847 Non-rew 15on fraction 11-3-2 6116  Try patch (gas 71peline) 11-3-2 11-3-2 11-5-1			-		10.0
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1847 Non-new you find 1132 6116 1847 Ting patch (gas 7 peline > 1132 18950 0 16117	1845	) }		MM- LOW 11-9-7	2112
1847  Non-new you fund 1132 6116  Truy patch (gas 7/peline > 11 3-2 region of 6/17	1846	MOHADO.	1.HUP.	Pow 11-3-2	114/
1948 Truy Patch (gas 71721-2) 11 3-2 1950 w 1 61/1	10-11	J. C. Place	13 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	(1)	7 /
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	1849	o-(1727)		Ren 1192	6118

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6145/6

6147

5022 UNCHIN Photo Northing Comments **Easting** Reen (13:25 15 an Wille 6119 1850 Photo NE across cork to 11.3-2 Regprosoch 11.9.7 non-row now funtur 6120 6123 The mass Epop 18 un 5, GIRIN 12 un MD - 5 mill grully 6122 1854 Employer Zn MO 6125 1855 Peur 113.2 fraging 11325. 6126 6127 Pen 11-32 good and (young & 13/200) 6128 6129 1859 6130 1860 150 la land pooled brigadow Cun Regrowth now-ven hon franction -120 Sun ! 1860 6131 6(32 1601 1863 6 (33 namoupatch 1132 in paddott to test 1862 1863 poss 11-9-10 & check betal 14m bufet with 136 Inon-had 1864 Well head paddock

Ti Aracia Salicina 8-119m5

Tz E milchellii 5-8 IS 1866 186F Acacia harpophylla 2-5m non-functional 1868

Edge venuent 11.910. 7,9-15 12 MD C. Cristenter, Epop (a)

15,3-64 VS E. mtchollie edge 11.3.2 (1.9.10)

Z6-975

1872

1869

1870

1871

HUF

Mutik mass.

Five litter

Date. 26/11/2020

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	No.	Easting	Northing	Comments		Photo
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Ì	874			Regnowth 119.10 non-	fuctional,	6149
l	87.5			non-functional regro	with.	6150
18	76			paddock		615/E
(18	77			. · · · · · · · · · · · · · · · · · · ·		
18	78			11.9.10/7 Non-function Functional 11-9 10 (5)	of gully 210m	6154
18	79		KANEN	Functional 11-910 (51	astola (	155/5
				75-978 E. pop, C-C 723-54 VS. Alectryan	div, Geyerapansi	6157
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18	21			con-Frankrooms Hope	0 Call 11-9-10	608
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	No.	Easting	Northing	Comments	Photo	]
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18	98	Rem	ルフ・ナ	FEMULOI La 14-18 m (16 Earle)	6181	11.7.
	99			FEMULS la 14-18 m (16) Em d VS 12 Acuan analophylla? Shryki Rewll. 7.7 South, paddock North	6181	N
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19	$\infty$	Ren	nut	recently decreed productions	6(83	
19				reality downed product	6184	E
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190	2				6185	i
1903				line mature & pop (Time wide)	186	V
190	Lj			111001 - maddock	6188	N
				Well-paddock gullerung-paddock	6189	SW
190						- 7
190	6			regouth 1197	6190	
190	7_	non-	furtul	El Comaldeleurs 12-16 m non-rem	191	N
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190				patch 11-3.2 Remnant Structure	6192. 6193	
190	9		-	11.9.10 paren 4 poplar non-junion	603	
10	$_{O}$			11375 Ko.	6194	
191	,	Ber 1 1 1		11.325 rem	6195	, }
191	1:				7	
191	7.	o *		nou-reur 11.9.7 Epop 8 M Vs ore & buflet	6196	

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	No.	Easting	Northing	Comments	Photo
	1913			Path young fermant strything 11.9.7 (no Brighton or Selah) East for co	6197
				van non fayaband west fear	
ŗ	914			Romath 11.9.7 west fonce (no brigations)	6198
	95			u u (belah	6199
. /	917			Start 11.9.7 Removed South	6203E
1	918			oully you 11.9.10 name &15m	6204
1-9	19			Energwt peplar in cleared puddock	605
19.2	'ల			Type 9-13 //m E popular crebra (a) 5 Tz 6-9 7m Cattetus glaves (5-MD)	620G
		FWM.		129 (1109.7 regrowth)	
19.	21	Roman	<i>★ (ト</i> でき)	1/2 9 (1109.7 Regrowth)  Ty Encelala 18m VS  Ty Acarea Surley, 4-9an MO	6208
(9)	22			Sull potets 11.9.7 peur reliet	6210
192	3		<b>X</b>	Heredecora zm	6211
	24	si.		11.7.2 north	6212
19.	25		·	Veg frugues oraling felly non-fun	C GU3/14
19	26			luxewed provide	6215
19)	27		j	Clour fence (12/17.7 East	6216
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196	33			gadlock	6222 1

5027 Reuben Downs

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No.	Easting	Northing	Comments	· · · · · · · · · · · · · · · · · · ·	Photo
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decort bout 1935	Run gra	(600	Tz Acada Shrylei 9-14 13	MMD 117.7	6224
216 lows 1936	17		11.7.7 no 11.5.1		6225
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1939			e #	£ (	62C+12
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1941					6230
		<i>(</i> )	T. 巨	hubila 4-17 (8m) Shiryles 2-4 3m	
1942	Mappe	d HVL	non-rem 11.7 7 72 12 A	Shirylei 2 4 3m	6231
1912			Rem 11.7.2 Rem 4000 C	v-ol	6232
(17)	, ,				
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1945			Well - open paddock	•	5236
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1948			End cristula (it of 10) start	Row II. A. I	6240
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1951	overfu	re)	11.9.10 function	cond som wal	6243
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	No.	Easting	Northing	Comments		Photo
	1958	•		DZ - A Shirkey 1-3m S		625]
	195		· · · · · · · · · · · · · · · · · · ·	CDZ Rem 11.7.2 goo	lad	6252
7	#	1963	>	COZ disturbed 11.4.2 re growth shrub, bot	relict E. Cobra	6253
E Marine Service	de (vermenhage visit de bestande visit de la companya visit de la companya visit de la companya visit de la co			* *		
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10	165					6258
19	66		•	CDZ - track through	~ padock	625
_	67			,		6260
19	69			Acada Shirylei 8-	On MD	6263
49	To			11 4-	Sw MD	6264
19	70		z <i>5</i>	E Melanophlora 15m VS,	Astrophy 4 - 1 m	
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	ii			Photo	
No.	Easting	Northing	Not remost totally book query mapped as HUR	\$933	
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107			maly as as hore	5936	
			Ac. dies re not cemnat	3937	
168	0423442	1,00010	He. CLESTV		
		to His			
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77	- Comments		end & polygon -		
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77	\$		end or 1. ) Jor.		
11			Extention of mapped HVR	5843	
M	•		Polygon 11.95 harporlla	5844	
				C / Tana	
			beginno of link		
77	17		end of line		
, ,	A23390	)	11/1- 100 8	5845	
77	-8	7039476	No HVR hee	5846	
, ,			Vominated by porta	5848	
11	1776/11		11.77 contines	5.849	
14	9 0723646	7659289	Crebra roy codemnet Lancement still present	3847	11
-		,	concerned still present	5852	3 13
100	5 0723688	765 895	2 NVR brigaton as mapped Extensive erosion	5 8 9 2	
10		10) 00	Large & of congry trought as	At 5750	7
-			10g 1-1011 /- 1000		
			d- Polygon		
				1001	
11	1 642354	4 2059316	) L	5855	
14	101	4554)	Could Deminated	3956	
			Land Vanily		

No.	Photo	Easting	Northing	Comments	
187	5877	0724267	4059900	nopped as 11.7.2/1,51	
	5878			13 11-7-2	
188	4449	0422375	7060104	Smurde stop on read to 14	Fall
	446)			coistate, Poplar, calstil	
				5-4 m wid	
	0723475	7063524	Ploto 5887	Cos cil monsulture to 7m	
191	1	6723824		Cas all manorative to Am Line drawn round polygon < D-5 has	
492	5844	0723503	1063306	occasional enegat Popla to 16 min coursely 4-10 Evenaphila	nitclelli
				mapped on HVYL	
793	5889	07236201	1063077		HUR
794	589D	0723855	7062894	Same HUR	
795	491	0124062	362720	Some MIR	
196	6892	724260	762659	Poblar to 18m spase undesta	8
				17 N	

Na	Photo	Fasting	Northine	Comments
No.			Northing	Comments
				Dan
802	5915	0125503	363293	Small patel - heavily distribed P-plar, Emophila mithellis, Ar. Sali
	5917			to 12 m har open in
				Contains Ac. Pendula
<b>G</b> 37	5919 5920 5921	A25250	4062844	Molfed 11.9.10 remote  Cas on State 10.12 m  occasional emegat cristata to  Deed Poples common
404	5922	-		NVP Patoly Poplar occosinal energhs to 15
				Cos oci Erem mitalling
24	15			·

No.	Easting	Northing	Comments	Photo
	onssus		proposed works	5925
		40(630)	pot rennet altrested	5934
801	0724522	7058702	por central cultivated	e935 5936
805	0724502	70	open regional cos. cr) Perla to 10m naron strps dany	5937
909	6724342		11.7 + Ecrebro	5939 5940 5941
\$p	0724356	4059136	Proposed well's NR clearl posture	£942 £943
411	Mu646	259166	proposed works	5949
8,12	5724 992	465947	proposed works	5946 5947
G13	072512		Remont 11.7.2 in Wilga valu	5948
AL 4	onesol	2059008	Proposed noste)	5952
916	, ozux?	A VOLEN	proposed walls alfuation	5954
81	9 072289	9 4059150	over fence 11.95 a Brydon Remot	5985

BLIN'S BILIN'S Vilga SE

No	Facting	Northing	Comments	Photo
No.	Easting	A		597)
623	072,498)	465974	Poplar crebia to 10m	5942
			Dense pt most 3-5m Tall Mapped as NR 3-5m Tall	
824	M5455	1489-745	Not never seedling cropson regrowth 11.12 shortege 4.5 m open-core 230 collitin prosent - 3-5 m tall	5943
825	0726263	A659643	Not new 11.72 poplar cases	5944 5945
K	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA	A Jagger	Proposed lay-down	),
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829	6 A2536	4060399	V V V V V	5982
			Callities technanies  12 5-7 collities bechnanies  Accord glychagi	
42	9 02239	7 7060756		5989
8	0 0x500°	206954	Proposed works	5981
43	07229	4000356		50 8 X
43	2 692798	6 yoloss	11 Creber citiedes (Versecosion) 8n	nhd 598°

Na I	Eacting	Northing	Comments	Photo
No.	Easting	Northing 4066947	Mr colliter to som spans	5994
835	0724422	406900	11 ship sm NR	5995
836	onus13	2060756	1 Shirty 1 7-9 11.7.2 No shirts loosi 12 Cas (ci - callitris 3-5m vs	1
837	1	4060434	Logged VS Call 6n VS Cas 6m VS	6000
<i>91,8</i>			recently logged	
839		706349	Lais a stocycl color	6003
au <sup>D</sup>	onsox3	2085 44	A ) [[	6004
841	0725323	7061030	not correct	6006
842	ops x	4062613	1. Crebe 15 m Nem 12 callitris 12 m 11.51 5. nilga as repred	6012
444	0425050	1 406 km 13	rendera, callitres, eas 6-9 s	6013
45	mulbo	rub/sas	Tople G-11 V SI Grouple 2-5 Tople GVS Arstide NR	6014
St	6 ox 4393	7061446	Enests 18-20 coelers tiss  1) 7-10 Poplar Callitiss  Chick about mapped HVI	6016

le T	Eacting	Northing	Comments	Photo
10.	Easting		1 1112 DT Colle 1600	1-07
4	67797	206/8/2	12 calliting constatu 5-14  13 calliting, bullback  13 calliting, bullback	6021
H	D424	V PP/2	12 canth rest bullback	
		/X <sup>0</sup>	13 com 100 pt Ement 15 mVS	
4	12	4	m m	6023
M	V/VS	149		000)
	0	No	1 Lillitons Evenadolo 2-5	19
			Proposed works	10011
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L	mult	Va.	1. Shilley & Timber	6077
1	0		Lang of Farmy 1-6m 1/5	
			Ren 11.4.2 crebro' Dente To Shickey) of Fullon timber No 41-6 collis 2-6 m Vs	
			Λ	
	1016	324	NA 11.3.25/11.3.2	
S	673/016	255324	NA melled as 11.3.25/11.3.2	
1		1	Cheared area will 11.3.25 on souther edge 715m mid	6078
			Che arte Souther edge 715m mid	
			convelectors	6079
			11.3.2 or Nother, doge	
			11.3.7 or nothing dege	
		1	11-3:25 Frother elge Zhm his	SR
	2 mai	145	on worker elge Zim has	2
8×	8x3	NO5845X		
	0		11.12 01 50-1	1 41
			-5 m with 18m tall	6081
			7 M W	
		<u> </u>	ephone at method co.5h	410
			Soften ease 200	608
			potal of 6 myall 10 m tal	ed
			potal of 6 mod 10 m tal	1 6083
		12	3	
	1 4	10	11.3.25 Rempat	6044
4	100	450	11. 3 2 3	
	8X7	200		0.
	15	4055	11.3.2 <0.5 has	6085
3	1 4300	28 JH.	Dominated by biffel	6086
1	0	De	Dominated by butter	03

No.	Easting	Northing	Comments	Photo
845	22000	4256	Comments  11.3.25 to north  20.56 Dominated by buffel  16-17 m  ver open 15-18	6087
20	023000	Vereply	11.3.25 pm 15-18	6088
8×1	12 15 X	456764	11.3.25 ren 15-16	6089
	a a	**		=
		9		
23		10		

Date 30/11/20
Week2

No.	Easting	Northing	Comments	Photo
	wel 84		Ti cretora 14-1	9 58-8 11.7.7
202	26	1	1. 11 11 64	609
	476	AS 7 176	12 Shirtsi 5-4 6 md Aciet dec	Il Aggistachie
	of 84	7		
	wo on		1, space 14-19 crak	
203	0126037	110	12 sposs shorts 6-9	■ 17 . O(1)
/	0128	405418	GM Aci caput.	nelusas
i ii	<u> </u>		$\wedge$ $\wedge$ $\wedge$	
135-1			News	ve uncintata
			1 Com	1.42
		1		
. 41.	wet 44	/	Ti from premous sites mi	len 1-10m 6099
701	142	1966,	To Dense crebra shis	They sprom
٠.	ano	<b>1</b> 66√	11.72	
	wyt	682 \	11.72	very accorded 6094
205	1 20 %	1052°	Contra 16-Kg 00	6098
	0726442	1.52	Care Control	
	0	XO''		
,	1	2536	Rem With	6099
206	(5)	1	11 colora 14-16 560	OC 1
	0/265/5	200	12 Sid 1	4-1 mid
		<del>                                     </del>	collition in It	¥ ,
. !	ļ			
			13	notet - common
			Millorga	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7
			Ver rocky	Porent
			100,00	V
	s upt	855	Gare as not	
200	763	705(5-81	1 Prolanto 18m	6106
	4	1205	occessed bryets	
	0.	796		
205	upt	9 00	Ti creva 17m 51	ore pro popular 5-8
20	6726780	7056420		crebia popular (-)
	6726	7030	12 >hilley) 12 willing	> 0
			1 1 Horas Dross	
			1 791010	0
	orson!	1 K/M	5h.161 = crub	
	wyt 4	DO-+	1 Shilly 1 a chara	6108
21	) Laul	20567091	- I	
	02267		on Ridge his	2(
l		<u> </u>	remont	11 7 2

Date.....

No.	Easting	Northing	Comments ex	£.	Photo
	1.10+5	44		5-6m	610
2)		1728	nen 11:32-		•
	5124231	4056328	1 10 K 0 1 (0) 1	)ense	BHO!
	. 08.3	بغ فير	shibil at exser-	1-01	
	MAIS	3 / 16	3hi(19) 11 x 2	7 \	10 m
1252	022656	10/6766	ren 11.7.2 ridselosp		) , ,
	orts orts	7 a	E Crebia Dia	· ·	
0.2	1673	770 -2	Shortyin with excepts 7.9		5111
1205	1245	1056438	eghple comog 1120		
	0	701	<b>_</b>		
213	V/18	1	NR Poplar 6m	to be VS	6/12
	0427610	A056842	Total Cristal		
	0'4"	140=			
سيرر و	wit 8	93	11.3.25 reman	·	6118
2	299	761618			
	6XI	190.			
216	l	, a	11:3.25 Remot		1,101
	12510	4261219	e microfles pasel		6119
	O'F	1	v		
Λ.	220 221	895	11.3.25 candolver	remain	
N.X	NEB	400 10 P)			6120
	07	7-			
	vet	896	orbor lake wetland	- watercasse	
218	ا من	20000197	remot - NR	(	5121
	Walter	2060			
	hpt	194	11.325 Re-next		
210					6122
212	012964	2808AD			
	wolf &		11-3-25 Nervet	1	/
220	N4308	4060961	V. 2	·	6,23
	144	12000			
	V ' '			·	
			*		
			~ · · · · · · · · · · · · · · · · · · ·		

No.	Easting	Northing	Comments		Photo
MZ	@tau	2 (	or 1 E conflodensic >6	populnea = 14-181	mall 6277
erîs-	0728866	: (4	Stated many farming	5	6274
M3	wpt @3	( <sub>1</sub>	1716 considerans a 11	16-22 - 22	Matt
@ි	0728838	7060161 (C	Ants Mile English (12)	Corror was continued	5275
	0228717	706013EN	MI - Considering Constant & with	131 = 6-12 m	_
22)	hpt 8		long linear footre sitter in he 15 m hide at its wided. Ne	-g habreouse vell-drones	
			Car profes draw squipage		G1211
123	0299th	7059986 00	Constita with beiglatou and in no real and order try is some but the linear footon many the he had along and linear be	I grand of the form	S125
224	0727798	7059986	contata as above will occar and occasional myal	and brigaby	6131
125	1042)	9	NR enr of property		6132
726	0125719	4060343	1 Crebra 14-20	VS 115.1	
	1 1	964	12 callities + bolloak	3-6~	
				Cull of Lalbury.	6134
227	0725766 wpt	70699	TI Crebra 14-20~ (US) T2 crillitis 3-6~ (M)	e selled hollows	6135
228	201628°	7060996	e E Crebs a 12-15m (VS) TIA Shrhyii (8-12mg(m) SI-callitius min Rahrhyii (2)	a ~)(5)	
	wpt	956	11.7.2 to east of		613>

WG5 84

0487 061531

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Date.....

No.	Easting	Northing	Comments		Photo
229	onlass	10605 <sup>74</sup>	Caltous, C. cristoto, (4)  Caltous, C. cristoto, (6)  Carebro, vilgo, Petrolo stro	~~ (m)	:
and the second			Ti dominated by collins		6138
230	076469 Upt99	7041136 08	E C Crebca: ILL 20 (50) (11-6 Crebca: ILL 20 (50) (51) (51-6 Crebca(d) cresta (col)(us)	-10~ (M)	6139
232	- organi	109	Bourday between 11.9.50 and		
233		401042	Bourday between	* 5 × ·	
254		1061509	11.9.10 as mapre	<b>/</b>	6144
Æ	~ φ - 1		Poplar 10-14 & Briga cristada 6-8 mida	11 50	
255	2450	30019 48	More poplar	) os before	6145
	, vol.		NON remnant works to SE.	on Proposed	6146
256	012184 wat	913	Proposed works Not revoc		6147
				·	

Job. Derngall

No.	Easting	Northing	Comments		Photo
26}	Easting Up 1	26	Comments		617
franks f	oppor	1/06	11.3.15		6+68
264	in the contract of	(24		2n Se	4-96
	0725949	4560M	Poplar present		5-4
بدي	6026	26 534	11.9.10 poplar with some cretor	and broadow	62
			1 2 1 1 1 1	D = 0 + 0 + 0	443
			Costerta + unly	inder neather	
	14			10	
	wyt		119 Sar higodow Cristato avide v	Oin M Idrae with	6186
	0725999	20615-14			
261	apt		11.9.5 North		6154
	Rica 16	20:10:10	11.5.1 South	1800	6184
268	~ pi	<del>440</del> 931	11.9.5 brigder 11.9.5 cas cristate	negetype west	6170
	01255 125 mpt	706175A			0//(
169			119.5 monotypic	•	6192
۱ ما	o Vata	100 April 1	17m Mic		
PR			( ) ( ) C	+ cos c(1)	
	V. (1)	53	B(15 alow 4.6.	12~	6193
18 <sup>12</sup>	200	4	66001 N 15-	16m	6194
ň	wpt 9	34	300mlo- 5		6195
			Cos ell N		6196
211	A re	15 /2	Bugland 5	9-12	·
V .	onte	N. 63	Cas on No	(-8	p

Scaldo bil

Date.....

	No.	Easting	Northing	Comments		Photo
		Con May		Baydon 5		<b>૯</b> 4.વલ
	273			Cos est N	Ý	
	المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة المستخدمة	روان المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة المنظمة ا والمنظمة المنظمة COS TO LEAD FROM THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF T	occurred a	Soffee/	6200	
	274		927	(rebra 11.5.1		6201
		6xtent		Some perfect		
	275	oxzaz	938	11.5.1. eropea	·	6202
^	$\sqrt{\lambda}$	upt	931	7.2.1 Sh (hegi	10~	6203
			Job Mal	2 / 1195		, ,,,
	278	otressing	9 401 40 613 8 C	Bergalow 1195	N W 10m	6214
	249	6P+9		11.9.10 to NW poplar 12-15 5/2 under	3_ 3pose	6215
	<u> </u>	wol 9	7362507	p-plar 3-13 (m) wilga mobil 3m (	6) ~9~4~0~~~~	6216
		Phy Phy		propler 10:15 - (m hilgs ent 4m (s constated 10 @ Hosy	)	6217
	252	577-1	1062286	popla (10-15m (m A solicena (-8 (s) wiga udu 3n(s)		6218
		3727564	7062611	p=pla( 8-12(m) calytrus 7-10(m) wilga undi (3m)		6219
	284	Wp+	950 70 <sup>62415</sup>	p as above		6220

No.	Easting	Northing	Comments		Photo
2%5	wpt 95	1067.4do	C. coistata = 9-12m(8)		622.) 622.2
GGQ.	unt	952	a. decora = 1 m(s) u.lga = 2 dn (s) e. as above	1-9-10	6224
	wpt	•	Epoplar = 8-12m (M) C. ccistator 8-10 (S) Myall - 6-8 (S) Emilchelli 2-5 m (S	H-9-10	6225 6226
			wilga= 2-21 m (US)		
2586	Upt 6	754 708533	E. poplars = 8-10m(m/s) C. cristala = 8-10m(m/s) A. harpophyla 8-10m(m/s) Emilohalli \$2-5m(m/s)		622-7
			wilga - 2-4 m (m)	,·9·10	
259	may	935 1062965	E poplais 8-14~ (m)  C.coistato · 6.8 m (m/s)  Wilga = 2-4 m (s)		62258
		·	1. SAIRERA = 5-2m(s)		
20	Wp7	956 1062921	Epoples 8-12m(s) A. ( C. costate 8-12m(s) Emtehelin (4-6m(s)) Wilgo - 2-4m(vs)	iarpophyla 8-12m(s)	6226
291	Up)	937 2063021	non remont.		6227
292	0725618	958 706 <sup>3006</sup>	A hor pophyla 8-12m ( A hor pophyla 05-2m(s)  ulga up to 3m(s)  Polygon stats at 958 rends at	m) 11-9-50 959	6231
			A horpophyla sophys in edge of pobyon, signs of		

No.	Easting	Northing			Photo
293	fqu	960	6 poper 8-10(s)		
<del>30</del> 3			(cristato - 8-10 (m/s e mother = 3-6 m(s)	11.910	1120
	०७२५३०।	2083-020	Emithelis = 3-6mcs)	11 910	6232
	\	4()	( only a - unle 3m (us)	1 (0-m 1/c)	
	taw	461	( .f. to 6-5/5)	(brigies ( ) - 147(2)	
ZAU	ヘカン	706340)	wha - 3-6~(vs)	2 5 5	6233
	0,,		who - 3-6m(vs)  E mitchell 11.3	7 60	
	wp1	962	E melanaphore 10-14m(s) A harpophyla 8-12m (s) E populsea 10-14m(s)		
-035	MSGMS		A harpophyla 8-12m		6234
1201 3	07	1063474			tose
			colytius 6-8m(us)		<u> </u>
<b>***</b>			Constata 6.8m (vs)		
) Jens			wide 4-8m(vs)		
			Entahelia 4-6m(s)		
			basala areas la se		
			brigate appearing to SEC	1 1/21.	
					Lethan
	1 0	C 7	may be indicative & 11.3	LaMpri horporphylais	But St. Ast. D.
	upt 9		E poplar - 8-10-(5)		
296	07-6150	7053616	collifius 6-8m (5)		6235
	07/201		E poplet - 8-10-(5) brighton 7-12m(5) calytius 6-8m(5) vilga 3-6m(vs)		6236
			Emitchelli 2-5m(s)		
			Constata 4-6m(s)		
			indication of 11.9-1	S	
	. 1	041			
	71-	964	€ poplor 8-12m(m/s)		6237
297	0726432	706 <sup>75705</sup>	Constata 6-10 (5)	1.3.2	0207
			wilgo 4-7m (5) Enitchelii 3-6m (5)		
	rbf	965	E melanaphorial Marcaniant		
298			Emotoraphloia 8-16(5)		
	076490	70635UG	, \- e e. e. (-)		6238
			E mitchelli 2-4 ( 5) 1.3	_	1000
			N. 3	2	
			:		
	LPT 9	69	E-popularen 2-5m / regrowth	nd der 92	
300	a15	37.	regard		6244
	Jac 100	7064°32	0.334		6244
		1"			
	1		(pmngt popler 8-	on tall toth	(212/
			east of upt		6246
			403 6 Q Mb1		· ·

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Date.....

3O1	lupt	970	<b>■</b>	1
301 	1	*	poplars 10th	
			with widon up to 3n	(3
	012674	763862	Emitcheli was 3-6- command / rot HUR on	6247
	upt		as above	
3 <b>02</b>		7063699	rennal Institute on Frage	-48
	Upt 0269-78	972	low sporse region that Epopulacit antall	
\$ <b>0</b> 3	076978	76345S		6249
	Uph	973	odverce regent of peoples and	
304	2222201)		Employed up to claw, full 11.3.2 from to south of the	625 <b>0</b>
305 <b>D</b>			popler It is 10-12 in full with	625/
	39927143		RE 11 3.2	
306	win	975	Tou speed against the populary to the said	
-	572.72.IS	745 20 M	ond playing the	5252
	u pt	976	Epoples and committee of control of the	
3 <b>77</b>	(3	<del>706</del> 3178	special popular closely of the sol	6253
	upt	977	for special segment of problems and over	
500	07274727	7063043	redowns 0.5 to 2.5 m tall new to 113.2	6254
	wpt	979	11.3.25 cm	6260
310	072×1361	206110L1	√e	
511	WPT	980	11.3.25 cm	620
		10 Carlot	Considerasis - Argeptore Herbardon	
		વક્ષ)	11.7.25 rem NW	6262
47-	0 72 700	405c1 167	waterd 11.3.25 NE around	6263
314	0126937	boxunds	11.3.24 Cen	6269
~ 1 <i>J</i>		U		, E
316	022031	-(/\)	NR Pipeline through magned	6270
on of	SIL	following	132	r

11/2/20

Date. 4/12/20

No.	Easting	Northing	Comments		Photo
			11.3.2 rennut	0-12m	
317	m430	4062629	11.3.2 remnet		6271
	lww)	901 E	Econold Vensis - Emagnet 25	(5) TI-12-14 (5)	
318	2728770	70topqqT	Putchy  Ecomold Wensis - Emaged 25  E melanaphologic 12-11(45)  A focibundary 512-11(45)  Polygo 5 orly of 991	of Hanner	6277
			E poplar - 12 (s)		
			G. charthan concer- (d) C		
	***************************************	N 848- 0	G- lentiochlon digitata		
			try day logs of gress trees financy well a		
)	The same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the sa		trees fringing		

Date 11/12/20

No.	Easting	Northing	Comments		Photo
	upt	Northing 99	11:3.25	1 1	A )
(Li)	, 3	7 (	Canaldhersis 12 m	Med backeton	62 64
	rox	<b>2</b> 9	$\mathcal{N}$		y-
LIV	O TO TO TO	250066			CI
	v.	794	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
407	oxer work	700000			(1
	urt	790			
	upt over 32				(3)
	, , , <sub>1</sub>	997	E.cabraf Bn, Col gloves	With 6-8m - 77(m)	62.39
W9(C.	J130579	155950	Coloresidella 3-6, Emitedella Coloresidella 05-1.5, mero	, 3 m (T2 m) ngitus sp Im (S1 11.517	(290
	with	5/99	Acord shirtyin Sm, Cally	ucaphallo < m (T) ve)	£ 900 .
U07	0130615	1059975	Callitris Spene 7-9 -	L. J. Serveyer Co., and J. C. Co.	
410	upt	1002	callitin Spesse 7-9 -	apler 1 derse	6307
	0430470	4060055	Crebra 12m emegent	Ac Mehiller	6304
	tu vit	1226	Ecobra encount to 16m (s. Ecobra and 12 shirty; Hs		
ひしゃ	ong villa	150000	11.7	<u></u>	6320
	wyst	<b>√</b> ⊃⊃ <sup>©</sup>	Geologi enverged to 15mil		
H15	3230	TOKOTO P	6 populara, 6 crebsa to 10. 16 Cas lumain, callitus upto 6. Wilga upto 3m (51) 1.	(72) Lety. 11.5.1	6326
	Lpt	10/9	as above plus 6. ch		
48			Theo by n	St. 1	6327
	wpt	101) 1	Ecobra to 12m, Emelos	raph/01a (12m 0550c)	
	0732821	1040990 72	Ecrebra, califors, bollook y Lilgo up to 3- still likely	- /	6358
418	upt	1012	Cerebry up to 8-10m (TI)	(72)	6327
	073 <sup>3070</sup>	1060160	Ecreber upto 8-10m (TI) callineseed billonk 6.8-		

Date.....

	No.	Easting	Northing	Comments		Photo
		wpt	1013	A shirly: up to IIm (TI)	Carl D. Ata	
المر	419	073206	odpust	Embro, Ashalon 10% 8 calleur up to 7m (72)	C 1 2 Jaise II CHAIRING	6330
ŀ				Acron burriaria/spossition	?, hilga upota 4m	
_				· ·	r.2.	
	1.00	upt	1016	11-7-2 Remont to	nest	
	41	0432	742	in gully	1. 1 1	b342
		0732	24)80	Shirty 1 6-10m.	10 dur	
	THE					
			405/100		: 11 - C	
	424	14 10 pt 10	758946	Callitris Low regrate Possibly 11.32 - canadoli	usis just	6349
		43L1	· ·	down State	ve	
	425	wpt 10	458	11.3.2 alvenand 6	growth -an middens	6350
		0+32665	2058458	poplar melangollarin 6 occasional cons	Idulensis to 9 m	
	1.06	W/ 10	D N	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	= S/md 4m	
	42	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	NST NEW Y	as allow		
	40 Y	npt 102				
	ı	0432	4050	as above		
	426	WPt 1.	22 <u>.</u>	we work	した	6351
	•	5+3,991	1000005			5752
	429		023	rovett cultitis	4-6 Middes	(0/0)
		043 14th	454076	f	a recly offers	6353
	430	upt	1025	Remont 1172t	<sub>2</sub> Ν	17/ 3
		0431428	40 to 662	Shirtagin Jam Do	378 5	6360
	431	upt	1026	11.5.5 advanced regre	ith Middense	6361
	-	043/411	460627	aloselada 1/13 Belloak	~ My My days	
	L	1				

	No.	Easting	Northing	Comments		Photo	]
		fou	1027	E. chlorodada - 8-10-(+1,	) E, popolace 10m (+1,	5)	
	U32	0731557	70(33)S	E. chlordoda, billoch, 5-8. Wilga +3m (51,5)	11.5.5 regrowth	6362	
		wp+103	5	chement vetterd		6368	N
	433	WP7 123	Ado-196	Extended vetland		6369	S
	ı Ui	wit io	<i>y</i> b	regrant day nate	ons de	6340	
		0	4.7	Polar to 8m & Acac	asp		
		nd 1	038	proposed werks			
	W36	wot 1	70f4971	not remont for		6376	
		noti	o 39	brigation up to 12m(6	) us, also Cas cust atoup	blom	
[	437	npt 1	706 <sup>5,2218</sup>	miloa and atology hands	uca uphollm(s)	6327	
				both sides of road the	some		
			:	* bottel gendestry do	1-act 11-4-2		·
		upt	lono	bishops of mains mill	n poddoch	6378	
	นร8	onstan	7065392	not connect tield.	·	6379	
	439	upt	104)	bioboses, roups my	padhal		
	1200	J72-88553	7065SU3	or strenger bish.	Siffel .	6380	
		rbf	104)	bestory mongs octo	s road. #	. ^	
	UO -	upt as a	osve	both sides of condition of special brigable and E. mitcheline	brigation and Complete to be 6m (spense)	•	
				Alabaja hanglave and wilga	yo fo Um	ph-	
				xbulled enderstay obom		South	
		Lpt	1042	proposed marks	paddach		
	Lru)	0728997	7265604	100% b. Rel	·	(382	
	. 1	1 tegus	7065832	brigation and C. eristate up l	12 m (sp-12)		1
	442 	229272	7065832	sub conopy of & brigatory wilge, A. honsiloven up to?	omitchefice costary	6383   6384	
		٠, ١		bott side of said	11.4.>	10 207 8	3 11/

No.	Easting	Northing	Comments		Photo
	mpt 17	JUR	proposed up.les		6385
	2220000		not remant, all be	fel and a little nature cities	
with	01 fgur	u5	a as per site numb	er linz	6386 80
	OJEDUN O	1000	brigataly dominates	read 11.9.5	6387 Sol
	wpt 15	<b>24</b> 6	proposed works.  not remarked and ro		6322
LINS	Wpt 15	7066911	not consect and co	, d	0,5
	Upt Upt	10117	proposed works		
yu8	OBILERI	726923	already voits telen	hie ee	6389
	wpt	1048	a in pall-ch		
447	075/199	7066322	form track with butter	all around	6390
	wphic	5 \	besposed, mark in E	eld	(301)
449	07332033	7065705	in podoboh will	py te.	6396 was
	upt 0732213	1052	as also also	re.	6397
450			not remait a	n works	
	wo	1253	as about 1		
451	07°52250	7564743	not coment or	tra	6398
 	top	1055	brightward C. constate op Lik lots & smaller brigalou	to 11 m	
, ,	0733055	1055 2064224	H. lorosalix and Lilia woto 3	hinst abundanti i	6404
1			plot oppose 20m wide, force rens through m	howers det	
		-	deary approximation	sode of Conce. 11.9.5	
1342	Upt	1756	proposed weeks paddich		6405
ر دب 	Wp1	2063906	not remnant	:	
	· upt	1057	Constita up to 12 m 1 spor	se which was be du	lunc
454	0733523	2063556	some brigaton and wiga + .  buffel grass dominant	.g.5	6406

proposed work to south of sile 454 - photo 640-

Job Angry Inde

No.	Easting	Northing	Comments		Photo
110.	Easting Williams	وار		to 16,	
. DA	WALL TO	10	1000	10 10 Jane	6425
430	022667	4003060	remnat loca	ional busident	6426
	01"	1 1	1 1	Complia Print	6927
14	WATE	63	11.3.25 Carela	less to 20m	6428
59	on the	1200	runat 1.	procud	
-	ar,	νφ,			
463	W/101	Mars.	not ladded		6453
	1/6	will "		3	
	643466	politicis.	Proposed work		6454
	upt (	27-2	proposed infrust	idu	<del> </del>
r. (	4	No.	0 0	1.10	6460
fbs	0731439	10651214	pa Pad	<i>a.oo.</i>	
`	- A-	1	· ·		
, <i>l</i> .	WP 10=	<b>*</b> \	Proposed would		
160.	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	464-442	NR Podolod		6461
	073/5		7.1.4.100.0		
	W1 10"	12	Proposed weller	V NL	6462
467	1	1065060	Track ro	Podded	6463
	0432114	100		Condition	690
	upt 1073		Proposed world of	p of brogetis	
408	A	6	(18paseo	hist along,	6464
	073111114	quanu 6	" NA palded 6	re rand	,
			0 1 -1 (		1111
469	upt 10	-100	Proposed velos		6465
	0730630	106-1017	althurston		
	043	140			
	upti	6°75	proposed usell		6466
97	G43	13436	cheared Caltiques	l l.	6467
	01307	A.	existy	1100163	
,	uptiof	6	Brigilar 5-6 Pate	y nama	8468
471		405531	ď	•	
	043/2°40		MC		
	In all	1022	NVA Cas Cil 1	om 5 Case	
433	hyt	km to	NVA Cas Cil 1 Poplar prese	n Tlase	6474
	0432347	NAVS6		a 7-hunh	
	617	· ×-	eperophila and	10 0/11	<del>                                     </del>
			Grand Mide	unse Buffell	<b>X</b>
			will allow		100
			magned WV		
			u v	/	

Brigadan checkse br

No.	Easting	Northing	Comments		Photo
44	upt 108	Northing Polyton	brigation paper pr	·	6475
	ot3n1	A00	chinose duck four	^	6476
476	npt 10.	82 N629 9 7	And some of adj	WR	6479
474	ωρηος3	4063013	Null as mapped	escentifications	6480
1	NPT 1	963261 463261	on pot this gap betygen no	petatoel	6446
479	npl 109	7 263461	bytelon Cosnal	in 7-8m	6487
			nostib las	k butter	
480	upt 10	89 163469	Brigaton coscerni ground cook biffer very appr	space 5-Am not messed	6488
			Patch		
481	upt 10	40 40444	Proposed voils		6487
483	10 92	7067476	Proposed water		6495
484	1093 0730857	16633,60	Proposed works Paddock		6496

No.	Easting	Northing	Comments		Photo
485	1094 0430444	726296S	Patches tous r		6497
	Toka		Grand 100% b	(e/ 	
4 <sup>86</sup>		4062544	Proposed werks		6498
46F	01203746	762546	Brigaten for A award lyw pool h ~50m with NVR		6499
489	10 98	49 gd2536	Dan to	5	605
	1099	p62239	NR		6506
49]	1100		NR		6507
1.02	, 1101	7001647	Brigate to RM  Voy open NR  Poplar to 141m	not repeat	6504
			New of brigadam to Pe	der	6509
494	043/16)	4680)	proposed notks		6510
	1105	Apr 162	11.9.5 remat		6516
	1106 043d438		Accessed works		6514

No.	Easting	Northing	Comments	1	Photo
600	1111		NR Not mappe TOW	<b>/</b>	6528
	. <9		Mr To E not mopped		1529
	, 0		Professed worlds to Penddedk	24. do 45	6530
503	ongli	401616	HVR Bryden 6-8 wyd vrar	Middens	6531
504	1116 0429448	4dy Ar	Proposed works altreation		6537
506	1117 21470	40°17590	11.9.5 Remnet Bryala Cos.co 5-9 Grand atoms.	pere lattel	6538
524	1118 077113	3db12 <sup>55</sup>	HVR cristate	orionaland 7-12m Perse	6:39
506	1119	40643A0	ulga shib lga cas. all in th	-9 m Mddose	6540
			Ground Sperse	Buffel	
59	1120 012328	1000g	113.2 remnet Popla on spore	4	6541
				high	6542
510	1121 01716th	1412 P	corepy most deal	<i>D</i>	6543

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Job Angry Jungle

No.	Easting	Northing	Comments	·	Photo	
511	1122 0123885	455794	11.9.10 8-10 spur ulga + erenaphila 2-5 Rundon 7-9 56		6544	
	1123 60000	205589	Mapped 11.9.5/11.9.10	Se	6547 6548 6549	-
			Bigadon 5-8 Ve No Shirb liger	(let)	+,	1
<u>515</u>	1126	4d5/4)	11.9.10 Poplar 1 Rigaton 8-10 V Grandila velga	1-14m SP 5 Kully Sp		The second second
			Courd buffell Pobgor weelle	dert	6567 6562	
516	1122	4067122	ver sperse 11.9010	isonth	6563	
	,		ount as remn		6564 6565 6566 6567	
512	1128 0724171	463124	11.3.2 Poplar I	m 5/m	6568	
48	1735t	34	A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O			
				· •	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	

No.	Easting	Northing			Photo
P1 05	029970	10¢9630	E- 6. comoldulensis - 18- TI- E. comoldulensis, MISCO sondal wood - 6 m	Adesign Compacts 68A	10,500
66 hv	0729913	j	TI- E canalowners (ddn 14-18- 172- sandal wood - 5-5 ~ 51- Wilga (Lundon),	' -	2020/234  1449.00
m3 e.7	5729956	10050(03(8	TTI-E complishenges (don 14-17) TI-E populaça (don 8710m) coscorna (Grucasor) )SI- Wilga (In March	)	11422419
mul e<6	0730139	. (5)	71- E. canaldularis (don 14-18) 72- E. poplace (Bolon 6-12m) Casuar no (Bolon 6-12m) colores (assoc 6m)	(1.3.2.3	11 150737
		(V)	5andal ward (sub 4-6m) 51 - cosu-rina (1-2-1) E. papulnag (1m)		
62 J	0730UH		(5)TI E. com aldings (don 14-3 (5)T2 C. uninalis (C+7mdsm) Wilga (C+6m3ds (boxa)) SI C. uninalis, Wilga (50cm)	11.3.25	151537
@10 WP	3730192		as above	11.2.25	131955
- 611	272730H	7061603	E comoldulas sydyo-272 Emclanapholastys.202 Casuar redoller C, vimnalis upto 1.50,	E completions small	20201218- 071318
			Start of Crish From Epids/podobals & Oblish Side ell start of Good tra	A 14 6. 1	, Ar
N756	0n.8733	7061908	notion bond about the		17 072500
M9 EIS	0728181	02161	Cro obsue  11.8.25  paddd f		073147 073150
6111 6110	5725/217	40E2303.	as above to		073607 073610

Job Angry Jungle

No.	Easting	Northing	Comments		Photo
			creek same as Mig	1 10 - 11 -	N OF S
WYO	-27786		to west - poplar. E.m. tchelling casu	and obtained -11.2.5	5 085 €
@24	0727786	7063345	to east is 11.9.5 masson polygont.	edge & areele	M 082
M21			creek as above 11-3.25		N 085
1-12-1	-07673		towestand east adjourn to cre	k-11-32	5085
825	0727673	7063000	poplar dominated up to Mu	_	€ 085 °
			melanophlora up to 181 m motobellis up to 6m wigo up to 3m		
かろう			05 chare cool, 11.3:1	S	Ŋ 090
ハンブ	~()	777	1.		5 090 °
e26	0727567	106372-7	adjaceto creek as abo	x 11.3.2	U 090
*V J S			as above for creek 11.3	25	N 091
ドハムン	0727500	7063879	and adjacent to creek	.3.2	5 091
@17	0,7,	706 > "	creek fractions of up		4 091
			The first first for the first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first first		
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Job Angry Jungle

No.	Easting	Northing	Comments		Photo
1110			some on Mo olong	10 pok 11-3-25	1 0744
	372S120	70(21)72	no of hardboring thed	ek as Ellans	507442
@15	,		Epopulnea and Englan	phloin 12-20m	€ 0744
			Casanna up to 10 m		W 07442
			Lilga upto Em 11.3.	) exploreside	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
			) ( ) ( ) ( )	E ageli	
·N10		_	some as about along	creok 11.3.25	
1. 11 Y	5725173	7062636	podde, later of so		J 07512
616	072.5193	,	4		5 0751 21
			but not remnant	DICOS KATAKO	6 075 13
			and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th		M 075 /3
`			com in some acsy small	v godie m h	
W/J.>		11/2	Dale fiel area (Brown)	,	N 075 84
Ø17	0725322	775425(4)	Epopolaro and motorphoi	i upto 16m	_
/			wingo up to 4m		S 075 83
		""	G. mitchelly up to Em	ţ	C 075 83
			smill didn't oftens in	was clear	W 075 8
	٠.		ences throughouting iso	remand.	V 3 9
NIU	J7282719	-049	potential and (green	)	JJ 080 50
بسرا بر ا	372847	73.20	C. Cristala 10-16m (dom)		5 080 54
618			6.00plars 8-12m (sub) 6 mildred 1 4-5m		C 080 51
					√ 080 S.
\			sperse woodland, span	a continually	
			sheigh pieces v	it remonant.	
MIS		,-	some as Mh whole a	į į	N 081 4
হি19	0728156	70Q300S	policy have it could		€ 081 4
	() /Am -		philipping sens to real	the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the capture of the ca	W 081 4
1416	man material	7012842	polential your onco - spar	e, small area	N 081 72
@20	077883	7)5)[	Epopulace applications brig	low pholon	5 081 74
			Consider up & 10 m indiger	phound pot de	ntchells u
MIZ	,		Casale E. condl-lylens 12sts	27mm11	N 082 92
E21	0725001	70629113	cosación appoism. C vimino	15 upto 3m 11.325	5 082 95 6 082 95
		′	paided howest to east - brighton proplantings	, m.tchelii	L 082 9
MIS			create organie by also E. m	lanopholocophol8m	V) 083 8:
622	0727824	7083040	NOTE: 0.00 A 10 10 10 10 10 10 10 10 10 10 10 10 10		€ 083 8
			to east is poplars upto 15mg, who a to 6m 11.3.2	CLUDANA MY MAKA	N, D83 de
N/19	072-762-3	706306t	as above example po	d.t. west	N 08440
673 L			cast 11.3.25		< 084413
C. P. S.			1, 200 11.3.2		~. • • ·

Date. 9-2-2]

Job.....

No.	Easting	Northing	Comments		Photo
1/3		A STAN	113,25 At Ments		6574
1131	6231057	25thet	11.3.24 conditions of p		6575
0	025/022	X5644	11.3.25 8-13 cards	Jan 17	6576
147	Wall roll	45 Abar	117.25 12-15 comb	N & *	411
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No.	Easting	Northing	Comments	Photo
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No.	Easting	Northing	Comments	**************************************	Photo
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			cas cristata 5-12 unlga 2-4		
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No.	Easting	Northing	Comments	<u> </u>	Photo	
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No.	Easting	Northing	Comments		Photo
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	official	Apple 3 th	11.51 Crater 11.10 Califies 6-9 Carymbria prosent  Port		6143
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ws1	0 <sup>43</sup> 3404	2017337	Lancewood 8-10m Papla prevet		6648

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	No.	Easting	Northing	Comments		Photo
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12	1052	e43 <sup>626</sup>		pr costato posi	poled	650
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Comments of the second	1284	,	4059035	not bugger pulled mapped en,	A 66	59
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	0734311		11.3.25 conditions	64	6692	
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Ű NA	379	18-3180	11-3-24 cont 2		64	
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Ī	No.	Easting	Northing	Comments		Photo
	Nb		Nother	n t small putch maybe 6 trops	popler am	6444
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				grand den de by	lear	6483 5
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	1279	0136316	por 900	11-3-25 Kanal A	n 20m	6494 6
٠	139	0455945B	10 <sup>570</sup> 0 <sup>5</sup> / <sub>4</sub>	11.3.2 popler 14.1 all with	- bloke	600 W
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			calletins 4-5"	rect done 11.9	6959	$ \omega $
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No.	Easting	Northing	Comments	./ \	Photo	
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13 <sup>(1)</sup>	231698	1060 \$ 36	170/0/06	7.2	6942	<b>-</b>
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## A 3.3 Sheet D - Regional Ecosystem type assessment site

Site No.	1987Re	ecorder: $\frac{0}{1}$	NA			Da	y/Date: (-3-2)
Purpose	***		310000000000000000000000000000000000000				
Locality:	(inc. distance	direction to nearest l	town) M	M			
GPS:		5	5 073	228	9	70	11163 D 6DAG4
<u>-</u>	~						
Vegetati	ensin	i di e					
Median hei	ght of the El	DL is to be measure	ed	Record d – do	relative ( minant; d	(numeric co-do	i) dominance for each stratum; ninant; s - subdominant, a – associated.
Stratum	Median height	Height interval	Est. cover density (D,M,S,V)	Str.	Rel. dom.	Scien	fic Name
E	10	8-10	5	1	ワ	$\in$	poplace
T1	6	5 - 6	Μ			Co	popularer source cristian
T2							
Т3	***************************************	_	MANA A STEER ( 1) ( 1) ( 1) ( 1) ( 1) ( 1) ( 1) ( 1	12	J	la	Sverine Constation
<b>S</b> 1	2	2.0			<b>,</b>		
S2		_		51	P	G.	donaer viscose
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Structure	l formation	: (including height)	<u></u>	6		Ac	stude capit-maduses
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Loologica	any domina					<b>D</b> . 1	Adum disturs
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				·		U	ochloa giles!
	map/scale/y		Harrison - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews - Andrews -	ng di danin Patrick State (1 to Shaff F F d d Nicht		E,	tuppoor acreders
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Site No. 13 Rec	order:	ay/Date: 4-3-2-1		
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GPS coordinates:	Zone 5 E	0 1 3 2 2	9 N 30	6 1 1 6 5 Datum: 6DA9
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	Abundance (0 – 7)	Notes		
Hollows in trees & stags	3			
Fallen logs (>10cm diam.)	5			
Decorticating bark	2			
Course litter (>2cm diam.)	4			
Fine litter (<2cm diameter)	. 5		·	
Bare ground	6			
Grass	5			
Soil cracks	0			
Stones (20-60cm)	0			
Boulders (61cm-2m)	0			
Large boulders (>2m)	0			
Rock crevices	0			
Exfoliating rock	g of the same			

Abundance key

## A 3.3 Sheet D - Regional Ecosystem type assessment site

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Page 23 of 26

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Site No. 13 PReco	order: 4	4 05	ay/Date: <u>1//3</u>	
Locality: (Inc. distance/di	rection to nearest town)	<u>Meoja</u>		
GPS coordinates:	Zone 5 5 E	073/862N70	6   03 9 Datum: 4299	
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	ð			
Fallen logs (>10cm diam.)	5			
Decorticating bark	5			
Course litter (>2cm diam.)	5			
Fine litter (<2cm diameter)	3			
Bare ground	4			
Grass	3			
Soit cracks	0			
Stones (20-60cm)	0			
Boulders (61cm-2m)	0			
Large boulders (>2m)	0			
Rock crevices	0			

Abundance key

Exfoliating rock

### A 3.3 Sheet D - Regional Ecosystem type assessment site

**END** 

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	1389 R	ecorder:	5 HI			D	y/Date: 4-3-2
Purpose				+			
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Stratum	height	interval	density (D,M,S,V)	Str.	dom.		ific Name
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Т3			5	-			
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52			**************************************			I A K	tonic constitution
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Existing I	RE code:		11.2.5		,		
Proposed	l RE code:		11.51				

Page 23 of 26

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Site No. 137 Reco	order: ) <	NΑ	D	y/Date: 4	V3-21
<b>B</b>				*****	
Locality: (inc. distance/dir	ection to nearest town)	Myalla			
GPS coordinates:	Zone 55 E	0 3 3 ( 9	37 N 70	60806	Datum: 60199
					:
	Abundance (0 – 7)	Notes			,
Hollows in trees & stags	0				
Fallen logs (>10cm diam.)	7			·	
Decorticating bark	granden. January January January				
Course litter (>2cm diam.)	5				
Fine litter (<2cm diameter)	eric errore				
Bare ground	3				
Grass	read a second				·
Soil cracks	0				
Stones (20-60cm)	1				
Boulders (61cm-2m)	0		·		
Large boulders (>2m)	0				
Rock crevices				·	

Abundance key

Exfoliating rock

# Appendix F

Field Survey Site Data: Fauna Habitat Site Sheets

Site No. Recorder:				Day/Date:	Day/Date:				
Purpose	Purpose					·			
Locality: (inc. distance/di	Locality: (inc. distance/direction to nearest town)								
GPS coordinates:	Zone 5 E	0	N N		Datu	n:			
	1740								
	Abundance (0 – 7)	Notes							
Hollows in trees & stags									
Fallen logs (>10cm diam.)	2 5			:		· · · · · · · · · · · · · · · · · · ·			
Decorticating bark	3								
Course litter (>2cm diam.)	4								
Fine litter (<2cm diameter)	5								
Bare ground	4								
Grass	4								
Soil cracks	0								
Stones (20-60cm)	0								
Boulders (61cm-2m)	0								
Large boulders (>2m)	0								
Rock crevices	0								
Exfoliating rock	0	:			·				

Abundance key

Site No. Rec	order:	Day/Date:		
Purpose				
Locality: (inc. distance/di				·····
GPS coordinates:	Zone 5 E	<b>O</b>	N	Datum:
100				
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	0			
Fallen logs (>10cm diam.)	3	:		
Decorticating bark	3			
Course litter (>2cm diam.)	3			
Fine litter (<2cm diameter)	4			
Bare ground	7			
Grass	3			
Soil cracks				· · · · · · · · · · · · · · · · · · ·
Stones (20-60cm)	0			·
Boulders (61cm-2m)	0			
Large boulders (>2m)	0			
Rock crevices	0			
Exfoliating rock	0			

Abundance key

Site No. Reco	order: A	MIEL	Day/Date: 23/11/2020
Purpose	5022		
Locality: (inc. distance/di	rection to nearest town)	WYENA	
GPS coordinates:	Zone 55	00787 N7	D61634 Datum (4494)
	170	ty 54/5	
	Abundance (0 – 7)	Notes	·
Hollows in trees & stags	2-	Some	
Fallen logs (>10cm diam.)	5	Predious loggrage	fællen truker å byl
Decorticating bark	3	Callitris nearly large Helmon	Work
Course litter (>2cm diam.)	3		
Fine litter (<2cm diameter)	5		
Bare ground	5		
Grass	2	saly grass co	ner is neutrine but
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock			

Abundance key

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Site No. 10 Recorder: A DAN 16	Day/Date: 23/11/2020
Purpose 222	
Locality: (inc. distance/direction to nearest town)	
GPS coordinates: Zone 55 E 0 7 3 9 5 4 3 N 7	06/583 Datum: 9194
1747	
Abundance Notes (0 – 7)	

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	2		
Fallen logs (>10cm diam.)	6		
Decorticating bark	2		
Course litter (>2cm diam.)	3		
Fine litter (<2cm diameter)	3		
Bare ground	6		
Grass	6		
Soil cracks			
Stones (20-60cm)			
Boulders (61cm-2m)	Secret Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary Secretary		
Large boulders (>2m)			
Rock crevices			
Exfoliating rock			

Abundance key

Site No. Rec	order:	Day/Date:			
	-				
Locality: (inc. distance/di	rection to nearest town)				
GPS coordinates:	Zone 5 E	0 N	Datum:		
: :	1748				
	Abundance (0 - 7)	Notes			
Hollows in trees & stags	0				
Fallen logs (>10cm diam.)	7.				
Decorticating bark	4				
Course litter (>2cm diam.)	4				
Fine litter (<2cm diameter)	4				
Bare ground	4	·			
Grass	4				
Soil cracks	0				
Stones (20-60cm)	<u></u>				
Boulders (61cm-2m)	0				
Large boulders (>2m)	0				
Rock crevices	0	·			
Exfoliating rock	6				

Abundance key

Site No. Rec	corder:	Day/Date:			
Purpose					·
Locality: (inc. distance/d	lirection to nearest town)				·
GPS coordinates:	Zone 5	0	N		Datum:
	1758				
	Abundance (0 – 7)	Notes			: · · · · · · · · · · · · · · · · · · ·
Hollows in trees & stags	1				
Fallen logs (>10cm diam.)	4				
Decorticating bark	4				
Course litter (>2cm diam.)	4				
Fine litter (<2cm diameter)	4				
Bare ground	4				
Grass	4				
Soil cracks	0				
Stones (20-60cm)	Ŝ	*	·		
Boulders (61cm-2m)	0				
Large boulders (>2m)	Ò				
Rock crevices	0				
Exfoliating rock					

Abundance key

	Habitat (	Characters - Abundan	c€		•
Site No. Reco	order:	SANIFIC	Day/Date:	23 11 23	20
Locality: (inc. distance/dir	rection to nearest town)	WHEATH			
GPS coordinates:	Zone 5 5 E	074043N	70437	Datum:	
	1765				
/	Abundance (0 – 7)	Notes			
Hollows in trees & stags	0				·
Fallen logs (>10cm diam.)	a francisco				
Decorticating bark	5				
Course litter (>2cm diam.)	5				

Exfoliating rock

Rock crevices

Fine litter (<2cm diameter)

Bare ground

Grass

Soil cracks

Stones (20-60cm)

Boulders (61cm-2m)

Large boulders (>2m)

0

Site No. Reco	order:		Day/Date:			
Purpose			·			
Locality: (inc. distance/dir	ection to nearest town)					
GPS coordinates:	Zone 5 E	0	Datum:			
	766					
	Abundance (0 – 7)	Notes				
Hollows in trees & stags		·				
Fallen logs (>10cm diam.)	4					
Decorticating bark	4					
Course litter (>2cm diam.)	4					
Fine litter (<2cm diameter)	6					
Bare ground	4					
Grass	5					
Soil cracks	٥					
Stones (20-60cm)	0					
Boulders (61cm-2m)	0		· ;			
Large boulders (>2m)	0					
Rock crevices	0					
Exfoliating rock	0		·			

Abundance key

		MUR		222
Purpose	902	2		•••••
Locality: (inc. distance/dir	rection to nearest town)	WENT	·····	· .
GPS coordinates:		0740294N	766306/ D	atum:
	766 5993			
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	/			
Fallen logs (>10cm diam.)	6			
Decorticating bark	15			
Course litter (>2cm diam.)	5			
Fine litter (<2cm diameter)	7			
Bare ground	4			
Grass	2			
Soil cracks	0			
Stones (20-60cm)	7			
Boulders (61cm-2m)	0			
Large boulders (>2m)	0		· \	
Rock crevices	0			
Exfoliating rock			Ì	

Abundance key

Site No. Reco	order:		ay/Date:
Purpose			
Locality: (inc. distance/dir	rection to nearest town)		
GPS coordinates:	Zone 5 E	0 N	Datum:
	767	-	
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	2_		
Fallen logs (>10cm diam.)	5		s
Decorticating bark	5		
Course litter (>2cm diam.)	5		
Fine litter (<2cm diameter)	5		
Bare ground	4		
Grass	3	·	
Soil cracks	0		
Stones (20-60cm)	3	:	
Boulders (61cm-2m)	4		
Large boulders (>2m)	0		
Rock crevices	3		
Exfoliating rock	0		

Abundance key

Site No. Rec	order:		Pay/Date:
Locality: (inc. distance/di	rection to nearest town)		
GPS coordinates:	Zone 5 E	0 N	Datum:
	1783		
	Abundance (0 - 7)	Notes	
Hollows in trees & stags	3		· · · · · · · · · · · · · · · · · · ·
Fallen logs (>10cm diam.)	4		
Decorticating bark	4		
Course litter (>2cm diam.)	4		
Fine litter (<2cm diameter)	4		
Bare ground	2		
Grass	5		
Soil cracks	0		
Stones (20-60cm)	O		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		· ·
Exfoliating rock	0	.i	

Abundance key

Site No. Recorder:			ay/Date:			
Purpose						
Locality: (inc. distance/di	rection to nearest town)					
GPS coordinates:	Zone 5 E	0 N	Datum:			
	1830					
	Abundance (0 – 7)	Notes				
Hollows in trees & stags	. 0					
Fallen logs (>10cm diam.)	2					
Decorticating bark	3					
Course litter (>2cm diam.)	4					
Fine litter (<2cm diameter)						
Bare ground	hamfer					
Grass	2.					
Soil cracks	/		·			
Stones (20-60cm)	0	:				
Boulders (61cm-2m)	10	:				
Large boulders (>2m)	0					
Rock crevices	Ó					
Exfoliating rock	0					

Abundance key

Site No. Reco	order:	ay/Date:			
Purpose					
Locality: (inc. distance/dir	ection to nearest town)				
GPS coordinates:	Zone 5 E 0 N	Datum:			
15	73				
	Abundance Notes (0 – 7)				
Hollows in trees & stags	2.				
Fallen logs (>10cm diam.)	lary word				
Decorticating bark	2				
Course litter (>2cm diam.)	4				
Fine litter (<2cm diameter)	5				
Bare ground	2				
Grass	3				
Soil cracks	0				
Stones (20-60cm)	4				
Boulders (61cm-2m)	4				
Large boulders (>2m)	4				
Rock crevices	32				
Exfoliating rock	0				

Abundance key

Site No. Reco	order:		-	ay/Date:
Purpose				· · · · · · · · · · · · · · · · · · ·
Locality: (inc. distance/di	rection to nearest town)		·	
GPS coordinates:	Zone 5 E	0	N N	Datum:
16	341			
	Abundance (0 – 7)	Notes		<del>-</del>
Hollows in trees & stags				
Fallen logs (>10cm diam.)				
Decorticating bark				
Course litter (>2cm diam.)	5			· :
Fine litter (<2cm diameter)	5			
Bare ground	4			
Grass	longs			
Soil cracks	2.			
Stones (20-60cm)	0			
Boulders (61cm-2m)	0			
Large boulders (>2m)	٥			
Rock crevices	0			
Exfoliating rock	0			

Abundance key

	~ /	11	
Site No.   Reco	order:		Day/Date: 23/11/20
Purpose		wallenbilla	
Locality: (inc. distance/dir	rection to nearest town)	Wallenbilla	ut .
GPS coordinates:	Zone 5 5 E	072 32 N 3426 40	Datum: 766
	76%		
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	4	Laze hollend in	ronbulks
Fallen logs (>10cm diam.)	7	Large hollens in Academ shortens	present
Decorticating bark			
Course litter (>2cm diam.)	H		
Fine litter (<2cm diameter)	4		
Bare ground	6'		
Grass	5		
Soil cracks	1		
Stones (20-60cm)	5		
Boulders (61cm-2m)	5		
Large boulders (>2m)	5		
Rock crevices	5		
Exfoliating rock	3		

Site No. Record	der: D /	NH	D_y/D	Date: 24/	11/20
Purpose		112	· ·	·	· · · · · · · · · · · · · · · · · · ·
Locality: (inc. distance/direc	tion to nearest town)	allumb illa	: 		
GPS coordinates:	Zone <b>5</b> 4 E <b>0</b>	7 2 3 2 9 8 1	170	9689	Datum: <i>112</i>

		l Nada -	
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	/		
Fallen logs (>10cm diam.)			
Decorticating bark	/		
Course litter (>2cm diam.)	/		
Fine litter (<2cm diameter)	2		
Bare ground	3		
Grass	6	Donnated	as befre
Soil cracks	/		
Stones (20-60cm)	3	Lots of Cock	< 20cm
Boulders (61cm-2m)	0		. <u>.</u>
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0	5	

Abundance key

			٠				
Site No. 4 Reco	order:	M H	D	y/Date:	24/	11/20	
Purpose		. / !	·	·		••	.,
Locality: (inc. distance/dire	ection to nearest town)	Wallumbill	esima,				
GPS coordinates:	Zone 5 5 E	072332	7 N 70	96	22	Dettim:	443
·	···						

	<u> </u>		
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	1		
Fallen logs (>10cm diam.)	7		
Decorticating bark	2		
Course litter (>2cm diam.)	3		
Fine litter (<2cm diameter)	7		
Bare ground	Lj		
Grass	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
Soil cracks	0		· .
Stones (20-60cm)	4	Lots of stones	420 
Boulders (61cm-2m)	0		
Large boulders (>2m)			
Rock crevices	Consultation of the second		
Exfoliating rock	0		

Abundance key

Site No. S Reco	order: DS	MH		C	y/Date:	24	/11/2	0
Durnosa			ji v		·		,	
Locality: (inc. distance/dire	rection to nearest town)	vedlin	nbilla					
GPS coordinates:	Zone <b>5</b> 5 E	0724	0191	1 1 5	579	00	Datum: A	ACD 96
								6
	Abundance (0 – 7)	Notes						
Hollows in trees & stags	1							
Fallen logs (>10cm diam.)	6				FT/19			
Decorticating bark	3							
Course litter (>2cm diam.)	5							· .
Fine litter (<2cm diameter)	7					·		
Bare ground	5							
Grass	3						_	
Soil cracks	0							
Stones (20-60cm)	1			·				
Boulders (61cm-2m)	0							
Large boulders (>2m)	0					·		
Rock crevices	0							
Exfoliating rock	0					· ·		

Abundance key

Site No. Reco	order: OS+MH	Day/Date: 24	/11/20
Purpose  Locality: (inc. distance/dir	ection to nearest town)	bolak	
GPS coordinates: つるみ	Zone 5 5 E 0 7 2 4	301N7059755	Datum:
			784

Abundance **Notes** (0 - 7)Hollows in trees & stags Fallen logs (>10cm diam.) Decorticating bark Course litter (>2cm diam.) Fine litter (<2cm diameter) Bare ground Grass Soil cracks Stones (20-60cm) Boulders (61cm-2m) Large boulders (>2m) Rock crevices Exfoliating rock

Abundance key

Site No. 7 Reco	rder:	5 + WH	Day/Date:	24/11/202	, t
Locality: (inc. distance/dire		Wallumbelah			
GPS coordinates: いゅうを	Zone 5 S E	0724461N7	0597	৪০ Datum:	
	Pheto	0 NO			765
	Abundance (0 – 7)	Notes			
Hollows in trees & stags	4				
Fallen logs (>10cm diam.)	4				
Decorticating bark	3				
Course litter (>2cm diam.)	6	·			
Fine litter (<2cm diameter)	6				
Bare ground	3				
Grass	4				
Soil cracks	0				
Stones (20-60cm)	# 6				
Boulders (61cm-2m)	0				
Large boulders (>2m)	0				
Rock crevices				-	
Exfoliating rock	A Company				

Abundance key

					1
Site No. SReco	order: DS	MM	·	ay/Date: 14	hopo :
	•		<i>, , , , , , , , , , , , , , , , , , , </i>		
Purpose  Locality: (inc. distance/dir	rection to nearest town)	Nellow	16111 Km		
GPS coordinates: プなら		0 7 2 4 6	07 N7a	5 9 8 6 0	Datum: 160 94
					mentally & Comp
	Abundance (0 – 7)	Notes			
Hollows in trees & stags	2			· -	· · · · · · · · · · · · · · · · · · ·
Fallen logs (>10cm diam.)	6				
Decorticating bark	3				
Course litter (>2cm diam.)	concentral				
Fine litter (<2cm diameter)	フ				
Bare ground	3				
Grass	2				
Soil cracks					
Stones (20-60cm)	5			_	
Boulders (61cm-2m)	2				
Large boulders (>2m)	0			·	
Rock crevices	0				
				•	

Abundance key

Exfoliating rock

Site No. 9 Reco	rder: MN	05	 D y	/Date:		
Purpose Locality: (inc. distance/dim		Wall-			· ·	
Locality: (inc. distance/din	Zone 5 S E		 706	3614	Datum:	
789						ar the
					`	789
	Abundance (0 – 7)	Notes				
Hollows in trees & stags	4				<u>.</u>	
Fallen logs (>10cm diam.)	4					· · ·
Decorticating bark	1 .					
Course litter (>2cm diam.)	6				·	
Fine litter (<2cm diameter)	6.	·				
Bare ground	6					
Grass	S					
Soil cracks	0					
Stones (20-60cm)	ə					
Boulders (61cm-2m)	0					· · · · · · · · · · · · · · · · · · ·
Large boulders (>2m)						
Rock crevices	\$					

Abundance key

Exfoliating rock

Site No. 1D Recorder: DS MN	y/Date: 24/11/20
Purpose	
Locality: (inc. distance/direction to nearest town)	
GPS coordinates: Zone 55 E 0724649 N70	5 2 5 2 1 Datum: 16D 94

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	1		
Fallen logs (>10cm diam.)	3	occasional Con	or fuller puplar
Decorticating bark			
Course litter (>2cm diam.)	3		
Fine litter (<2cm diameter)	5		
Bare ground	4	·	
Grass	/	Noscend	CONE
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	O		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0		

Abundance key

		•			
Site No. 12 Rec	corder: D5	mH	D y/Date:	24/1/20	
Purpose	······································				·
Locality: (inc. distance/o	direction to nearest town)				
GPS coordinates:	Zone 55 E	0724646	N70628	· 9 / Datum:	agd 94
					7499
	Abundance	Notes			

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	35 "	Sun big dod	Pallers
Fallen logs (>10cm diam.)	5		
Decorticating bark	1:		
Course litter (>2cm diam.)	3		
Fine litter (<2cm diameter)	3		
Bare ground	4		
Grass	4		
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	6		

Abundance key

Site No. 13 Record	der: DS	a Hm	y/Date:	24/11/2	0
Purpose				······································	
Locality: (inc. distance/direc	tion to nearest town)				
GPS coordinates:	Zone 55 E C	1724725 N70	3 3 0 9	Datum:	VCDar
				<del></del>	

	Abundance (0 – 7)	Notes		
Hollows in trees & stags	3			
Fallen logs (>10cm diam.)	5			
Decorticating bark	2			
Course litter (>2cm diam.)	5		·	
Fine litter (<2cm diameter)	.5			<u> </u>
Bare ground	6		·	<u> </u>
Grass	3			
Soil cracks	0			
Stones (20-60cm)	0			·
Boulders (61cm-2m)	0		·	
Large boulders (>2m)	0			
Rock crevices	0			
Exfoliating rock	6			

Abundance key

	·	<u> </u>			<del>}                                    </del>	·
Site No. 14 Reco	order: 75	MH	· D	y/Date: へら	11/20	
Purpose						
Locality: (inc. distance/dir	ection to nearest town)	Boerdino		· .		
		0724039	N 10	5 4 8 6 6	Datum:	···
						885
	Abundance (0 – 7)	Notes			·	
Hollows in trees & stags	80					
Fallen logs (>10cm diam.)	2					
Decorticating bark	. Statement					
Course litter (>2cm diam.)	5					
Fine litter (<2cm diameter)	6.					
Bare ground	6	Name of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o		·		
Grass	1					
Soil cracks	Ø			: :		A
Stones (20-60cm)	Ō			. ·		
Boulders (61cm-2m)	0					
Large boulders (>2m)	Ö					
	T					

Abundance key

Rock crevices

Exfoliating rock

Site No. 15 Recorder: MH DS	y/Date: 25/11/20
Purpose	
Locality: (inc. distance/direction to nearest town)	
Locality. (III. distance/direction to means form)	
GPS coordinates: Zone 5 5 E 0 7 2 4 7 3 0 N 7 0	5 8 6 14 6 Datum:
4°0	

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	\		
Fallen logs (>10cm diam.)	<u>س</u>		
Decorticating bark			
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	5		
Bare ground	5		
Grass	5		
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)			
Rock crevices	0		
Exfoliating rock	0		

Abundance key

Site No. 15 ARecorder: DS MH I	y/Date: 25 11 20
Purpose	
Locality: (Inc. distance/direction to nearest town) 3, ((1))	
GPS coordinates: Zone 5 5 E 0 7 2 4 7 7 2 N 7 C	5 8 9 1 5 Datum: 16D 14

	Abundance (0 – 7)	Notes			
Hollows in trees & stags	4			·	
Fallen logs (>10cm diam.)	5	: ·			
Decorticating bark	4		·		
Course litter (>2cm diam.)	6				
Fine litter (<2cm diameter)	4				
Bare ground	6		_	·	
Grass	2				
Soil cracks	0				
Stones (20-60cm)	6		·		
Boulders (61cm-2m)	6		<u>.</u> .		
Large boulders (>2m)	6		·		
Rock crevices	and the second				
Exfoliating rock	1		·		

Abundance key

Site No. 16 Recorder: OS MA	y/Date:
Purpose	
Locality: (inc. distance/direction to nearest town) 以, l qavale-	
GPS coordinates: Zone 55 E 07 24 6 98 N 7 0	60286 Datum: AGD 94

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	Ø 1		
Fallen logs (>10cm diam.)	6		
Decorticating bark	6	Higherical rung timber.	lots of old dead, steeding
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	UX.		
Bare ground	5		
Grass	2		
Soil cracks			
Stones (20-60cm)	0		
Boulders (61cm-2m)			
Large boulders (>2m)	0_		
Rock crevices	0		
Exfoliating rock			

Abundance key

<sup>0 =</sup> Nil 4 = Occasional to common 1 = Rare 5 = Commo 2 = Rare to Occasional 6 = Common to Abundant 3 = Occasional 7 = Abundant

		·	
Site No.   † Record	der: US MK	D ly/Date:	25/11/20
Purpose			
Locality: (inc. distance/direct	tion to nearest town) ulgavale		
GPS coordinates:	zone 5 5 E 0 7 2 5 7	11 N 70 0 3	フリ Datum:
	· · · · · · · · · · · · · · · · · · ·		and since standing

			Contraction &
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	0		
Fallen logs (>10cm diam.)	6		
Decorticating bark	1		
Course litter (>2cm diam.)	4		
Fine litter (<2cm diameter)	5		
Bare ground	6		
Grass	3		
Soil cracks	0		
Stones (20-60cm)	$\bigcirc$		· · · · · · · · · · · · · · · · · · ·
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0		

Abundance key

Site No. 18 Recorder:	MW 05	D	y/Date: 2-6	1/11/20
Purpose				
Locality: (inc. distance/direction to near	111	to ale		
	5 F 0 7 2 4	225 N 20	10979	Datum:
GPS coordinates: Zone L	5 E O ( )		7   3   7   7   7	Datum.
0 - 2				<u> </u>

	Abundanaa	Notes				· <u> </u>
	Abundance (0 – 7)	Notes		- Area		
Hollows in trees & stags						
Fallen logs (>10cm diam.)	7					
Decorticating bark	3					
Course litter (>2cm diam.)	6					
Fine litter (<2cm diameter)	6			·		
Bare ground	Ś			·		
Grass	4		_			
Soil cracks	0			. •	· 	
Stones (20-60cm)						
Boulders (61cm-2m)	0	i				
Large boulders (>2m)	0					
Rock crevices	0					
Exfoliating rock	0	5				

Abundance key

Site No. 19 Recorder: 15 MH	Day/Date: 26/11/20
Purpose	,
Locality: (inc. distance/direction to nearest town)  GPS coordinates:  Zone 5 5 E 0 7 2 5 1 5	9 N 705/232 Datum: 161995
upt 842	

·	Abundance (0 – 7)	Notes	
Hollows in trees & stags			
Fallen logs (>10cm diam.)			
Decorticating bark			
Course litter (>2cm diam.)			
Fine litter (<2cm diameter)			
Bare ground			
Grass		·	
Soil cracks			
Stones (20-60cm)			
Boulders (61cm-2m)			
Large boulders (>2m)			
Rock crevices			
Exfoliating rock			

Abundance key

Site No. 20 Record	der: D5	MH	D	y/Date:	24/11/20	)
Purpose  Locality: (inc. distance/direct	tion to negreet town) W	ta vole			÷	
GPS coordinates:	Zone 5 5 E 0	72435	9 N 4 O	6 1 6	6 4 Datum	n: 160 94

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	(5)		
Fallen logs (>10cm diam.)	5		
Decorticating bark	3		
Course litter (>2cm diam.)	4	·	· · · · · · · · · · · · · · · · · · ·
Fine litter (<2cm diameter)	S		
Bare ground			
Grass	3		
Soil cracks	0	·	·
Stones (20-60cm)	$\circ$		: : : : : : : : : : : : : : : : : : :
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	9		
Exfoliating rock	0		

Abundance key

5/ 001	_	
Site No. 2 Recorder:	D	y/Date: 26/1/20
Olio 110-		
Purpose		
Locality: (inc. distance/direction to nearest town)		
	ا ام	
GPS coordinates: Zone 55 E 07 2 4 0 5 1 N	70	5 2 0 5 7 Datum: Page 17
mpt 852		
T ee .		

	_		
	Abundance (0 - 7)	Notes	
Hollows in trees & stags	3		
Fallen logs (>10cm diam.)	3		
Decorticating bark	James .		
Course litter (>2cm diam.)	2		
Fine litter (<2cm diameter)			
Bare ground	-5"		
Grass	2		
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock			

Abundance key

	·					
Site No. 22 Reco	order: DS	MH	D	y/Date: 26	1/1/20	)
Purpose				·		
Locality: (inc. distance/dir		Ç,			•	
GPS coordinates:	Zone 5 E	0 7 2 3 9	58 N70	6,783	Datum:	4699
						(53
	Abundance (0 – 7)	Notes				
Hollows in trees & stags	3		_			. ,
Fallen logs (>10cm diam.)	4					
Decorticating bark	5					
Course litter (>2cm diam.)	5					
Fine litter (<2cm diameter)	- 5					45
Bare ground	5		-			
Grass	5					
Soil cracks	0					
Stones (20-60cm)	0		•			
Boulders (61cm-2m)	0					
Large boulders (>2m)	0					

Abundance key

Rock crevices

Exfoliating rock

Site No. 23 Recorder: DS MN	y/Date: 26/11/20
Purpose	
Locality: (inc. distance/direction to nearest town)	
GPS coordinates: Zone 55 E 0 4 2 3 3 1 9 N 70	1 2 6 3 9 Datum: 169 74

	Abundance (0 - 7)	Notes	
Hollows in trees & stags	. 3		
Fallen logs (>10cm diam.)	3		
Decorticating bark	2		
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	6		
Bare ground	5		
Grass	4		
Soil cracks	0		
Stones (20-60cm)	6		
Boulders (61cm-2m)	3		
Large boulders (>2m)			
Rock crevices			
Exfoliating rock			

Abundance key

			÷			
Site No. 24 Reco	order:	ME		D y/Date:	26/11/2	٥
Purpose					· 	••
Locality: (inc. distance/di				·		
GPS coordinates:	Zone 5 5 E	0723	428 N 3	10 (25	65 Datum:	1609
						856
	Abundance (0 – 7)	Notes				
Hollows in trees & stags	1				·	
Fallen logs (>10cm diam.)	2					
Decorticating bark	/					
Course litter (>2cm diam.)	3		."'	·		
Fine litter (<2cm diameter)	4					·
Bare ground	6			<u> </u>		
Grass	5					
Soil cracks	0		<u></u>			
Stones (20-60cm)	0					<u> </u>
Boulders (61cm-2m)	0					
Large boulders (>2m)	0				,	
Pock gravicos						

Abundance key

Exfoliating rock

Site No. 25 Recor	der: MA + O 5	D y/Date:
Purpose		
Locality: (inc. distance/direc	611-	
		N 7 9 5 2 2 6 8 Datum:
GPS coordinates:	Zone 5 3 E 0 7 7 7 1 9 7	Jacob Dates

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	ستان الله الله الله الله الله الله الله ال		
Fallen logs (>10cm diam.)	W		
Decorticating bark	2		
Course litter (>2cm diam.)	S		
Fine litter (<2cm diameter)	5		
Bare ground	5		
Grass	5		
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	$\circ$		
Large boulders (>2m)			
Rock crevices	<b>(</b> )		
Exfoliating rock	0		

Abundance key

D y/Date: 2つ/11/20

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	2		
Fallen logs (>10cm diam.)	4		
Decorticating bark	3		
Course litter (>2cm diam.)	15		
Fine litter (<2cm diameter)	. 5		
Bare ground	5		
Grass	2		
Soil cracks	0 .		
Stones (20-60cm)	7		·
Boulders (61cm-2m)	3		
Large boulders (>2m)			
Rock crevices			
Exfoliating rock	$\bigcirc$		

Abundance key

Site No. 27 Recorder: DS MI D	y/Date: 24/11/20
Purpose	
Locality: (inc. distance/direction to nearest town) Lugavale	
GPS coordinates: zone 55 E 0723018 N70	5 9 5 1 Datum: 160 14

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	3		
Fallen logs (>10cm diam.)	2		
Decorticating bark	3		
Course litter (>2cm diam.)	4		
Fine litter (<2cm diameter)	6		
Bare ground	5		
Grass	6		
Soil cracks	0		
Stones (20-60cm)	44		· .
Boulders (61cm-2m)	0		
Large boulders (>2m)	6		
Rock crevices	0		
Exfoliating rock	0		·

Abundance key

Site No. 29 Record	der: MH DS	D y/Date: 27/11/20
Purpose		
Locality: (inc. distance/direct	tion to nearest town) \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	
GPS coordinates:	Zone 5 5 E 0 7 2 4 0 7 4 N	7061432 Datum:

	Abundance (0 – 7)	Notes	·		
Hollows in trees & stags	2				
Fallen logs (>10cm diam.)	3				
Decorticating bark	4				
Course litter (>2cm diam.)	6			·	
Fine litter (<2cm diameter)	6				
Bare ground	3				
Grass	5				
Soil cracks	0	-		<u>-</u>	
Stones (20-60cm)					· · ·
Boulders (61cm-2m)	0				· · · · · · · · · · · · · · · · · · ·
Large boulders (>2m)					
Rock crevices	0	·			·
Exfoliating rock	0		_		

Abundance key

WKZ

#### **Habitat Characters - Abundance**

Site No. Recorder:			Day/Date:	
Purpose				
Locality: (inc. distance/di	rection to nearest town)			
GPS coordinates:	Zone 5 E	0 N	Datum:	
WPT	878	÷		
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	j			
Fallen logs (>10cm diam.)	6			
Decorticating bark	4			
Course litter (>2cm diam.)	6			
Fine litter (<2cm diameter)	6			
Bare ground	5			
Grass	5			
Soil cracks	0			
Stones (20-60cm)	4	-		
Boulders (61cm-2m)	1.			
Large boulders (>2m)	Ö			
Rock crevices		19		
Exfoliating rock	0			

Abundance kev

Site No. Recorder:			Day/Date:
Purpose			
Locality: (inc. distance/di	rection to nearest town)		
GPS coordinates:	Zone <b>5</b> E	0 N	Datum:
WPT 80	54		
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	S		
Fallen logs (>10cm diam.)	4		
Decorticating bark	7		
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	5		
Bare ground	Ś	·	
Grass	6		· ·
Soil cracks	Ó		
Stones (20-60cm)			
Boulders (61cm-2m)			
Large boulders (>2m)			
Rock crevices	0		
Exfoliating rock	$\bigcirc$		

Abundance key

Site No. Reco	order:	Day/Date:	
Locality: (inc. distance/di	rection to nearest town)		
GPS coordinates:	Zone 5 E	0 N	Datum:
	. <del>"</del>	· .	
W8T8	772		
	Abundance (0 - 7)	Notes	
Hollows in trees & stags	4		
Fallen logs (>10cm diam.)	S		
Decorticating bark	- Sound		
Course litter (>2cm diam.)	S		
Fine litter (<2cm diameter)	4		
Bare ground	6		
Grass	7		
Soil cracks	0		
Stones (20-60cm)			
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0		·

Abundance key

Site No. Recorder:			Day/Date:
Purpose			
Locality: (inc. distance/dir			
GPS coordinates:	Zone 5 E	E 0	Datum:
WPT "	901		
Wr i	101		
	Abundance (0 – 7)	Notes	
Hollows in trees & stags			
Fallen logs (>10cm diam.)	1		
Decorticating bark			
Course litter (>2cm diam.)	3		
Fine litter (<2cm diameter)	6		
Bare ground	6		
Grass	6		
Soil cracks	O		
Stones (20-60cm)	0		
Boulders (61cm-2m)	Salaria ang ang ang ang ang ang ang ang ang an		·
Large boulders (>2m)	<b>O</b>		
Rock crevices	<b>S</b>		
Exfoliating rock			

Abundance key

Site No. Recorder:					Day/Date:		
1	······						
Locality: (inc. distance/di	rection to nearest town)					•••••	
GPS coordinates:	Zone 5 E	0	N			Datum:	
WPT 9	09					:	
	Abundance (0 – 7)	Notes					
Hollows in trees & stags							
Fallen logs (>10cm diam.)	5						
Decorticating bark	2					. •	
Course litter (>2cm diam.)	5				_		
Fine litter (<2cm diameter)	4	_					
Bare ground	7						
Grass							
Soil cracks	0						
Stones (20-60cm)	ð						
Boulders (61cm-2m)	0						
Large boulders (>2m)	Ð	I					
Rock crevices	0						
Exfoliating rock	Ó	÷					

Abundance key

				Day/Date:		
Locality: (inc. distance/di	rection to nearest town)					
GPS coordinates:	Zone 5 5 E	072632	3 N Z D G 1	124 Datum:		
wrt	743					
	Abundance (0 – 7)	Notes			****	
Hollows in trees & stags						
Fallen logs (>10cm diam.)	6					
Decorticating bark	2					
Course litter (>2cm diam.)	6					
Fine litter (<2cm diameter)	5					
Bare ground	6					
Grass	1	i.				
Soil cracks	0					
Stones (20-60cm)	0					
Boulders (61cm-2m)	Ò					
Large boulders (>2m)	0					
Rock crevices	ō					
Exfoliating rock						

Abundance key

Site No. Reco	order:	Day/Date:	
Locality: (inc. distance/dir	rection to nearest town)		
GPS coordinates:	Zone 5 E	0 N	Datum:
WPTS	183	1V.	
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	6		
Fallen logs (>10cm diam.)	5		
Decorticating bark	5		
Course litter (>2cm diam.)	4		
Fine litter (<2cm diameter)	4		
Bare ground	6		
Grass	2		
Soil cracks	)		
Stones (20-60cm)	5		
Boulders (61cm-2m)	0		
Large boulders (>2m)	٥		
Rock crevices	0		
Exfoliating rock			

Abundance key

Site No. Reco	order:	Day/Date:		
Purpose				
Locality: (inc. distance/dire	ection to nearest town)			
GPS coordinates:	Zone 5 E	0 N	Datum:	
w1978	\$			
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	(			
Fallen logs (>10cm diam.)	3			
Decorticating bark				
Course litter (>2cm diam.)	6			
Fine litter (<2cm diameter)	Ś			
Bare ground	5			
Grass	5			
Soil cracks	0	NI10 1 A		
Stones (20-60cm)	0			
Boulders (61cm-2m)				
Large boulders (>2m)	0			
Rock crevices	9			
Exfoliating rock	0			

Abundance key

Site No. Recorder:					Day/Date:				
Purpose									
ľ	Locality: (inc. distance/direction to nearest town)							••	
GPS coordinates:	Zone 5 E	0		] N[				Datum:	
WPT9	68		<u></u> .						
	Abundance (0 – 7)	Notes							
Hollows in trees & stags	5						•		
Fallen logs (>10cm diam.)	4								
Decorticating bark	4								
Course litter (>2cm diam.)	5					-			
Fine litter (<2cm diameter)	6								
Bare ground	3								
Grass	7								
Soil cracks	6								
Stones (20-60cm)	0				•				•
Boulders (61cm-2m)	0								
Large boulders (>2m)	0			-	-				
Rock crevices	0						<u>.</u>		
Exfoliating rock	0								

Abundance key

Site No. Rec	order:				Day/Da	ate:			
Purpose									
Locality: (inc. distance/di	rection to nearest town)			******			••••		
GPS coordinates:	Zone 5 E	0		N				Datum:	•
WR	TR								
	Abundance (0 – 7)	Notes	174						
Hollows in trees & stags	6						-		
Fallen logs (>10cm diam.)	5								
Decorticating bark	6								
Course litter (>2cm diam.)	5								
Fine litter (<2cm diameter)	6								
Bare ground	2								
Grass	<u> </u>								
Soil cracks								<b>'</b> .	
Stones (20-60cm)	0								
Boulders (61cm-2m)	<b></b>			-					
Large boulders (>2m)	0					. –			
Rock crevices	0					1, .			
Exfoliating rock							٠		

Abundance key

Site No. 419 Recorder:	ıy/Date: 🏷	12/20	
Purpose		da da da da da da da da da da da da da d	
Locality: (inc. distance/direction to nearest town)			
GPS coordinates: Zone 5 5 E 0 7 3 2 9 9 3 N 7 0	6030	2 Datum:	GDN 90
W 1014			<u> </u>

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	6	Evagent Crebon	though serving
Fallen logs (>10cm diam.)			
Decorticating bark			
Course litter (>2cm diam.)	-5		
Fine litter (<2cm diameter)	5		
Bare ground	5		
Grass	5	·	,
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0		

Abundance key

Site No. 420 Recorder:	Ds	HM		⊏фу	//Date:	13/	12/	20	
Purpose	·							,	
Locality: (inc. distance/direction to	nearest town)	My	alla						
GPS coordinates: Zon		07328	687 N	705	598	19	Datu	ım:	

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	<b>\</b> .		
Fallen logs (>10cm diam.)	5		· · · · · · · · · · · · · · · · · · ·
Decorticating bark	2		
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	5		
Bare ground	5		
Grass	6		· · · · · · · · · · · · · · · · · · ·
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)			
Large boulders (>2m)	0		
Rock crevices	Ö		
Exfoliating rock	0		

Abundance key

Site No. 423 Recorder: DS MN	ay/Date: 15/12/20
Purpose #	· · · · · ·
Locality: (inc. distance/direction to nearest town)	
GPS coordinates: Zone 5 5 E 0 7 3 2 7 8 6 N 7 0	59380 Datum: 6DA7

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	2		
Fallen logs (>10cm diam.)	5		
Decorticating bark	) 		
Course litter (>2cm diam.)	5		
Fine litter (<2cm diameter)	5		
Bare ground	5	.*	
Grass	5		
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0		

Abundance key

		lo I Li	17/10/
Site No. 495 Reco	order: $\mathcal{V}$	MU	Pay/Date: 17/12/20
		······································	}
Locality: (inc. distance/dir	rection to nearest town)	Arsa Ira	
GPS coordinates: ルッチ	Zone 5 5 E	0 3 3 3 4 8 N	- 4 6 2 2 4 4 Datum: 6DA 94
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	0		
Fallen logs (>10cm diam.)	2		
Decorticating bark	)		
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	7		
Bare ground	5		
Grass	4		
Soil cracks	0		
Stones (20-60cm)	ව		
Boulders (61cm-2m)	T	e e	
Large boulders (>2m)	2		
Rock crevices	0		

Abundance key

Exfoliating rock

					1 1
Site No. 504 Record	ler: DS	MH		ay/Date: 17	/12/20
Purpose				1	
Locality: (inc. distance/directi	ion to nearest town)	Argry	JUZ	Jle	
GPS coordinates:	Zone 5 5 E	0 7 2 9 30	1 N 40	64671	Datum: 60194

1.	Abundance (0 – 7)	Notes		:
Hollows in trees & stags	2		·	
Fallen logs (>10cm diam.)	4			
Decorticating bark	1		·	
Course litter (>2cm diam.)	6			
Fine litter (<2cm diameter)	6			
Bare ground	6			
Grass				en de la companya de la companya de la companya de la companya de la companya de la companya de la companya de La companya de la co
Soil cracks	5			
Stones (20-60cm)	0			
Boulders (61cm-2m)	0			
Large boulders (>2m)	Û			
Rock crevices	0			
Exfoliating rock	0			

Abundance key

### A 3.3 Sheet D – Regional Ecosystem type assessment site

viiionii arrogram	(2)	•		·						
Locatio	1	<u> </u>			· ·		7-/			
Site No.	514 R	ecorder:/	D	y/Date: 18/12/20						
Purpose	!		.1							
Locality:	(inc. distanc	e/direction to nearest	town) Ar	8/1	50	)[~ ]				
GPS:										
			· · · · · · · · · · · · · · · · · · ·				**************************************			
Vegetati	ion struc	cture		Plant	speci	es				
Median hei	ght of the E	DL is to be measur	red	Record	relative	(numeri	al) dominance for each stratum; minant; s - subdominant, a – associated.			
Stratum	Median height	Height interval	Est. cover density (ⅅ,ϻ,ಽ,∨)	Str.	Rel.		fic Name			
E	6	6.7	V	17	D	Ad	happy la			
T1	4	4-5	M		<u>×</u>		1.1.0.			
Т2				6	D	<u>_</u>	populnea			
Т3		<u></u>					<u></u>			
<b>S</b> 1		_								
S2		_		,,,,,,						
G		< <u>6-4</u>	1)	6	$\tilde{\mathcal{O}}$	(e/	Louis ellians			
Structura	l formation:	: (including height)								
		, , ,								
Ecologica	Illy domina	nt layer:								
Geology	landforr	n, sõils								
	nap/scale/y						A 10 Mars -			
	code and ro			THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY 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OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	ALBERT TO THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE 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PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PART		THE PROPERTY OF LANGUAGE PROPERTY OF A SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF 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SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECURE OF THE SECUR			
Land syst	tem:	Downs .								
Landform	: <u>3</u>	ottom of	Slope							
Soils:	Soils:									
Field obs										
		G~	us Styl	00%		out	Landzone:			
RE code	change			·						
		·	Not	Map	red					
Existing F	RE code:		11.9.50	0	()					
Lioposea	IKE CODE;		11 2 0		~~ (~~)					

END

5 6559 E 6559

J 6569

Site No. 514 Recorder: $\mathcal{D}_{3}^{3}$	ay/Date:	12	20
Purpose			
Locality: (inc. distance/direction to nearest town)			
GPS coordinates: Zone 5 5 E 0 4 2 8 ラ ビス N 分く	63391	Datu	m: 60/1 94

	Abundance (0 – 7)	Notes	
Hollows in trees & stags	$\bigcirc$		
Fallen logs (>10cm diam.)			
Decorticating bark	\(\frac{1}{2}\)		
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	. 6		
Bare ground	5		
Grass	6		
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	ی		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	۵.		

Abundance key

<sup>0 =</sup> Nil 4 = Occasional to common 1 = Rare 5 = Commo 2 = Rare to Occasional 6 = Common to Abundant 3 = Occasional 7 = Abundant

Site No. Rec	order:	Day/Date:					
Purpose							
Locality: (inc. distance/d	irection to nearest town)						
GPS coordinates:	Zone 5 E	0 N	Datum:				
WT9	76						
	Abundance (0 – 7)	Notes					
Hollows in trees & stags							
Fallen logs (>10cm diam.)	2						
Decorticating bark							
Course litter (>2cm diam.)	2						
Fine litter (<2cm diameter)	7						
Bare ground	5						
Grass	4		· .				
Soil cracks	0						
Stones (20-60cm)	5 d						
Boulders (61cm-2m)	5						
Large boulders (>2m)	5						
Rock crevices	. 2						
Exfoliating rock	0						

Abundance key

Site No. Reco	order:	Day/Date:			
Purpose					
Locality: (inc. distance/dir	rection to nearest town)				
GPS coordinates:	Zone 5 E	0 N	Datum:		
MPTIOE	70				
	Abundance (0 - 7)	Notes			
Hollows in trees & stags					
Fallen logs (>10cm diam.)	1				
Decorticating bark	)				
Course litter (>2cm diam.)	3				
Fine litter (<2cm diameter)	2				
Bare ground					
Grass	3		÷		
Soil cracks	0		•		
Stones (20-60cm)	6		· · · · <u> ·</u> · · · · · · · · · <u>- · ·</u> ·		
Boulders (61cm-2m)	3				
Large boulders (>2m)	Ø ·				
Rock crevices	O				
Exfoliating rock	0				

Abundance key

Site No. Rec	Site No. Recorder:					Date:			
Purpose				*******					
Locality: (inc. distance/di	rection to nearest town)		·····				<b></b>		
GPS coordinates:	Zone 5 E	0		N				_ Datum:	
wrttoo	E.								
	Abundance (0 – 7)	Notes						<del>4"_444</del>	
Hollows in trees & stags									
Fallen logs (>10cm diam.)									
Decorticating bark	(								
Course litter (>2cm diam.)	6		,						
Fine litter (<2cm diameter)	6	:							
Bare ground	5						<u>-</u>		
Grass	5								
Soil cracks	0								
Stones (20-60cm)	0								
Boulders (61cm-2m)	0								
Large boulders (>2m)	C								
Rock crevices	0								
Exfoliating rock		·							

Abundance key

Site No. Rec	order:	Day/Date:	Day/Date:				
				•			
Locality: (inc. distance/di	rection to nearest town)						
GPS coordinates:	Zone 5 E	0	□ N			Datum:	
WPTI	003				:		
	Abundance (0 – 7)	Notes			:		
Hollows in trees & stags	2				·		
Fallen logs (>10cm diam.)	5				:		
Decorticating bark	3		·		·		
Course litter (>2cm diam.)	4				· .		
Fine litter (<2cm diameter)	5				·		
Bare ground	5						
Grass	3						
Soil cracks	9				<u> </u>	· .	
Stones (20-60cm)	0				·		
Boulders (61cm-2m)	0						
Large boulders (>2m)	0						
Rock crevices	Ð						
Exfoliating rock	0						

Abundance key

Site No. Recorder:						Day/Date:				
Purpose										
Locality: (inc. distance/di				***************************************						
GPS coordinates:	Zone 5 E	0		] N [			Datur	m:		
		···								
we7 (00)	4					:				
	Abundance (0 – 7)	Notes	***			:				
Hollows in trees & stags	2			-						
Fallen logs (>10cm diam.)	5					:				
Decorticating bark	2									
Course litter (>2cm diam.)	6									
Fine litter (<2cm diameter)	6					:				
Bare ground	5									
Grass	5		<u>-</u>							
Soil cracks	0									
Stones (20-60cm)	Constant					4				
Boulders (61cm-2m)	0			·						
Large boulders (>2m)	0		· .							
Rock crevices	0									
Exfoliating rock										

Abundance key

Site No. Rec	order:	Day/Date:					
_							
Locality: (inc. distance/di	rection to nearest town)						
GPS coordinates:	Zone 5 E	0   N	Datum:				
WPT	005						
	Abundance (0 – 7)	Notes					
Hollows in trees & stags	\		:				
Fallen logs (>10cm diam.)	フ						
Decorticating bark	2		·				
Course litter (>2cm diam.)	6						
Fine litter (<2cm diameter)	5						
Bare ground	5						
Grass							
Soil cracks							
Stones (20-60cm)	0						
Boulders (61cm-2m)	0						
Large boulders (>2m)	0						
Rock crevices	0						
Exfoliating rock	0						

Abundance key

Site No. Reco	order:	Day/Date:	
Purpose			
Locality: (inc. distance/dir	ection to nearest town)		
GPS coordinates:	Zone 5 E	0 N	Datum:
WIT	1026		
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	3	-	
Fallen logs (>10cm diam.)	5		
Decorticating bark	3		
Course litter (>2cm diam.)	5		
Fine litter (<2cm diameter)	S	·	
Bare ground	5		
Grass	4		
Soil cracks	2		
Stones (20-60cm)	0	·	
Boulders (61cm-2m)	0		
Large boulders (>2m)			
Rock crevices	0		
Exfoliating rock	0		

Abundance key

Site No. Rec	order:	Day/Date:		
Locality: (inc. distance/di	irection to nearest town)			
GPS coordinates:	Zone 5 E	0 N	Datum:	
wit !	037			
	Abundance (0 – 7)	Notes	:	
Hollows in trees & stags	2			
Fallen logs (>10cm diam.)	6			
Decorticating bark	2			
Course litter (>2cm diam.)	6			
Fine litter (<2cm diameter)	6			
Bare ground	3			
Grass	5			
Soil cracks	0		· · · · · · · · · · · · · · · · · · ·	
Stones (20-60cm)	0			
Boulders (61cm-2m)	0			
Large boulders (>2m)	0			
Rock crevices	Ø			
Exfoliating rock	0			

Abundance key

Site No. Rec	order:		Day/Date:	
i e				
Locality: (inc. distance/d	irection to nearest town)			
GPS coordinates:	Zone 5 E	0 N	Datum:	••••
WNT/	95S	WARRENT		
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	2			
Fallen logs (>10cm diam.)	4	-		
Decorticating bark	3			
Course litter (>2cm diam.)	4			
Fine litter (<2cm diameter)	5			
Bare ground	11			
Grass	7			
Soil cracks	0			
Stones (20-60cm)	0			
Boulders (61cm-2m)	Ö			
Large boulders (>2m)	0			
Rock crevices	0			
Exfoliating rock	0			

Abundance key

Site No. Reco	order:		Day/Date:
Locality: (inc. distance/dir	ection to nearest town)		
GPS coordinates:	Zone 5 E	0 N	Datum:
WPT 10	75C .		
	Abundance (0 – 7)	Notes	
Hollows in trees & stags	2		
Fallen logs (>10cm diam.)	4		
Decorticating bark	3		
Course litter (>2cm diam.)	6		
Fine litter (<2cm diameter)	5		
Bare ground	U-		
Grass			
Soil cracks	0		
Stones (20-60cm)	0		
Boulders (61cm-2m)	0		
Large boulders (>2m)	0		
Rock crevices	0		
Exfoliating rock	0		

Abundance key

Site No. Rec	order:			Day/Da	te:		
				1			
Locality: (inc. distance/d	irection to nearest town)				·	·	
GPS coordinates:	Zone 5 E	0	N			Datum:	
WPTI	1059						
	Abundance (0 – 7)	Notes				<u></u>	
Hollows in trees & stags	6				,		
Fallen logs (>10cm diam.)	5						
Decorticating bark	2						
Course litter (>2cm diam.)	6					-	
Fine litter (<2cm diameter)	5						
Bare ground	5						
Grass	5			,			
Soil cracks	3						
Stones (20-60cm)	0			-			
Boulders (61cm-2m)	0						
Large boulders (>2m)	0						
Rock crevices							
Exfoliating rock	9				. 1		

Abundance key

Site No. Reco	order:	Da	Day/Date:					
Purpose						ļ.		
Locality: (inc. distance/di	rection to nearest town)		·		••••	<u> </u>		····
GPS coordinates:	Zone 5 E	0	N_				Datum:	••
WTI	014					•		
	Abundance (0 – 7)	Notes						
Hollows in trees & stags	1							
Fallen logs (>10cm diam.)	5							
Decorticating bark	1							
Course litter (>2cm diam.)	6					:		
Fine litter (<2cm diameter)	6							
Bare ground	3							
Grass	7							
Soil cracks	0	-				:		
Stones (20-60cm)	0	·						
Boulders (61cm-2m)	ð							
Large boulders (>2m)				-				
Rock crevices								
Exfoliating rock								

Abundance key

Site No. Reco	order:	Day/Date:			
Purpose					
Locality: (inc. distance/dir	rection to nearest town)				
GPS coordinates:	· ·	0 N			Datum:
W	(1067				
	Abundance (0 - 7)	Notes			
Hollows in trees & stags	1				
Fallen logs (>10cm diam.)	6			:	
Decorticating bark	5			,	
Course litter (>2cm diam.)	6				
Fine litter (<2cm diameter)	6				
Bare ground	U			:	
Grass	5		:		
Soil cracks	0			:	
Stones (20-60cm)	0			·	
Boulders (61cm-2m)	0				
Large boulders (>2m)	0				
Rock crevices	O				
Exfoliating rock	0				

Abundance key

Site No. Reco	order:		Day/Date:	
Locality: (inc. distance/dir	rection to nearest town)			
GPS coordinates:	Zone 5 E	0 N		Datum:
WIT	1069			
	Abundance (0 – 7)	Notes		
Hollows in trees & stags	1			
Fallen logs (>10cm diam.)	5			
Decorticating bark	1		:	
Course litter (>2cm diam.)	6			
Fine litter (<2cm diameter)	(			
Bare ground	5			
Grass	6			
Soil cracks	3			
Stones (20-60cm)	O			
Boulders (61cm-2m)	U O			
Large boulders (>2m)	O <sup>)</sup>			
Rock crevices	0			
Exfoliating rock				

Abundance key

Site No. Reco	order:	•	Day/Date:				
Purpose			·		*************		
Locality: (inc. distance/dir	rection to nearest town)						
GPS coordinates:	Zone 5 E	0		N□			Datum:
wor 1	124						
	Abundance (0 – 7)	Notes					
Hollows in trees & stags	)						
Fallen logs (>10cm diam.)	1						
Decorticating bark	1						
Course litter (>2cm diam.)	6						
Fine litter (<2cm diameter)	4					:	
Bare ground	4					:	
Grass	- 6			·			
Soil cracks	\$						•
Stones (20-60cm)	0					:	
Boulders (61cm-2m)	0						·
Large boulders (>2m)	0						
Rock crevices	0					:	
Exfoliating rock	0						·

Site No. Reco	order:	Day/Date:				
Purpose						
Locality: (inc. distance/di	rection to nearest town)		1			
GPS coordinates:	Zone 5 E	0   N	Datum:			
WPTII	29					
	Abundance (0 – 7)	Notes				
Hollows in trees & stags						
Fallen logs (>10cm diam.)	3					
Decorticating bark	1					
Course litter (>2cm diam.)	5					
Fine litter (<2cm diameter)	U					
Bare ground	6					
Grass	4		:			
Soil cracks	. 0		:			
Stones (20-60cm)		·				
Boulders (61cm-2m)	0					
Large boulders (>2m)	0					
Rock crevices	0					
Exfoliating rock	0		:			

Abundance key

# Appendix G

Field Survey Site Data: BioCondition Site Sheets

			Biocondition	n Datasheet					
Site ID	914	]					Date	1/1:	2/2020
Observers	Donovan Sha	rp,Matt H							
Site Information: 100x50m Area:									
						Dierogien	Drigalow Bol	t Couth	
Location (GPS referen	GDA94	1				Bioregion	Brigalow Bel	t South	
Datum Zone	55 J	Easting			Northing			1	
Plot origin	333	Lasting		741939	_		7063804		914
Plot centre				74198			7063820		915
Plot Bearing			Plot Alignma	ent Descriptio			7003820		313
Locality	Roma SD 22		FIOL Alignini	ent Descriptio	<u> </u>				
Locality	Noma 3D 22								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	Yuleba State	Forest							
Regional Ecosystem		11.5.1		Median Tree	canopy Heigh	nt (m)	17		
,	Emergent he				Subcanopy h		5	İ	
Site Photos	Plot centre	North	6148	3 South	6149		S		
Photo Numbers		East		) West	6151	İ			
	Plot Origin			other		İ			
Site Photos	See below								
Disturbance					100 x 50m A	rea: Tree SPP	Richness	-	
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus			
Wildfire	na					Callitris gla		Tree Spp. Co	
Prescribed burn	na				_	Angophora			7
Logging	na					Corymbia to			
Treatment	na					Acacia leioo	· · ·		
						Grevillea st			
							na luehmann	li	
Grazing	yes	moderate				ea: Coarse wo	ody Debris		
Non-native plant cove	<5%				Specimen lei	ngth (mm)		1 .	
Erosion	na							site total m	
Regeneration	100%				_				38.5
Storm	na							per ha (m)	
Other (specify)	na								385
50 x 10m Area		Native Plan	it Species Ri	ichness			Total		
Shrub sp.									
	Hovea longi	pes							
	Geijera parv	viflora							
Grass sp.	o o you o pour								
		ut-medusae							
		n caespitosu	JS						
	Aristida calycina  *Cenchrus ciliaris								
	Chrysopogo								
	Aristida ran								
Forbs/other sp.	Solanum ell								
,1	Maireana m								

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G	round Cover							
Ground cover typ	е		1	2	3	4	5	Mean
Native perennial (	preferred and							
intermediate) gras	SS		30	40	50	25	30	35
Native non-prefer	red grass		0	0	0	0	0	0
Native forbs and o	ther species		1	2	2	3	0	1.6
Native shrubs (< 1	m height)		0	0	0	0	0	0
Non-native grass			0	0	0	0	0	0
Non-native forbs	and shrubs		0	0	~	0	0	0
litter			20	40	30	60	70	44
rock			0	0	~	0	0	0
bare ground			49	18	18	12	0	19.4
Cryptograms			0	0	~	0	0	0
Total			100	100	100	100	100	100
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Avg DBH				<u> </u>			
F a a b . ua to	<del>-</del>		RE	4.4	F Donaha	Cua Danaha		
Eucalypts	threshold	4			Euc Benchm	Euc Benchm		
	No. Trees	1	No. Trees >	= Benchma	rk/na I		2	
	Avg DBH							
Non-Eucalypts	threshold		RE		Euc Benchm	Euc Benchm		
	No. Trees	17	No. Trees >	= Benchma	rk/ha		34	
100m Transect: Ti	ree and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)
Distance (m)		Туре	Distance (m	<u> </u>	Туре	Distance (m	<u> </u>	Туре
5-8.5	3.5		0-1.5		SC	3-4		S
9.5-13.5		С	11-12.5		SC	7-8.5	1.5	
26.5-30.5		С	15-16.5		SC	33-36		S
38.5-43	4.5		18-19.5		SC			_
44.5-52	7.5		32-36		SC			
		C			SC			
52.5-55.5			41-44.5					
57-61	4	_	46-47		SC			
64.5-68	3.5		58-59		SC			
69-73	4	С	67-68		SC			
			72-73.5		SC	canopy tota	l	38.5
i		_	75-77	2	SC	subcanopy t	total	21.5
			78-79.5		SC	emergent to		





			Biocondition	Datachoot					
Site ID	916		Biocondition	Datasneet			Date	1/12	2/2020
Observers	Donovan Sha	irp, Matt H							
		μ.,							
Site Information: 100x50m Area:									
Location (GPS referer	nce)					Bioregion	Brigalow Belt	t South	
Datum	GDA94								
Zone	55 J	Easting			Northing				
Plot origin				739017			7061866		916
Plot centre				739065			7061873		917
Plot Bearing	E		Plot Alignme	nt Descriptior	1				
Locality	Roma SD 22								
	Wyena State	Forest							
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description									
Regional Ecosystem		11.5.5		Median Tree	canony Heigh	nt (m)	12		
Regional Ecosystem	Emergent he		14		Subcanopy h		5	+	
Site Photos	Plot centre	North		South	6153			4	
Photo Numbers	Tiot centre	East		West	6155	t			
	Plot Origin		010 :	other	6156	<del>}</del>			
Disturbance	1.00.01.8			01.10.		rea: Tree SPP.	Richness		
	mean fire							1	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	populnea		
Wildfire	na					Callitris glau	ıcophylla	Tree Spp. Coເ	unt
Prescribed burn	na					Eremophila	deserti		5
Logging	na					Eucalyptus	melanophloia	a	
Treatment	na					Grevillea str	iata		
Grazing	yes	moderate			50 x 20m Are	a: Coarse woo	ody Debris		
Non-native plant cove	5.00%				Specimen ler	ngth (mm)		=	
Erosion	na							site total m	
Regeneration	75%								52
Storm	na							per ha (m)	
Other (specify)	na								520
50 x 10m Area		Native Plan	t Species Ric	hness			Total		
Shrub sp.									
	Grevillea sti Maireana m								
	Acacia leioc								
	Acacia deco								
Grass sp.									
	*Cenchrus o								
	Aristida cap Aristida jeri	ut-medusae							
	Eragrostis b								
	Aristida ram								
	Aristida caly								
	Dichanthiun	m sericeum							
, .									
Forbs/other sp.	Abutilar s	Vearning							
	Abutilon ox								
	*Achyranth								
	*Glandulari	a aristigera							
	Dysphania o	carinata							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			10	30	35	25	40	<b>—————————————————————————————————————</b>
Native non-preferr			0	0	0	0	0	
Native forbs and ot	•		5	5	2	2		
Native shrubs (< 1r	n height)		0	0	0		0	
Non-native grass			10	0	0	0	0	
Non-native forbs a	na snrubs		0	0	0	0	0	_
litter rock			50	45 0	25 0	45 0	50	
bare ground			25	20	38	_	7	
Cryptograms			0	0	0	0	0	
Total			100	100	100	9		
100 x 50m Area: La	arge Trees	Plot size	100x 50	100	100x 20	100	100 x 10	100
100 X 30III Alea. La	arge rrees	Euc (E)	100x 30		100x 20		[100 X 10	
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Ava DDII				I			
F l t .	Avg DBH		DE		D	. F D l	= 1.1	
Eucalypts	threshold	2	RE	D 1	1	Euc Benchm		
	No. Trees	3	No. Trees >	= Benchma	rk/na I		6	No Benchmark
	Avg DBH							
Non-Eucalypts	threshold		RE -		4	Euc Benchm		l., <u>.</u>
100 5	No. Trees		No. Trees >			euc >40cm	-	No Benchmark
100m Transect: Tre	ee and Shrub					(SC), Emerge		
Distance (m)	1	Туре	Distance (m		Туре	Distance (m		Туре
0-11	11		21.5-22.5		SC	25-26		S
22.5-29	6.5		28.5-32	3.5		70.5-71.5	1.5	
58-52	4		44-46		SC			
48-52	4		58-60		SC			
55.5-59	3.5	С	60-63.5	3.5	SC			
67-70.5	3.5		74.5-76.5	2	SC			
90.5-96	5.5	С	77-79.5	2.5	SC			
97-99	2	С	82.5-86	3.5	SC			
			88-94		SC			
6.5-9	3	SC	96-96.5	0.5	SC	canopy tota	l	40
10-11		SC	97-100		SC	subcanopy 1		36
15.5-17.5		SC				emergent to		
19-19.5	0.5					shrub total		2.5
10.0	1 0.5	<u> </u>	1	1	I	Jan ab total		1 2.3







Ground

			Biocondition	Datasheet					
Site ID	918						Date	2/12/	/2021
Observers	Donovan Sha	rp,Matt H							
Site Information:									
100x50m Area:									
Location (GPS referer		1				Bioregion	<b>Brigalow Belt</b>	South	
Datum	GDA94				1 .			1	
Zone	55 J	Easting			Northing				04.0
Plot origin				724570			7060177		918
Plot centre	_		81 . 41	724611	J		7060156		919
Plot Bearing	E		Plot Alignme	nt Descriptior	1				
Locality	Roma SD 22								
Regional Ecosystem a	Wilgavale								
Regional Ecosystem a	na rree neigr	ıt .							
Habitat Description	Lancewood o	n rocky rises.	Very dry.						
Regional Ecosystem		11.7.2		Median Tree	canony Heigl	ht (m)	10		
	Emergent he			Tricalan mee	Subcanopy h		10		
Site Photos		North	6157	South	6158				
Photo Numbers	riot centre	East		West	6160	+			
Thoto wanters	Plot Origin	Lust	0133	other	6161	+			
Disturbance	l lot ongin			Other		rea: Tree SPP.	Richness		
2.500.5000	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Acacia shirl	eyi		
Wildfire	na					Eucalyptus	crebra	Tree Spp. Cou	nt
Prescribed burn	na								2
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris		
Non-native plant cove	<1%				Specimen le	ngth (mm)		•	
Erosion	na							site total m	
Regeneration	100%								110
Storm	na							per ha (m)	
Other (specify)	na								1100
50 x 10m Area		Native Plan	t Species Ric	hness			Total		
Shrub sp.	Callibria alar								
	Callitris glau	icopnylia							
Grass sp.									
		ut-medusae							
	Paspalidium	i distans e uncinulata							
	Aristida caly								
	7 11 10 11 11 11 11 11 11								
Forhs/other sp									
Forbs/other sp.	Lomandra n	nultiflora							
	*Sida corru								
	Dysphania d	arinata							
	Solanum ell	ipticum							
	Seringia col	iina							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr			1					
Ground cover type			1	2	3	4	5	Mean
Native perennial (								
intermediate) gras			3	0	0	0	2	
Native non-prefer			0	0	0	0	0	
Native forbs and o			4	0	0	0	1	
Native shrubs (< 1	m height)		0	0	0	0	0	
Non-native grass			0	0	0	0	0	
Non-native forbs a	ind shrubs		0	0	0	0	0	
litter			50	80	90	89	87	79.2
rock			25	5	5	1	2	
bare ground			18	15	5		8	
Cryptograms			100	100	100	100	100	
Total	<b>T</b>	Dist size	100	100	100	100	100	100
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)						
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalynts	threshold		RE	11	Fue Boncha	Euc Benchm	vark	
Eucalypts					1	Euc Benciiii		
	No. Trees		No. Trees >	= Benchma	rk/na I		0	
	Avg DBH				- D '	- D '		
Non-Eucalypts	threshold		RE -			Euc Benchm		
122 =	No. Trees		No. Trees >			(a.a.) =	0	
100m Transect: Tr	ee and Shrub					(SC), Emerge		
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	)	Туре
0-8.5	8.5							
10.5-14.5	4							
15-21.5	6.5							
30-39	9	C						
42-48	6	С						
55-63	8							
64-71		C						
72-74.5	2.5							
76-81	5							
89.5-92	2.5					canopy tota	<u> </u>	59
03.3-32	2.5							39
	+					subcanopy t		
	1					emergent to	otai	
						shrub total		







Ground

			Discondition	Dataskast				
Site ID	920		Biocondition	Datasheet			Date	2/12/2020
Observers	Donovan Sha	rp, Matt H						
Site Information:		•						
100x50m Area:								
Location (GPS referer	nce)					Bioregion	Brigalow Be	It South
Datum	GDA94							
Zone	55 J	Easting			Northing			
Plot origin		-		72351	10		7064327	7 920
Plot centre				72355	58		7064319	9 921
Plot Bearing	E		Plot Alignme	ent Descripti	on	ļ		-
Locality	Roma SD 22			<u> </u>				
	Wilgavale							
Regional Ecosystem a	-	nt						
Habitat Description	Advanced reg	growth 11.9.1	lo. Canopy va	riable 6-14m				
Regional Ecosystem		11.9.10		Median Tre	e canopy Heigh	nt (m)	9	9
	Emergent he		18		Subcanopy h			4
Site Photos		North		South	6164			
Photo Numbers		East		West	6166	<del>-</del>		
	Plot Origin			other	6167	<del>-</del>		
Disturbance					100 x 50m A	rea: Tree SPI	P. Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	populnea	
Wildfire	na					Acacia har	<u>p</u> ophylla	Tree Spp. Count
Prescribed burn	na					Callitris gla	aucophylla	9
Logging	na					Acacia dec	<u>o</u> ra	
						Casuarina	cristata	
						Owenia ac	<u>id</u> ula	
Treatment	na					Eremophila	a deserti	
						Notelaea n	nicrocarpa	
						Corymbia	ntermedia	
Grazing	yes	moderate			50 x 20m Are	a: Coarse wo	oody Debris	
Non-native plant cove	<5%				Specimen ler	ngth (mm)		
Erosion	na							site total m
Regeneration	60%							44
Storm	na							per ha (m)
Other (specify)	na							440
50 x 10m Area		Native Plan	nt Species Ri	chness			Total	
Shrub sp.								
	Atalaya hem							
	Eremophila							
	Geijera parv Citrus glauc							
Grace en	Citi us giauc	<del>a</del>						
Grass sp.	Chloris trun	cata						
	*Cenchrus c							
	Aristida caly							
	Panicum eff	usum						
Forbs/other sp.								
	*Sida corru							
	Abutilon ox Einadia hast							
	Enchylaena							
	Capparis las							
	Sclerolaena							
	Carissa ovat	a						

rock 0 0 0 0 0				Bioconditio	n datasheet	(cont.)				
Native perennial (preferred and intermediate) grass	10 x 10m Plots: G	iround Cover							•	
Intermediate) grass				1	2	3	4	5	Mean	
Native non-preferred grass										
Native forbs and other species					0					2.6
Native shrubs (< 1m height)										0
Non-native grass						_				1
Non-native forbs and shrubs		1m height)								0
Ititer										0
Tock		and shrubs			_		_	_		0
Date ground										51.8
Cryptograms					_	_		_		0
Total										44.6 0
100 x 50m Area: Large Trees					_	•		•		100
Euc (E)   Non-Euc (N)   Diam (cm)		Larga Trans	Diot sizo		100		100			100
Species (N) Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  DBH  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)  Diam (cm)	100 x 50m Area:	Large Trees		100x 50		100x 20		100 X 10		
Species (N) Diam (cm)					DDII					
Avg DBH  Eucalypts threshold No. Trees 3 No. Trees >= Benchmark/ha 6  Avg DBH Non-Eucalypts threshold No. Trees 3 No. Trees >= Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)  Distance (m) Type Distance (m) Type Distance (m) Type				5. ( )	рвн					
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type	Species		(N)	Diam (cm)						
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
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Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type										
Eucalypts threshold RE 47 Euc Benchm Euc Benchmark No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type		Δνσ DRH								
No. Trees 3 No. Trees > = Benchmark/ha 6  Avg DBH Non-Eucalypts threshold No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)  Distance (m) Type Distance (m) Type Distance (m) Type	Fucalynts			DE	47	Fuc Benchn	Fuc Benchm	aark		
Non-Eucalypts threshold RE 32 Euc Benchm Euc Benchmark No. Trees No. Trees > = Benchmark/ha 0  100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S) Distance (m) Type Distance (m) Type Distance (m) Type	Lucarypts		2			1	Luc Benciiii			
Non-Eucalypts threshold No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No. Trees No			3	No. Trees >	= Benchma	rk/na				
No. TreesNo. Trees > = Benchmark/ha0100m Transect: Tree and Shrub Canopy CoverCanopy (C), Subcanopy (SC), Emergent (E), Shrub (S)Distance (m)TypeDistance (m)Type	N			5-	22		- D			
100m Transect: Tree and Shrub Canopy CoverCanopy (C), Subcanopy (SC), Emergent (E), Shrub (S)Distance (m)TypeDistance (m)Type	Non-Eucalypts					4	r Euc Benchm			
Distance (m) Type Distance (m) Type Distance (m) Type			_				(\ -			
		ree and Shrub								
3-9.5   6.5 E  3-3.5   0.5 S							טistance (m	)	туре	
25-39 14 E 13-13.5 0.5 S	25-39	14	E							
16.5-18.5 2 S										
0-2 2 C 41-41.5 0.5 S										
21.5-23 1.5 C 45-45.5 0.5 S	21.5-23	1.5	С	45-45.5	0.5	S				
25.5-29 3.5 C	25.5-29	3.5	C							
30-31.5 1.5 C	30-31.5	1.5	С							
53-64.5 11.5 C	53-64.5	11.5	С							
65-71 6 C										
72-78.5 5.5 C canopy total							canopy tota	<u> </u>		38
87-92 5 C subcanopy total							+			55
							•			20.5
shrub total	JU-J1.J	1.5					-	Jiai		4
Stirub total				<u> </u>			Isun no rorgi		<u> </u>	4



North South



East West



Ground

			Biocondition	Datasheet				
Site ID	922						Date	2/12/202
Observers	Donovan Sha	rp,Matt H						
Site Information:								
100x50m Area:								
Location (GPS referen		1				Bioregion	Brigalow Bel	t South
Datum	GDA94				٦			1
Zone	55 J	Easting		722466	Northing		7062542	
Plot origin				723169			7063542	_
Plot centre	N. 1. 1		DI I AI	723132			7063575	92
Plot Bearing	NW		Plot Alignme	nt Descriptio	<u>n</u>			
Locality	Roma SD 22 Wilgavale							
Regional Ecosystem a		nt						
Habitat Description	11.9.10 youn		ery dry.					
Regional Ecosystem		11.9.10		Median Tree	e canopy Heigl	nt (m)	8	
	Emergent he		18		Subcanopy h		5	•
Site Photos	Plot centre	North		South	6169			1
Photo Numbers		East		West	6171	+		
	Plot Origin			other	6172	+		
Disturbance						rea: Tree SPP.	Richness	
	mean fire							1
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	populnea	
Wildfire	na					Eucalyptus	crebra	Tree Spp. Count
Prescribed burn	na					Callitris gla		
Logging	na					Grevillea st	_	
Treatment	na						n populneus	
Grazing	yes	moderate				ea: Coarse wo	ody Debris	
Non-native plant cove	<2%				Specimen le	ngth (mm)		1
Erosion	na							site total m
Regeneration	100%				_			
Storm	na							per ha (m)
Other (specify)	na			•				5
50 x 10m Area		Native Plan	t Species Ric	chness			Total	
Shrub sp.	Detalection	a pubescens	,					
	Carissa ovat		)					
Grass sp.								
	*Cenchrus o							
	Panicum eff							
	Eragrostis b	ut-medusae						
	Chrysopogo							
	Enteropogo							
F - ub - / - tb - u - u								
Forbs/other sp.	Seringia col	lina						
		alum apicula	atum					
	7							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro	ound Cover		1		1	1		
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			20	15	30		2	
Native non-preferr			0	0	0		0	
Native forbs and ot			0	0		_		
Native shrubs (< 1n	n height)		0	0	0		0	
Non-native grass			0	0	0		_	
Non-native forbs ar	nd shrubs		5	0	2			
litter			30	50	40			
rock bare ground			0 45	35	28		0 88	_
Cryptograms			0	0	0		0	
Total			100	100	100	_		
100 x 50m Area: La	rgo Troos	Plot size	100x 50	100	100x 20	100	100 x 10	100
100 x 50III Area. La	irge rrees		100x 50		100X 20		100 x 10	
		Euc (E)		DDII				
Coorio-		Non-Euc	Diagra ( )	DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE	47	Fuc Benchn	Euc Benchm	nark	
Lucarypts	No. Trees	1	No. Trees >		B	Luc Denemi	2	
	Avg DBH		No. Hees >	- Deficilina	I			
Non Eucalynts	threshold		RE	22	Fue Bonchn	· Eus Boncho	aark	
Non-Eucalypts	No. Trees		No. Trees >			Euc Benchm		
400 T		6				(CC) F	0 ch (E) Ch m h	
100m Transect: Tre	ee and Shrub				1	(SC), Emerge		
Distance (m)		Туре	Distance (m		Туре	Distance (m	l <i>)</i>	Туре
50.5-58	7.5	E	53.5-56		SC			
		_	58-60		SC			
15-18.5	3.5	С	63.5-66.5		SC			
			71.5-76		SC			
11.5-13.5		SC	81-86		SC			
14-15		SC	90-92	2	SC			
22.5-26	3.5	SC	99.5-100	0.5	SC			
31.5-32.5	1	SC						
33-33.5	0.5	SC	45-45.5	0.5	Sh			
34.5-37	2.5					canopy tota	il	3.5
38-38.5	0.5					subcanopy		33.5
40.5-43	2.5					emergent to		7.5
47.5-48.5		SC				shrub total	o cu i	0.5
H1.J-40.J	1 1	عد ا	<u> </u>	<u> </u>		Januan roral		J U.5

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Ground

Site ID	1330	]	Biocondition	Datasheet			Date	2/12/2020
Observers	Donovan Sha							, , , ,
		•						
Site Information: 100x50m Area:								
Location (GPS referen	nce)					Bioregion	Brigalow Belt	South
Datum	GDA94	]				Dioregion	Dilgalow Deli	. 304111
Zone	55 J	Easting			Northing			]
Plot origin	333	Lasting		723650	_		7061368	924
Plot centre				723686			7061331	925
Plot Bearing	E		Plot Alignme		-		7001331	] 323
Locality	Roma SD 22		FIOT Alignine	iit Descriptio				
Locality	Wilgavale							
Regional Ecosystem a								
Regional Ecosystem a	ind Tree neigr	ıı						
Habitat Description	Brigalow low	regrowth						
	Ground cove	r largely abse	nt.					
Regional Ecosystem		11.9.5		Median Tree	canopy Heigh	nt (m)	4	
	Emergent he	ight (m)	10		Subcanopy h	t (m)		
Site Photos	Plot centre	North	6174	South	6175		S	
Photo Numbers		East	6176	West	6177	1		
	Plot Origin			other	6178			
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Acacia harp	ophylla	
Wildfire	na					Casuarina c	ristata	Tree Spp. Count
Prescribed burn	na							2
Logging	na							
Treatment	na							
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris	
Non-native plant cove	<1%				Specimen ler	ngth (mm)		_
Erosion	na							site total m
Regeneration	100							0
Storm	na							per ha (m)
Other (specify)	na							0
50 x 10m Area		Native Plan	nt Species Ric	hness			Total	
Shrub sp.			·					
·	Capparis las							
	Eremophila							
	Citrus glauc							
	Acacia harp Carissa ovat							
	Atalaya hen							
	, tealaya nen	g.aaca						
Grass sp								
Grass sp.	*Cenchrus o	riliaris						
	Panicum eff							
	Chloris trun	cata						
Forbs/other sp.								
	Salsola aust							
	Sclerolaena							
	Sclerolaena							
	Abutilon ox Einadia has							
	Enchylaena							
	*Opuntia to							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr				T		T	1	1
Ground cover type			1	2	3	4	5	Mean
Native perennial (	preferred and							
intermediate) gras	SS		0	2	0	5	0	1.4
Native non-preferi	red grass		0	0	0	0	0	0
Native forbs and o	ther species		3	0	0	10	3	3.2
Native shrubs (< 1	m height)		0	0	0	0	0	0
Non-native grass			0	0	0	0	0	0
Non-native forbs a	ind shrubs		0	0	0	0	0	0
litter			5	0	3	0	80	17.6
rock			0	0	0	0	0	0
bare ground			92	98	97	85	17	77.8
Cryptograms			0	0	0	0	0	0
Total			100	100	100	100	100	100
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH			<u>                                   </u>	
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE	45 = Benchma		Euc Benchn		
	No. Trees		110. 11662 >	- pencillid	NIII		0	
	Avg DBH			_				
Non-Eucalypts	threshold		RE			Euc Benchn		
	No. Trees			= Benchma			0	
100m Transect: Tr	ee and Shrub	Canopy Co		Canopy (C),	Subcanopy (			(S)
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	1)	Туре
68-72	4	E						
1								
11-16.5	5.5	С						
21.5-25	3.5							
55.5-57.5		С						
	_							
65.5-67	1.5							
69.5-71	1.5							
72-75.5	3.5							
78.5-81	2.5	С						
						canopy tota	ıl	20
23.5-24.5	1	S				subcanopy	total	
						emergent to		4
						shrub total		1
						טוויט נטנמו		1 +



North South



East West



Ground

Site ID	940		Biocondition	Datasheet			Date	3/12/2020
Observers	Donovan Sha						Dute	3, 12, 2020
Obscivers	Donovan Sne	arp, water						
Site Information: 100x50m Area:								
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94	1				Ü	U	
Zone	55 J	Easting			Northing			1
Plot origin		_		72636	50		7061132	940
Plot centre				72631	1		7061116	941
Plot Bearing	SW		Plot Alignme					
Locality	Roma SD 22			<u>'</u>				
,	Burnside							
Regional Ecosystem		ht						
Habitat Description								
Regional Ecosystem		11.9.10		Median Tre	e canopy Heigh	nt (m)	9	
	Emergent he		18	1	Subcanopy h		3	
Site Photos	Plot centre	North		South	6205		S	II.
Photo Numbers		East		West	6207	†		
	Plot Origin			other	6208	+		
Disturbance						rea: Tree SPP.	Richness	
	mean fire							1
Туре	scar height	severity	last event	obs type	Tree Species	Acacia harp	ophylla	
Wildfire	na					Eucalyptus p	opulnea	Tree Spp. Count
Prescribed burn	na					Eremophila d	eserti	7
Logging	na					Casuarina d	ristata	
						Atalaya hen	niglauca	
						Eucalyptus	crebra	
Treatment	na					Brachychito	n rupestris	
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris	
Non-native plant cov	er	<1%			Specimen ler	ngth (mm)		_
Erosion	na							site total m
Regeneration		50%						109
Storm	na							per ha (m)
Other (specify)	na							1090
50 x 10m Area	•	Native Plan	t Species Ric	chness	•		Total	•
Shrub sp.								
	Geijera par	viflora						
	Eremophila	ı sp.						
Grass sp.								
		ne uncinulata						
		on acicularis out-medusae						
	Aristiua Cal	Jul-medusae						
Forbs/other sp.								
. 5. 55, 5 cm cm 5p.	Solanum el	lipticum						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			0	0	0	0	0	0
Native non-preferr			0	0	0	0	0	0
Native forbs and ot			0	2	0	0	0	0.4
Native shrubs (< 1n	n height)		0	0	0	0	0	0
Non-native grass			0	0	0	0	0	0
Non-native forbs ar	nd shrubs		0	0	0	0	0	0
litter			88	82	85	40	50	69
rock			2 10	1 15	5 10	10 50	10	5.6 25
bare ground			0	15	0	0	40	0
Cryptograms Total			100	100	100	100	100	100
100 x 50m Area: La	rge Trees	Plot size	100x 50	100	100x 20	100	100 x 10	100
100 x 50III Alea. La	irge rrees		100x 50		100x 20		100 X 10	
		Euc (E)		DBH				
Coories		Non-Euc	Diagram (	חמט				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE	45	Fuc Benchn	Euc Benchn	nark	
	No. Trees		No. Trees >		1	Luc Berieini	0	
	Avg DBH		No. Hees?	Benefilla	I			
Non-Eucalypts	threshold		RE	27	Fuc Benchn	Euc Benchn	aark	
Non-Lucarypts	No. Trees		No. Trees >			Luc Belicilli	36	
100m Transect: Tre		Canony Co				SC), Emerge		
Distance (m)	ee anu siirub		Distance (m		Туре	Distance (m		Type
	5.5	Туре			SC	Distaille (III	<i>)</i>	Type
6.5-12			91-93					
14-35	21		98-100	2	SC			
38.5-40	1.5		40.45.5	-				
42-44.5	2.5		42-43.5	1.5	SC			
46-48.5	2.5							
60-74	14							
76.5-88.5	12							
92.5-93	0.5	С						
38.5-42.5	4	SC				canopy tota	ıl	59.5
60.5-62	1.5	SC				subcanopy	total	12
79-81	2	SC				emergent to		
88-88.5	0.5					shrub total		1.5
		ı	1	1	1			







Ground

			Biocondition	Datasheet				
Site ID	984						Date	4/12/2020
Observers	Donovan Sha	arp, Matt H						
Site Information:								
100x50m Area:								
Location (GPS referer		1				Bioregion	Brigalow Bel	t South
Datum	GDA94	Facting			Northing			1
Zone Plot origin	55 J	Easting		726829	_		7064010	98
Plot centre				72678			7064010	-
Plot Bearing	W		Dlot Alignmo				7005991	.] 30.
Locality	Roma SD 22		Plot Alignme	nt bescriptio	11			
Locality	Burnside							
Regional Ecosystem a		nt						
Habitat Description	11.3.2 low re	egrowth						
Regional Ecosystem		11.3.2		Median Tree	e canopy Heig	ht (m)	5	
	Emergent he		22		Subcanopy h			†
Site Photos	Plot centre	North		South	6279		S	
Photo Numbers		East		West	6281	Ī		
	Plot Origin			other	6282	2		
Disturbance					100 x 50m A	rea: Tree SPP	. Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	populnea	
Wildfire	na							Tree Spp. Count
Prescribed burn	na							
Logging	na							
Treatment	na							
Grazing	yes	moderate				ea: Coarse wo	ody Debris	
Non-native plant cove		<1%			Specimen le	ngth (mm)		1
Erosion	na							site total m
Regeneration		100%						
Storm	na							per ha (m)
Other (specify)	na	Notice Dies	t Consiss Die	- h			Tatal	30
50 x 10m Area		Native Plan	t Species Ric	cnness			Total	
Shrub sp.	Maireana m	nicrophylla						
	Trian cana n	погоријиа						
Grass sp.								
	Dichanthiur							
	Aristida cal	on contortus						
	Aristida can							
Forbs/other siz								
Forbs/other sp.	Sclerolaena	hirchii						
	Seringia col							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G								
Ground cover typ			1	2	3	4	5	Mean
Native perennial (								
intermediate) gras			50	30	25	25		
Native non-prefer			0	0	0	0	1	
Native forbs and o			0	0	0	0	_	
Native shrubs (< 1	.m height)		0	0	0	0		
Non-native grass			0	0	0	0		
Non-native forbs a	and shrubs		0	0	0	0	_	-
litter			40	40	45	15		
rock			0	0	0	0	_	_
bare ground			10	30	28	45		
Cryptograms			100	100	2	15		
Total	<b>T</b>	Dist size	100	100	100	100		100
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)						
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Ava DDII							
	Avg DBH		DE	40		- D		
Eucalypts	threshold		RE		Euc Benchm	Euc Benchn		
	No. Trees	1	No. Trees >	= Benchma	rk/ha		2	
	Avg DBH							
Non-Eucalypts	threshold		RE	NA	Euc Benchn	Euc Benchn	nark	
	No. Trees		No. Trees >					
100m Transect: Ti	ree and Shrub	Canopy Co			Subcanopy (	SC), Emerge	nt (E), Shrub	(S)
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	1)	Туре
2.5-4.5		С						
12-15.5	3.5	С						
38.5-40.5		С						
44-49		C						
51.5-54	2.5							
68.5-72.5		C						
76-78.5	2.5							
95.5-99.5		C						
23.3-23.3	4	C						
CC F CO		66						25.5
66.5-68	1.5					canopy tota		25.5
89.5-91	1.5	SC				subcanopy		3
						emergent to	otal	
						shrub total		
				-				







Ground

			Biocondition	Datasheet					
Site ID	989		Diocondition	Datasileet			Date	4/12	2/2020
Observers	Donovan Sha	arp,Matt H							
		Į.,							
Site Information:									
100x50m Area:	•								
Location (GPS refere		1				Bioregion	Brigalow Bel	t South	
Datum	GDA94	F + i			],,			1	
Zone	55 J	Easting		720520	Northing		7060025		000
Plot origin				728539			7060935	-	989 990
Plot centre	_		Diet Alienese	728580	_		7060962		990
Plot Bearing Locality	E Roma SD 22		Plot Alignme	nt Description	1				
Locality	The Paddock								
Regional Ecosystem a									
Habitat Description	11.3.25 Rem								
Regional Ecosystem		11.3.25		Median Tree	canopy Heigh	nt (m)	23		
Regional Ecosystem	Emergent he			]	Subcanopy h			†	
Site Photos	Plot centre	North	6271	South	6272		S	1	
Photo Numbers		East		West	6274				
	Plot Origin			other	6275				
Disturbance					100 x 50m A	rea: Tree SPP	Richness	_	
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	=		
Wildfire	na					Melaleuca b	-	Tree Spp. Co	
Prescribed burn	na					Acacia harp			4
Logging	na					Eucalyptus	populnea		
Treatment	na				50 · · 20 · · · A · ·		a de Dada		
Grazing	yes 100,00%	moderate				ea: Coarse wo	day Debris		
Non-native plant covered Erosion	100.00%				Specimen le	igui (mini)		site total m	
Regeneration	0%							Site total III	1
Storm	na							per ha (m)	
Other (specify)	na							per na (m)	10
50 x 10m Area	Ind	Native Plan	nt Species Ric	chness			Total		
Shrub sp.									
'	Acacia exce	lsa							
Grass sp.	*Cenchrus	ciliaric							
	Centinus	Liliai is							
Forbs/other sp.									

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro						1	1	
Ground cover type		1	2	3	4	5	Mean	
Native perennial (preferred and								
intermediate) grass		0	0	0	0			
Native non-preferred grass			0	0	0	0		
Native forbs and other species			0	0	0	0		
Native shrubs (< 1m height)			0	0	0	0	_	-
Non-native grass			50	40	60	90		
Non-native forbs and shrubs			0	0	0	0	_	-
litter			45	50	40	10		
rock			5	0	0	0		
bare ground			0	10 0	0	0		
Cryptograms Total			100	100	100	100	_	
	uaa Tuaaa	Diet size		100		100		100
100 x 50m Area: La	rge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)		DDII				
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
					1			
	Avg DBH		RE					
Eucalypts	threshold			49	Euc Benchr Euc Benchr		nark	
	No. Trees	10	No. Trees >	= Benchma	rk/ha 20			
	Avg DBH							
Non-Eucalypts	threshold		RE	29	Euc Benchn	Euc Benchn	nark	
	No. Trees		No. Trees >				0	
100m Transect: Tre		Canopy Cov				SC), Emerge	ent (E), Shrub	
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
0.5-15	14.5			,	71 -		<u>,                                      </u>	,,
31.5-63.5	32							
75-100	25							
7.3-100	25							
27.20		c						
37-38	1	3						
						canopy tota	al	71.5
					subcanopy total emergent total shrub total			
								1
	1							<u></u>





East West



Ground

			Biocondition	Datasheet					
Site ID	989		Diocondition	Datasileet			Date	4/12	2/2020
Observers	Donovan Sha	arp,Matt H							
		Į.,							
Site Information:									
100x50m Area:	•								
Location (GPS refere		1				Bioregion	Brigalow Bel	t South	
Datum	GDA94	F + i			],,			1	
Zone	55 J	Easting		720520	Northing		7060935		989
Plot origin				728539				-	990
Plot centre	_		Dist Alignmen	728580	_		7060962		990
Plot Bearing Locality	E Roma SD 22		Plot Alignme	nt Description	1				
Locality	The Paddock								
Regional Ecosystem a									
Habitat Description	11.3.25 Rem								
Regional Ecosystem		11.3.25		Median Tree	canopy Heigh	nt (m)	23		
	Emergent he			]	Subcanopy h			†	
Site Photos	Plot centre	North	6271	South	6272		S	1	
Photo Numbers		East		West	6274				
	Plot Origin			other	6275				
Disturbance					100 x 50m A	rea: Tree SPP	Richness	_	
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	=		
Wildfire	na					Melaleuca b	<del>-</del>	Tree Spp. Co	
Prescribed burn	na					Acacia harp			4
Logging	na					Eucalyptus	populnea		
Treatment	na				50 · · 20 · · · A · ·		a de Dalada		
Grazing	yes	moderate				ea: Coarse wo	day Debris		
Non-native plant covered Erosion	100.00%				Specimen le	igui (mini)		site total m	
Regeneration	0%							Site total III	1
Storm	na							per ha (m)	
Other (specify)	na							per na (m)	10
50 x 10m Area	Ind	Native Plan	nt Species Ric	chness			Total		
Shrub sp.									
'	Acacia exce	lsa							
Grass sp.	*Cenchrus	ciliaric							
	Centinus	Liliai is							
Forbs/other sp.									

10 x 10m Plots: Ground Cover         Ground cover type       1       2       3       4       5 Mea         Native perennial (preferred and intermediate) grass       0       0       0       0       0         Native non-preferred grass       0       0       0       0       0         Native forbs and other species       0       0       0       0       0         Native shrubs (< 1m height)       0       0       0       0       0	ın
Native perennial (preferred and intermediate) grass       0       0       0       0       0         Native non-preferred grass       0       0       0       0       0         Native forbs and other species       0       0       0       0       0         Native shrubs (< 1m height)       0       0       0       0       0	an
intermediate) grass       0       0       0       0         Native non-preferred grass       0       0       0       0       0         Native forbs and other species       0       0       0       0       0         Native shrubs (< 1m height)	
Native non-preferred grass         0         0         0         0         0           Native forbs and other species         0         0         0         0         0           Native shrubs (< 1m height)	
Native forbs and other species         0         0         0         0           Native shrubs (< 1m height)	0
Native shrubs (< 1m height) 0 0 0 0	0
	0
	0
Non-native grass 50 40 60 90 60	60
Non-native forbs and shrubs  0 0 0 0 0	0
litter 45 50 40 10 20	33
rock         0         0         0         0         0           bare ground         5         10         0         0         20	7
bare ground         5         10         0         0         20           Cryptograms         0         0         0         0         0	0
Total 100 100 100 100 100	100
<b>100 x 50m Area: Large Trees</b> Plot size 100x 50 100x 20 100 x 10	100
Euc (E) Non-Euc DBH	
Species (N) Diam (cm)	
Avg DBH	
Eucalypts threshold RE 49 Euc Benchm Euc Benchmark	
No. Trees 10 No. Trees > = Benchmark/ha 20	
Avg DBH	
Non-Eucalypts threshold RE 29 Euc Benchm Euc Benchmark	
No. Trees No. Trees > = Benchmark/ha	
100m Transect: Tree and Shrub Canopy Cover Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)	
Distance (m) Type Distance (m) Type Distance (m) Type	9
0.5-15 14.5 C	
31.5-63.5 32 C	
75-100 25 C	
37-38 1 S	
canopy total	71.5
subcanopy total	
emergent total	
shrub total	1





East West



Ground

			Biocondition	Datasheet					
Site ID	1007	]	2.000				Date	15/0	2/2020
Observers	Donovan Sha	rn Matt H						257 5	
Observers	DOIIOVAII SIId	irp, iviatt π							
Site Information:									
100x50m Area:									
Location (GPS referer	nce)					Bioregion	Brigalow Belt	t South	
Datum	GDA94								
Zone	55 J	Easting			Northing				
Plot origin		_		731895			7060242		1007
Plot centre				731847	,		7060233		1008
Plot Bearing	W		Plot Alignme	nt Descriptio	า	,		•	
Locality	Roma SD 22								
	Myalla								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	HVR 11.7.2								
Regional Ecosystem		11.7.2		Median Tree	canopy Heigh	nt (m)	8		
	Emergent he				Subcanopy h		2	†	
Site Photos	Plot centre	North	6321	South	6322			J	
Photo Numbers		East		West	6324				
	Plot Origin			other	6325				
Disturbance					100 x 50m A	rea: Tree SPP.	Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Acacia shirl			
Wildfire	na					Eucalyptus		Tree Spp. Co	unt
Prescribed burn	na					Eucalyptus	chloroclada		3
Logging	na								
Treatment	na								
Grazing	yes	moderate				a: Coarse woo	ody Debris		
Non-native plant cove					Specimen ler	ngth (mm)		1	
Erosion	na							site total m	260
Regeneration	100%								360
Storm	na							per ha (m)	2600
Other (specify)	na	Native Dless	t Cassins Die	- h			Tatal		3600
50 x 10m Area		Native Plan	nt Species Ric	nness			Total		
Shrub sp.	Acacia burr	owii							
	Acacia barr	OWII							
Grass sp.									
·	Aristida cap	ut-medusae							
Forbs/other sp.	Lauren								
	Lomandra n Cyperus sp.								
	э, регаз эр.								

			Bioconditio	n datasheet	(cont.)				
10 x 10m Plots: G	Ground Cover								
Ground cover type			1	2	3	4	5	Mean	
Native perennial	• •								
intermediate) gra			10	5	5	0	5		5
Native non-prefe			0	0	0	0	0		0
Native forbs and			0	0	0	0	0		0
Native shrubs (< :			0	0	0	0	0		0
Non-native grass Non-native forbs			0	0	0	0	0		0
litter	and shrubs		30	95	70	55	90		0 68
rock			5	0	5	5	0		3
bare ground			55	0	20	40	5		24
Cryptograms			0	0	0	0	0		
Total			100	100	100	100	100		100
100 x 50m Area:	Large Trees	Plot size	100x 50		100x 20		100 x 10		
		Euc (E)			1000.00				
		Non-Euc		DBH					
Species		(N)	Diam (cm)						
Species		(14)	Diam (cm)						
	Avg DBH								
Eucalypts	threshold		RE	41	Euc Benchn	Euc Benchm	nark		
	No. Trees		No. Trees >	= Benchma	rk/ha		0		
	Avg DBH								
Non-Eucalypts	threshold		RE	26	Euc Benchn	Euc Benchm	nark		
	No. Trees		No. Trees >	= Benchma	rk/ha		0		
100m Transect: 1	Tree and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)	
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	)	Туре	
0-1.5	1.5								
12-16.5	4.5								
30.5-44.5	14								
51-60		С							
61-76	15								
79-81		С							
82.5-86	3.5								
96.5-100	3.5								
- 5.5 - 50	3.3								
						canopy tota	l		53
87.5-89.5	7	SC				subcanopy total			2
U7.J-UJ.J	2	30				emergent to			
42.5-43	0.5	c				shrub total	Jiai		0.5
44.3-43	1 0.5	اح	1	<u> </u>	<u> </u>	Januan roral			0.5







Ground

			Biocondition	Datachoot				
Site ID	1171	]	ыосопаціон	Datasneet			Date	9/02/202
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information: 100x50m Area:								
Location (GPS referen	nce)					Bioregion	Brigalow Belt	t South
Datum	GDA94	]						
Zone	55 J	Easting			Northing			]
Plot origin				735131	Ĭ		7061009	117
Plot centre				735077	-		7061011	117
Plot Bearing	W		Plot Alignme	nt Description	9			
Locality	Roma SD 22			,				
,	Highfield							
Regional Ecosystem a	_	nt						
Habitat Description	Advanced reg	growth						
Regional Ecosystem		11.5.1		Median Tree	canopy Heigh	nt (m)	17	
	Emergent he				Subcanopy h		7	†
Site Photos	Plot centre	North	6624	South	6625		S	
Photo Numbers		East		West	6627	1		
	Plot Origin			other	6628	<del> </del>		
Disturbance						rea: Tree SPP.	Richness	
	mean fire							]
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra	
Wildfire	na					Callitris glau	ucophylla	Tree Spp. Count
Prescribed burn	na							
Logging	na							
Treatment	na							
Grazing	yes	moderate			50 x 20m Are	a: Coarse woo	ody Debris	
Non-native plant cove	<1%				Specimen ler	ngth (mm)		•
Erosion	na							site total m
Regeneration	50%							3
Storm	na							per ha (m)
Other (specify)	na							30
50 x 10m Area		Native Plan	t Species Ric	chness			Total	
Shrub sp.								
		a pubescens						
	Dennamia	unninghami	<u> </u>					
Grass sp.	Aristida can	ut-medusae						
σια33 3μ.	Aristida cap							
	Eragrostis b							
Forbs/other sp.	Fimbristylis							
	Sida corruga							
	Opuntia tor	nentosa*						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) gras			0	10	20	10	15	13
Native non-prefer			0	0	0	0	0	(
Native forbs and o			0	0	0	0	5	-
Native shrubs (< 1	m height)		0	0	0		0	
Non-native grass Non-native forbs a	and chrubs		0	5	0	0 15	5	(
litter	ina snrubs		10	85	65	70	25	51
rock			0	0	03	0	0	(
bare ground			90	0	15	5	50	32
Cryptograms			0	0	0	0	0	(
Total			100	100	100	_	100	100
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)		DBH				
Eucalypts	Avg DBH threshold No. Trees Avg DBH	0	RE No. Trees >		1	Euc Benchm	nark	
Non-Eucalypts	threshold No. Trees		RE No. Trees >	= Benchma	rk/ha	Euc Benchm		
100m Transect: Tr	ee and Shrub					(SC), Emerge		
Distance (m)	1 -	Туре	Distance (m		Туре	Distance (m	)	Туре
19-22.5	3.5			8	С			
26-33		С						
46-51		С						
58-65 84-85		C C						
12-14	2							
15-16	1							
26-28	2							
34-39	5					canopy tota	I	23.5
43-45	2					subcanopy t		17
55-58	3					emergent to		
66-68	2					shrub total		
00 00		<u> </u>	1		1	Januar total		l







Ground

			Biocondition	Datachoot				
Site ID	1171	]	ыосопаціон	Datasneet			Date	9/02/202
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information: 100x50m Area:								
Location (GPS referen	nce)					Bioregion	Brigalow Belt	t South
Datum	GDA94	]						
Zone	55 J	Easting			Northing			]
Plot origin				735131	Ĭ		7061009	117
Plot centre				735077	-		7061011	117
Plot Bearing	W		Plot Alignme	nt Description	9			
Locality	Roma SD 22			,				
,	Highfield							
Regional Ecosystem a	_	nt						
Habitat Description	Advanced reg	growth						
Regional Ecosystem		11.5.1		Median Tree	canopy Heigh	nt (m)	17	
	Emergent he				Subcanopy h		7	†
Site Photos	Plot centre	North	6624	South	6625		S	
Photo Numbers		East		West	6627	1		
	Plot Origin			other	6628	<del> </del>		
Disturbance						rea: Tree SPP.	Richness	
	mean fire							]
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra	
Wildfire	na					Callitris glau	ucophylla	Tree Spp. Count
Prescribed burn	na							
Logging	na							
Treatment	na							
Grazing	yes	moderate			50 x 20m Are	a: Coarse woo	ody Debris	
Non-native plant cove	<1%				Specimen ler	ngth (mm)		•
Erosion	na							site total m
Regeneration	50%							3
Storm	na							per ha (m)
Other (specify)	na							30
50 x 10m Area		Native Plan	t Species Ric	chness			Total	
Shrub sp.								
		a pubescens						
	Dennamia d	unninghami	<u> </u>					
Grass sp.	Aristida can	ut-medusae						
σια33 3μ.	Aristida cap							
	Eragrostis b							
Forbs/other sp.	Fimbristylis							
	Sida corruga							
	Opuntia tor	nentosa*						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) gras			0	10	20	10	15	13
Native non-prefer			0	0	0	0	0	(
Native forbs and o			0	0	0	0	5	-
Native shrubs (< 1	m height)		0	0	0		0	
Non-native grass Non-native forbs a	and chrubs		0	5	0	0 15	5	(
litter	ina snrubs		10	85	65	70	25	51
rock			0	0	03	0	0	(
bare ground			90	0	15	5	50	32
Cryptograms			0	0	0	0	0	(
Total			100	100	100	_	100	100
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)		DBH				
Eucalypts	Avg DBH threshold No. Trees Avg DBH	0	RE No. Trees >		1	Euc Benchm	nark	
Non-Eucalypts	threshold No. Trees		RE No. Trees >	= Benchma	rk/ha	Euc Benchm		
100m Transect: Tr	ee and Shrub					(SC), Emerge		
Distance (m)	1 -	Туре	Distance (m		Туре	Distance (m	)	Туре
19-22.5	3.5			8	С			
26-33		С						
46-51		С						
58-65 84-85		C C						
12-14	2							
15-16	1							
26-28	2							
34-39	5					canopy tota	I	23.5
43-45	2					subcanopy t		17
55-58	3					emergent to		
66-68	2					shrub total		
00 00		<u> </u>	1		1	Januar total		l







Ground

			Biocondition	Datasheet				
Site ID	1229	]	Diocondicion	Dutusneet			Date	10/02/2021
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information: 100x50m Area:								
Location (GPS referen	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94	1				bioregion	brigatow ber	t 30dtii
Zone	55 J	Easting		740573	Northing		7060502	1
Plot origin		]		740527			7060516	
Plot centre								
Plot Bearing			Plot Alignme	nt Description	]			1
Locality	Roma SD 22							
	Romalls Stati	on						
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	young regrwe	oth						
Regional Ecosystem		11.3.25		Median Tree	canopy Heigh	nt (m)	10	
	Emergent he		16		Subcanopy h		5	
Site Photos	Plot centre	North		South	6721	1	S	
Photo Numbers		East	6722		6723	_		
	Plot Origin			other				
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	-	
Wildfire	na					Eucalyptus	-	Tree Spp. Count
Prescribed burn	na					Calllitris gla		4
Logging	na					Alphitonia e	xcelsa	
Treatment	na				FO 20 A		1.5.1.	
Grazing	yes	moderate			i	ea: Coarse woo	ody Debris	
Non-native plant cove					Specimen lei	ngtn (mm)		loito tatal m
Erosion	na 100							site total m
Regeneration Storm	na							29.5
Other (specify)	na							29.3
50 x 10m Area	IIIa	Native Plan	ıt Species Ric	hness			Total	233
Shrub sp.		Tracive Flan	it opecies in	C33			Total	
5 d.2 op.	Acacia leioc	arpa						
	Opuntia tor	nentosa*						
Grass sp.								
G1033 3p.	Cenchrus ci	liaris*						
	Aristida cap	ut-medusae						
	Ophiuros sp	)						
	Megathyrsu	ıs maximus*						
	Paspallidiur Melinis rep							
	Eragrostis s							
		a nepalensis	3					
Forbs/other sp.								
		a aristigera*						
	Jasmimum : Cynathilliun	simplicifoliu	m					
	Solanum sp							
	эсланан эр							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G								
Ground cover typ			1	2	3	4	5	Mean
Native perennial (								
intermediate) gra			30	0	0	25	0	11
Native non-prefer			0	0	0	0	0	
Native forbs and o			0	0	5	0	0	1
Native shrubs (< 1	lm height)		0	0	0	0	0	0
Non-native grass			0	40	10	0	45	19
Non-native forbs	and shrubs		0	0	0	0	0	0
litter rock			60	60	80	10	15 0	45 0
			10	0	5	65	40	0
bare ground Cryptograms			0	0	0	05	0	0
Total			100	100	100	100	100	100
100 x 50m Area: L	argo Troos	Plot size	100x 50	100	100x 20	100	100 x 10	100
100 x 50III Alea. L	arge rrees	1	100x 50		100x 20		100 X 10	
		Euc (E)		DDII				
Consis -		Non-Euc	Diagra ( )	DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
F a a b a t a	_		DE		Cua Danaha	· C. · a Damaha		
Eucalypts	threshold		RE .			Euc Benchm	iark	
	No. Trees	0	No. Trees >	= Benchmai	rk/ha			
	Avg DBH					_		
Non-Eucalypts	threshold		RE			Euc Benchn	nark	
	No. Trees		No. Trees >			0		
100m Transect: Ti	ree and Shrub					SC), Emerge		
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	)	Туре
	10							
		S						
	3	s						
		S						
	11							
		С						
		S						
		С						
	4							
	_							22
						canopy tota		22
						subcanopy		12
						emergent to	otal	
						shrub total		0







Ground

			Biocondition	Datasheet					
Site ID	1232	]	Dioconantion	Dutusiicet			Date	1/0	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information: 100x50m Area:									
Location (GPS referen	200)					Bioregion	Prigalow Pol	t South	
Datum	GDA94	1				Biolegion	Brigalow Bel	t 30utii	
Zone	55 J	Easting		740113	3 Northing		7060235	<u>;</u> ]	
Plot origin		]		740116			7060283	-	
Plot centre				, , , , , ,			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	
Plot Bearing			Plot Alignme	nt Descriptio	⊒ un			_	
Locality	Roma SD 22		1 lot / tilgriffe	nt Descriptio	'''				
Locality	Romalls Stati	on							
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	advanced regrowth								
Regional Ecosystem		11.5.1		Median Tree	e canopy Heigh	nt (m)	6	5	
,	Emergent he		12		Subcanopy h			Ť	
Site Photos	Plot centre	North	6728	South	6729		S		
Photo Numbers		East		West	6731	†			
	Plot Origin			other		İ			
Disturbance					100 x 50m A	rea: Tree SPP.	Richness		
	mean fire							1	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	populnea		
Wildfire	na				Alphitonia ex	Callitris gla	ucophylla	Tree Spp. Co	ount
Prescribed burn	na					Acacia salid	ina		6
Logging	na					Grevillea st	riata		
Treatment	na					Angohpora	leicocarpa		
Grazing	yes	moderate			50 x 20m Are	a: Coarse wo	ody Debris		
Non-native plant cove	80.00%				Specimen ler	ngth (mm)			
Erosion	na							site total m	
Regeneration	100								49.5
Storm	na							per ha (m)	
Other (specify)	na								495
50 x 10m Area		<b>Native Plan</b>	t Species Ri	chness			Total		
Shrub sp.									
	Geijera parv	vifloa							
Grass sp.	Cenchrus ci	liaris*							
·		ut-medusae							
	Eriachne m								
	Eragrostis la								
	Fimbristylis dichotoma Eragrostis brownii								
	Paspallidiur								
	Chloris trun								
5 1 / 1									
Forbs/other sp.	Melhania sp	)							
	Sida corruga								
	Solanum ell	ipticum							
		m americanı	um						
	Solanum co								
	Cheilanthes	seiberi							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G	round Cover							
Ground cover typ			1	2	3	4	5	Mean
Native perennial (	preferred and							
intermediate) gra	SS		0	5	15	10	30	12
Native non-prefer	red grass		0	0	0	0	0	
Native forbs and o	other species		5	5	0	0	0	2
Native shrubs (< 1			0	0	0	0	0	0
Non-native grass			0	15	0	10	0	5
Non-native forbs	and shrubs		35	0	10	0	0	0
litter			45	50	45	75	60	55
rock			0	0	0	0	0	0
bare ground			15	25	30	5	10	0
Cryptograms			0	0	0	0	0	
Total			100	100	100	100	100	100
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)			•			
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
openes		\'''/	Jiaili (CIII)					
	Avg DBH							
F I t -			DE		D	. F D l		
Eucalypts	threshold		RE			Euc Benchm	nark	
	No. Trees	0	No. Trees >	= Benchma	rk/ha	0		
	Avg DBH							
Non-Eucalypts	threshold		RE		4	Euc Benchn	nark	
	No. Trees	0	No. Trees >	= Benchma	rk/ha	0		
100m Transect: T	ree and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
, ,	9	E	,			,		
		С						
		С						
	13.5							
		E						
	4	C						
						canopy tota	I	24.5
						subcanopy t		
						emergent to		13
						shrub total		15
						Siliub total		l
		rhombi —						V AMERICAN AND AND AND AND AND AND AND AND AND A
A A			A CONTRACTOR	W. SA	The state of			
	at the second	.60					4/20	100







Ground

			Biocondition	Datasheet				
Site ID	1242	]	Dioconantion	Datasiicci			Date	10/02/2021
Observers		rp, Heath Agr	new					-, -, -
Site Information: 100x50m Area:								
Location (GPS referer	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94	]				Біогобіон	Brigatow Ber	
Zone	55 J	- Easting		734205	Northing		7055801	]
Plot origin		] 0		734148	_		7055806	1
Plot centre								-
Plot Bearing			Plot Alignme	nt Descriptio	n			1
Locality	Roma SD 22			· .				
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	Myall TEC no	n-functional						
Regional Ecosystem		11.3.2		Median Tree	canopy Heigl	nt (m)		
	Emergent he				Subcanopy h			†
Site Photos	Plot centre	North	6742	South	6743		S	
Photo Numbers		East		West	6745			
	Plot Origin			other		Ī		
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Acacia pend		
Wildfire	na				_	Eremophila o	leserti	Tree Spp. Count
Prescribed burn	na				_			2
Logging	na				_			
Treatment	na							
Grazing	yes	moderate				ea: Coarse wo	ody Debris	
Non-native plant cove					Specimen le	ngth (mm)		1
Erosion	na 100%				+			site total m
Regeneration	100%				+			14
Storm Other (specify)	na na							per ha (m)
50 x 10m Area	IIIa	Native Plan	t Species Ric	hnoss			Total	
Shrub sp.		ivative i iaii	it opecies in				Total	
Grass sp.								
Grass sp.	Aristida caly	/cina						
	Austrostipa							
	*Cenchrus o							
	Sporobolus							
	*Urochloa p Eragrostis b							
	Paspalidium	n distans						
	Panicum eff	fusum						
Forbs/other sp.								
	Sclerolaena							
	Portulaca a Sclerolaena							
	Maireana m							
	Sclerolaena							
	Enchylaena							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass					25			25
Native non-preferre								
Native forbs and ot			2.5	55	35	30	80	40.5
Native shrubs (< 1m	n height)							#DIV/0!
Non-native grass			7.5	15				11.25
Non-native forbs ar	nd shrubs							0
litter			10	10	30	25	15	18
rock			00	20	10	4.5		#DIV/0!
bare ground			80	20	10	45	5	0
Cryptograms Total			100	100	100	100	100	100
	T	Dist size		100		100		100
100 x 50m Area: La	rge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)		DDL				
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
					Τ			
	Avg DBH							
Eucalypts	threshold		RE		Euc Benchm	Euc Benchm	nark	
	No. Trees		No. Trees >	= Benchma	rk/ha		0	
	Avg DBH							
Non-Eucalypts	threshold		RE		Euc Benchm	Euc Benchm	nark	
	No. Trees		No. Trees >	= Benchma	rk/ha		0	
100m Transect: Tre	e and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
26-32	6	C			С	•		
45-53	8							
71-84	13							
94-100		С						
J7 100	"							
						canopy tota		33
						subcanopy t		
						emergent to	otal	
						shrub total		









Ground

			Biocondition	Datasheet					
Site ID	1247	]	Dioconantion	Datasneet			Date	11/0	2/2021
Observers		rp, Heath Agr	new						,
Site Information: 100x50m Area:									
Location (GPS referer	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94					Ü			
Zone	55 J	Easting		735110	Northing		7056212	]	
Plot origin		1		735113			7056199	,	
Plot centre								1	
Plot Bearing			Plot Alignme	nt Description	1			-	
Locality	Roma SD 22								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	regrowth								
Regional Ecosystem		11.3.25		Median Tree	canopy Heigh	nt (m)	10		
,	Emergent he				Subcanopy h		6	+	
Site Photos	Plot centre	North	6749	South	6750		S		
Photo Numbers		East	6751	West	6752				
	Plot Origin			other	3753				
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	<u>-</u> ,	
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus		i i	
Wildfire	na					Callitris glau	ıcophylla	Tree Spp. Co	
Prescribed burn	na								2
Logging	na								
Treatment	na				F0 20 A		ali Dalada		
Grazing	yes	moderate				ea: Coarse woo	dy Debris		
Non-native plant cove					Specimen lei	ngtn (mm)		site total m	
Erosion Regeneration	na 100							Site total III	55.5
Storm	na							per ha (m)	
Other (specify)	na							per na (m)	555
50 x 10m Area	IIIa	Native Plan	t Species Ric	hness			Total		
Shrub sp.			it openies init				Total		
	Dodonaea v	viscosa							
	6 1 1	ı ¥							
Grass sp.	Cenchrus ci Eragrostis c								
		n contortus							
	Aristida jeri	choensis							
	Arisitda rom	nosa							
	Peotis rara Melinis rep	ons*							
	Digitaria div								
	2.8.00.00								
Forbs/other sp.	Fimbrystylis	dichotoma							
	Portulacca p								
	Opuntia ton								
	Abutilon ox Sida corruga								
	Amaranthus	s spinosus*							
	Chrysoceph	alum apicula	atum						
	*Glandulari	a aristigera							

10 v 10m Diatas Crassad				n datasheet	(cont.)				
10 x 10m Plots: Ground	Cover					1	1		
Ground cover type			1	2	3	4	5	Mean	
Native perennial (prefer	rred and								
intermediate) grass			10	15	30	35	0		18
Native non-preferred gr	rass		0	0	0	0	0		0
Native forbs and other s	species		0	0	5	10	5		4
Native shrubs (< 1m hei	ight)		0	0	0	0	0		0
Non-native grass			60	65	0	10	60		39
Non-native forbs and sh	rubs		5	0	0	0	5		0
litter			0	20	60	30	10		24
rock			0	0	0	0	0		0
bare ground			25	0	5	15	20		0
Cryptograms			0	0	0	0	0		
Total			100	100	100	100	100		100
100 x 50m Area: Large 1	Trees	Plot size	100x 50		100x 20		100 x 10		
Species		Euc (E) Non-Euc (N)		DBH			200 X 20		
Eucalypts thre	g DBH eshold Trees	0	RE No. Trees >			Euc Benchm	nark		
Avg Non-Eucalypts thre	g DBH eshold Trees		RE No. Trees >	0	Euc Benchn	Euc Benchm	nark		
100m Transect: Tree an						SC). Fmerge	nt (E), Shrub	(S)	
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре	
Distance (III)	5		בוזנמווכב (ווו	<i>,</i>	· * PC	Distance (III	<i>)</i>	·ypc	
	17.5								
	13.5								
	18								
	2	С							
		· · · · · ·		-					<del></del>
						canoni tat-	1		F.C.
						canopy tota			56
						subcanopy t			
						emergent to	otal		
						shrub total			







Ground

Г									
Site ID	1249		Biocondition	Datasheet			Date	11/02	2/2021
Observers	Donovan Sha	rp. Heath Agi	new					,	,
Site Information:		1, 0	-						
100x50m Area:									
Location (GPS referer	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	]				· ·			
Zone	55 J	Easting		73495	1 Northing		7056259	Л	
Plot origin		1 0		734903			7056204		
Plot centre				70.000			, , , , , , ,	1	
Plot Bearing			Plot Alignme	nt Descriptio	⊒ un			4	
Locality	Roma SD 22		1 lot / tilgrillite	THE DESCRIPTION	···				
Locality	Lagoons stati	ion							
Regional Ecosystem a	-								
negional Ecosystem a	The free heigh	<u> </u>							
Habitat Description	regrowth								
Regional Ecosystem		11.5.5		Median Tree	e canopy Heigh	nt (m)	13		
	Emergent he			]	Subcanopy h		8	<b>-</b>	
Site Photos	Plot centre	North	6754	South	6755		S	1	
Photo Numbers	i loc cellere	East		West	6757	†	J		
i noto ivambers	Plot Origin	Lust	0730	other	0737				
Disturbance	l loc origin			other	100 x 50m A	rea: Tree SPP	Richness		
Distarbance	mean fire				100 X 30111 X	lea. Tree 311		Ī	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	melanophloi	a	
Wildfire	na	,				Angophora le	•	Tree Spp. Co	unt
Prescribed burn	na					Callitris galuc			
Logging	na					Eucalyptus			
Treatment	na					Lucalypiac	popiarioa		4
Grazing	yes	moderate			50 x 20m Are	ea: Coarse wo	ody Dehris	4	<u>.</u>
Non-native plant cove	1	moderate			Specimen lei		ody Debilo		
Erosion	na				эрссиненте	18611 (111111)		site total m	
Regeneration	100				-			Site total III	14
Storm	na				-			per ha (m)	
Other (specify)	na							per na (m)	140
50 x 10m Area	IIa	Native Plan	ıt Species Ri	chnoss			Total		140
Shrub sp.		ivative Flai	it species ni	Cilless			TOtal		
Siliub sp.	Petalostigm	a nuhscens							
	Geijera parv								
	Psydrax olie								
	Acacia deco								
	Notloaea lo	ngfolia							
_		1							
Grass sp.	Cenchrus ci								
	Heteropgon Parotis rara								
	Eragrostis b								
	Aristida hola								
	Panicum eff								
	Urochloa m	ombasciens	is*						
- 1 / .1									
Forbs/other sp.	Chyrocepha		tum	Opuntia to					
	Fimbrystilis Cheilanthes			Dysphania Cyprus diff					
	Lomandra s			Cyprus diff Comelina d					
	Sclerolaena			Einadia has					
	Portulacca a			Solanum e					
	Clandrinia s			Sida corrug					

			Bioconditio	n datasheet	(cont.)				
10 x 10m Plots: G	round Cover								
Ground cover typ			1	2	3	4	5	Mean	
Native perennial (	preferred and								
intermediate) gra	SS		0	О	20	0	0		4
Native non-prefer			0	0	0	0	0		0
Native forbs and			3	55	35	30	80		40.6
Native shrubs (< 1			0	0	0	0	0		0
Non-native grass	<u> </u>		7	15	0	0	0		4.4
Non-native forbs	and shrubs		0	0	0	0	0		0
litter			10	10	30	25	15		18
rock			0	0	0	0	0		0
bare ground			80	20	15	45	5		33
Cryptograms			0	0	0	0	0		0
Total			100	100	100	100	100		100
100 x 50m Area: I	arge Trees	Plot size	100x 50		100x 20		100 x 10		
		Euc (E)							
		Non-Euc		DBH					
Species			Diam (ans)	10011					
Species		(N)	Diam (cm)						
	Avg DBH								
F a a b . m t a			 	_	Cua Danaha	. C a Damaha	ul.		
Eucalypts	threshold		RE			Euc Benchn	nark		
	No. Trees	0	No. Trees >	= Benchma	rk/ha				
	Avg DBH								
Non-Eucalypts	threshold		RE	0	Euc Benchn	Euc Benchn	nark		
	No. Trees	0	No. Trees >	= Benchma	rk/ha				
100m Transect: T	ree and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy	(SC), Emerge	nt (E), Shrub	(S)	
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре	
= :5:5:::05 (111)	2	s	= .5.5		1.75	(11		. , , , ,	
	3.5								
	15								
	20								
	4	С						1	
	1	S							
								<del> </del>	
							.1		
	1					canopy tota			4
	1					subcanopy			41.5
						emergent to	otal		
						shrub total			
	•								







Ground

			Biocondition	Datasheet				
Site ID	1255		Diocondition	Datasneet			Date	11/02/2021
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information:								
100x50m Area:								
Location (GPS referer		1				Bioregion	Brigalow Bel	t South
Datum	GDA94	F = a + i = =		725100			7050577	Л
Zone Plot origin	55 J	Easting		735105	Northing		7056577 7056616	-
Plot origin				755077			7030010	
Plot Bearing			Dlot Alignmo	nt Descriptio	_			1
Locality	Roma SD 22		FIOT Alignine	nit Descriptio	11			
Locality	Noma 3D 22							
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	young regrov	vth						
Regional Ecosystem		11.5.5		Median Tree	canopy Heigl	nt (m)	6	i
	Emergent he			]	Subcanopy h			
Site Photos	Plot centre	North	6762	South	6763		S	1
Photo Numbers		East		West	6765			
	Plot Origin			other		Ī		
Disturbance					100 x 50m A	rea: Tree SPP	. Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus		i e
Wildfire	na					Callitris gla		Tree Spp. Count
Prescribed burn	na						na leuhmanii	4
Logging	na					Angophora	leiocarpa	
Treatment	na							
Grazing	yes	moderate				ea: Coarse wo	ody Debris	
Non-native plant cove					Specimen lei	ngth (mm)		1
Erosion	na							site total m
Regeneration	100				_			36
Storm Other (specify)	na							per ha (m) 360
Other (specify)  50 x 10m Area	na	Native Dlan	t Species Bi	chnoss			Total	300
Shrub sp.		Native Plai	it Species Ri	Lilliess			TOLAI	
Siliub sp.	Psydrax odd	orata						
	Petalostigm	a pubescens	5					
	Alstonia cor	nstricta						
	6 1 .	ı ¥						
Grass sp.	Cenchrus ci Paspallidiur							
	Eragrostis b							
	Aristida ram	nosa						
	Aristida caly							
	Chrysopogo Eriachne m	n fallax						
	Eriachne mi	ucronata						
Forbs/other sp.	Solanum sp							
	Portulacca							
	Sida corruga	ata						
	Corchorus t							
	Evolvulus al Fimbristylis							
	Cyperus exa							
	Opuntia tor							
	Comelina di							

			Bioconditio	n datasheet	(cont.)				
10 x 10m Plots: Gr									
Ground cover type			1	2	3	4	5	Mean	
Native perennial (p									
intermediate) gras			60	25	15	15	30		29
Native non-preferr			0	0	0	0	0		0
Native forbs and o			0	0	0	0	0		0
Native shrubs (< 1	m neight)		0	0	0	0	0		0
Non-native grass Non-native forbs a	nd chrubs		5	5	0	0	0		0 2
litter	110 3111 0.03		20	30	50	20	40		32
rock			0	5	0	5	0		2
bare ground			15	35	35	60	30		35
Cryptograms			0	0	0	0	0		0
Total			100	100	100	100	100		100
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10		
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH					
Eucalypts	Avg DBH threshold No. Trees Avg DBH	0	RE No. Trees >	= Benchma	rk/ha	Euc Benchm			
Non-Eucalypts	threshold No. Trees	0	RE No. Trees >			Euc Benchm	nark		
100m Transect: Tr						SC), Emerge	nt (E), Shrub	(S)	
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре	
	4	С							
		s							
		С							
	8								
	3								
	1.5								
	_	С							
		С							
	5								
	1					canopy tota	l		25
						subcanopy t		1	11.5
						emergent to		_	
						shrub total	<del></del> -		0
	1	<u> </u>	<u>l</u>	l	1	5.11 do total		I	







Ground

Site ID	1278	1	Bioconditio	n Datasheet			Date	11/02/2021
Observers		rp, Heath Agr	new					
		17 0						
Site Information: 100x50m Area:								
Location (GPS referer	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94					Ü	U	
Zone	55 J	Easting		736089	Northing		7058554	l.
Plot origin				736043	_		7058864	,
Plot centre					1			
Plot Bearing			Plot Alignm	ent Descriptio	n			_
Locality	Roma SD 22			·				
	Lagoons Stat	ion						
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	remnant							
Regional Ecosystem		11.3.2		Median Tree	canopy Heig	ht (m)	18	;
	Emergent he	ight (m)			Subcanopy h	nt (m)	7	
Site Photos	Plot centre	North		South			S	
Photo Numbers		East		West				
	Plot Origin			other				
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Euclayptus		
Wildfire	na				4	Allocasuarina		Tree Spp. Count
Prescribed burn	na				_	Callitris glauco	ophylla	3
Logging	na				_			
Treatment	na					_		
Grazing	yes	moderate				ea: Coarse woo	ody Debris	
Non-native plant cove					Specimen le	ngth (mm)		1
Erosion	na							site total m
Regeneration	66%							25
Storm	na							per ha (m)
Other (specify)	na	Nation Diag	+ C	! - l			T-4-1	250
50 x 10m Area		Native Plan	it Species K	icnness			Total	
Shrub sp.	Geijera parv	viflora						
	Grevillea st							
	Eremophila							
Grass sp.	Cenchrus ci							
		ut-medusae						
	Eragrostis b	n acicularis						
	Liagiostis b	II OWIIII						
Faula /athau au	C	lkak						
Forbs/other sp.	Cyperus exa							
	Einadia trig							
	Cheilanthes	seiberi						
		dochotoma						
	Solanum ell							
	Sida corruga Nyssnathes							
	I vy sanatnes	Ciccia						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G	round Cover							
Ground cover typ			1	2	3	4	5	Mean
Native perennial (	preferred and							
intermediate) gra	SS		30	10	10	45	10	21
Native non-prefer	red grass		0	0	0	0	0	0
Native forbs and o	other species		5	5	5	5	0	4
Native shrubs (< 1	.m height)		0	0	0	0	0	0
Non-native grass			10	0	0	0	5	3
Non-native forbs	and shrubs		0	0	0	0	0	0
litter			45	45	40	25	65	44
rock			0	0	5	0	5	2
bare ground			10	40	40	25	15	26
Cryptograms			0	0	0	0	0	~
Total			100	100	100	100	100	100
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH				
Eucalypts	Avg DBH threshold No. Trees		RE No Trees	= Benchmai		Euc Benchm	nark 0	
	Avg DBH		No. Hees >	- benefilia	KyTia			
Non-Eucalypts	threshold		RE		Fuc Benchm	Euc Benchm	nark	
Tron Eucarypts	No. Trees		-∔	= Benchma		Luc Delicilli	0	
100m Transect: T		Canony Ca				SC), Emerge		
	iee anu siirub					Distance (m		
Distance (m)	1 2	Туре	Distance (m	<u>)</u>	Туре	טוטנמוונע (ווו	<i>)</i>	Туре
		S	1					
	_	S						
	29							
		С						
	4	S						
	5	S						
	3.5							
		s						
		С	1					
			<del> </del>			canopy tota	ļ .l	17.5
			1			subcanopy t		40
						emergent to	otai	
shrub total					1			







Ground

			Biocondition	Datasheet					
Site ID	1328		Biocondition	Datasileet			Date	11/02	2/2021
Observers	Donovan Sha	arp, Heath Agr	new						
Site Information: 100x50m Area:									
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	1				Ü	U		
Zone	55 J	Easting		735137	Northing		7055345		
Plot origin		_		735090	)		7055327		
Plot centre									
Plot Bearing			Plot Alignme	nt Descriptio	n	L		ш	
Locality	Roma SD 22								
	lagoons								
Regional Ecosystem a	nd Tree heigl	ht							
Habitat Description	remnant								
Regional Ecosystem		11.3.25		Median Tree	canopy Heigl	ht (m)	16	;	
20.21.2. 2003/300111	Emergent he			]	Subcanopy h		10	1	
Site Photos	Plot centre	North	6804	South	6805		S	4	
Photo Numbers	r lot centre	East		West	6807		3		
Thoto ivallibers	Plot Origin	Lust	0000	other	0007	†			
Disturbance	Tiot Origin			other	100 v 50m A	rea: Tree SPP.	Richness		
Distarbance	mean fire				100 X 30111 X	1100 311	THEITIESS	Ī	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	camaldulens	sis	
Wildfire	na				·	Euclayptus p		Tree Spp. Cou	unt
Prescribed burn	na					Melaleuca vin	_		
Logging	na					Acacia salid	ina		
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris	11.	
Non-native plant cove	er				Specimen le		,		
Erosion	na					<u> </u>		site total m	
Regeneration									5.5
Storm	na							per ha (m)	
Other (specify)	na								22
50 x 10m Area		Native Plan	t Species Ric	hness			Total		
Shrub sp.									
	Geijrea par	vflora							
	Vachellia fa	rnesiana*							
	2.4								
Grass sp.	Themeda tr	us maximus*							
		m sericeum							
		la nepaliensi	 S						
	Cenchrus ci								
Forbs/other sp.	Portulacca	australis							
Total of the sp.		n americanui	m						
	Maireana n								
	Schlerolaen	na brichii							
	Sida corrug								
	*Glandulari	ia aristigera							
	Lomandra h								
		ialum aplicul	ata						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro							1	
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			90	85	65	35	<del></del>	
Native non-preferr			0	0	0	0		_
Native forbs and ot			0	0	25	0		
Native shrubs (< 1r	n height)		0	0	0	0		-
Non-native grass			0	0	0	0		
Non-native forbs a	nd shrubs		0	0	0	0	0	_
litter			5	10	5	30		
rock			0	0	0	0	0	
bare ground			5	5	5	35		
Cryptograms Total			100	100	100	100	_	
		DI-+ -:	100	100	100	100		100
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH				
species		(IV)	Diaili (Cili)					
	Avg DBH							
Eucalypts	threshold		RE		Euc Benchm	Euc Benchn	nark	
, .	No. Trees	8	No. Trees >	= Benchma	rk/ha			
	Avg DBH				•			
Non-Eucalypts	threshold		RE		Fuc Benchm	Euc Benchn	nark	
Lucalypts	No. Trees	1	No. Trees >	= Renchma		Luc Dellelli	IGIK	
100m Transect: Tro				Canopy (C),		SC) Emergo	nt (F) Shrub	\ (S)
Distance (m)	ce and Jiliub	Туре	Distance (m		Туре	Distance (m		Type
Distance (III)	-		טוטנמוונפ (ווו	1	Type	טוטנמוונע (ווו	' <i>I</i>	Type
	5							
	8							
	50							
	1							
	1							
						canopy tota	i İ	63
						subcanopy		
						emergent to		
	†					shrub total		
	1	<u> </u>	<u> </u>			Sin up total		l







Ground

Site ID	1330	7	Biocondition	Datasheet			Date	12/02	/2021
Observers	Donovan Sha	rp, Heath Agr	new						-
Site Information: 100x50m Area:									
Location (GPS referen	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	1				- 0 -	0		
Zone	55 J	Easting		723202	Northing		7062793	1	
Plot origin		]		726209			7062760	-	
Plot centre									
Plot Bearing	NW		Plot Alignme	nt Descriptior				1	
Locality	Roma SD 22		110071116111116	THE DESCRIPTION					
	Burnside Stat	tion							
Regional Ecosystem a									
Regional Ecosystem o	The free fielgr								
Habitat Description	remnant								
Regional Ecosystem		11.9.10		Median Tree	canopy Heigh	nt (m)	14		
20 2 2 22 2 2 2 2 3 2 3 2 3 2 3 2 3 2 3	Emergent he				Subcanopy h		9	+	
Site Photos	Plot centre	North	6809	South	6810		S		
Photo Numbers		East		West	6812	+			
	Plot Origin			other	6813	+			
Disturbance				other		rea: Tree SPP.	Richness		
2.500.201100	mean fire							1	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	populnea		
Wildfire	na					Acacia harp	-	Tree Spp. Cou	unt
Prescribed burn	na					Casuarina cris	tata		3
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris	•	
Non-native plant cove	< 5				Specimen lei	ngth (mm)			
Erosion	na							site total m	
Regeneration	100								104
Storm	na							per ha (m)	
Other (specify)	na							` ` `	1040
50 x 10m Area		Native Plan	t Species Ric	hness			Total		
Shrub sp.			•						
	Geijera par	vflora							
	Eremophila								
	Carissa ovat	ta							
Grass sp.									
	Eragrostis b	rownii							
Forbs/other sp.									

			Biocondition datasheet (cont.)							
10 x 10m Plots: G			1			1		T		
Ground cover typ	e		1	2	3	4	5	Mean		
Native perennial (										
intermediate) gra			0	0	0	0	0			
Native non-prefer			0	0	0	0	0			
Native forbs and o			0	0	0	0	0			
Native shrubs (< 1	lm height)		0	0	0	0	0			
Non-native grass Non-native forbs	and chrubs		0	0	0	0	0	0		
litter	and shrubs		90	70	40	75	80			
rock			4	5	15	10	10	8.8		
bare ground			6	25	45	15	10	20.2		
Cryptograms			0	0	0	0	0	0		
Total			100	100	100	100	100	ŭ		
100 x 50m Area: l	arge Trees	Plot size	100x 50		100x 20		100 x 10			
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH						
Eucalypts	Avg DBH threshold No. Trees	1	RE No. Trees >		Euc Benchn rk/ha	Euc Benchn	nark			
Non-Eucalypts	Avg DBH threshold No. Trees		RE No. Trees >	= Benchma						
100m Transect: T	ree and Shrub				Subcanopy (					
Distance (m)		Туре	Distance (m		Туре	Distance (m	)	Туре		
	3				SH					
		С			SH					
	4	С			SH					
	2	С			SH					
	4	S		1	SH					
				22	SH					
						canopy tota	! 	7		
						subcanopy		7		
						emergent to		<u> </u>		
						shrub total	Jiui	59		
				<u> </u>	I	ואוט נטנאו		1 59		







Ground

			Piocondition	Datashoot				
Site ID		1	Biocondition	Datasneet			Date	12/02/202
	- CI						Dute	12/02/202
Observers	Donovan Sha	irp, Heath Agr	new					
Site Information: 100x50m Area:								
Location (GPS referen	nce)	_				Bioregion	Brigalow Bel	t South
Datum	GDA94				_			_
Zone	55 J	Easting		725449	Northing		7063082	!
Plot origin				725498	3		7063085	
Plot centre								
Plot Bearing	1		Plot Alignme	nt Descriptio	n			
Locality	Roma SD 22							
	<b>Burnisde Stat</b>							
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	advanced reg	growth						
Regional Ecosystem		11.5.5		Median Tree	e canopy Heig	ht (m)	12	,
	Emergent he			]	Subcanopy h		3	-
Site Photos	Plot centre	North	6614	South	6615		S	
Photo Numbers		East		West	6617	7		
	Plot Origin			other	6618	3		
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	-	i e
Wildfire	na					Eucalyptus	-	Tree Spp. Count
Prescribed burn	na					Acacia harp	ophylla	
Logging	na							
Treatment	na							
Grazing	yes	moderate			50 x 20m Ar	ea: Coarse woo	ody Debris	
Non-native plant cove	<5				Specimen le	ngth (mm)		1
Erosion	na							site total m
Regeneration	100							5
Storm	na							per ha (m)
Other (specify)	na						<del>-</del>	54
50 x 10m Area		Native Plan	t Species Ri	chness			Total	
Shrub sp.	Geijera parv	viflora						
	Santalum la	nceolatum						
	Eremophila							
	Acacia deco							
	Citrus glauc	а						
Constant	A minetial on and	, al a a						
Grass sp.	Aristida caly Chloris trun							
	Cenchrus ci							
	Enteropogo	n acicularis						
	Panicum eff							
	Paspallidiun							
	Sporobolus	caron						
Forbs/other sp.	Malvastrum	americanui	m	Boerhavia	dominii			
	Sclerolaena	birchii						
	Abutilon ox							
	Maireana m Sida sp	nicrophylla						
	Harrissia ma	artini*						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			65	0	15	15	0	19
Native non-preferr			0	0	0	0	0	0
Native forbs and of			10	0	10	15	0	7
Native shrubs (< 1r	n height)		0	0	10	0	0	2
Non-native grass			0	0	0	0	0	0
Non-native forbs a	nd shrubs		0	0	0	0	0	0
litter			20	35	50	50	10	33
rock			5	0 65	0 15	20	90	39
bare ground Cryptograms			0	0	0	0	0	0
Total			100	100	100	100	100	100
100 x 50m Area: La	argo Troos	Plot size	100x 50	100	100x 20	100	100 x 10	100
Species	arge rices	Euc (E) Non-Euc (N)	Diam (cm)	DBH	100X 20		100 X 10	
Eucalypts  Non-Eucalypts	Avg DBH threshold No. Trees Avg DBH threshold No. Trees	0	RE No. Trees > RE No. Trees >	= Benchma	rk/ha      Euc Benchn  rk/ha	Euc Benchm	nark	
100m Transect: Tro	ee and Shrub					(SC), Emerge		
Distance (m)		Туре	Distance (m		Туре	Distance (m	)	Туре
	9				sh			
	6	С		1	sh			
	14	С		1	sh			
	7	С						
						canony tota	<u> </u> .I	36
						canopy tota		36
						subcanopy		
						emergent to	otal	
						shrub total		







Ground

Site ID	1334	]	Biocondition	Datasheet			Date	12/02/2021
Observers	Donovan Sha	rp, Heath Agr	new					, ,
		17						
Site Information: 100x50m Area:								
Location (GPS referer	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94					Ü	U	
Zone	55 J	Easting		725519	Northing		7063031	
Plot origin		<u> </u>		725571			7063041	
Plot centre								
Plot Bearing			Plot Alignme	nt Descriptior	<u>l</u> 1			1
Locality	Roma SD 22			<u>'</u>				
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	advanced reg	growth						
Regional Ecosystem		11.9.10		Median Tree	canony Heigh	nt (m)	9	
Regional Ecosystem	Emergent he			]	Subcanopy h			1
Site Photos	Plot centre	North	6819	South	6820		S	
Photo Numbers		East	6821		6822			
	Plot Origin			other	6823	7		
Disturbance						rea: Tree SPP.	Richness	
	mean fire							]
Туре	scar height	severity	last event	obs type	Tree Species	Acacia harp	ophylla	
Wildfire	na					Eucalyptus	populnea	Tree Spp. Count
Prescribed burn	na							2
Logging	na							
Treatment	na							
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris	
Non-native plant cove	< 1				Specimen lei	ngth (mm)		-
Erosion	na							site total m
Regeneration	100							77
Storm	na							per ha (m)
Other (specify)	na							770
50 x 10m Area		Native Plan	it Species Ric	chness			Total	
Shrub sp.								
	Geijera parv							
	Citrus glauc Eremophila							
	Етеппорина	mittenenn						
Grass sp.	Aristida Hol	athera						
	Paspallidiur							
	Chloris trun							
		e uncinulata	1					
	Sporobolus Enteropogo							
	Aristida caly							
Forbs/other sp.	Sclerolaena	birchii						
21.25, 20.15. Sp.	Harissia ma							
	Solanum ell	ipticum						
	Abuliton ox							
	Comellina d	lifusa						

Total				Bioconditio	n datasheet	(cont.)			
Native perennial (prefered and intermediate) grass	10 x 10m Plots: Gro	ound Cover							
Intermediate   grass				1	2	3	4	5	Mean
Native non-preferred grass  Native forbs and other species  Native forbs and other species  Native forbs and other species  Non-native grass  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0									
Native forbs and other species				0	0	5	10	0	3
Native shrubs (c 1m height)					0	0		_	0
Non-native grass				20	5	0	5	15	9
Non-native forbs and shrubs		n height)		0	0	0		_	0
Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Section   Sect				_		_			0
Total		nd shrubs				~		~	0
Dare ground									87
Cryptograms								_	0
Total						_			1
100 x 50m Area: Large Trees					9	ŭ		~	0
Euc (E)   Non-Euc (N)   Diam (cm)					100		100		100
Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-Euc   Non-	100 x 50m Area: La	rge Trees		100x 50		100x 20		100 x 10	
Eucalypts	Species		Non-Euc		DBH				
Eucalypts									
Eucalypts									
Eucalypts									
Non-Eucalypts   threshold   No. Trees   Euc Benchm Euc Benchmark	Eucalypts	threshold No. Trees	0		= Benchma		Euc Benchm	nark	
Distance (m)         Type         Distance (m)         Type         Distance (m)         Type           3.5 c         1 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c <t< td=""><td>Non-Eucalypts</td><td>threshold</td><td>0</td><td></td><td>= Benchma</td><td></td><td>Euc Benchm</td><td>nark</td><td></td></t<>	Non-Eucalypts	threshold	0		= Benchma		Euc Benchm	nark	
Distance (m)         Type         Distance (m)         Type         Distance (m)         Type           3.5 c         1 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c         3 c <t< td=""><td>100m Transect: Tre</td><td>ee and Shrub</td><td>Canopy Co</td><td>ver</td><td>Canopy (C),</td><td>Subcanopy (</td><td>SC), Emerge</td><td>nt (E), Shrub</td><td>(S)</td></t<>	100m Transect: Tre	ee and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)
3.5 c									
1 c		3.5							
3 c 9 c 9 c 9 c 9 c 9 c 9 c 9 c 9 c 9 c									
9 c 3.5 c 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5									
3.5 c									
15 c									
12.5 c									
6 c									
7 s canopy total 62.									
1 c canopy total 62.									
,									62.5
2 c subcanopy total									7
6 c emergent total		6	С					otal	
shrub total						· · · · · ·	shrub total		







Ground

6:1. 15	1226	1	Biocondition	Datasheet			5.	42/02/2024
Site ID	1336						Date	13/02/2021
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information: 100x50m Area:								
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94							
Zone	55 J	Easting		727380	Northing		7062930	
Plot origin				727373	1		7062981	
Plot centre								
Plot Bearing			Plot Alignme	nt Description	] )			
Locality	Roma SD 22							
	Burnside Stat	tion						
Regional Ecosystem a								
Habitat Description	11.3.2							
	remnant	T.					1	
Regional Ecosystem		11.3.2		Median Tree	canopy Heigh	nt (m)	18	
	Emergent he	ight (m)			Subcanopy h	t (m)	9	ı
Site Photos	Plot centre	North	6824	South	6825		S	
Photo Numbers		East	6826	West	6827			
	Plot Origin			other	6828			
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	_
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	<del>-</del> '	
Wildfire	na					Geijera parv	/iflora	Tree Spp. Count
Prescribed burn	na							2
Logging	na							
Treatment	na							
Grazing	yes	moderate				a: Coarse wo	ody Debris	
Non-native plant cove	< 1%				Specimen ler	ngth (mm)		-
Erosion	na							site total m
Regeneration	100							70
Storm	na							per ha (m)
Other (specify)	na							700
50 x 10m Area		Native Plan	t Species Ri	chness			Total	
Shrub sp.								
	Geijera parv							
	Eremophila Citrus glauc							
	Capparis las							
	Сарранзназ	narreria						
Grass sp.	Chloris trun	cata						
·	Paspalidium							
	Arisitda ram							
	Aristida caly							
		ut-medusae n ascicularis						
	Sporobolus		<u> </u>					
	30000000	Car Offi						
Forbs/other sp.	Harissia ma	rtinii*						
,	Einadia hast							
	Abutilon ox							
	Sclerolaena							
	Sclerolaena							
	Glandularia Nyssanthes							
	Sida corruga							

			Bioconditio	n datasheet	(cont.)				
10 x 10m Plots: Gro	und Cover								
Ground cover type			1	2	3	4	5	Mean	
Native perennial (pr									
intermediate) grass			2.5	5	5	5			9.5
Native non-preferre			0	0	0	0	0		0
Native forbs and otl			2.5	0	0	2.5	15		4
Native shrubs (< 1m	n height)		0	0	0	0	0		0
Non-native grass			0	0	0	0	0		0
Non-native forbs an	id shrubs		0	0	0	0	0		0
litter			80	55	65	80	30		62
rock			0 15	0 40	30	0 12.5	0 25	,	0 24.5
bare ground Cryptograms			0	0	0	0	0	4	24.5 0
Total			100	100	100	100	100		100
100 x 50m Area: La	rgo Troos	Plot size	100x 50	100	100x 20	100	100 x 10		100
100 x 50III Area. La	ige irees	Euc (E) Non-Euc	100x 50	DBH	100x 20		[100 X 10		
Species		(N)	Diam (cm)	БЫТ					
	Avg DBH								
Eucalypts	threshold		RE		Euc Benchn	Euc Benchm	nark		
	No. Trees	0	No. Trees >	= Benchma	rk/ha				
	Avg DBH								
Non-Eucalypts	threshold		RE		Euc Benchn	Euc Benchm	nark		
	No. Trees	0	No. Trees >	= Benchma	rk/ha				
100m Transect: Tre	e and Shrub	Canopy Cov	/er	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)	
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре	
	30					,			
		s							
	3.5								
	5.5								
	4								
	6								
		С							
		s							
		C							
	1.5					canony tota	<u> </u>		34.5
						canopy tota			
	18	L				subcanopy to		-	16.5
						emergent to	Jidl		
						shrub total			



North South



East West



Ground

Site ID	1348		Biocondition	Datasheet			Date	2/03	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information:									
100x50m Area:							1		
Location (GPS referen	nce)	1				Bioregion	Brigalow Bel	t South	
Datum	GDA94							-	
Zone	55 J	Easting			Northing				
Plot origin				723234	1		7062814		1348
Plot centre				723217	7		7062866		1349
Plot Bearing			Plot Alignme	nt Descriptio	n				
Locality	Roma SD 22								
	Wilgavale								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	11.7.6 regrov	vth. Crebra re	growth with (	Callitris unde	rstorey. Sandy	and rocky.			
Regional Ecosystem		11.7.6		Median Tree	e canopy Heigl	nt (m)	12		
	Emergent he	ight (m)			Subcanopy h	it (m)	8		
Site Photos	Plot centre	North	6856	South	6857	,	S		
Photo Numbers		East	6858	West	6859				
	Plot Origin			other	6860 6861				
Disturbance					100 x 50m A	rea: Tree SPP	. Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra		
Wildfire	na					Callitris gla	ucophylla	Tree Spp. Co	unt
Prescribed burn	na					Corymbia t	essellaris		4
Logging	na					Brachychite	on populneus	,	
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse wo	ody Debris		
Non-native plant cove	<5%				Specimen le	ngth (mm)		=	
Erosion	na							site total m	
Regeneration	100%								19.5
Storm	na							per ha (m)	
Other (specify)	na								195
50 x 10m Area			t Species Ri	chness			Total		
Shrub sp.	Carissa ovat								
		n spinescens							
	Psydrax olei	Ітона							
Grass sp.	Enneapogoi	n truncatus		Fchinopogo	on caespitosı	ıs			
01033 Sp.		aricatissima		Urochloa p	anicoides*				
	Aristida caly			·					
	Eragrostis b								
	Cenchrus ci								
	Aristida jeri Fimbristylis								
	Panicum eff								
	Cymbopogo								
	,								
Forbs/other sp.	Nyssanthes			Commelina					
	Evolvulus al			Euphorbia					
		s scutellario	ides	Dysphania					
	Portulaca sp Solanum ell			Cyperus be Cheilanthe					
		m americani	um	Seringia co					
	TTT ATT USE U	dirici icali		Sida corrug					
				Einadia has					

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro			T				1	
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			25	10	20	15		
Native non-preferre			0	0	0	0		
Native forbs and ot			15	5	5	0	_	
Native shrubs (< 1m	n height)		0	0	0	0		
Non-native grass			0	0	0	0		
Non-native forbs ar	nd shrubs		0	0	0	0	0	_
litter			45	30	30	65	30	
rock			0	0	0	0	_	_
bare ground			15 0	45	45 0	20 0		
Cryptograms Total			100	90	100	100	_	
	T	Districe	100x 50	90	100x 20	100		98
100 x 50m Area: La	rge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE	//0	Euc Benchm	Fuc Benchm	nark	
Lucarypts	No. Trees	0	No. Trees >			Luc Benciiii		
		U	No. Trees >	– belicililai	К/Па		0	
	Avg DBH		DE	22	- D	I		
Non-Eucalypts	threshold		RE		Euc Benchm	Euc Benchn		
	No. Trees		No. Trees >				0	
100m Transect: Tre	e and Shrub			Canopy (C),				
Distance (m)	_	Туре	Distance (m	)	Туре	Distance (m	1)	Туре
3.5-12	8.5							
24.5-28	3.5							
31-37		С						
54-69		С						
91-95	4	С						
0-2	2	S						
15-16	16							
21.5-24	2.5							
29-32		S				canopy tota	 	27
33-46	13					subcanopy		57
50.5-86	36					emergent to		37
30.3-00	30	J					otai	
	1					shrub total		

er i company

OWNER COLUMN TO





East West



Ground

			Biocondition	Datasheet				
Site ID	1340	1	Diocondition	Datasnect			Date	1/03/2021
Observers	Donovan Sha	rn Heath Agi	new/				Dute	1,03,2021
Site Information:	Dollovali Sila	ip, ileatii Agi	IICW					
100x50m Area:								
Location (GPS referen	usa)					Bioregion	Brigalow Beli	t Couth
		1				Bioregion	brigatow bei	t South
Datum	GDA94	F 45						1
Zone	55 J	Easting		72202	Northing		7052002	1240
Plot origin				72293			7062883	-
Plot centre				72294			7062833	1341
Plot Bearing			Plot Alignme	nt Description	on			
Locality	Roma SD 22							
Regional Ecosystem a	nd Tree heigh	nt						
Regional Ecosystem a	na rree neigh	ı.						
Habitat Description	Base of rocky	y jumpup. Re	growth.					
Regional Ecosystem		11.7.6		Median Tre	e canopy Heigh	nt (m)	14	
20.23. 2000/000111	Emergent he			]	Subcanopy h		5	†
Site Photos		North	6834	South	6835	· (···,	S	
Photo Numbers	riot centre	East		West	6837		3	
r noto Numbers	Plot Origin	Last	0830	other	6838	<u> </u> 		
Disturbance	Flot Origin			other	100 x 50m A	roo. Troo SDE	Dichnoss	
Disturbance	mean fire				100 X 50m A	rea: Tree SPF	. Richness	1
Туре	scar height	severity	last event	obs type	Tree Species	Fucalvotus	woollsiana	
Wildfire	na	Severity	last event	obs type	Tree openes	Casuarina	_	Tree Spp. Count
Prescribed burn	na					Oastarina	<u>-</u>	7
						Psydrax ole	_ oifolio	<b>'</b>
Logging	na				_	-	_	
Treatment	na		-			Callitris gla		
						-	n populneus	
					_		n rupestris	
						Eucalyptus	•	
Grazing	yes	moderate			50 x 20m Are		ody Debris	
Non-native plant cove	<5%				Specimen ler	ngth (mm)		7
Erosion	na							site total m
Regeneration	0%							98
Storm	na							per ha (m)
Other (specify)	na							980
50 x 10m Area		<b>Native Plan</b>	nt Species Ric	chness			Total	
Shrub sp.	Carissa ovat							
	Psydrax olei							
	Geijera parv Eremophila							
	Capparis las							
	Сарранзназ	naritira						
Grass sp.	Paspalidium	distans						
·	Cenchrus cil	liaris*						
	Ancistrachn							
	Sporobolus							
	Dactylocten	ium radular	าร					
Forbs/other sp.	Evolvulus al	sinoidos		lacminum	simplicifoliun	,		
i orbs/other sp.	Seringia col				mentosa*			
	Portulaca au			Portulaca				
		tetragonoid	es		microphylla			
	Solanum ell			Harrisia m				
	Sclerolaena			Abutilon o				
	Einadia hast	tata			m americanuı	n		
				Alternanth	nera nana			

				Bioconditio	n datasheet	(cont.)			
Native perennial (prefered and intermediate) grass	10 x 10m Plots: G	round Cover							
Intermediate) grass				1	2	3	4	5	Mean
Native non-preferred grass		-	d						
Native forbs and other species					35				14
Native shrubs (< 1m height)  Non-native grass  Non-native grass  Non-native forbs and shrubs  O 0 0 15 0 2.5 3.5  Non-native forbs and shrubs  O 0 0 0 0 0 0 0 0 1  litter  Do 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0				_	_		_		0
Non-native grass   0									
Non-native forbs and shrubs   S		m height)			_				
Itter				_			_		
Tock		and shrubs				~			
Dare ground									
Cryptograms				_		_	_		_
100   100   100   100   100   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   101   100   100   101   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100									
100 x 50m Area: Large Trees				~	_	~	_	~	_
Euc (E)   Non-Euc (N)   Diam (cm)		auga Tuans	Diet size		100		100		101
Non-Euc	100 x 50m Area: L	arge Trees		100x 50		100x 20		1100 X 10	
Species					DDII				
Avg DBH   RE				D: , ,	NRH				
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C	Species		(N)	Diam (cm)					
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
Eucalypts         threshold         RE         46         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           Non-Eucalypts         threshold         RE         23         Euc Benchm Euc Benchmark           No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C		Avg DRH							
No. Trees	Eucalynto			DE	16	Euc Boncha	· Euc Doncho	aark	
Non-Eucalypts	Eucalypis		0						
Non-Eucalypts         threshold No. Trees         RE         23         Euc Benchm Euc Benchmark           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c           C         13-73         60         60           C         90-97         7         7           C         99-100         1         99-100			U	No. Trees >	= Benchma	rk/na I	U	_	
No. Trees         0         No. Trees > = Benchmark/ha         0           100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c									
100m Transect: Tree and Shrub Canopy Cover         Canopy (C), Subcanopy (SC), Emergent (E), Shrub (S)           Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c           C         13-73         60         C           C         90-97         7         C           C         99-100         1         C	Non-Eucalypts		_						
Distance (m)         Type         Distance (m)         Type         Distance (m)         Type           C         0-2.5         2.5         8 c         C           C         13-73         60         C         C           C         90-97         7         C         C           C         99-100         1         C         C									
C     0-2.5     2.5     8 c       C     13-73     60        C     90-97     7        C     99-100     1		ree and Shrul							
C 13-73 60							Distance (m	1)	Туре
C 90-97 7 C 99-100 1 C			+		8	С			
C 99-100 1			+						
	С	90-97	7						
S 5.5-6.5 1	C	99-100	1						
S 5.5-6.5 1									
	S	5.5-6.5	1						
		1							
canopy total 75		+					canony tota	l	75
		+					1		
		+							1
emergent total							•	otal	
shrub total							shrub total		







Ground

			Discondition	Datashaat					
Site ID	1342	]	Biocondition	Datasneet			Date	1/03/20	)21
Observers	Donovan Sha	rp, Heath Agr	new						
		17							_
Site Information:									
100x50m Area:									
Location (GPS refere	_	1				Bioregion	<b>Brigalow Belt</b>	t South	
Datum	GDA94				1			1	
Zone	55 J	Easting			Northing				
Plot origin				723093	-		7062824		342
Plot centre				723090			7062775	] 13	343
Plot Bearing	-		Plot Alignme	nt Descriptio	n				
Locality	Roma SD 22								
	Wilgavale								
Regional Ecosystem	and Tree heigh	nt							
Habitat Description	Regrowth 11	.7.6. Some re	lictual emerge	ents. Shrub la	yer largely abs	ent. Sandy loa	am rocky.		
Regional Ecosystem		11.7.6		Median Tree	canopy Heigh	nt (m)	13		
,	Emergent he	ight (m)	18		Subcanopy h			1	
Site Photos	Plot centre	North		South	6840		S		
Photo Numbers		East		West	6842	İ			
	Plot Origin			other	6843				
Disturbance						rea: Tree SPP	. Richness		
	mean fire							1	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra		
Wildfire	na					Callitris gla	ucophylla	Tree Spp. Count	
Prescribed burn	na					Eucalyptus	woollsiana		3
Logging	na				1	, ,	_		
Treatment	na				1		_		
Grazing	yes	moderate			50 x 20m Are	a: Coarse wo	ody Debris	•	
Non-native plant cov	e<1%				Specimen ler		•		
Erosion	na							site total m	
Regeneration	0%				1				26
Storm	na				1			per ha (m)	
Other (specify)	na				1			•	260
50 x 10m Area	1	Native Plan	t Species Ric	chness			Total		
Shrub sp.	Bursaria inc								
э э.ж эр	Psydrax ole								
	·								
Grass sp.	Eragrostis b								
	Eragrostis la								
	Enneapogoi	nium radulan	15						
		n robustissin	nus						
	Panicum eff								
		ut-medusae	!						
	Cymbopogo								
	Aristida caly	/cina							
Forbs/others	Nyccanthas	orosta		Cheilanthe	ciobori				
Forbs/other sp.	Nyssanthes Evolvulus al			*Harrisia m					
	Seringia col				m americanı	um			
	Dysphania			Jasminum s	simplicifoliun	1			
	Portulaca a	ustralis		Solanum el	lipticum				
	Salvia plebe			Tragus aust					
	Commelina			Cyperus gra					
	Einadia hast	tata		Cyperus be	dichotoma				
				cypei us ne	LUTTET				

10 x 10m Plots: Grou				n datasheet	,				
	ınd Cover		1	T		T			
Ground cover type			1	2	3	4	5	Mean	
Native perennial (pre	eferred and								
intermediate) grass			80	20	15	10			26
Native non-preferred			0	0	0	0	0		0
Native forbs and other			0	40	5	35	0		16
Native shrubs (< 1m	height)		0	0	0	0	0		0
Non-native grass			0	0	0	0	0		0
Non-native forbs and	l shrubs		0	0	0	0	0		0
litter			10	30	45	15	40		28
rock			0	0	25	40		1	17
bare ground			10	10	10	0	35		13
Cryptograms			0	0	0	0	0		0
Total			100	100	100	100	100		100
100 x 50m Area: Larg	ge Trees	Plot size	100x 50		100x 20		100 x 10		
Species	pecies Euc (E) Non-Euc (N)			DBH					
Eucalypts t	Avg DBH hreshold No. Trees		RE No. Trees >	= Benchma		Euc Benchm	nark 0		
Non-Eucalypts t	Avg DBH hreshold No. Trees		RE No. Trees >	= Benchma		Euc Benchm	nark 0		
100m Transect: Tree	and Shrub	Canopy Co	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)	
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	)	Туре	
1-3	2	E							
13-17	4	С							
17-28.5	11.5								
31-37	6								
37-43	6								
69-73	4								
80-90	10	L							
						canopy tota			41.5
						subcanopy t	total		
		-			-	emergent to	otal		2
						shrub total			
l .			•	•		•		•	

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Ground

			Biocondition	Datasheet					
Site ID	1344						Date	1/03	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information: 100x50m Area:									
Location (GPS referen	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	]				Dioregion	brigatow ber	Journ	
Zone	55 J	Easting			Northing			Ī	
Plot origin	000	]=4006		724756			7060159		1344
Plot centre				724801			7060181		1345
Plot Bearing			Plot Alignme		]			1	
Locality	Roma SD 22								
,	Wilgavale								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description									
Regional Ecosystem		11.7.2		Median Tree	canopy Heigh	nt (m)	10		
	Emergent he			calaii iice	Subcanopy h		6	†	
Site Photos	Plot centre	North	6844	South	6845		S	<u> </u>	
Photo Numbers		East		West	6847	<del> </del>			
	Plot Origin			other	6848	†			
Disturbance					100 x 50m A	rea: Tree SPP.	Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Acacia shirle	- 1		
Wildfire	na					Callitris glau	-	Tree Spp. Co	
Prescribed burn	na						subsp. lore		6
Logging	na					Eucalyptus			
Treatment	na					Casuarina c		<u> </u>	
0 :					FO 20 A		na luehmann	II	
Grazing  Non-native plant cove	yes	moderate			1	ea: Coarse woo	day Debris		
Erosion					Specimen ler	igtii (mm)		site total m	
Regeneration	na 60%							Site total III	49
Storm	na							per ha (m)	43
Other (specify)	na							per na (m)	490
50 x 10m Area	IIIa	Native Plan	ıt Species Ric	hness			Total		730
Shrub sp.			it opeoics in				Total		
	Geijera parv	viflora							
	A								
Grass sp.	Paspalidium	ut-medusae	!						
	Eragrostis s								
	Austrostipa	verticillata							
- 1 / 1		1.							
Forbs/other sp.	Seringia col Abutilon ox								
	Oxalis perei								
	Cheilanthes								
	Dysphania o	carinata							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr							1	
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) gras			20	0	0	5		19
Native non-preferr			0	0	0	0	0	0
Native forbs and o			20	60	5	25	0	22
Native shrubs (< 1	m height)		0	0	0	0	_	0
Non-native grass			0	0	0	0		0
Non-native forbs a	nd shrubs		0	0	0	0	0	0
litter			20	20	15	45	20	24
rock			0	0	0	0	0	0
bare ground			40	20	80	30		36
Cryptograms Total			100	100	100	0 105	~	0
	<b>T</b>	Dist sins	100	100	100	105		101
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE		Euc Benchm	Euc Benchn	nark	
	No. Trees	0	No. Trees >	= Benchma	rk/ha		0	
	Avg DBH							
Non-Eucalypts	threshold		RE		Euc Benchm	Euc Benchn	nark	
,,	No. Trees	0	No. Trees >	= Benchma	1		0	
100m Transect: Tr						SC). Emerge	nt (E), Shrub	(S)
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
18-28.5	11		111050 (111	,	75~	111 3030		7 F -
32.5-40	7.5							
85-90.5	5.5							
0.0-30.3	3.3							
0.1	1	c						
0-1		S						
5-7		S						
50-52		S						
69-70		S						
87-93		S						
95-100	5	S				canopy tota		24
						subcanopy	total	17
						emergent to	otal	
						shrub total		

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Ground

Site ID	1348		Biocondition	Datasheet			Date	2/03	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information:									
100x50m Area:							1		
Location (GPS referen	nce)	1				Bioregion	Brigalow Bel	t South	
Datum	GDA94							-	
Zone	55 J	Easting			Northing				
Plot origin				723234	1		7062814		1348
Plot centre				723217	7		7062866		1349
Plot Bearing			Plot Alignme	nt Descriptio	n				
Locality	Roma SD 22								
	Wilgavale								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	11.7.6 regrov	vth. Crebra re	growth with (	Callitris unde	rstorey. Sandy	and rocky.			
Regional Ecosystem		11.7.6		Median Tree	e canopy Heigl	nt (m)	12		
	Emergent he	ight (m)			Subcanopy h	it (m)	8		
Site Photos	Plot centre	North	6856	South	6857	,	S		
Photo Numbers		East	6858	West	6859				
	Plot Origin			other	6860 6861				
Disturbance					100 x 50m A	rea: Tree SPP	. Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra		
Wildfire	na					Callitris gla	ucophylla	Tree Spp. Co	unt
Prescribed burn	na					Corymbia t	essellaris		4
Logging	na					Brachychite	on populneus	,	
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse wo	ody Debris		
Non-native plant cove	<5%				Specimen le	ngth (mm)		=	
Erosion	na							site total m	
Regeneration	100%								19.5
Storm	na							per ha (m)	
Other (specify)	na								195
50 x 10m Area			t Species Ri	chness			Total		
Shrub sp.	Carissa ovat								
		n spinescens							
	Psydrax olei	Ітона							
Grass sp.	Enneapogoi	n truncatus		Fchinopogo	on caespitosı	ıs			
01033 30.		aricatissima		Urochloa p	anicoides*				
	Aristida caly			·					
	Eragrostis b								
	Cenchrus ci								
	Aristida jeri Fimbristylis								
	Panicum eff								
	Cymbopogo								
	,								
Forbs/other sp.	Nyssanthes			Commelina					
	Evolvulus al			Euphorbia					
		s scutellario	ides	Dysphania					
	Portulaca sp Solanum ell			Cyperus be Cheilanthe					
		m americani	um	Seringia co					
	TTT ATT USE U	dirici icali		Sida corrug					
				Einadia has					

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro			T				1	
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			25	10	20	15		
Native non-preferre			0	0	0	0		
Native forbs and ot			15	5	5	0	_	
Native shrubs (< 1m	n height)		0	0	0	0		
Non-native grass			0	0	0	0		
Non-native forbs ar	nd shrubs		0	0	0	0	0	_
litter			45	30	30	65	30	
rock			0	0	0	0	_	_
bare ground			15 0	45	45 0	20 0		
Cryptograms Total			100	90	100	100	_	
	T	Districe	100x 50	90	100x 20	100		98
100 x 50m Area: La	rge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE	//0	Euc Benchm	Fuc Benchm	nark	
Lucarypts	No. Trees	0	No. Trees >			Luc Benciiii		
		U	No. Trees >	– belicililai	К/Па		0	
	Avg DBH		DE	22	- D	I		
Non-Eucalypts	threshold		RE		Euc Benchm	Euc Benchn		
	No. Trees		No. Trees >				0	
100m Transect: Tre	e and Shrub			Canopy (C),				
Distance (m)	1 -	Туре	Distance (m	)	Туре	Distance (m	1)	Туре
3.5-12	8.5							
24.5-28	3.5							
31-37		С						
54-69		С						
91-95	4	С						
0-2	2	S						
15-16	16							
21.5-24	2.5							
29-32		S				canopy tota	 	27
33-46	13					subcanopy		57
50.5-86	36					emergent to		37
30.3-00	30	J					otai	
	1					shrub total		

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East West



Ground

			Biocondition	n Datasheet					
Site ID	1350	]	Diocondition	Dutusiicet			Date	2/0	3/2021
Observers	Donovan Sha		new					<u>,                                      </u>	
Site Information: 100x50m Area:									
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94					0 -	O · · ·		
Zone	55 J	Easting			Northing				
Plot origin				72275	8		7062933		1350
Plot centre				72277	8		7062978	3	1351
Plot Bearing			Plot Alignme	ent Description	on			_	
Locality	Roma SD 22								
	Wilgavale								
Regional Ecosystem a	and Tree heigh	nt							
Habitat Description	Remnant cre	bra. Soil sand	ly, rocky in pa	tches.					
Regional Ecosystem				Median Tre	e canopy Heig	ht (m)	16		
	Emergent he	ight (m)		1	Subcanopy h		8	+	
Site Photos	Plot centre	North	6862	South	6863		S		
Photo Numbers		East		1 West	6865	5			
	Plot Origin			other	6866	5			
Disturbance					100 x 50m A	rea: Tree SPP	. Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra		
Wildfire	na					Callitris glau	cophylla	Tree Spp. Co	ount
Prescribed burn	na					Bursaria incar	na		6
Logging	na					Eucalyptus			
Treatment	na						a pubescens	3	
						Geijera par			
Grazing	yes	moderate				ea: Coarse wo	ody Debris		
Non-native plant cov	e<5%				Specimen le	ngth (mm)		1 .	
Erosion	na				_			site total m	
Regeneration	60%								34
Storm	na							per ha (m)	242
Other (specify)	na	A1 11 DI	1.0				<b>T</b>		340
50 x 10m Area	Ī		nt Species Ri	chness			Total		
Shrub sp.	Carissa ovat								
_									
Grass sp.	Cenchrus ci	liaris iium radular	26						
	Austrostipa		15						
	Fimbristylis								
	Eragrostis b								
	Enneapogor								
	Cyperus bet								
	Melinis repe								
	Paspalidium								
Forbs/other sp.	Seringia col			Portulaca	pilosa				
	Portulaca au Solanum ell			Einadia ha Dysphania					
	Evolvulus al			*Harrisia r					
	Portulaca sp				on caespitos	us			
	*Opuntia to	mentosa			simplicifoliur				
	Corchorus t	rilocularis							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr			T	Γ	T	Γ	T	T
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) gras			40	95	25	30		
Native non-preferr			0	0	0	0	_	
Native forbs and of			5	0	15	5		6
Native shrubs (< 1r	n height)		0	0	0	0		
Non-native grass			0	0	0	0		_
Non-native forbs a	nd shrubs		0	0	0	0	_	
litter			30	5	60	40		
rock			0 15	0	0	0 25	_	
bare ground Cryptograms			0	0	0	0		
Total			90	100	100	100	_	
100 x 50m Area: La	argo Troos	Plot size	100x 50	100	100x 20	100	100 x 10	38
Species		Euc (E) Non-Euc (N)		DBH				
Eucalypts	Avg DBH threshold No. Trees Avg DBH	1	RE No. Trees >		Euc Benchn rk/ha	Euc Benchn	nark - 2	
Non-Eucalypts	threshold		RE	24	Euc Benchn	Euc Benchn	nark	
	No. Trees	0	No. Trees >				0	
100m Transect: Tro	ee and Shrub	Canopy Cov	ver	Canopy (C),	Subcanopy (	SC), Emerge	nt (E), Shrub	(S)
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
0-3	3			8	С			
20-29	9							
34-46	12							
83-100	17							
	1							
1-4	3							
78-82	4							
	<del>                                     </del>							
						canony tota	<u> </u>	41
						canopy tota		41
	subcanopy total							
	1					emergent to	otai	_
						shrub total		7







Ground

			Biocondition	Datashoot				
Site ID	1353		Biocondition	Datasileet			Date	2/03/202:
Observers		ırp, Heath Agı	new					
		p,						
Site Information:								
100x50m Area:								
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94				<u> </u>			_
Zone	55 J	Easting			Northing			
Plot origin				72764	4		7056693	1353
Plot centre				72766	5		7056738	1354
Plot Bearing			Plot Alignme	nt Descriptio	n			
Locality	Roma SD 22							
	Reuben Dow	/ns						
Regional Ecosystem a	and Tree heigh	nt						
Habitat Description	11.7.7 remna	ant						
Regional Ecosystem		11.7.7		Median Tre	e canopy Heigh	nt (m)	16	
	Emergent he	ight (m)			Subcanopy h	t (m)	7	
Site Photos	Plot centre	North	6868	South	6869			
Photo Numbers		East	6870	West	6871			
	Plot Origin	•		other	6872			
Disturbance	_				100 x 50m A	rea: Tree SPP.	Richness	-
	mean fire			l			<b>C</b> L	1.98
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	-	
Wildfire	na					Acacia shirl		Tree Spp. Count
Prescribed burn	na					Acacia burr	OWII	;
Logging	na				_			
Treatment	na				FO :: 20m A ::	Caaraaa	adı. Dalamia	
Grazing	yes	moderate				ea: Coarse woo	day Debris	
Non-native plant cov Erosion					Specimen ler	igui (mini)		site total m
Regeneration	na 66%							67m
Storm	na							per ha (m)
Other (specify)	na				_			670
50 x 10m Area	Illa	Native Plan	ıt Species Ric	rhness			Total	070
Shrub sp.	7	ivative riai	it species iti	cillie33			Total	
	Pittosporun	n spinescens	;					
	Geijera parv	viflora						
C	Thursialalassi							
Grass sp.	Thyridolepis	s xeropniia iut-medusae	1					
	Aristida caly		<u> </u>					
	Eragrostis b	rownii						
		e uncinulata	)					
	Fimbristylis Paspalidium							
	Paspallululi	1 UISLAIIS						
Forbs/other sp.	Seringia col							
	Abutilon ox							
	Euphorbia t							
	Cheilanthes							
	Calotis cune							
	Sida corruga	ata						
	Corchorus t	rilocularis						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro	und Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (pr	eferred and							
intermediate) grass			15	20	20	40	50	2
Native non-preferre			0	0	0	0	0	
Native forbs and oth			10	10	40	20	20	2
Native shrubs (< 1m	height)		0	0	0	0	0	
Non-native grass			0	0	0	0	0	
Non-native forbs and	d shrubs		0	0	0	0	0	
litter rock			70	55	25	35	30	4
bare ground			5	0 15	0 15	5	0	
Cryptograms			0	0	0	0	0	
Total			100	100	100	_	100	10
100 x 50m Area: Lar	ge Trees	Plot size	100x 50	100	100x 20	100	100 x 10	10
100 x 30m Alea. Lai	ge irees	Euc (E)	100x 30		100% 20		100 X 10	
		Non-Euc		DBH				
Species			Diam (ans)	ווטטו				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE		Euc Benchm	Euc Benchm	nark	
1	No. Trees		No. Trees >	= Benchma	rk/ha			
	Avg DBH				<u> </u>			
	threshold		RE		Fuc Benchm	Euc Benchm	nark	
· ·	No. Trees		No. Trees >	= Benchmai	1			
100m Transect: Tree		Canony Co				(SC), Emerge	nt (F)  Shruh	(S)
Distance (m)	c ana smas	Туре	Distance (m		Туре	Distance (m		Туре
0-1	1	С	81-91	9		2.3641166 (111		. 160
12.5-16	3.5		01-31	9	J			
17-25	3.5							
	2.5							
37-39.5								
56-59		С						
93-100	7	С						
2.44.5	2.5	C						
2-11.5	9.5							
14-20	6							
29-32	3					canopy tota		2
34-37	4					subcanopy t		4
147 47 5	0.5	S				emergent to	otal	
47.47.5 62-79	17					shrub total		



North South



East West



Ground

			Biocondition	Datachoot					
Site ID	1355	]	biocondition	Datasileet			Date	2/03	3/2021
Observers	Donovan Sha	rp. Heath Agi	new					· ·	<u>·                                      </u>
		, p, 1100.011.00							
Site Information:									
100x50m Area:									
Location (GPS refere	nce)	1				Bioregion	Brigalow Bel	t South	
Datum	GDA94				_			1	
Zone	55 J	Easting			Northing			1	
Plot origin				72655	_		7057003	-	1355
Plot centre				72656			7056955	<b>i</b>	1356
Plot Bearing	S		Plot Alignme	nt Description	on				
Locality	Roma SD 22								
	Reuben Dow								
Regional Ecosystem	and Tree heigh	nt							
Habitat Description	11.7.2 regrov	wth. Silty brov	wn soil, rocky	on surface.					
Regional Ecosystem		11.7.2		Median Tre	e canopy Heigh	nt (m)	9	1	
	Emergent he			1	Subcanopy h			1	
Site Photos		North	6873	South	6874				
Photo Numbers		East		West	6876	+			
	Plot Origin			other	6877	1			
Disturbance					100 x 50m A	rea: Tree SPP.	Richness		
	mean fire							1	
Туре	scar height	severity	last event	obs type	Tree Species	Acacia shirl	eyi		
Wildfire	na					Eucalyptus	exserta	Tree Spp. Co.	unt
Prescribed burn	na					Alstonia cor	nstricta		3
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris		
Non-native plant cov	€<1%				Specimen ler	ngth (mm)		_	
Erosion	na							site total m	
Regeneration	100%								21
Storm	na							per ha (m)	
Other (specify)	na								210
50 x 10m Area		<b>Native Plan</b>	nt Species Ric	chness			Total		
Shrub sp.		-							
Grass sp.	Aristida caly	/cina							
	Aristida sp. Paspalidium	dictanc							
	Paspanulun	i uistaiis							
		., .							
Forbs/other sp.	Corchorus t								
	Abutilon ox Seringia col								
	*Opuntia to								
	Cheilanthes								
	Solanum ell								
	Solanum co								

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gr	ound Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (p								
intermediate) gras			5	0	45	50	70	
Native non-preferr			0	0	0	0	0	
Native forbs and o			5	70	35	5	10	
Native shrubs (< 1	m height)		0	0	0	0	0	
Non-native grass Non-native forbs a	and chrubs		0	0	0	0	0	
litter	ina snrubs		80	20	20	30	0 20	
rock			0	0	0	0	0	
bare ground			10	10	0	_	0	
Cryptograms			0	0	0	0	0	
Total			100	100	100	_	100	
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)		DBH				
Eucalypts	Avg DBH threshold		RE			Euc Benchm		
	No. Trees Avg DBH		No. Trees >	= Benchma	rk/ha 		0	
Non-Eucalypts	threshold No. Trees		RE No. Trees >	= Benchma	rk/ha	Euc Benchm	0	
100m Transect: Tr	ee and Shrub					(SC), Emerge		
Distance (m)	_	Туре	Distance (m	)	Туре	Distance (m	)	Туре
0-3	3							
11-18	7							
19-28		С						
34-56.5	23							
58.5-64	5.5							
70-79		С						
81-100	19	С						
						canopy tota	<u> </u>	75.5
						subcanopy t		, 5.5
						emergent to		
						shrub total	Jui	
			<u> </u>	<u> </u>		ואוועט נטנמו		<u> </u>







Ground

			Bioconditio	n Datasheet				
Site ID	1357						Date	2/03/2021
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information:								
100x50m Area:								
Location (GPS referer		1				Bioregion	<b>Brigalow Belt</b>	t South
Datum _	GDA94				<b></b>			1
Zone	55 J	Easting			Northing		7050406	4257
Plot origin				72675			7058436	•
Plot centre				72672			7058392	1358
Plot Bearing	S		Plot Alignme	ent Description	on			
Locality	Roma SD 22							
	Reuben Dow							
Regional Ecosystem a	ind Tree heigh	nt						
Habitat Description	Low 11.7.2 re	egrowth. Yello	ow clay. Lots	oof rock. Lots	of ironstone.			
Regional Ecosystem		11.7.2		Median Tre	e canopy Heigh	nt (m)	4	
30.2 2003/000111	Emergent he				Subcanopy h		7	†
Site Photos	Plot centre	North	6878	3 South	6879			
Photo Numbers		East		) West	6881	<del> </del>		
	Plot Origin			other	6882	†		
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							]
Type	scar height	severity	last event	obs type	Tree Species	Acacia shirl	eyi	
Wildfire	na					Eucalyptus	crebra	Tree Spp. Count
Prescribed burn	na							2
Logging	na							
Treatment	na							
Grazing	yes	moderate			50 x 20m Are	a: Coarse woo	ody Debris	
Non-native plant cove	30% buffel				Specimen ler	ngth (mm)		<b>-</b>
Erosion	na							site total m
Regeneration	100%							3
Storm	na							per ha (m)
Other (specify)	na							30
50 x 10m Area		Native Plan	t Species R	ichness			Total	
Shrub sp.								
Grass sp.	Panicum ef	fucum						
Огазэ эр.	Cenchrus ci							
		ut-medusae						
	Aristida cal							
	Aristida jeri							
	Eragrostis b	rownii						
Forbs/other sp.	Corchorus t							
	Calotis cune							
		m americani	um					
	Abutilon ox	ycarpum maderaspat	tensis					
	Cheilanthes		CC11313					

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gi				,				
Ground cover typ			1	2	3	4	5	Mean
Native perennial (		d						
intermediate) gras			15	0	20	0	5	
Native non-prefer			0	0	0	0	0	
Native forbs and o Native shrubs (< 1			0	5	0	0	0	
Non-native grass	iii iieigiit)		20	20	5	0	0	
Non-native forbs a	ind shrubs		0	0	0	0	0	
litter	3111 403		40	50	70	90	80	6
rock			20	0	0	0	0	
bare ground			5	25	5	10	15	1
Cryptograms			0	0	0	0	0	
Total			100	100	100	100	100	10
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH				
		,						
	Avg DBH							
Eucalypts	threshold		RE		•	Euc Benchm		
	No. Trees		No. Trees >	= Benchma	rk/ha T		0	
	Avg DBH							
Non-Eucalypts	threshold		RE -			Euc Benchm		
100 7 : =	No. Trees			= Benchma		(CC) F	0	
100m Transect: Tr	ee and Shrul					(SC), Emerge		
Distance (m)	l <sub>c</sub>	Туре	Distance (m	l)	Туре	Distance (m	)	Туре
0-6	6	С						
12-21	9	С						
24-25.5	1.5	С						
34-37	3	С						
40-41 45.5-56	10.5	С						
58-63	10.5	C						
	5							
72-87	15	С						
94-95	1	С					1	
						canopy tota		52.
						subcanopy t		
						emergent to	วเสเ	
					<u> </u>	shrub total		







Ground

			Biocondition	Datashoot					
Site ID	1359		Diocondition	Datasileet			Date	12/03	3/2021
Observers	Donovan Sha	ırp, Heath Agr	new						
Site Information: 100x50m Area:									
Location (GPS referen	nce)					Bioregion	Brigalow Belt	t South	
Datum	GDA94								
Zone	55 J	Easting			Northing				
Plot origin				726804			7057322		1359
Plot centre				726836			7057284		1360
Plot Bearing	S		Plot Alignme	nt Description	1				
Locality	Roma SD 22								
	Reuben Dow	ns							
Regional Ecosystem a	and Tree heigh	nt							
Habitat Description	11.7.7 remna	ant. Fibrosa 18	3m with Ac. Sh	nirleyi underst	orey sparse 8	m. A sparse lo	ow tree layer o	of Ac. Shirleyi	to 4m i
Regional Ecosystem				Median Tree	canopy Heigh	nt (m)	16		
	Emergent he	ight (m)			Subcanopy h	t (m)	8		
Site Photos	Plot centre	North	6883	South	6884				
Photo Numbers		East	6885	West	6886	<u> </u>			
	Plot Origin	1		other	6887				
Disturbance	_				100 x 50m A	rea: Tree SPP	Richness	<del>-</del>	
	mean fire						eu .		
Туре	scar height	severity	last event	obs type	Tree Species		fibrosa subs		
Wildfire	na					Acacia shirl	_	Tree Spp. Co	
Prescribed burn	na					Allocasuarir	na leuhmanii		3
Logging	na								
Treatment	na								
Grazing	yes	moderate				ea: Coarse wo	ody Debris		
Non-native plant cov					Specimen ler	ngth (mm)		1	
Erosion	na							site total m	27
Regeneration	50%							L	37
Storm	na							per ha (m)	270
Other (specify)	na						<del>-</del>		370
50 x 10m Area		Native Plan	it Species Ri	chness			Total		
Shrub sp.	Alstonia cor	actricta							
	Carissa ovat								
	Casuarina c								
Grass sp.									
	Paspalidium								
	Thyridolepis	s xeropilia le uncinulata	<u> </u>						
		ut-medusae							
	Aristida ran								
Forhs/other ca									
Forbs/other sp.	Seringia col	lina							
	Abutilon ox								
	Corchorus t								

			Bioconditio	n datasheet	(cont.)				
10 x 10m Plots: Gr				1	T	ı		ı	
Ground cover type			1	2	3	4	5	Mean	
Native perennial (		d							
intermediate) gras			55	0	35	15	0		21
Native non-preferr Native forbs and o			0 15	35	0 45	0	<u> </u>		0 20
Native shrubs (< 1			0	25	0	10	0		7
Non-native grass	ii iieigiit <i>j</i>		0	0	0	0	0		0
Non-native forbs a	nd shrubs		0	0	0	0	0		0
litter	114 3111 403		20	20	15	15	50		24
rock			0	10	5	60	30		21
bare ground			10	10	0	0	15		7
Cryptograms			0	0	0	0	0		0
Total			100	100	100	100	100		100
100 x 50m Area: La	arge Trees	Plot size	100x 50		100x 20		100 x 10		
Species		Euc (E) Non-Euc (N)	Diam (cm)	DBH					
species		(IN)	Diaili (Cili)						
					1				
	Avg DBH			40		'			
Eucalypts	threshold		RE		4	Euc Benchm			
	No. Trees		No. Trees >	= Benchma	rк/na I		. 0		
Name E	Avg DBH		DE.		F	. F B	and.		
Non-Eucalypts	threshold		RE			Euc Benchm			
100 7	No. Trees		No. Trees >			(66) 5	0		
100m Transect: Tr	ee and Shrul					(SC), Emerge			
Distance (m) 0-4	1	Туре	Distance (m	1	Туре	Distance (m	1	Туре	
31-45	4	C							
94-100	14	C							
<del>74-</del> 100	6								
4-17	13	S							
68-70	2	S							
84-98	14	S							
07-70	14	J							
						canony tota	<u> </u>		
						canopy tota			6 29
						subcanopy t			29
						emergent to	JIdl		
		1			<u> </u>	shrub total		<u> </u>	







Ground

			<b>5</b>	<b>.</b>				-	
Site ID	1361		Biocondition	Datasheet			Date	3/03	3/2021
Observers	Donovan Sha	rp. Heath Agr	new					,	
		1, 0	-						
Site Information: 100x50m Area:									
Location (GPS referen	2001					Piorogion	Brigalow Bel	t Couth	
Datum	GDA94	1				Bioregion	Brigatow Bei	L SOULII	
Zone	55 J	Easting			Northing			1	
Plot origin	22.1	Lasting		736535	_		7063950		1361
Plot centre				736524			7063902	1	1362
Plot Bearing	N		Plot Alignme	nt Description			7003302	1	1302
Locality	Roma SD 22		riot Alignine	iit bescription	<u> </u>				
Locality	Mostyn								
Regional Ecosystem a		nt							
Regional Ecosystem o	The free heigh	<u> </u>							
Habitat Description	11.5.1 remna	int. Sparse sh	rub layer.						
Regional Ecosystem		11.5.1		Median Tree	canopy Heigh	nt (m)	16		
Regional Ecosystem	Emergent he			]	Subcanopy h		8	+	
Site Photos	Plot centre	North	6888	South	6889				
Photo Numbers		East		West	6891	†			
	Plot Origin			other	6892	<del> </del>			
Disturbance					100 x 50m A	rea: Tree SPP.	Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra		
Wildfire	na					Callitris glau	ucophylla	Tree Spp. Co	unt
Prescribed burn	na					Petalostigm	a pubescens	<b>;</b>	3
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	a: Coarse woo	ody Debris		
Non-native plant cove	<5%				Specimen ler	ngth (mm)		-	
Erosion	na							site total m	
Regeneration	100%								39
Storm	na							per ha (m)	
Other (specify)	na								390
50 x 10m Area	1		t Species Ri	chness			Total		
Shrub sp.	Alstonia cor Dodonaea v								
	Dodonaea v	150050							
Grass sp.	Echinopogo	n caespitosı	IS						
	Aristida caly								
	Melinis repe	ens*							
	Fimbristylis	dichotoma							
	Enneapogoi								
	Perotis rara								
	Eragrostis b								
	Cenchrus ci	liaris*							
Carbs/athor sp	Coringia col	lina		Alternanthe	ra nana				
Forbs/other sp.	Seringia col Sida corruga			Nyssanthes					
	Calotis cune			Cyperus sp.					
	Solanum ell	ipticum		Fimbristylis					
	Evolvulus al								
	Cheilanthes								
	Lomandra n *Glandulari								
	Amaranthus								

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G			1	T	T	1	1	
Ground cover typ			1	2	3	4	5	Mean
Native perennial (		d						
intermediate) gra			70	80	55			
Native non-prefer			0	0	0	~		
Native forbs and o			10	0	15		5	
Native shrubs (< 1	lm height)		0	0	0		_	
Non-native grass			0	0	0			
Non-native forbs	and shrubs		0	0	0		0	_
litter			20	20	25			26
rock			0	0	0		_	
bare ground			0	0	5			
Cryptograms			100	100	100		~	~
Total		DI	100	100	100	100		100
100 x 50m Area: L	arge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
	A DDII							
	Avg DBH					'		
Eucalypts	threshold		RE			Euc Benchn		
	No. Trees	7	No. Trees >	= Benchma	rk/ha		14	
	Avg DBH							
Non-Eucalypts	threshold		RE			Euc Benchn		
	No. Trees		No. Trees >				24	
100m Transect: T	ree and Shrul	Canopy Co	ver	Canopy (C),	Subcanopy (	(SC), Emerge	nt (E), Shrub	) (S)
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	1)	Туре
4-14	10	C						
36-45	9	С						
50-59	9	С						
16-18	2	S						
26-35	9	S						
42-44	2	S						
48-52		S						
	4							
56.5-62.5	6	S					<u> </u>	
66-69	3	S				canopy tota		28
84-85	1	S				subcanopy		28.5
1	la r	S		Ì	Ì	emergent to	otal	1
85.5-89	3.5	3				Terrici Berre ti	otai	







Ground

Site ID	1363	]	Bioconditio	n Datasheet			Date	3/03	3/2021
Observers	Donovan Sha	rp, Heath Ag	new					,	,
		17 0							
Site Information: 100x50m Area:									
Location (GPS referen	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	]				=101001011			
Zone	55 J	Easting			Northing			1	
Plot origin		, ,		736823	_		7063838		1363
Plot centre				736783	3		7063812	-	1364
Plot Bearing	NE		Plot Alignm	ent Descriptio	n			9	
Locality	Roma SD 22		0						
,	Mostyn								
Regional Ecosystem a		nt							
Habitat Description	11.5.1 remna	int. Sparse sh	rub layer. Ro	cks present. B	rown loam.				
Regional Ecosystem		11.5.1		Median Tree	e canopy Heig	ht (m)	18		
,	Emergent he				Subcanopy h		9	†	
Site Photos	Plot centre	North		South	.,	<u> </u>			
Photo Numbers		East		West		1			
	Plot Origin			other		†			
Disturbance	T T				100 x 50m A	rea: Tree SPP	Richness		
	mean fire								
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra		
Wildfire	na					Callitris gla	ucophylla	Tree Spp. Co	unt
Prescribed burn	na								2
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Arc	ea: Coarse wo	ody Debris		
Non-native plant cove	50.00%				Specimen le	ngth (mm)			
Erosion	na							site total m	
Regeneration	50%								38
Storm	na							per ha (m)	
Other (specify)	na								380
50 x 10m Area			nt Species R	ichness			Total		
Shrub sp.	Alphitonia e								
	Acacia deco								
	Dodonaea v Carissa ovat								
	Notelaea m								
Grass sp.	*Cenchrus o				um spicigeru	m			
	*Paspalum				on refractus				
	Aristida caly				is xerophila				
	*Urochloa p			Fimbristylis	s dichotoma				
	Aristida ram								
	Eragrostis b								
	J								
Forbs/other sp.	*Sida corru				ia aristigera				
	Sclerolaena			Cyperus sp	•				
	Evolvulus al Alternanthe								
	Nyssanthes								
	Calotis cune								
	Cheilanthes								
	Euphorbia t	annensis							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G			1	1	1	1	1	
Ground cover typ			1	2	3	4	5	Mean
Native perennial (		d						
intermediate) gra			0	65	70	40		
Native non-prefer			0	0	0	0	~	_
Native forbs and o			5	5	5	5		
Native shrubs (< 1	Lm height)		0	0	0	0		
Non-native grass			65	0	0	0		
Non-native forbs	and shrubs		0	0	0	0	0	_
litter			10	20	15	30		
rock			0	0	0	0	0	_
bare ground			20	10	10	20		
Cryptograms Total			100	100	100	95	~	
	laura Tuana	Distains		100		95		99
100 x 50m Area: I	Large Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
		, ,	` ,					
					<b>r</b>			
	Avg DBH							
Eucalypts	threshold		RE	44	Euc Benchn	Euc Benchn	nark	
	No. Trees	14	No. Trees >	= Benchma	rk/ha		28	
	Avg DBH					. <u></u>		
Non-Eucalypts	threshold		RE	26	Euc Benchm	Euc Benchn	nark	
[	No. Trees	2	No. Trees >				4	
100m Transect: T					Subcanopy (	SC), Emerge		
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
3-13	10	C			71 -			
41-53	12	С						
74-97	23	С						
1-1-21	23							
11 12	2	c						
11-13	2	S						
17-22	5	S						
31-34	3	S						
67-72	5	S						
75-76	1	S						
88-91	3	S				canopy tota	ıl	45
						subcanopy	total	19
						emergent to	otal	
						shrub total		
<u> </u>	<u> </u>	1	1	1	1			1







Ground

			D: !:::	5					
Site ID	1368		Biocondition	Datasheet			Date	3/03	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
		1, 0							
Site Information: 100x50m Area:									
Location (GPS referen	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	]				Dioregion	Drigatow Det	t south	
Zone	55 J	Easting			Northing			1	
Plot origin		]=4006		735068	_		7065039	i i	1368
Plot centre				73504:			7065080	-	1369
Plot Bearing	NW		Plot Alignme	ent Descriptio			, , , ,	ш	
Locality	Roma SD 22			2 200pt0	••				
	Mostyn								
Regional Ecosystem a		nt							
Habitat Description	Ac melvillei/l	ourrowii 7m n	nid-dense to o	dense. E. mel	nophloia and E	. crebra eme	rgentd to 12m	ı very sparse. I	Brown s
Regional Ecosystem		11.7.7			e canopy Heigh		6	1	
	Emergent he	ight (m)	13	3	Subcanopy h	t (m)			
Site Photos	Plot centre	North	6906	South	6907				
Photo Numbers		East	6908	West	6909				
	Plot Origin	1		other	6910				
Disturbance					100 x 50m A	rea: Tree SPP	. Richness	-	
Tuno	mean fire	coverity	last avent	aha tuma	Troc Species	Eucolyptuo	malananhlai		
Type Wildfire	scar height	severity	last event	obs type	Tree Species		_melanophloi	1	+
	na				-	Acacia illei	viiiei/burrowii	Tree Spp. Co	
Prescribed burn	na				_				2
Logging	na				_				
Treatment	na	madarata			E0 v 20m Ara	a. Caarsa wa	ady Dabria		
Grazing	yes	moderate			50 x 20m Are		ouy Debris		
Non-native plant cove	na				Specimen ler	igtii (mim)		site total m	
Regeneration	50%				_			site total III	41
Storm	na				_			per ha (m)	
Other (specify)	na				_			per na (m)	410
50 x 10m Area	Ina	Native Plan	t Species Ri	chness			Total		710
Shrub sp.		ivative riai	it Species Ki	Ciliess			Total		
Grace en									
Grass sp.	Eragrostis b	rownii							
	Aristida caly								
	*Paspalum								
	Paspalidium	n distans							
Forbs/other sp.									
	Evolvulus al								
	Cheilanthes								
	Calotis cune Abutilon ox								
	Solanum ell								
	Solanum co								
	Vigna suber	ecta							
	Calandrinia								
	*Opuntia to								
	Fimbristylis Cyperus sp.	uiciiotoma							
	-71-0. 0.0 op.								

			Bioconditio	n datasheet	(cont.)				
10 x 10m Plots: Gro									
Ground cover type			1	2	3	4	5	Mean	
Native perennial (p									
intermediate) grass			70	30	70	25	5		40
Native non-preferre			0	0	0	0	0		0
Native forbs and ot			15	20	10	10	10		13
Native shrubs (< 1m	n neight)		0	0	0	0	0		0
Non-native grass Non-native forbs ar	ad chrubs		0	0	0	0	0		0
litter	iu siii ubs		10	35	20	50	80		39
rock			0	0	0	0	0		0
bare ground			5	15	0	15	5		8
Cryptograms			0	0	0	0	0		0
Total			100	100	100	100	100	1	.00
100 x 50m Area: La	rge Trees	Plot size	100x 50		100x 20		100 x 10		
		Euc (E)							
		Non-Euc		DBH					
Species		(N)	Diam (cm)						
	Avg DBH								
Eucalypts	threshold		RE		Euc Benchn	Euc Benchm	nark		
,	No. Trees		No. Trees >	= Benchma	rk/ha		0		
	Avg DBH				,				
Non-Eucalypts	threshold		RE		Euc Benchn	Euc Benchm	nark		
71	No. Trees		No. Trees >	= Benchma			0		
100m Transect: Tre		Canopy Co				SC), Emerge			
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре	
14-20	6	E							
2-8	6	С							
20-100	80								
						canopy tota	<u> </u>		86
						subcanopy t			
						emergent to			6
						shrub total			
	1	1	1	<u> </u>	1	Jan ab total		<u> </u>	







Ground

			Biocondition	Datachoot					
Site ID	1370		Biocondition	Datasneet			Date	3/03	3/2021
Observers	Donovan Sha	arp, Heath Agi	new						
Site Information: 100x50m Area:									
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	1				Bioregion	Dilgalow Bell	t Journ	
Zone	55 J	Easting			Northing			1	
Plot origin		1-0008		736742	_		7062656	-	1370
Plot centre				73669	_		7062646		1371
Plot Bearing	E		Plot Alignme				7002010	1	
Locality	Roma SD 22		110171116	ne Bescriptio					
Locality	Mostyn								
Regional Ecosystem a		nt							
Habitat Description	11.3.2b. No k	benchmark							
Regional Ecosystem		11.3.2b		Median Tre	e canopy Heigh	nt (m)	17		
Tregional Ecosysteill	Emergent he			1,1,00,011 1160	Subcanopy h		17	†	
Site Photos	Plot centre	North	6911	South	6912				
Photo Numbers	riot centre	East		West	6914	†			
i noto ivambers	Plot Origin	Last	0313	other	6915	+			
Disturbance	Flot Origin			other		ı rea: Tree SPP.	Richness		
Distarbance	mean fire				100 X 30111 X	100.1100.511.	Tucinicss	ī	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	camaldulens	sis	
Wildfire	na	,		,,	·	1 ,,		Tree Spp. Co	unt
Prescribed burn	na				_				1
Logging	na								_
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse wo	odv Debris		
Non-native plant cov	1'				Specimen ler		,		
Erosion	na							site total m	
Regeneration	0%				_				22
Storm	na							per ha (m)	
Other (specify)	na							per ()	220
50 x 10m Area		Native Plan	nt Species Ric	chness			Total		
Shrub sp.									
om die op i									
Grass sp.		e converger	ıs						
	Arundinella								
	Echinochioa	a crus-galli*							
Forbs/other sp.	Marsilea dr	ummondii							
r or bay other ap.	Sclerolaena								
	Alternanthe	era nana							
	*Glandulari								
	Dysphania o								
	Atriplex mu Lomandra r								
	Physalis per								
		ccidentale*							
	Sclerolaena								
	*Malvastru	m american	um						
	Solanum nig	grum							
	Malva parvi								
	Enchylaena								
	Persicaria la Centipeda r								
	-contipeda I	minia							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Gro	ound Cover							
Ground cover type	!		1	2	3	4	5	Mean
Native perennial (p								
intermediate) grass			О	15	5	0	0	4
Native non-preferre			0	0	0	0	0	
Native forbs and ot			55	50	5	10	10	
Native shrubs (< 1n			0	0	0	0	0	
Non-native grass	i iicigiicj		0	0	0	0	0	
Non-native forbs ar	nd shruhs		0	0	0	0	0	
litter	14 3111 453		35	15	65	65	_	
rock			0	0	0	0	0	
bare ground			10	20	25	25		
Cryptograms			0	0	0	0		
Total			100	100	100	100		
	<b>T</b>	DI-+ -:				100		100
100 x 50m Area: La	rge Trees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E) Non-Euc		DBH				
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE		Euc Benchm	Euc Benchn	nark	No benchmark
/	No. Trees	22	No. Trees >					45cm
	Avg DBH		110. 110057	Benerina	Купа			456111
Non Eugabusta	threshold		RE		Cua Danaha	Euc Benchn	ul.	No bondonoul
Non-Eucalypts			1			Euc Benchin		No benchmark
	No. Trees		No. Trees >				0	
100m Transect: Tre	ee and Shrub			Canopy (C),				
Distance (m)		Туре	Distance (m	)	Туре	Distance (m	)	Туре
0-17	17	С						
28-47	19	С						
98-100		С						
	_	-						
	+							
						canopy tota	1	38
						subcanopy t		
						emergent to		
						•	otai	
						shrub total		







Ground

Site ID	1372		Biocondition	n Datasheet			Date	3/0	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information:									
100x50m Area:							1		
Location (GPS referen		1				Bioregion	Brigalow Bel	t South	
Datum	GDA94				1			1	
Zone	55 J	Easting			Northing			_	
Plot origin				736750	<u>)</u>		7061624		1372
Plot centre				736706	5		7061606	5	1373
Plot Bearing	E		Plot Alignme	ent Descriptio	า				
Locality	Roma SD 22								
	Mostyn								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	E. camaldule	nsis and Ango	phora floribu	unda 26m on c	x-bow. No be	nchmark			
Regional Ecosystem		11.3.2b		Median Tree	canopy Heigh	nt (m)	21		
	Emergent he				Subcanopy h			1	
Site Photos	Plot centre	North		South	1,	<u> </u>			
Photo Numbers		East		West		1			
	Plot Origin			other		1			
Disturbance				00.101	100 x 50m A	rea: Tree SPP.	Richness		
	mean fire							Ī	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	camaldulens	sis	
Wildfire	na					Angophora	floribunda	Tree Spp. Co	ount
Prescribed burn	na					Acacia salid	ina		3
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse wo	ody Debris		
Non-native plant cove	<5%				Specimen ler	ngth (mm)			
Erosion	na							site total m	
Regeneration	33%								14
Storm	na							per ha (m)	
Other (specify)	na							, , ,	140
50 x 10m Area	1	Native Plan	t Species Ri	ichness	1		Total		
Shrub sp.	Vachellia fa		•						
Grass sp.	Dichanthiun Capillipediu Leptochloa Echinochloa *Paspalum	m spicigeru digitata ı crus-galli*	m						
Forbs/other sp.		a aristigera queenslandi occidentale	са	Marsilea dr Cullen tena *Phyla can	х				
	*Verbena g Cyperus sp. *Guillemine	birchii implicifoliur audichaudii ea densa	n						
	*Solanum n *Physalis pe Rumex brow	eruviana							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G			T	1	T	ı	1	T
Ground cover typ			1	2	3	4	5	Mean
Native perennial								
intermediate) gra			65	35	25	70	<del></del>	39
Native non-prefer			0	0	0	0		0
Native forbs and			5	0	0	0		5
Native shrubs (< 1	ım neignt)		0	35	5	0		8
Non-native grass Non-native forbs	ماريسام امم		0	0	0	0		0
litter	and shrubs		0 10	0 25	50	30	60	35
rock			0	0	0	0		0
bare ground			20	5	20	0	_	13
Cryptograms			0	0	0	0		0
Total			100	100	100	100	~	100
100 x 50m Area:	l arge Trees	Plot size	100x 50	100	100x 20	100	100 x 10	100
Species		Euc (E) Non-Euc (N)		DBH				
Eucalypts	Avg DBH threshold No. Trees Avg DBH	0	RE No. Trees >	= Benchma		Euc Benchn	nark -	No Benchmark
Non-Eucalypts	threshold		RE		Euc Benchn	Euc Benchm	nark	
	No. Trees	0	No. Trees >	= Benchma	1			No Benchmark
100m Transect: T						(SC), Emerge	nt (E). Shruh	
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
0-40	40	C	- (***					
45-59	14	C						
62-78	16	C						
88-100	12	C						
	12	-						
10.5-12	1.5	sh						
20-21		sh						
		sh						
31-32	1	511						
							<u> </u>	
						canopy tota		82
						subcanopy		
						emergent to	otal	
						shrub total		3.5







Ground

Site ID	1374		Biocondition	n Datasheet			Date	3/03	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information: 100x50m Area:									
Location (GPS referen	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	]				0 -	0		
Zone	55 J	Easting			Northing				
Plot origin				73777	4		7062581		1374
Plot centre				73779	6		7062535		1375
Plot Bearing	NW		Plot Alignme	ent Descriptio	on				
Locality	Roma SD 22								
	Mostyn								
Regional Ecosystem a	nd Tree heigh	nt							
Habitat Description	Low-lying are	ea adjacent to	watercourse.	No shrub or	low tree layer	present			
Regional Ecosystem		11.3.2b		Median Tre	e canopy Heigl	nt (m)	24		
	Emergent he			1	Subcanopy h			Ī	
Site Photos	Plot centre	North	6931	South	6932			1	
Photo Numbers		East		3 West	6934	+			
	Plot Origin			other	6935	+			
Disturbance	1 100 011.g			0 0 1101		rea: Tree SPP.	Richness		
	mean fire							Ī	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	camaldulens	sis	
Wildfire	na					_		Tree Spp. Cou	unt
Prescribed burn	na								1
Logging	na								
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris		
Non-native plant cove	<1				Specimen le	ngth (mm)			
Erosion	na							site total m	
Regeneration	100								40
Storm	na							per ha (m)	
Other (specify)	na								400
50 x 10m Area		Native Plan	t Species Ri	chness	•		Total		
Shrub sp.									
Grass sp.	Drachyachn	0.000000000							
	brachyachn	e convergen	15						
Forbs/other sp.	Centipeda r Atriplex mu *Xanthium Persicaria la Sclerolaena	elleri occidentale apathifolia							
	Eleocharis p	allens?							
	*Physalis pe								

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G	round Cover							
Ground cover typ	e		1	2	3	4	5	Mean
Native perennial (		t						
intermediate) gras			20	5	5	О	70	20
Native non-prefer			0	0	0	0	<del></del>	
Native forbs and o			0	0	10	0	10	4
Native shrubs (< 1			0	0	0	0	0	
Non-native grass	- 0 -,		0	0	0	0	0	
Non-native forbs a	and shrubs		0	0	0		0	
litter			60	70	15		10	
rock			0	0	0	0	0	
bare ground			20	25	75	90	10	
Cryptograms			0	0	0	0		
Total			100	100	105	100	100	-
100 x 50m Area: L	arge Trees	Plot size	100x 50	100	100x 20	100	100 x 10	101
	arge rrees	Euc (E) Non-Euc		DBH	100% 20		100 X 10	
Species		(N)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE		Euc Benchn	Euc Benchn	nark	
	No. Trees	24	No. Trees >					No Benchmark
	Avg DBH				.,			
Non-Eucalypts	threshold		RE		Fue Boncho	Euc Benchm	aark	
INOII-Lucalypts	No. Trees	0	No. Trees >			Luc Benciiii		No Donohmark
100 T						(CC)		No Benchmark
100m Transect: Ti	ee and Shrul					(SC), Emerge		
Distance (m)	1_	Туре	Distance (m	) 	Туре	Distance (m	l)	Туре
0-5	5	C						
16-43	27	C						
75-80	5	С						
86-100	14	C						
	1							
						canopy tota	! .l	51
								31
	_					subcanopy		
		ļ				emergent to	otal	
						shrub total		



North South



East West



Ground

			Biocondition	Datasheet					
Site ID	1376		Biocondition	Datasileet			Date	3/03	3/2021
Observers	Donovan Sha	rp, Heath Agr	new						
Site Information: 100x50m Area:									
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South	
Datum	GDA94	1							
Zone	55 J	Easting			Northing			1	
Plot origin	333	Lusting	740436		i tortimis		7063272		1376
Plot centre			7 10 150	740404			7063272		1377
Plot Bearing	N		Plot Alignme	nt Description	]		7003223	1	13//
Locality	Roma SD 22		riot Aligilille	iit Description	<u> </u>				
Locality	Wyena								
Regional Ecosystem a	,	nt							
Regional Leosystem e	Tree neigh								
Habitat Description									
Regional Ecosystem		11.7.7		Median Tree	canopy Heigh	nt (m)	20		
,	Emergent he	ight (m)			Subcanopy h		8	1	
Site Photos		North	6941	South	6942				
Photo Numbers		East		West	6945	†			
	Plot Origin			other	6945	†			
Disturbance						rea: Tree SPP.	Richness		
	mean fire							Ī	
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	fibrosa subs	p.nubilis	
Wildfire	na					Callitris glau	ucophylla	Tree Spp. Co	unt
Prescribed burn	na					Allocasuarir	na luehmann		3
Logging	na					'			
Treatment	na								
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris		
Non-native plant cove	<5%				Specimen lei		,		
Erosion	na							site total m	
Regeneration	30%								92
Storm	na							per ha (m)	
Other (specify)	na							, ,	920
50 x 10m Area		Native Plan	t Species Ric	hness			Total		
Shrub sp.	Geijera parv		•						
	Acacia shirle	eyi							
	Psydrax ole	ifolia							
				lo :::: ::					
Grass sp.	Aristida caly Aristida ram			Enteropogo	m spicigeru	m —			
	Eragrostis b			*Melinis re					
		ut-medusae		IVICIIIII3 I C	Jens				
	Panicum lae								
	Paspalidium								
		e uncinulata	1						
	*Paspalum	urvillei							
Forbs/other sp.	Solanum ell								
		m americani	um						
	*Sida corruş Seringia col								
	Calotis cune								
	Solanum co								
	Abutilon ox	ycarpum							
	Fimbristylis	dichotoma							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G			1	Γ	1	Γ	T	1
Ground cover typ		_	1	2	3	4	5	Mean
Native perennial		d						
intermediate) gra			25	40	20	60		
Native non-prefer			0	0	0	0	_	~
Native forbs and			5	0	40	10		
Native shrubs (< 2	lm height)		0	0	0	0	_	
Non-native grass			0	0	0	0		
Non-native forbs	and shrubs		0	0	0	0	_	_
litter rock			40	40	25 0	25 0		
bare ground			30	0 20	15	5	_	
Cryptograms			0	0	0	0		
Total			100	100	100	100	_	~
100 x 50m Area:	Largo Troos	Plot size	100x 50	100	100x 20	100	100 x 10	100
Species		Euc (E) Non-Euc (N)		DBH			100 % 10	
Eucalypts	Avg DBH threshold No. Trees	4	RE No. Trees >		Euc Benchn	Euc Benchn	nark 8	
Non-Eucalypts	Avg DBH threshold		RE		Euc Benchn	Euc Benchn		
100m Transact: T	No. Trees		No. Trees >			CC\ F:====	8 nt (E) Shoul	
100m Transect: T	ree and Shrui		ver Distance (m			Distance (m	nt (E), Shrub	
Distance (m) 0-3	12	Туре	Pistalice (M	1	Туре	pistalice (II)	' <i>j</i>	Туре
	3	C						
25.5-30.5	5	С						
56-62	6	С						
69-72.5	3.5	C						
87-91	4	С						
21-24	3	S						
26.5-36	9.5	S						
41.5-42	0.5	S						
98-100	2	S				canopy tota	nl	21.5
						subcanopy		15
						emergent to		15
						shrub total		
		<u> </u>	<u> </u>	<u> </u>	<u> </u>	Sin up total		<u> </u>





East West



Ground

Site ID	1394	]	Bioconditio	n Datasheet			Date	4/03/2021
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information: 100x50m Area:								
Location (GPS refere	nce)					Bioregion	Brigalow Bel	t South
Datum	GDA94	]				- 0 -	0	
Zone	55 J	Easting			Northing			1
Plot origin		, ,		72891	_		7058636	1394
Plot centre				72895	59		7058607	1395
Plot Bearing			Plot Alignme	ent Description				
Locality	Roma SD 22							
	Myalla							
Regional Ecosystem a		nt						
Habitat Description	11.7.7 Regro	wth after clea	aring. Occasio	nal relictual	emergents			
Regional Ecosystem		11.7.7		Median Tre	e canopy Heigh	nt (m)	12	
20 2 2 22 22 22 23	Emergent he		2:		Subcanopy h		5	+
Site Photos	Plot centre	North		3 South	6989		_	
Photo Numbers		East		West	6991	†		
	Plot Origin			other	6992	1		
Disturbance					100 x 50m A	rea: Tree SPP.	Richness	
	mean fire							
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	crebra	
Wildfire	na					Callitris glau	cophylla	Tree Spp. Count
Prescribed burn	na					Acacia burrov	vii	6
Logging	na					Eremophila	deserti	
Treatment	na					Eucalyptus	fibrosa subs	p.nubilis
						Eucalyptus	populnea	
Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris	
Non-native plant cov	€<5%				Specimen lei	ngth (mm)		-
Erosion	na							site total m
Regeneration	80%							95m
Storm	na							per ha (m)
Other (specify)	na							950
50 x 10m Area			nt Species R	ichness			Total	
Shrub sp.	Acacia deco							
	Philotheca	a pubescens	<b>S</b>					
	Timotheca	41110111113						
Grass sp.	Ancistrachn	e uncinulata	3					
	Paspalidium							
	•	ut-medusae	!					
	Eriachne m							
	Aristida ram *Melinis re							
	*Urochloa	panicoides						
Forbs/other sp.	Evolvulus al							
	Seringia col							
	Solanum ell	ı americanuı inticum	Ш					
	Calotis cune							
	Solanum co							
	Goodenia s							
	Sida corruga							
	Nyssanthes	erecta						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G			T	T	T	ı		
Ground cover type			1	2	3	4	5	Mean
Native perennial		d						
intermediate) gra			10	5	10	5	5	
Native non-prefer			0	0	0	0	0	(
Native forbs and			5	0	45	5	50	2:
Native shrubs (< 1	ım neignt)		0	0	0	0	0	(
Non-native grass Non-native forbs	and chrubs		0	0	0	0	0	(
litter	and shrubs		55	25	35	35	0 30	36
rock			20	30	0	5	0	11
bare ground			10	40	10	50	15	25
Cryptograms			0	0	0	0	0	(
Total			100	100	100	100	100	100
100 x 50m Area:	Large Trees	Plot size	100x 50		100x 20		100 x 10	
Species		Euc (E) Non-Euc (N)		DBH				
Eucalypts Non-Eucalypts	Avg DBH threshold No. Trees Avg DBH threshold		RE No. Trees >	= Benchma	rk/ha	Euc Benchm	12	
Non-Eucarypts	No. Trees	0	No. Trees >			Euc Benciiii		
100m Transect: T						SC), Emerge	nt (E) Shrub	
Distance (m)	iee aliu Siirul	Туре	Distance (m		Туре	Distance (m		Type
0-5	5		טואנמוונע (ווו	<i>)</i>	Type	טוטנמוונע (ווו	<i>)</i>	Type
18-19		С						
30.5-35.5	5	С						
		С						
45-48	3	С						
21-24	2	6						
	3	S						
39-42	3	S						
59-63	4	S						
79-80	1	S						
						canopy tota		14
79-89	10	Е				subcanopy t		13
						emergent to	otal	10
						shrub total		



North South



East West



Ground

Site ID	1396		Biocondition	Datasheet			Date	5/03/2021
Observers	Donovan Sha	rp, Heath Agr	new					
Site Information:								
100x50m Area:								
Location (GPS referen	ice)	-				Bioregion	<b>Brigalow Belt</b>	t South
Datum	GDA94				_			_
Zone	55 J	Easting			Northing			
Plot origin				74021	3		7063353	1396
Plot centre				74019	6		7063401	1397
Plot Bearing	N		Plot Alignme	nt Descriptio	on			-
Locality	Roma SD 22							
	Wyena							
Regional Ecosystem a	nd Tree heigh	nt						
Habitat Description	grey silty clay	1						
	remnant							
Regional Ecosystem		11.9.10		Median Tre	e canopy Heigh	nt (m)	10	
,	Emergent he		22	1	Subcanopy h		4	†
Site Photos		North		South	7003			
Photo Numbers		East		West	7005	†		
	Plot Origin			other	7006	†		
Disturbance						rea: Tree SPP.	Richness	
	mean fire							1
Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	woollsiana	
Wildfire	na					Acacia harp	ophylla	Tree Spp. Count
Prescribed burn	na					Eucalyptus	crebra	7
Logging	na					Geijera parv	riflora	
						Eucalyptus	populnea	
						Casuarina c		
Treatment	na					Hakea Iorea	subsp. lorea	a
Grazing	yes	moderate			50 x 20m Are	a: Coarse woo		
Non-native plant cove	<5%				Specimen ler	ngth (mm)		
Erosion	na							site total m
Regeneration	100%							58
Storm	na							per ha (m)
Other (specify)	na							580
50 x 10m Area	1111	Native Plan	t Species Ric	hness			Total	
Shrub sp.	Eremophila							
	Capparis las	iantha						
Grass sp.								
Grass sp.	Aristida can	ut-medusae						
	Eragrostis b		<u>'</u>					
		seudoacrotri	icha					
	Paspalidium							
	Ancistrachn	e uncinulata	1					
Forbs/other sp.								
	*Harrisia m	artinii						
	Solanum ell	ipticum						
	Seringia col							
	Solanum co							
	Abutilon ox Sclerolaena							
	Cyperus gra							
	cypcius gia	CIIIS						

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: G					1	1	1	
Ground cover typ			1	2	3	4	5	Mean
Native perennial (								
intermediate) gra			0	0	5		5	
Native non-prefer			0	0			0	
Native forbs and o			5	0				
Native shrubs (< 1	lm height)		0	0	0			
Non-native grass			0	0	0			
Non-native forbs	and shrubs		0	0	0		0	
litter rock			65 5	80	70 0		65 0	
bare ground			25	20	10		_	
Cryptograms			0	0	0			
Total			100	100	100	_		
100 x 50m Area: l	arge Trees	Plot size	100x 50	100	100x 20	100	100 x 10	103
100 x 30111 Area. I	aige ilees	Euc (E)	100x 30		100x 20		100 X 10	
		Non-Euc		DBH				
Species		(N)	Diam (cm)					
эрссісэ		(14)	Diam (cm)					
	Avg DBH							
Eucalypts	threshold		RE	47	Euc Benchn	Euc Benchm	nark	
	No. Trees	3	No. Trees >	= Benchma	rk/ha		6	
	Avg DBH							
Non-Eucalypts	threshold		RE	27	Euc Benchn	Euc Benchm	nark	
	No. Trees	3	No. Trees >				6	
100m Transect: T						(SC), Emerge		
Distance (m)		Туре	Distance (m		Туре	Distance (m		Туре
30-37	7	c	47-50	3	S	(		, , , , , , , , , , , , , , , , , , ,
41-49	8	С	55-74	9	S			
77-80	3	С	78-81	3	s			
82.5-87	4.5	С	88-91	3	S			
02.5 07	7.5		92-96	4	S			
3-13	10	Е	99-100	1	S			
55-61	6	_		-	~			
55-01	0							
2-4	2	6						
	7	S				0000000000	.1	22.5
10-17		S				canopy tota		22.5
23-36	13	S				subcanopy		47
40-42	2	S				emergent to	otal	16
						shrub total		







Ground

Observers  A Daniel  Site Information: 100x50m Area: 100x50m Area: 100x50m Area: 100x50m Area: 100x50m Area: 100x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area: 10x50m Area:				Biocondition	Datasheet					
Site Information:  100x50m Area:  100x60m (GPS reference)	Site ID	1819						Date	25/1	1/2021
Disturbance   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot corigin   Piot Alignment Description   Piot Alignment Description   Piot Alignment Description   Piot Alignment Description   Piot Alignment Description   Piot Alignment Description   Piot Alignment Description   Piot Corigin   Piot Alignment Description   Piot centre North   4224 South   4225   S   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin   Piot Corigin	Observers	A Daniel								
Datum   SDA94	Site Information: 100x50m Area:									
Datum   SDA94	Location (GPS referer	nce)					Bioregion	Brigalow Bel	t South	
Zone   S5 J   Easting   735424   Northing   7065164   7065116   Pilot centre   Pilot Easting   Pilot Alignment Description   Regional Ecosystem and Tree height   Pilot Alignment Description   Regional Ecosystem   11.9.7   Median Tree canopy Height (m)   14   Habitat Description   Emergent height (m)   Subcanopy ht (m)   10   Site Photos   Pilot Centre North   4224   South   4225   S   Photo Numbers   East   42.66 West   4227   Pilot Origin   Disturbance   International Prescribed burn   International Prescribed burn   International Prescribed burn   International Prescribed burn   International Prescribed burn   International   International Prescribed burn   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   International   In	Datum						Ü			
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Plot Bearing Roma SD 22   Mostyn Station   Regional Ecosystem and Tree height   Habitat Description	Plot origin				735404			7065116		
Regional Ecosystem and Tree height Habitat Description Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosystem Regional Ecosys	Plot centre									
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Regional Ecosystem and Tree height Habitat Description  Regional Ecosystem  I 1.9.7	_	Roma SD 22		Ţ,	<u> </u>					
Habitat Description remnant    Application   Plot created North   Plot Origin	,	Mostyn Statio	on							
Regional Ecosystem    11.9.7	Regional Ecosystem a	nd Tree heigh	nt							
Emergent height (m)   Subcanopy ht (m)   10	Habitat Description	remnant								
Emergent height (m)   Subcanopy ht (m)   10	Regional Ecosystem		11.9.7		Median Tree	canopy Heigh	nt (m)	14		
Site Photos Photo Numbers  Plot Origin  Disturbance  Mean fire Type Scar height severity Wildfire Na  Malvastrum amrcianum  Native Plant Species Richness  Series Photos  Plot Origin  Disturbance  Mean fire Type Scar height severity Mildfire Na  Malvastrum amrcianum  Native Plant Species Richness  Total  South A2225 S  West A2227  Other  Other  100 x 50m Area: Tree SPP. Richness  Tree Species  Lucalyptus melanophlota  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp.	,	Emergent he	ight (m)		]				1	
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Plot Origin other   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Tree SPP. Richness   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Coarse woody Debris   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x 50m Area: Tree Spp. Count   100 x										
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mean fire scar height severity last event obs type Tree Species Eucalyptus melanophloia Wildfire na	Disturbance	l lot ongin			Other	100 x 50m A	rea: Tree SPP.	Richness		
Wildfire  na  Prescribed burn  na  Logging  na  Tree Spp. Count  Eremophila mitchellii  Callitris galucophylla  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Count  Tree Spp. Cou		mean fire							Ī	
Wildfire    na	Туре	scar height	severity	last event	obs type	Tree Species	Eucalyptus	melanophloi	a	
Prescribed burn na Eremophila mitchellii Callitris galucophylla Treatment na Sorazing yes moderate Sova 20m Area: Coarse woody Debris Non-native plant cove <1 Specimen length (mm)  Erosion na Stet total mana Stet (management) na Stet total management (management) na Stet (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (management) na Sova 10m Area (man	Wildfire	na					Eucalptus p	opulnea	Tree Spp. C	ount
Logging na Callitris galucophylla  Treatment na Sox 20m Area: Coarse woody Debris  Non-native plant cove <1 Specimen length (mm)  Erosion na Site total m  Regeneration 100 Storm na Native Plant Species Richness Total  Shrub sp.  Geijera parviflora Carissa ovata  Grass sp. Arisitda calycina Cenchrus ciliaris* Enteropogogon ascicularis  Enteropogogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon	Prescribed burn	na								4
Treatment na	Logging	na								
Non-native plant cove <1 Specimen length (mm)  Erosion na Site total m  Regeneration 100 Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Specimen length (mm)  Storm na Spec	Treatment	na								
Non-native plant cove <1 Specimen length (mm)  Erosion na Site total m  Regeneration 100 Specimen length (mm)  Site total m  32 per ha (m)  Other (specify) na Native Plant Species Richness Total  Shrub sp.  Geijera parviflora  Carissa ovata  Grass sp. Arisitda calycina  Cenchrus ciliaris*  Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum  Abutlion oxycarpon	Grazing	yes	moderate			50 x 20m Are	ea: Coarse woo	ody Debris		
Erosion na 100 32 Storm na 100 320 Per ha (m) 320 Storm na Native Plant Species Richness Total Shrub sp.  Geijera parviflora Carissa ovata  Grass sp. Arisitda calycina Cenchrus ciliaris* Enteropgogon ascicularis  Erots/other sp. Malvastrum amrcianum Abutlion oxycarpon		<1				Specimen ler	ngth (mm)			
Storm na na na na na na na na na na na na na	Erosion	na							site total m	
Storm na na na na na na na na na na na na na	Regeneration	100								32
Other (specify)  na  Native Plant Species Richness  Total  Shrub sp.  Geijera parviflora  Carissa ovata  Grass sp.  Arisitda calycina  Cenchrus ciliaris*  Enteropgogon ascicularis  Forbs/other sp.  Malvastrum amrcianum  Abutlion oxycarpon	Storm	na							per ha (m)	
Shrub sp.  Geijera parviflora Carissa ovata  Grass sp. Arisitda calycina Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon		na							, , ,	320
Geijera parviflora Carissa ovata  Grass sp. Arisitda calycina Cenchrus ciliaris* Enteropgogon ascicularis  Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon	50 x 10m Area		Native Plan	t Species Ric	hness			Total		
Carissa ovata  Grass sp. Arisitda calycina Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon	Shrub sp.									
Grass sp. Arisitda calycina Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon										
Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon		Carissa ovat	:a							
Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon										
Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon										
Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon										
Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon										
Cenchrus ciliaris* Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon										
Enteropgogon ascicularis  Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon	Grass sp.	Arisitda caly	/cina							
Forbs/other sp. Malvastrum amrcianum Abutlion oxycarpon				ic						
Abutlion oxycarpon		Enteropgog	on ascicular	15						
Abutlion oxycarpon										
Abutlion oxycarpon										
Abutlion oxycarpon										
Abutlion oxycarpon										
Abutlion oxycarpon	Camba/attan	N 4 a le re- a l								
	rorps/otner sp.									
Entry delia comencoa										
		Zitoriyiaciia	torricitosa							

			Bioconditio	n datasheet	(cont.)			
10 x 10m Plots: Grou	und Cover							
Ground cover type			1	2	3	4	5	Mean
Native perennial (pre	eferred and							
intermediate) grass			5	10	5	0	15	
Native non-preferred			0	0	0	0	0	
Native forbs and oth			5	0	0	0	0	
Native shrubs (< 1m	height)		0	0	0	0	0	
Non-native grass			0	0	0	0	0	
Non-native forbs and	d shrubs		0	0	0	0	0	_
litter			25	50	20	60	15	
rock			0 65	0	0 75	0 40	0	_
bare ground			05	40	0	0	70 0	
Cryptograms Total			100	100	100	100	100	
		Diet size	100x 50	100		100		100
100 x 50m Area: Larg	ge rrees	Plot size	100x 50		100x 20		100 x 10	
		Euc (E)		5511				
		Non-Euc	,	DBH				
Species		(N)	Diam (cm)					
	Ava DDII							
	Avg DBH				'	'		
, · ·	threshold		RE			Euc Benchn	nark	
	No. Trees	3	No. Trees >	= Benchma	rk/ha			
	Avg DBH							
	threshold		RE			Euc Benchn	nark	
	No. Trees		No. Trees >					
100m Transect: Tree	and Shrub					SC), Emerge		
Distance (m)		Туре	Distance (m		Туре	Distance (m	)	Туре
	5	С		2	sh			
	11	С		5	sh			
		С						
	7							
	<u> </u>							
						canopy tota		24
						subcanopy		
						emergent to	otal	
						shrub total		7











Appendix H
BioCondition data

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
914	11.5.1	remnant	2	34	NA	17	5	100	NA	38.5	21.5	5.5	385	7	2	5	2	4	35	44	654	48	4.8
916	11.5.5	remnant	6	0	14	12	5	75	NA	40	36	2.5	520	5	4	6	3	4	28	43	43	3	19.5
918	11.7.2	remnant	0	0	NA	10	0	100	NA	59	0	0	1100	2	1	4	4	1	1	79.2	1	3	0
920	11.9.10	regrowth	6	0	18	9	4	60	20.5	38	0	4	440	9	4	3	6	4	2.6	51.8	13	0	0

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
922	11.9.10	regrowth	2	0	18	8	5	100	7.5	3.5	33.5	0.5	50	5	2	5	2	2	21.4	31	10	9	0
924	11.9.5	regrowth	0	0	10	4	0	100	4	20	0	1	0	2	6	2	6	1	1.4	17.6	10	11	0
940	11.9.10	remnant	0	36	18	9	3	50	0	59.5	12	1.5	1090	7	2	3	1	1	0	69	12	8	41.5
984	11.3.2	regrowth	2	0	22	5	0	100	NA	25.5	3	0	30	1	1	4	2	1	34	37	15	13	51.8
989	11.3.25	remnant	20	0	NA	23	0	0	NA	71.5	0	1	10	4	1	0	0	100	0	33	27	12	14.4

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
1007	11.7.2	remnant	0	0	NA	8	2	100	NA	53	2	0.5	360	3	1	1	2	1	5	68	318	56	93.8
1171	11.5.1	regrowth	0	0	NA	17	7	50	NA	23.5	17	0	300	2	2	3	2	1	11	51	24	61	100
1229	11.3.25	regrowth	0	0	NA	10	5	100	NA	22	12	0	295	4	1	5	3	100	11	45	441	64	41
1232	11.5.1	regrowth	0	0	12	6	0	100	13	24.5	0	0	495	5	1	7	6	80	12	55	593	68	93.8
1247	11.3.25	regrowth	0	0	NA	10	6	100	NA	56	0	0	555	2	1	6	5	80	18	24	27	7	14.4

siteid	ē	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
1249	11.5.5	regrowth	0	0	NA	13	8	100	NA	4	41.5	0	140	4	5	5	13	10	4	18	27	9	14.4
1255	11.5.5	Regrowth	0	0	NA	6	0	100	NA	25	11.5	0	360	4	3	6	8	4	27	32	73	28	90.7
1278	11.3.2	remnant	0	0	NA	18	7	66	NA	17.5	40	1	250	3	3	3	8	15	21	44	27	12	14.4
1330	11.9.10	remnant	2	6	NA	14	9	100	NA	7	7	59	1040	3	3	1	0	4	0	71	6	7	0
1332	11.5.5	regrowth	0	0	NA	12	3	100	NA	36	0	0	540	3	5	6	6	4	19	33	60	31	41.4

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
1334	11.9.10	regrowth	0	0	NA	9	0	100	NA	62.5	7	0	770	2	3	7	4	1	3	87	6	43	0
1336	11.3.2	remnant	0	0	NA	18	9	100	NA	34.5	16.5	0	700	2	4	7	6	1	9.5	62	2	37	0
1338	11.9.10	regrowth	0	0	NA			100	NA	42.5	41	0	1380	4	4	1	5	1	0	78	62	50	60.1
1340	11.7.6	Regrowth	0	0	NA	14	5	0	NA	75	1	0	980	7	5	4	13	4	14	56	40	15	0
1342	11.7.6	Regrowth	0	0	NA	13	0	100	2	41.5	0	0	260	3	2	9	15	1	26	28	40	18	0

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
1344	11.7.2	remnant	0	0	NA	10	6	66	NA	24	17	0	490	6	1	4	5	1	19	24	122	37	88.1
1348	11.7.6	Remnant	0	0	NA	12	8	100	NA	27	57	0	195	4	3	9	13	4	17	40	122	33	88.1
1350	11.7.6	Remnant	2	0	NA	16	8	66	NA	41	0	7	340	6	2	6	13	4	38	38	22	15	0
1353	11.7.7	regrowth	0	0	NA	16	7	66	NA	24	49	0	670	3	2	7	8	4	29	43	39	14	14.5
1355	11.7.2	regrowth	0	0	NA	9	0	100	NA	75.5	0	0	210	3	0	3	6	1	34	34	10	17	0

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
1357	11.7.2	regrowth	0	0	NA	4	0	100	NA	52.5	0	0	30	2	0	5	5	30	8	66	48	55	35.5
1359	11.7.7	remnant	0	0	NA	16	8	50	NA	6	29	0	370	3	3	5	3	4	21	24	17	5	35.4
1361	11.5.1	remnant	14	24	NA	16	8	100	NA	28	28.5	0	390	3	2	6	11	4	65	26	48	45	52.9
1363	11.5.1	remnant	28	4	NA	18	9	50	NA	45	19	0	380	2	5	8	8	50	37	29	90	26	63.1
1366	11.9.6	remnant	10	20	NA	15	0	100	NA	59.5	0	0	465	2	2	4	7	1	2	36	656	26	51.8

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	patch_size_ha	context_rating	connectivity_rating
1368	11.9.6	regrowth	0	0	NA	6	0	50	NA	86	0	0	410	2	0	3	10	4	40	39	73	29	90.7
1370	11.3.2b	remnant	44	0	NA	17	0	0	NA	38	0	0	220	1	0	2	13	1	4	39	40	8	5.7
1372	11.3.2b	regrowth	0	0	NA	21	0	33	NA	82	0	3.5	140	3	0	3	8	4	39	35	35	11	36.6
1374	11.3.2b	remnant	48	0	NA	24	0	100	NA	51	0	0	400	1	0	1	6	1	20	33	10	29	1.8
1376	11.7.7	remnant	8	8	NA	20	8	30	NA	21.5	15	0	920	3	3	9	6	4	33	32	593	68	93.8

siteid	re	growth_status	tot_num_large_trees_euc_ha	tot_num_large_trees_non_euc_ha	emergent_height	canopy_height	subcanopy_height	recruitment_canopy_sp	tree_emergent_cov	tree_canopy_cov	tree_subcanopy_cov	shrub_canopy_cover	woody debris_length_ha	tree_sp_richness	shrub_sp_richness	grass_sp_richness	forb_other_sp_richness	non-native_cover	native_per_grass	25_litter_grd_cov	_patch_size_ha	context_rating	connectivity_rating
1394	11.7.7	regrowth	12	0	21	12	5	80	NA	14	11	10	950	6	3	5	9	4	7	36	47	29	55.3
1396	11.9.10	remnant	6	6	22	10	4	100	NA	22.5	47	16	580	7	2	5	6	4	6	68	33	16	57.5
1819	11.9.7	remnant	6	0	NA	14	10	100	NA	24	0	7	320	4	2	2	3	1	7	34	81	57	78.2

## Appendix I

Threatened Wildlife Habitat Significant Residual Impact Assessment



## Significant residual impact assessment for South-eastern Long-eared Nyctophilus corbeni (NCA Vulnerable; EPBC Vulnerable) Significant Residual Impact Response Guideline Criteria. SRI unlikely MSES – a long-term decrease The impact area is comprised of 2.3 ha of habitat spread over 11 in the size of a local km of pipeline within a clearing width of no more than 42m. population. Habitat clearing is largely confined to the edges of larger patches of MNES – lead to a long-term habitat. The largest remnant patch of habitat that will be cleared is decrease in the size of an a 0.87 ha linear strip less than 13m wide. important population of a species Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment. No significant Impact MSES – a reduced extent of No areas of breeding or roosting habitat are likely to be cleared. occurrence of the species The general absence of large old trees and associated exfoliating MNES – reduce the area of bark and hollows reduces the roosting quality of this habitat. There occupancy of an important are large expanses of potential habitat for this species within the population local landscape much of it containing older growth forests. The removal of the narrow strips of low-quality foraging habitat will not significantly impact on the ability of this species to forage within the Project area and will not reduce the extent of occurrence of the species. No significant Impact MSES – fragmentation of an This is an aerial species that hunts and disperses at night the existing population removal of the narrow strips of foraging habitat will not fragment MNES - fragment an existing an existing population. important population into two or more populations No significant Impact MSES – result in genetically This is an aerial species that hunts and disperses at night the distinct populations forming removal of the narrow strips of foraging habitat will prevent the as a result of habitat isolation movement of genetic material within the local population. MNES – adversely affect habitat critical to the survival of a species No significant Impact MSES – Result in invasive Clearing will not result in introduction of any invasive species species that are harmful to known to predate the Painted Honeyeater not already present in an endangered or vulnerable the local environment. species becoming established in the



## Significant residual impact assessment for South-eastern Long-eared Nyctophilus corbeni (NCA Vulnerable; EPBC Vulnerable) Significant Residual Impact Response Guideline Criteria. endangered or vulnerable species' habitat. MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat No significant Impact MSES – Introduce disease The proposed clearing will not introduce any diseases known to that may cause the impact on extant populations of this species. population to decline MNES – introduce disease that may cause the species to decline No significant Impact MSES – Interfere with the The recovery of this species is predominantly dependant on the recovery of the species. presence of large tracts of native open forest and woodlands with MNES – interfere sufficient old growth and mature trees. The removal of the substantially with the relatively small amount of linear areas of young woodlands is very recovery of the species unlikely to interfere with the recovery of this species. No significant Impact MSES – disruption to No breeding or roosting sites are likely to be removed by the ecologically significant current Project and the loss of a relatively small amount of low locations (breeding, feeding quality feeding habitat for this species is unlikely to disrupt the or nesting sites) of a species breeding cycle of individuals within an important population. MNES – Disrupt the breeding cycle of an important population. MNES – modify, destroy, No significant Impact remove or isolate or The removal of a relatively small amount of low quality feeding decrease the availability or habitat is unlikely to the decline in this species. quality of habitat to the extent that the species is likely to decline



Significant resid	dual impact assessment for Greater Glider
	Petauroides volans
Ciamificant Davidual Incorpor	(NCA Vulnerable; EPBC Vulnerable)
Significant Residual Impact Guideline Criteria.	Response
MSES — a long-term decrease in the size of a local population.  MNES — lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 2.9 ha of habitat spread over 11 km of pipeline within a clearing width of no more than 42m. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with a sufficient density of large hollows to accommodate this species within the alignment.
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact No areas of breeding or roosting habitat will be cleared. This species has a small home range associated with large hollows. The clearing is not located near areas supporting sufficient hollow densities to support this species and therefore the loss of potential feeding resource is insignificant.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The clearing extent is never more than 42m wide. The gliding distance of this species is up to 100m. Rehabilitation is proposed for much of the alignment width providing for movement of this species between potential habitat patches. Fragmentation of an existing population will not occur,
MSES – result in genetically distinct populations forming as a result of habitat isolation MNES – adversely affect habitat critical to the survival of a species	No significant Impact The clearing extent is never more than 42m wide. The gliding distance of this species is up to 100m. Rehabilitation is proposed for much of the alignment width providing for movement of this species between potential habitat patches It is unlikely that the clearing will restrict the movement of individuals of this species preventing the formation of genetically distinct populations.
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the	No significant Impact Clearing will not result in introduction of any invasive species known to predate the Greater glider that are not already present in the local environment. Hyper predation by owls is likely to be decreased by the reduction in suitable habitat for Powerful and



Significant resid	dual impact assessment for Greater Glider  Petauroides volans  (NCA Vulnerable; EPBC Vulnerable)
Significant Residual Impact Guideline Criteria.	Response
endangered or vulnerable species' habitat.	Sooty owls that prefer areas of dense cover (TSSC 2016).
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact Introduction of disease is not listed as a threat to this species (TSSC 2016). The project is unlikely to introduce a disease that may cause
MNES – introduce disease that may cause the species to decline	the species to decline.
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact No breeding habitat was identified within the clearing area and progressive rehabilitation post-construction will lead to a minimal net loss in potential feeding habitat for this species
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	No significant Impact No breeding or roosting habitat was identified within the clearing area. This is not a migratory species and therefore disruption of an ecologically significant population will not occur.
MNES – Disrupt the breeding cycle of an important population.	
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.
TPSP (2016) – Threatened Spe	cies Scientific Committee, <i>Petauroides volans</i> (greater glider)

TPSP (2016) – Threatened Species Scientific Committee, *Petauroides volans* (greater glider) Conservation Advice; effective from 05/05/2016.



Significant	residual impact assessment for Koala  Phascolarctos cinereus
MSES Significant Residual	(NCA Endangered; EPBC Endangered)
Impact Guideline Criteria.	Response
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 2.3ha of habitat spread over 11 km of pipeline within a clearing width of no more than 42m. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). The proposed action will not increase the known threats of increased mortality due to dog attacks and vehicle strikes.
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The koala is a widely distributed species. The current proposed impact will have a minimal impact on potential feeding habitat for a few individuals of this species and will not reduce its current extent of occurrence.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The clearing extent is never more than 42m wide and will not be fenced post-construction. The koala is known to traverse open areas of at least 100m to reach food trees. No fencing is proposed. The rehabilitation of much of the alignment width will ensure that the existing population is not fragmented.
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	No significant Impact The clearing extent is never more than 42m wide and will not be fenced post-construction. Dispersing male koalas are known to travel kilometres in search of a mate. The proposed 42m wide clearing will not isolate local populations and therefore genetically distinct populations will not form.
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable	No significant Impact Clearing will not result in introduction of any invasive species known to predate the koala not already present in the local environment. The proposed action will not increase the known threats of increased mortality due to dog attacks and vehicle strikes



Significant residual impact assessment for Koala		
Phascolarctos cinereus		
	(NCA Endangered; EPBC Endangered)	
MSES Significant Residual Impact Guideline Criteria.	Response	
species' habitat.		
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat		
MSES – Introduce disease that may cause the population to decline  MNES – introduce disease that may cause the species to decline	No significant Impact Chlamydia pneumoniae and Chlamydia pecorum are endemic in wild koala populations and will not be introduced from pipeline construction activities.	
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact Habitat loss, fragmentation and feral animal predation are three key areas that impact koalas. None of these three factors will be significantly increased by the construction of the pipeline. The rehabilitation of most of the right of way post construction will aid in the recovery of habitat for this species. The proposed clearing will not interfere with the recovery of this species.	
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important population.	No significant Impact The potential habitat loss brought about by the construction of the pipeline is only a small proportion of any home range for this species and scattered as small patches over 11km. This represents the loss of a very small amount of feeding and resting resource for a few individuals of this species in a landscape that provides large areas of feeding, breeding and resting habitats. The proposed clearing will not disrupt any ecologically significant locations for this species.	
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.	



Significant residual impact assessment for Glossy Black-Cockatoo		
	Calyptorhynchus lathami (NCA Vulnerable; EPBC Not Listed)	
Significant Residual Impact Guideline Criteria.	Response	
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 2.3ha of habitat spread over 11 km of pipeline within a clearing width of no more than 42m. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the	
	potential feeding habitat lost during the construction phase making the impact temporary (refer condition I3 of EA EPPG04323316).  There are no areas with a high density of potential feed trees within the alignment and no feeding sites were observed.	
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The loss in feeding resources for this species is small, spread out across 11 km and no occurrences of feeding were recorded within the impact area. This species is widely distributed with large home ranges the temporary and limited nature of the impact will not reduce the current extent.	
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact This species is a large bird that has been observed to fly more than 10 km between feeding areas. The 42m wide clearing will not create a barrier for this species and will not fragment existing populations.	
MSES – result in genetically distinct populations forming as a result of habitat isolation MNES – adversely affect habitat critical to the survival of a species	No significant Impact The clearing extent is never more than 42m wide and will not be fenced post-construction. This species is a large bird that has been observed to fly more than 10 km between feeding areas allowing for the transfer of genetic material and preventing to formation of genetically distinct populations.	
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact Clearing will not result in introduction of any invasive species known to predate the Glossy Black-cockatoo not already present in the local environment.	



Significant residual impact assessment for Glossy Black-Cockatoo  Calyptorhynchus lathami  (NCA Vulnerable; EPBC Not Listed)	
Significant Residual Impact Guideline Criteria.	Response
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact The proposed clearing will not introduce any diseases known to impact on extant populations of this species.
MNES – introduce disease that may cause the species to decline	
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact The loss of feeding habitat, nesting trees and drinking sites are thought to be the cause in the decline of this species (Glossy Black Conservancy 2010). The loss of food trees will be minimal and there will be no loss in nesting trees or drinking site brought about by the construction of the pipeline. Rehabilitation requirements will result in replacement of most of the lost potential feeding resource and an insignificant impact of the recovery of this species
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important	No significant Impact The loss of feeding habitat, nesting trees and drinking sites are thought to be the cause in the decline of this species (Glossy Black Conservancy 2010). The loss of food trees will be minimal and there will be no loss in nesting trees brought about by the construction of the pipeline. There will be no significant impact or
population.  MNES – modify, destroy,	an ecologically significant location for this species.  No significant Impact
remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.

Glossy Black-Cockatoo Conservation Guidelines for South-eastern Queensland and far North-Eastern New South Wales.



Significant residual impact assessment for Painted Honeyeater	
Grantiella picta	
	(NCA Vulnerable; EPBC Vulnerable)
Significant Residual Impact Guideline Criteria.	Response
MSES — a long-term decrease in the size of a local population.  MNES — lead to a long-term decrease in the size of an important population of a species	SRI unlikely  The impact area is comprised of 2.3ha of habitat spread over 11 km of pipeline within a clearing width of no more than 42m. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values (mistletoe or old growth trees) for this species within the alignment.
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The species is sparsely distributed from south-eastern Australia to north-western Queensland and eastern Northern Territory. This species travels large distances following the seasonal fruiting of mistletoe. The clearing of 10.43 ha of potential habitat across a 42m wide strip spread over 11km will not reduce the extent of occurrence of this species.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The clearing extent is never more than 42m wide and will not be fenced post-construction. The Painted Honey eater is known to move seasonally north-south governed principally by the fruiting of mistletoe. This clearing will not create a barrier that will fragment an existing population.
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	No significant Impact Considering its dispersive habits, the species is considered to have a single population (Garnett et al., 2011). This population is spread over 1000's of km², the bird dispersing readily in response to mistletoe flowering. The proposed clearing will not isolate habitat resulting in the formation of a genetically distinct population.
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the	No significant Impact Clearing will not result in introduction of any invasive species known to predate the Painted Honeyeater not already present in the local environment.



Significant residual impact assessment for Painted Honeyeater  Grantiella picta  (NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
endangered or vulnerable species' habitat.	
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact The proposed clearing will not introduce any diseases known to impact on extant populations of this species.
MNES – introduce disease that may cause the species to decline	
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact Habitat loss, especially within the SE of Australia is the key threat to this species. The loss of such a small amount of potential feeding resource that does not provide any significant areas of feeding resource (mistletoes) combine with requirements to rehabilitate a substantial proportion of the clearing area will minimise impacts on this species and will not interfere with its recovery.
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	No significant Impact There were no areas of high mistletoe concentrations observed within the clearing footprint. The clearing will not cause disruption to significant locations of feeding or nesting sites for this species.
MNES – Disrupt the breeding cycle of an important population.	
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.

DotE (2015) Conservation Advice *Grantiella picta* – painted honeyeater (effective date 08/07/2015).

Garnett ST, Szabo JK and Dutson G (2011). The Action Plan for Australian Birds 2010. Birds Australia, CSIRO Publishing, Melbourne.



Significant residual impact assessment for White-throated Needletail		
Hirundapus caudacutus (NCA Vulnerable; EPBC Vulnerable)		
Significant Residual Impact Guideline Criteria.	Response	
MSES — a long-term decrease in the size of a local population.  MNES — lead to a long-term decrease in the size of an important population of a species	SRI unlikely  The white throated needletail is a large widely distributed swift that is mostly aerial, very occasional observed roosting in trees amongst dense foliage in the canopy or in hollows.  Clearing to construct the pipeline will not result in a significant residual impact to this species. No feeding, nesting or resting habitat for this species will be impacted and no barriers to its movement created. There are no areas with high micro-habitat values for this species within the alignment.	
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact This is a large widely distribute highly mobile species. The clearing of a 42m wide strip spread over 11 km will not reduce the extent of occurrence of this species.	
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact This is a large widely distribute highly mobile species. The clearing of a 42m wide strip spread over 11 km will not fragment the existing populations of this species.	
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	No significant Impact This is a large widely distribute highly mobile species. The clearing of a 42m wide strip spread over 11 km will not isolate populations of this species causing distinct sub-populations forming.	
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species'	No significant Impact The proposed clearing will not introduce invasive species that predate the White-throated Needletail.	



## Significant residual impact assessment for White-throated Needletail Hirundapus caudacutus (NCA Vulnerable; EPBC Vulnerable) Significant Residual Response Impact Guideline Criteria. habitat. MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat No significant Impact MSES – Introduce disease The proposed clearing will not introduce disease to this almost that may cause the obligate aerial species. population to decline MNES – introduce disease that may cause the species to decline No significant Impact MSES – Interfere with the The clearing of a 42m wide strip spread over 11 km, most of which will recovery of the species. be rehabilitated, will not affect the recovery of this species MNES - interfere substantially with the recovery of the species No significant Impact MSES – disruption to There are no ecologically significant locations (breeding, feeding ecologically significant nesting or resting) identified within the proposed clearing areas for locations (breeding, the construction of this pipeline. feeding or nesting sites) of a species MNES – Disrupt the breeding cycle of an important population. MNES – modify, destroy, No significant Impact remove or isolate or The habitats that will be cleared are very unlikely to support a decrease the availability significant population of this species. The habitat quality is low being or quality of habitat to the mainly regrowth communities that have recently reached remnant extent that the species is status. Th availability of refuge sites and prey species is limited. The likely to decline loss of this habitat is unlikely to cause a measurable decline in this species.



Significant residual	impact assessment for Common Death Adder
	Acanthophis antarcticus
N4056 6: 15: 1 D 11 I	(NCA Vulnerable; EPBC Not Listed)
MSES Significant Residual Impact Guideline Criteria.	Response
MSES — a long-term decrease in the size of a local population.  MNES — lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 2.4 ha of habitat spread over 11 km of pipeline within a clearing width of no more than 42m. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  The cane toad is a known threat and is common throughout the alignment and there are no contemporary records for Common Death Adder within the vicinity.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment.
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The species is sparsely and patchily distributed snake that is thought unlikely to occur on the alignment. Patches of potential habitat to be cleared do no support abundant shelter/ambush micro-habitat features such as low shrubs, rocks, logs and dense leaf litter The clearing of 3.82ha of potential habitat across a 42m wide strip spread over 11 km combine with the rehabilitation of most of the alignment will not reduce the extent of occurrence of this species.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The clearing extent is never more than 42m wide and most of this width will be rehabilitated and no physical barriers to movement will be created. This species will be able to disperse across the post-construction landscape. This clearing will not create a barrier that will fragment an existing population.
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	No significant Impact The clearing extent is never more than 42m wide and most of this width will be rehabilitated and no physical barriers to movement will be created. This species will be able to disperse across the post-construction landscape. This clearing will not create a barrier to genetic exchange and will not result in genetically distinct



Significant residual impact assessment for Common Death Adder	
Acanthophis antarcticus	
MSES Significant Residual Impact Guideline Criteria.	(NCA Vulnerable; EPBC Not Listed)  Response
impact Guideime Criteria.	populations forming.
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact Clearing will not result in introduction of any invasive species known to predate the Painted Honeyeater not already present in the local environment.
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact There are no known diseases, that impact this species, that could be introduced through construction of the pipelines
MNES – introduce disease that may cause the species to decline	
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact The rehabilitation of most of the alignment width will mean that the long-term recovery of this species will not be impacted by the narrow width of habitat clearing proposed. The proposed clearing will not interfere with the recovery of this species.
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important population.	No significant Impact There are no ecologically significant areas or areas of high habitat values identified for this species within or close to the proposed alignment. The small amount of proposed clearing will not disrupt any ecological significant areas for this species.
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.



Significant residual impact assessment for Woma	
Aspidites ramsayi	
(NCA Near Threatened; EPBC Not Listed)	
MSES Significant Residual Impact Guideline Criteria.	Response
MSES — a long-term decrease in the size of a local population.  MNES — lead to a long-term decrease in the size of an important population of a species	SRI unlikely  The impact area is comprised of 3.3 ha of habitat spread over 11 km of pipeline within a clearing width of no more than 42m.  Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment.
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not reduce its extent of occurrence.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species. The snake will not be prevented from moving between retained patches of potential habitat and no existing populations have been found to occur within the alignment.
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species. The snake will not be prevented from moving between retained patches of potential habitat and will therefore not result in habitat isolation that would lead to the formation of genetically distinct populations.
MSES – Result in invasive species that are harmful to an endangered or vulnerable	No significant Impact There are no known invasive species, not already known from the



Significant residual impact assessment for Woma  Aspidites ramsayi	
(1)	NCA Near Threatened; EPBC Not Listed)
MSES Significant Residual Impact Guideline Criteria.	Response
species becoming established in the endangered or vulnerable species' habitat.	local landscape, that may impact this species.
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact There are no known diseases that could be introduced via the proposed clearing that are known to affect this species.
MNES – introduce disease that may cause the species to decline	
MSES – Interfere with the recovery of the species.	No significant Impact Habitat loss is the main threat to this species. The clearing of small patches in narrow bands combined with post-construction
MNES – interfere substantially with the recovery of the species	rehabilitation requirements will result in minimal impacts to the recovery of this species.
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species	No significant Impact Micro-habitat features for this species are poor with only very minor occurrences of deep cracking clays, low fallen woody material and leaf litter cover. The proposed clearing will not
MNES – Disrupt the breeding cycle of an important population.	interfere with the recovery of this species.
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low. The availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.



Significant residual impact assessment for Collared Delma		
<i>Delma torquata</i> (NCA Vulnerable; EPBC Vulnerable)		
Significant Residual Impact Guideline Criteria.	Response	
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely  The impact area is comprised of 3.3 ha remnant and 0.6ha functional regrowth habitat spread over 11 km of pipeline, within a clearing footprint no more than 42m wide. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide. Habitat quality for this species is low along the alignment with few to no rocky environments, alluvium or vine thickets.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). Micro-habitat values for this species are low throughout the alignment.	
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not reduce its extent of occurrence.	
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species. The lizard will not be prevented from moving between retained patches of potential habitat and no existing populations have been found to occur within the alignment.	
MSES – result in genetically distinct populations forming as a result of habitat isolation MNES – adversely affect habitat critical to the survival of a species	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species. The lizard will not be prevented from moving between retained patches of potential habitat and will therefore not result in habitat isolation that would lead to the formation of genetically distinct populations.	



Significant residual impact assessment for Collared Delma  **Delma torquata**  (NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact There are no known invasive species, not already known from the local landscape, that may impact this species.
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact There are no known diseases that could be introduced via the proposed clearing that are known to affect this species.
MNES – introduce disease that may cause the species to decline	
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact Habitat loss is the main threat to this species. The clearing of small patches in narrow bands combined with post-construction rehabilitation requirements will result in minimal impacts to the recovery of this species.
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important population.	No significant Impact Micro-habitat features for this species are poor with almost no rocky environments, alluvium or SEVT. None of the areas to be cleared are within or adjacent to an ecological significant location for this species.
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low, the availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.



Significant residual impact assessment for Yakka Skink <i>Egernia rugosa</i> (NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 1.6 ha (Essential Habitat) and 1.6 ha (General Habitat) spread over 11 km of pipeline within a clearing footprint no more than 42m wide. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide. The quality of habitat for this species is generally very low within the alignment with low amounts of fallen woody material. There is a general lack of dense lower shrub and ground layers and the buffel dominated grassy understorey provides little in the way of food resources such as soft plant materials and fruits and a wide variety of invertebrates (beetles, grasshoppers and spiders).  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316).
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact This species is widely distributed throughout central and coastal Queensland. The clearing of small relatively narrow areas of low- quality habitat is unlikely to reduce the range of this species or impact an important population.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact This species is a gregarious communal burrower with a limited capacity to disperse. The clearing areas are relatively narrow located on the edges of large patches of native woodland or associated with highly disturbed (tracks and pastures) areas. It is unlikely that the removal of this vegetation will introduce more significant barriers to the dispersal of this species than already exist.
MSES – result in genetically distinct populations forming as a result of habitat isolation MNES – adversely affect habitat critical to the survival of a species	No significant Impact This species is a gregarious communal burrower with a limited capacity to disperse. It is unlikely that the removal of these small narrow patches of low-quality habitat will genetically isolate existing populations.



Significant residual impact assessment for Yakka Skink  Egernia rugosa  (NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact Clearing will not result in introduction of any invasive species known to predate this species not already present in the local environment.
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat	
MSES – Introduce disease that may cause the population to decline	No significant Impact The proposed clearing will not introduce any diseases known to impact on extant populations of this species.
MNES – introduce disease that may cause the species to decline	
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	The loss of shelter sites and food resources are the most significant factors affecting the recovery of this species. Shelter site microhabitat features on which this species is dependant include fallen woody material, partially buried rocks and dense lower shrub and ground layers whilst food resources on which this species depends include soft plant materials and fruits and a wide variety of invertebrates (beetles, grasshoppers and spiders). These features are generally absent from within the areas to be cleared.  It is also unlikely that mortality through factors other than habitat loss will be introduced. It is unlikely that the construction of the pipeline and associated facilities will significantly hamper the recovery of this species.
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species MNES – Disrupt the breeding cycle of an important population.	No significant Impact This is a communal burrowing species that relies on micro-habitat features such fallen woody material, partially buried rocks or sometime dense shrub cover for denning resources and the availability of soft plant materials and fruits and a wide variety of invertebrates (beetles, grasshoppers and spiders) for feeding resources. These micro-habitat features are virtually absent from the impact areas and it is unlikely that a colony of this species



Significant residual impact assessment for Yakka Skink	
Egernia rugosa  (NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
	occurs within the clearing areas. The proposed clearing will not interfere with the recovery of this species.
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The quality of micro-habitat features such as shelter sites (Fallen woody material and partially buried rocks) and feeding resources (soft plant materials and fruits and a wide variety of invertebrates (beetles, grasshoppers and spiders) are very low and it is unlikely that the loss of this habitat will cause a decline in this species.



Significant residual impact assessment for Dunmall's Snake  Furina dunmalli  (NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 3.2 ha remnant spread over 11 km of pipeline within a clearing footprint no more than 42m wide. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment.
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The clearing areas support low quality habitat for this species. The impacted communities lack old growth trees and significant fallen woody material and provide few micro-habitat features that would support this species.  This species is widely but sparsely distributed across South East and Central Queensland. The small amount of clearing that will occur represents potential foraging habitat for a very limited number of individuals. The clearing does not occur at the extent of this species' range.
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species.  The snake will not be prevented from moving between retained patches of potential habitat and no existing populations have been found to occur within the alignment.
MSES – result in genetically distinct populations forming as a result of habitat isolation MNES – adversely affect habitat critical to the survival of a species	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species.  The snake will not be prevented from moving between retained



Significant residual impact assessment for Dunmall's Snake  Furina dunmalli  (NCA Vulnerable; EPBC Vulnerable)		
Significant Residual Impact Guideline Criteria.	Response	
	patches of potential habitat and will therefore not result in habitat isolation that would lead to the formation of genetically distinct populations.	
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact There are no known invasive species, not already known from the local landscape, that may impact this species.	
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat		
MSES – Introduce disease that may cause the population to decline.	No significant Impact There are no known diseases that could be introduced via the proposed clearing that are known to affect this species.	
MNES – introduce disease that may cause the species to decline		
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact Habitat loss is the main threat to this species. The clearing of small patches in narrow bands combined with post-construction rehabilitation requirements will result in minimal impacts to the recovery of this species.	
	The loss of micro-habitat features on which this species is dependant (e.g. fallen woody material) is very low and the loss of prey species (skinks and geckos) on which this species depends will also be low. The proposed clearing will not interfere with the recovery of this species.	
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding	No significant Impact Micro-habitat features for this species are poor with only very minor occurrences of deep cracking clays, low fallen woody material and leaf litter cover or prey species (skinks and geckos). The proposed activity will not cause disruption to ecologically	
cycle of an important population.  MNES – modify, destroy,	significant locations.  No significant Impact	



Significant residual impact assessment for Dunmall's Snake	
Furina dunmalli	
(NCA Vulnerable; EPBC Vulnerable)	
Significant Residual Impact Guideline Criteria.	Response
remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.



Significant residual impact assessment for Grey Snake  Hemiaspis damelii		
(NCA Endangered; EPBC Endangered)		
Significant Residual Impact Guideline Criteria.	Response	
MSES — a long-term decrease in the size of a local population.  MNES — lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 0.1 ha remnant over 11 km of pipeline within a clearing footprint no more than 42m wide. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.	
	Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with microhabitat values for this species within the alignment.	
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not reduce its extent of occurrence.	
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species. The snake will not be prevented from moving between retained patches of potential habitat and no existing populations have been found to occur within the alignment.	
MSES – result in genetically distinct populations forming as a result of habitat isolation MNES – adversely affect habitat critical to the survival of a species	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, rehabilitation requirements of most of the alignment width and small areas of clearing will result in minimal impacts on this species. The snake will not be prevented from moving between retained patches of potential habitat and will therefore not result in habitat isolation that would lead to the formation of genetically distinct populations.	
MSES – Result in invasive species that are harmful to an endangered or vulnerable	No significant Impact There are no known invasive species, not already known from the local landscape, that may impact this species. The cane toad is	



Significant residual impact assessment for Grey Snake  Hemiaspis damelii  (NCA Endangered; EPBC Endangered)			
Significant Residual Impact Guideline Criteria.	Response		
species becoming established in the endangered or vulnerable species' habitat.	already throughout the alignment.		
MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat			
MSES – Introduce disease that may cause the population to decline	No significant Impact There are no known diseases that could be introduced via the proposed clearing that are known to affect this species.		
MNES – introduce disease that may cause the species to decline			
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact Habitat loss is the main threat to this species. The clearing of small patches in narrow bands combined with post-construction rehabilitation requirements will result in minimal impacts to the recovery of this species.		
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important population.	No significant Impact Micro-habitat features for this species are poor with only very minor occurrences of deep cracking clays, low fallen woody material and leaf litter cover. The proposed clearing will not disrupt an ecologically significant location for this species.		
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.		



Significant residual impact assessment for Golden-tailed Gecko		
Strophurus taenicauda		
(NCA Near Threatened; EPBC Not Listed)  MSES Significant Residual Response		
Impact Guideline Criteria.	Nesponse	
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely The impact area is comprised of 3.3 ha remnant spread over 11 km of pipeline within clearing no more than 42m wide. Habitat clearing is largely confined to the edges of larger patches of habitat. The largest remnant patch of habitat that will be cleared is a 0.87 ha linear strip less than 13m wide.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment. <i>Callitris glaucophylla</i> is generally absent from areas that will be cleared.	
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, requirements to rehabilitate most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not reduce its extent of occurrence.	
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The narrow linear clearing for a pipeline will not hinder the movement of this species within the local landscape and will not result in the fragmentation of an existing population.	
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	No significant Impact The narrow linear clearing for a pipeline will not hinder the movement of this species within the local landscape and will not result in genetically distinct populations forming.	
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.  MNES – result in invasive	No significant Impact There are no known invasive predators that would be introduced because of the proposed clearing that would preferentially predate this species.	



Significant residual impact assessment for Golden-tailed Gecko			
Strophurus taenicauda			
(NCA Near Threatened; EPBC Not Listed)			
MSES Significant Residual Impact Guideline Criteria.	Response		
species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat			
MSES – Introduce disease that may cause the population to decline	No significant Impact There are known diseases that could be introduced by the proposed clearing that are known to affect this species.		
MNES – introduce disease that may cause the species to decline			
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact The combination of the small amount of clearing along a narrow band dispersed along the alignment combined with requirements to rehabilitate most of the alignment width means that the long-term recovery of this species will not be impaired by the proposed pipeline. The proposed clearing will not interfere with the recovery of this species.		
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important population.	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, requirements to rehabilitate of most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not cause disruption to any identified ecologically significant location for this species.		
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.		



Significant residual impact assessment for Dulacca Woodland Snail  **Adclarkia dulacca**  (NCA Endangered; EPBC Endangered)			
Significant Residual Impact Guideline Criteria.	Response		
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a	SRI unlikely The impact area is comprised of 0.3 ha remnant spread over 11 km of pipeline within clearing no more than 42m wide. The largest patch of habitat that will be cleared is a linear strip less than 10m wide resulting in the clearing of 0.17 ha from the edge of a 6.5 ha patch.		
species	Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment.		
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, requirements to rehabilitate most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not reduce its extent of occurrence.		
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact The narrow linear clearing along the edge of larger remnant patches of habitat will not hinder the movement of this species within the local landscape and will not result in the fragmentation of an existing population.		
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	within the local landscape and will not result in genetically distinct		
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact There are no known invasive predators that would be introduced because of the proposed clearing that would preferentially predate this species.		
MNES – result in invasive species that are harmful to a			



Significant residual impact assessment for Dulacca Woodland Snail  Adclarkia dulacca			
(NCA Endangered; EPBC Endangered)			
Significant Residual Impact Guideline Criteria.	Response		
vulnerable species becoming established in the vulnerable species' habitat			
MSES – Introduce disease that may cause the population to decline	No significant Impact There are known diseases that could be introduced by the proposed clearing that are known to affect this species.		
MNES – introduce disease that may cause the species to decline			
MSES – Interfere with the recovery of the species.  MNES – interfere substantially with the recovery of the species	No significant Impact The combination of the small amount of clearing along a narrow band dispersed along the alignment combined with requirements to rehabilitate most of the alignment width means that the long-term recovery of this species will not be impaired by the proposed pipeline.		
MSES – disruption to ecologically significant locations (breeding, feeding or nesting sites) of a species  MNES – Disrupt the breeding cycle of an important population.	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, requirements to rehabilitate of most of the alignment width and small areas of clearing will result in minimal impacts on this species and will not cause disruption to any identified ecologically significant location for this species.		
MNES – modify, destroy, remove or isolate or decrease the availability or quality of habitat to the extent that the species is likely to decline	No significant Impact The habitats that will be cleared are very unlikely to support a significant population of this species. The habitat quality is low being mainly regrowth communities that have recently reached remnant status. Th availability of refuge sites and prey species is limited. The loss of this habitat is unlikely to cause a measurable decline in this species.		



Significant residual impact assessment for Pale Imperial Hairstreak			
butterfly			
Jalmenus eubulus			
(NCA Vulnerable; EPBC Not Listed)			
MSES Significant Residual Impact Guideline Criteria.	Response		
MSES – a long-term decrease in the size of a local population.  MNES – lead to a long-term decrease in the size of an important population of a species	SRI unlikely  The impact area is comprised of 1.4 ha remnant spread over 11 km of pipeline within clearing no more than 42m wide. The largest patch of habitat that will be cleared is a 0.75 ha of low quality habitat for this species.  Rehabilitation following pipe installation will restore much of the potential feeding habitat lost during the construction phase (refer condition I3 of EA EPPG04323316). There are no areas with high micro-habitat values for this species within the alignment. The area of Poplar box — brigalow open forest is not old growth and is narrow and linear.		
MSES – a reduced extent of occurrence of the species  MNES – reduce the area of occupancy of an important population	No significant Impact The combination of a narrow band of clearing of habitat containing poor micro-habitat features, and the small areas of clearing will result in minimal impacts on this species and will not reduce its extent of occurrence.		
MSES – fragmentation of an existing population  MNES – fragment an existing important population into two or more populations	No significant Impact This species moves readily across open areas. The narrow linear clearing for a pipeline will not hinder the movement of this species within the local landscape and will not result in the fragmentation of an existing population.		
MSES – result in genetically distinct populations forming as a result of habitat isolation  MNES – adversely affect habitat critical to the survival of a species	within the local landscape and will not result in genetically distinct		
MSES – Result in invasive species that are harmful to an endangered or vulnerable species becoming established in the endangered or vulnerable species' habitat.	No significant Impact This species is threatened by loss of brigalow habitat and the associated ant species that tend its larvae. There are no known invasive predators that would be introduced because of the proposed clearing that would preferentially predate this species.		



#### Significant residual impact assessment for Pale Imperial Hairstreak butterfly Jalmenus eubulus (NCA Vulnerable; EPBC Not Listed) MSES Significant Residual Response Impact Guideline Criteria. MNES – result in invasive species that are harmful to a vulnerable species becoming established in the vulnerable species' habitat No significant Impact MSES – Introduce disease There are known diseases that could be introduced by the that may cause the proposed clearing that are known to affect this species. population to decline MNES – introduce disease that may cause the species to decline No significant Impact MSES – Interfere with the The combination of the small amount of clearing along a narrow recovery of the species. band dispersed along the alignment combined with requirements MNES – interfere to rehabilitate most of the alignment width means that the longsubstantially with the term recovery of this species will not be impaired by the proposed recovery of the species pipeline. No significant Impact MSES – disruption to The combination of a narrow band of clearing of habitat containing ecologically significant poor micro-habitat features, requirements to rehabilitate of most locations (breeding, feeding of the alignment width and small areas of clearing will result in or nesting sites) of a species minimal impacts on this species and will not cause disruption to MNES - Disrupt the breeding any identified ecologically significant location for this species. cycle of an important population. MNES – modify, destroy, No significant Impact remove or isolate or The habitats that will be cleared are very unlikely to support a decrease the availability or significant population of this species. The habitat quality is low quality of habitat to the being mainly regrowth communities that have recently reached extent that the species is remnant status. Th availability of refuge sites and prey species is likely to decline limited. The loss of this habitat is unlikely to cause a measurable decline in this species.



#### **Department of Environment and Science**

# **Environmental Reports**

# **Matters of State Environmental Significance**

For the selected area of interest Longitude: 149.270184 Latitude: -26.563446 with 2 kilometre radius

## **Environmental Reports - General Information**

The Environmental Reports portal provides for the assessment of selected matters of interest relevant to a user specified location, or area of interest (AOI). All area and derivative figures are relevant to the extent of matters of interest contained within the AOI unless otherwise stated. Please note, if a user selects an AOI via the "central coordinates" option, the resulting assessment area encompasses an area extending for a 2km radius from the point of interest.

All area and area derived figures included in this report have been calculated via reprojecting relevant spatial features to Albers equal-area conic projection (central meridian = 146, datum Geocentric Datum of Australia 1994). As a result, area figures may differ slightly if calculated for the same features using a different co-ordinate system.

Figures in tables may be affected by rounding.

The matters of interest reported on in this document are based upon available state mapped datasets. Where the report indicates that a matter of interest is not present within the AOI (e.g. where area related calculations are equal to zero, or no values are listed), this may be due either to the fact that state mapping has not been undertaken for the AOI, that state mapping is incomplete for the AOI, or that no values have been identified within the site.

The information presented in this report should be considered as a guide only and field survey may be required to validate values on the ground.

Please direct queries about these reports to: Planning.Support@des.qld.gov.au

#### **Disclaimer**

Whilst every care is taken to ensure the accuracy of the information provided in this report, the Queensland Government makes no representations or warranties about its accuracy, reliability, completeness, or suitability, for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which the user may incur as a consequence of the information being inaccurate or incomplete in any way and for any reason.



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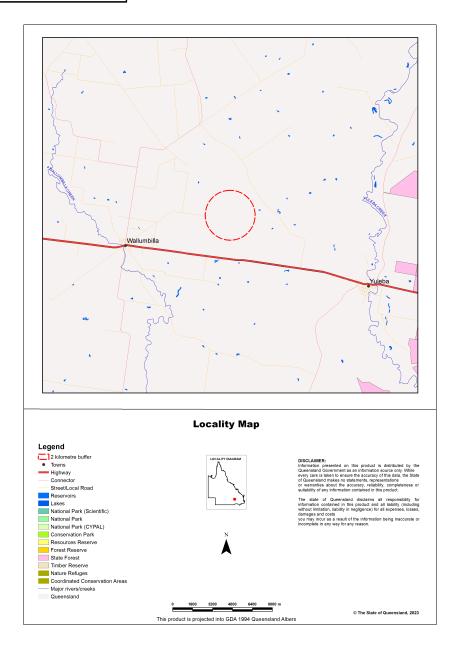
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# **Assessment Area Details**

The following table provides an overview of the area of interest (AOI) with respect to selected topographic and environmental values.

Table 1: Summary table, details for AOI Longitude: 149.270184 Latitude: -26.563446

Size (ha)	1,256.55
Local Government(s)	Maranoa Regional
Bioregion(s)	Brigalow Belt
Subregion(s)	Southern Downs
Catchment(s)	Balonne-Condamine



# Matters of State Environmental Significance (MSES)

#### **MSES Categories**

Queensland's State Planning Policy (SPP) includes a biodiversity State interest that states:

'The sustainable, long-term conservation of biodiversity is supported. Significant impacts on matters of national or state environmental significance are avoided, or where this cannot be reasonably achieved; impacts are minimised and residual impacts offset.'

The MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The SPP defines matters of state environmental significance as:

- Protected areas (including all classes of protected area except coordinated conservation areas) under the *Nature Conservation Act 1992*;
- Marine parks and land within a 'marine national park', 'conservation park', 'scientific research', 'preservation' or 'buffer' zone under the *Marine Parks Act 2004*:
- Areas within declared fish habitat areas that are management A areas or management B areas under the Fisheries Regulation 2008;
- Threatened wildlife under the *Nature Conservation Act 1992* and special least concern animals under the Nature Conservation (Wildlife) Regulation 2006;
- Regulated vegetation under the Vegetation Management Act 1999 that is:
  - Category B areas on the regulated vegetation management map, that are 'endangered' or 'of concern' regional ecosystems;
  - Category C areas on the regulated vegetation management map that are 'endangered' or 'of concern' regional ecosystems;
  - Category R areas on the regulated vegetation management map;
  - Regional ecosystems that intersect with watercourses identified on the vegetation management watercourse and drainage feature map;
  - Regional ecosystems that intersect with wetlands identified on the vegetation management wetlands map;
- Strategic Environmental Areas under the Regional Planning Interests Act 2014;
- Wetlands in a wetland protection area of wetlands of high ecological significance shown on the Map of Queensland Wetland Environmental Values under the Environment Protection Regulation 2019;
- Wetlands and watercourses in high ecological value waters defined in the Environmental Protection (Water) Policy 2009, schedule 2:
- Legally secured offset areas.

## **MSES Values Present**

The MSES values that are present in the area of interest are summarised in the table below:

Table 2: Summary of MSES present within the AOI

1a Protected Areas- estates	0.0 ha	0.0 %
1b Protected Areas- nature refuges	0.0 ha	0.0 %
1c Protected Areas- special wildlife reserves	0.0 ha	0.0 %
2 State Marine Parks- highly protected zones	0.0 ha	0.0 %
3 Fish habitat areas (A and B areas)	0.0 ha	0.0 %
4 Strategic Environmental Areas (SEA)	0.0 ha	0.0 %
5 High Ecological Significance wetlands on the map of Referable Wetlands	0.0 ha	0.0 %
6a High Ecological Value (HEV) wetlands	0.0 ha	0.0 %
6b High Ecological Value (HEV) waterways	0.0 km	Not applicable
7a Threatened (endangered or vulnerable) wildlife	0.0 ha	0.0 %
7b Special least concern animals	0.0 ha	0.0 %
7c i Koala habitat area - core (SEQ)	0.0 ha	0.0 %
7c ii Koala habitat area - locally refined (SEQ)	0.0 ha	0.0 %
7d Sea turtle nesting areas	0.0 km	Not applicable
8a Regulated Vegetation - Endangered/Of concern in Category B (remnant)	56.17 ha	4.5%
8b Regulated Vegetation - Endangered/Of concern in Category C (regrowth)	0.0 ha	0.0 %
8c Regulated Vegetation - Category R (GBR riverine regrowth)	0.0 ha	0.0 %
8d Regulated Vegetation - Essential habitat	0.0 ha	0.0 %
8e Regulated Vegetation - intersecting a watercourse	6.0 km	Not applicable
8f Regulated Vegetation - within 100m of a Vegetation Management Wetland	0.0 ha	0.0 %
9a Legally secured offset areas- offset register areas	0.0 ha	0.0 %
9b Legally secured offset areas- vegetation offsets through a Property Map of Assessable Vegetation	0.0 ha	0.0 %

# **Additional Information with Respect to MSES Values Present**

#### **MSES - State Conservation Areas**

1a.	Protected	Areas	- estates
(no	results)		

1b. Protected Areas - nature refuges

(no results)

1c. Protected Areas - special wildlife reserves

(no results)

2. State Marine Parks - highly protected zones

(no results)

3. Fish habitat areas (A and B areas)

(no results)

Refer to Map 1 - MSES - State Conservation Areas for an overview of the relevant MSES.

#### **MSES - Wetlands and Waterways**

4. Strategic Environmental Areas (SEA)

(no results)

5. High Ecological Significance wetlands on the Map of Queensland Wetland Environmental Values

(no results)

6a. Wetlands in High Ecological Value (HEV) waters

(no results)

6b. Waterways in High Ecological Value (HEV) waters

(no results)

Refer to Map 2 - MSES - Wetlands and Waterways for an overview of the relevant MSES.

#### **MSES - Species**

7a. Threatened (endangered or vulnerable) wildlife

Not applicable

#### 7b. Special least concern animals

Not applicable

#### 7c i. Koala habitat area - core (SEQ)

Not applicable

## 7c ii. Koala habitat area - locally refined (SEQ)

Not applicable

#### 7d. Wildlife habitat (sea turtle nesting areas)

Not applicable

#### Threatened (endangered or vulnerable) wildlife habitat suitability models

Species	Common name	NCA status	Presence
Boronia keysii		V	None
Calyptorhynchus lathami	Glossy black cockatoo	V	None
Casuarius casuarius johnsonii	Sthn population cassowary	Е	None
Crinia tinnula	Wallum froglet	V	None
Denisonia maculata	Ornamental snake	V	None
Litoria freycineti	Wallum rocketfrog	V	None
Litoria olongburensis	Wallum sedgefrog	V	None
Macadamia integrifolia		V	None
Macadamia ternifolia		V	None
Macadamia tetraphylla		V	None
Melaleuca irbyana		E	None
Petaurus gracilis	Mahogany Glider	E	None
Petrogale persephone	Proserpine rock-wallaby	E	None
Pezoporus wallicus wallicus	Eastern ground parrot	V	None
Phascolarctos cinereus	Koala - outside SEQ*	E	None
Taudactylus pleione	Kroombit tinkerfrog	E	None
Xeromys myoides	Water Mouse	V	None

<sup>\*</sup>For koala model, this includes areas outside SEQ. Check 7c SEQ koala habitat for presence/absence.

#### Threatened (endangered or vulnerable) wildlife species records

(no results)

#### Special least concern animal species records

(no results)

#### Shorebird habitat (critically endangered/endangered/vulnerable)

Not applicable

#### Shorebird habitat (special least concern)

Not applicable

\*Nature Conservation Act 1992 (NCA) Status- Endangered (E), Vulnerable (V) or Special Least Concern Animal (SL). Environment Protection and Biodiversity Conservation Act 1999 (EPBC) status: Critically Endangered (CE) Endangered (E), Vulnerable (V)

Migratory status (M) - China and Australia Migratory Bird Agreement (C), Japan and Australia Migratory Bird Agreement (J), Republic of Korea and Australia Migratory Bird Agreement (R), Bonn Migratory Convention (B), Eastern Flyway (E)

To request a species list for an area, or search for a species profile, access Wildlife Online at: <a href="https://www.qld.gov.au/environment/plants-animals/species-list/">https://www.qld.gov.au/environment/plants-animals/species-list/</a>

Refer to Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals, Map 3b - MSES - Species - Koala habitat area (SEQ) and Map 3c - MSES - Wildlife habitat (sea turtle nesting areas) for an overview of the relevant MSES.

#### **MSES - Regulated Vegetation**

For further information relating to regional ecosystems in general, go to:

https://www.gld.gov.au/environment/plants-animals/plants/ecosystems/

For a more detailed description of a particular regional ecosystem, access the regional ecosystem search page at: <a href="https://environment.ehp.gld.gov.au/regional-ecosystems/">https://environment.ehp.gld.gov.au/regional-ecosystems/</a>

#### 8a. Regulated Vegetation - Endangered/Of concern in Category B (remnant)

Regional ecosystem	Vegetation management polygon	Vegetation management status
11.9.10	O-dom	rem_oc
11.9.5/11.9.10	E-dom	rem_end

#### 8b. Regulated Vegetation - Endangered/Of concern in Category C (regrowth)

Not applicable

#### 8c. Regulated Vegetation - Category R (GBR riverine regrowth)

Not applicable

#### 8d. Regulated Vegetation - Essential habitat

Not applicable

#### 8e. Regulated Vegetation - intersecting a watercourse\*\*

A vegetation management watercourse is mapped as present

#### 8f. Regulated Vegetation - within 100m of a Vegetation Management wetland

Not applicable

Refer to Map 4 - MSES - Regulated Vegetation for an overview of the relevant MSES.

**MSES - Offsets** 

9a. Legally secured offset areas - offset register areas

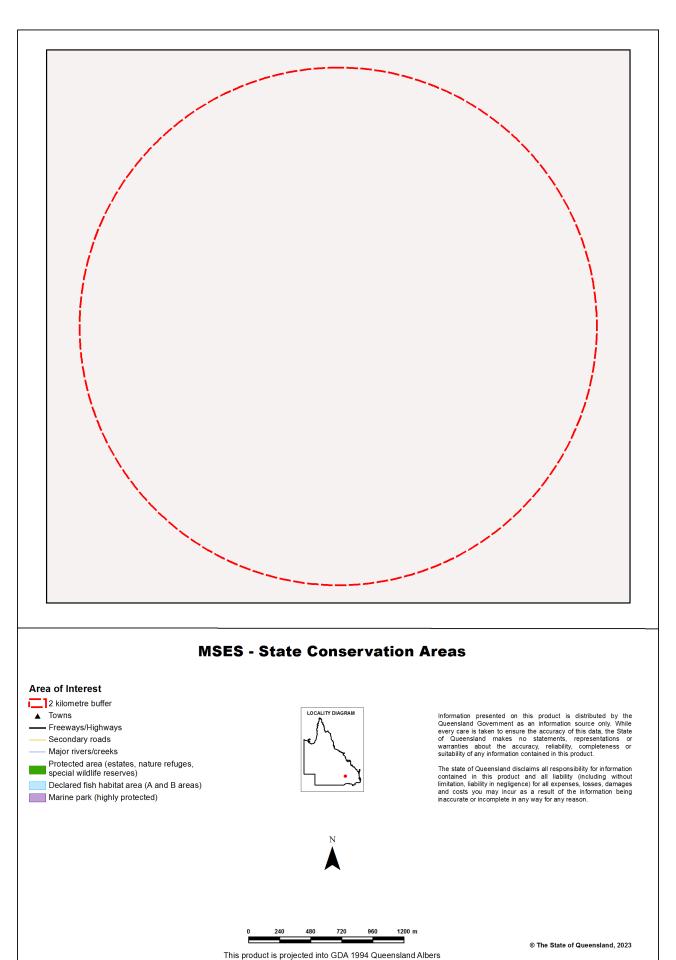
(no results)

9b. Legally secured offset areas - vegetation offsets through a Property Map of Assessable Vegetation

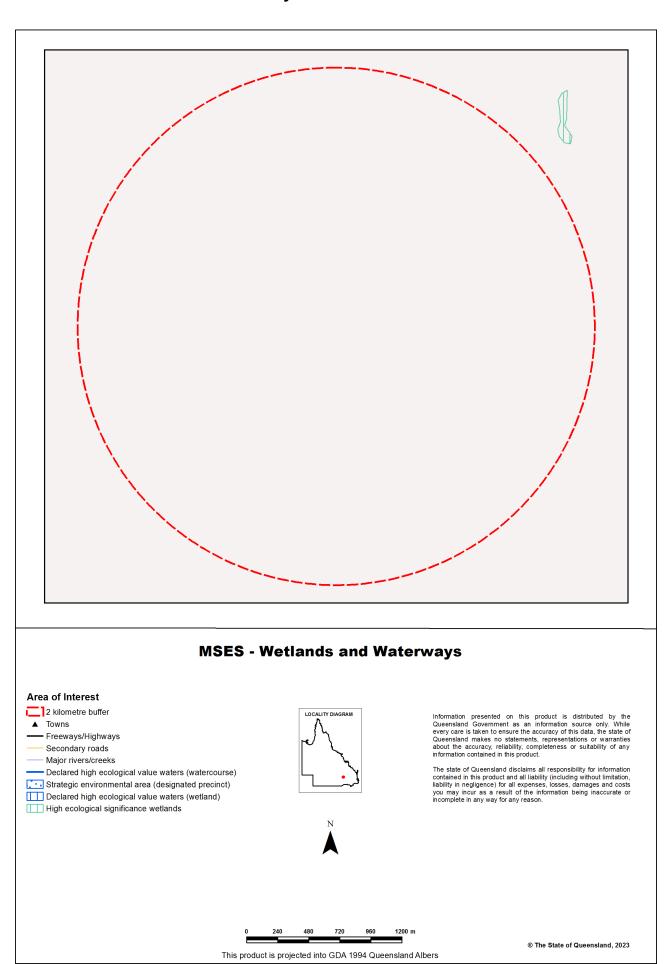
(no results)

Refer to Map 5 - MSES - Offset Areas for an overview of the relevant MSES.

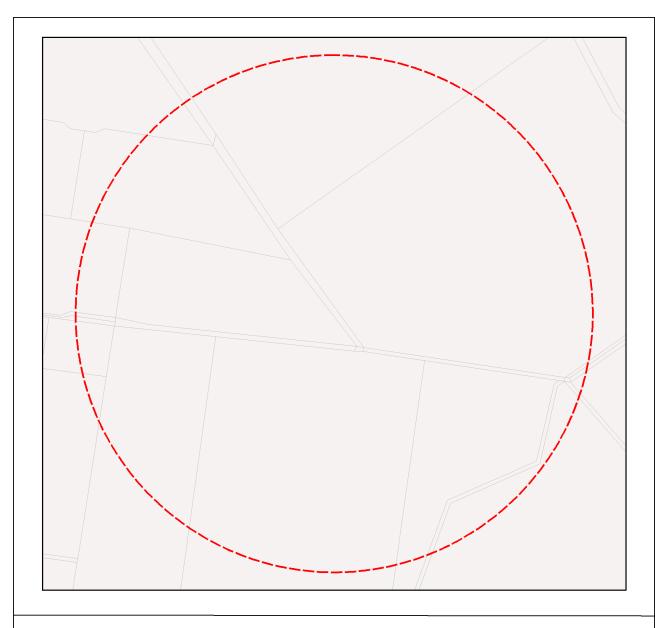
# Map 1 - MSES - State Conservation Areas



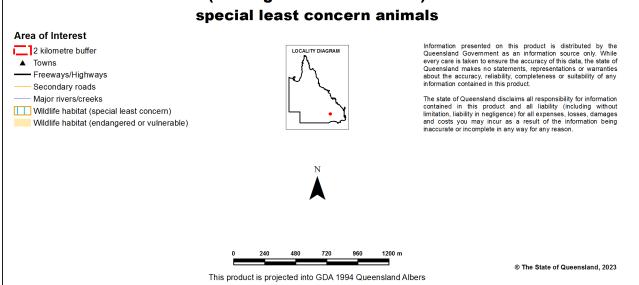
# Map 2 - MSES - Wetlands and Waterways



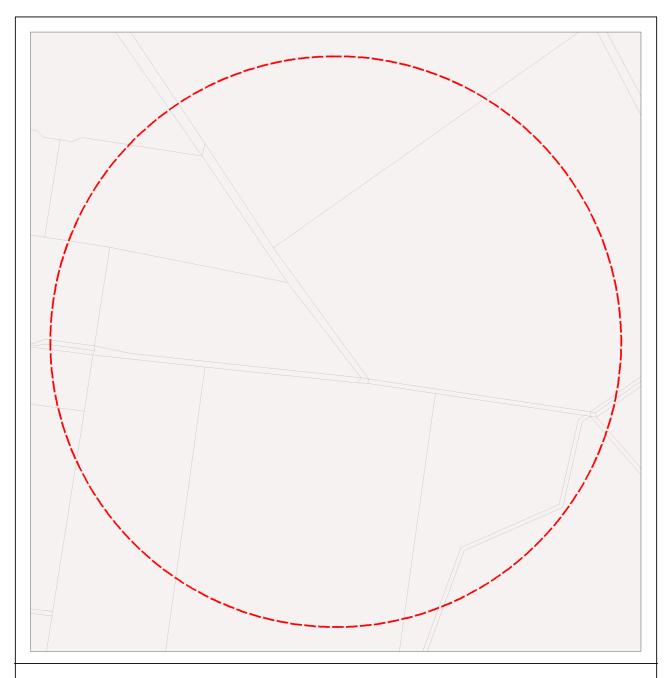
# Map 3a - MSES - Species - Threatened (endangered or vulnerable) wildlife and special least concern animals



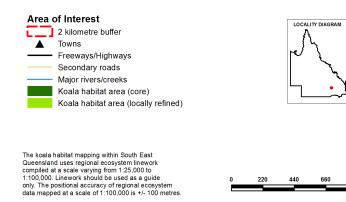
# MSES - Species Threatened (endangered or vulnerable) wildlife and special least concern animals



# Map 3b - MSES - Species - Koala habitat area (SEQ)



# **MSES - Species** Koala habitat area (SEQ)



While every care is taken to ensure the accuracy of this product, the Department of Environment and Science acting on behalf of the State of Queensland makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in negligence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the data being inaccurate or incomplete in any way and for any reason. Due to varying sources of data, spatial locations may not coincide when overlaid.

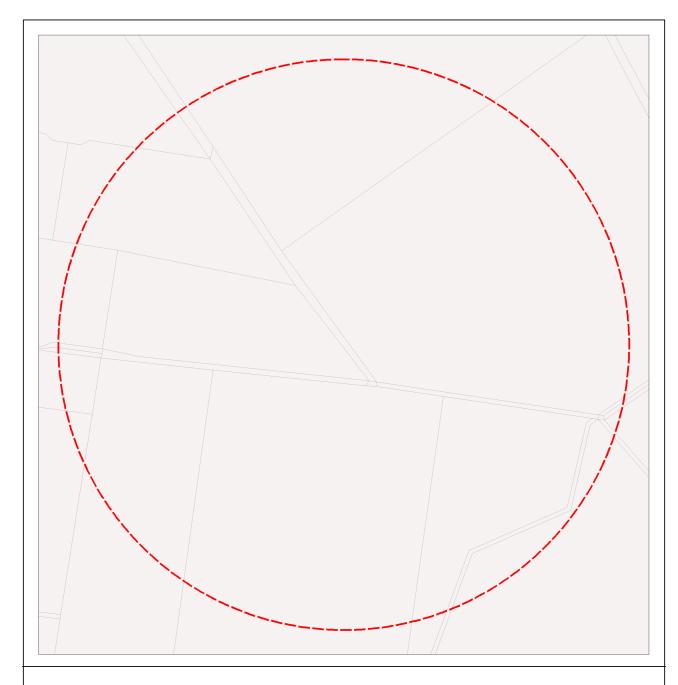
While every care is taken to ensure the accuracy of this

The represented layers for SEQ 'koala habitat area-core' and 'koala habitat area- locally refined' in MSES are sourced directly from the regulatory mapping under the Nature Conservation (Koala) Conservation Plan 2017. Whilst every effort is made to ensure the information remains current, there may be delays between updating versions. Please refer to the original mapping for the most recent version. See https://environment.des.qld.gov.au/wildlife/animals/iliving-with/koalas/mapping

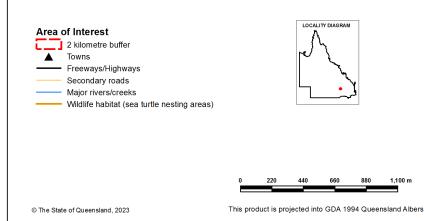
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This product is projected into GDA 1994 Queensland Albers

# Map 3c - MSES - Wildlife habitat (sea turtle nesting areas)



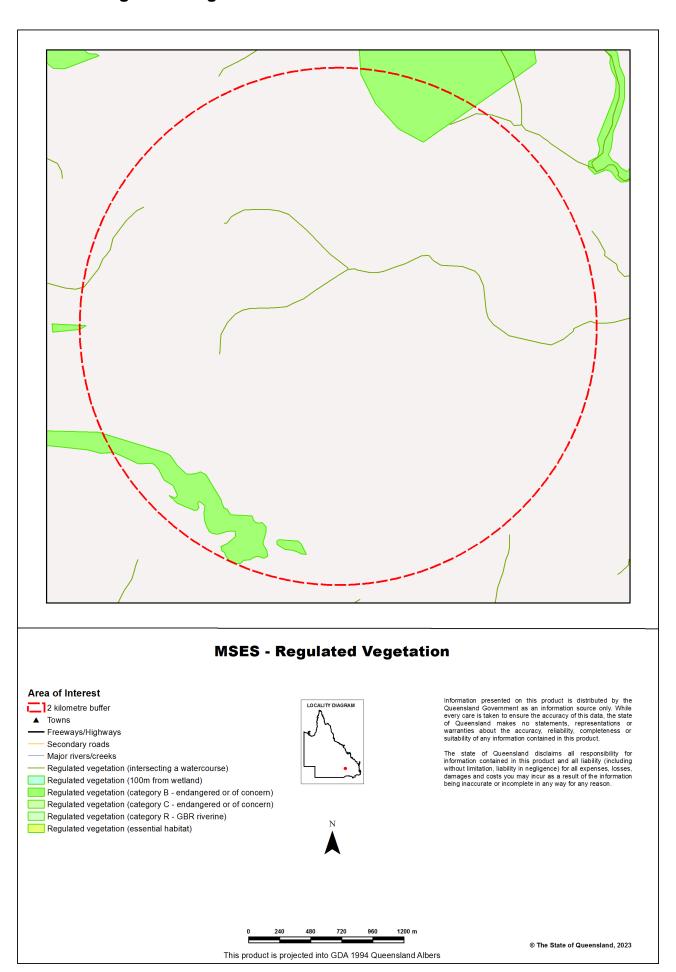
#### MSES - Wildlife habitat (sea turtle nesting areas)



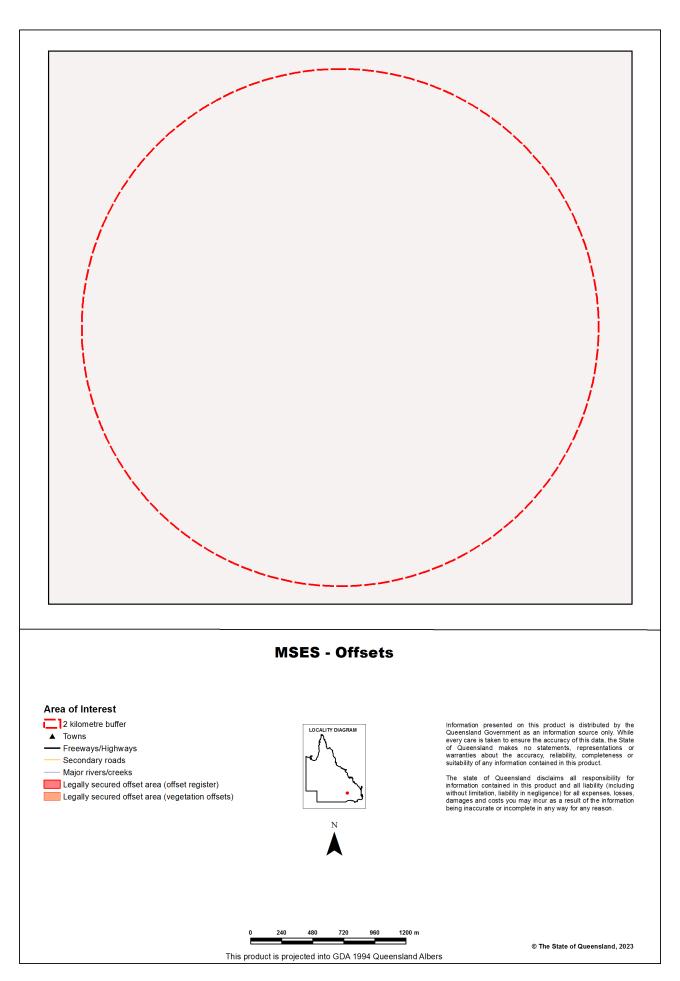
While every care is taken to ensure the accuracy of this product, the Department of Environment and Science acting on behalf of the State of Queensland makes no representations or warranties about its accuracy, reliability, completeness or suitability for any particular purpose and disclaims all responsibility and all liability (including without limitation, liability in regilgence) for all expenses, losses, damages (including indirect or consequential damage) and costs which you might incur as a result of the data being inaccurate or incomplete in any way and for any reason. Due to varying sources of data, spatial locations may not coincide when overlaid.

MSES mapping of sea turtle nesting areas identifies beaches where the recorded number of turtle nests are over 1% of the turtle species or genetic stock. The linework is also deliberately extended along nearby rocky coastlines and headlands to recognise that significant numbers of nesting adults and hatchlings can become disoriented by light pollution from development on rocky coastlines and headlands while navigating offshore from nesting beaches.

# Map 4 - MSES - Regulated Vegetation



# Map 5 - MSES - Offset Areas



# **Appendices**

## Appendix 1 - Matters of State Environmental Significance (MSES) methodology

MSES mapping is a regional-scale representation of the definition for MSES under the State Planning Policy (SPP). The compiled MSES mapping product is a guide to assist planning and development assessment decision-making. Its primary purpose is to support implementation of the SPP biodiversity policy. While it supports the SPP, the mapping does not replace the regulatory mapping or environmental values specifically called up under other laws or regulations. Similarly, the SPP biodiversity policy does not override or replace specific requirements of other Acts or regulations.

The Queensland Government's "Method for mapping - matters of state environmental significance for use in land use planning and development assessment" can be downloaded from:

http://www.ehp.qld.gov.au/land/natural-resource/method-mapping-mses.html .

#### **Appendix 2 - Source Data**

#### The datasets listed below are available on request from:

http://qldspatial.information.qld.gov.au/catalogue/custom/index.page

· Matters of State environmental significance

Note: MSES mapping is not based on new or unique data. The primary mapping product draws data from a number of underlying environment databases and geo-referenced information sources. MSES mapping is a versioned product that is updated generally on a twice-yearly basis to incorporate the changes to underlying data sources. Several components of MSES mapping made for the current version may differ from the current underlying data sources. To ensure accuracy, or proper representation of MSES values, it is strongly recommended that users refer to the underlying data sources and review the current definition of MSES in the State Planning Policy, before applying the MSES mapping.

Individual MSES layers can be attributed to the following source data available at QSpatial:

MSES layers	urrent QSpatial data http://qspatial.information.qld.gov.au)		
Protected Areas-Estates, Nature Refuges, Special Wildlife Reserves	- Protected areas of Queensland - Nature Refuges - Queensland - Special Wildlife Reserves- Queensland		
Marine Park-Highly Protected Zones	Moreton Bay marine park zoning 2008		
Fish Habitat Areas	Queensland fish habitat areas		
Strategic Environmental Areas-designated	Regional Planning Interests Act - Strategic Environmental Areas		
HES wetlands	Map of Queensland Wetland Environmental Values		
Wetlands in HEV waters	HEV waters: - EPP Water intent for waters Source Wetlands: - Queensland Wetland Mapping (Current version 5) Source Watercourses: - Vegetation management watercourse and drainage feature map (1:100000 and 1:250000)		
Wildlife habitat (threatened and special least concern)	- WildNet database species records - habitat suitability models (various) - SEQ koala habitat areas under the Koala Conservation Plan 2019 - Sea Turtle Nesting Areas records		
VMA regulated regional ecosystems	Vegetation management regional ecosystem and remnant map		
VMA Essential Habitat	Vegetation management - essential habitat map		
VMA Wetlands	Vegetation management wetlands map		
Legally secured offsets	Vegetation Management Act property maps of assessable vegetation. For offset register data-contact DES		
Regulated Vegetation Map	Vegetation management - regulated vegetation management map		

# **Appendix 3 - Acronyms and Abbreviations**

AOI - Area of Interest

DES - Department of Environment and Science

EP Act - Environmental Protection Act 1994

EPP - Environmental Protection Policy

GDA94 - Geocentric Datum of Australia 1994

GEM - General Environmental Matters

GIS - Geographic Information System

MSES - Matters of State Environmental Significance

NCA - Nature Conservation Act 1992

RE - Regional Ecosystem
SPP - State Planning Policy

VMA - Vegetation Management Act 1999



# **Appendix B: Santos Risk Assessment Process**

The environmental risk assessment contained in Section 6.0 was undertaken in accordance with the Santos Management System (SMS) Risk Management Standard. The SMS Risk Management Standard is based on accepted principles and applicable Australian standards. The risk assessment process involves:

- identifying the potential hazards or threats posed by the proposed activities;
- categorising the potential consequences and their likelihood of occurring; and
- using a risk matrix to characterise the level of risk.

Environmental risk assessment is used to differentiate minor acceptable risks from major risks, and to provide a basis for further evaluation and management of major risks. Risks are generally considered acceptable if they fall into the low category without any further mitigation measures, and 'tolerable' if they fall into the medium risk category and are managed to reduce the risk to a level 'So Far As Is Reasonably Practicable' (SFAIRP). Risk reduction measures must be applied to reduce high risks to tolerable levels (see Operational Risk Requirements in Figure 7).

SFAIRP essentially involves making a judgement about whether all reasonably practicable measures are in place to control a potential risk or impact considering the level of consequence and cost, time and resources involved to mitigate it.

#### Control Measure Identification

Based on identified potential impacts, and the ranking of their unmitigated risk, 'Management Practices' ('Control Strategies') were identified to eliminate, prevent, reduce or mitigate consequences associated with each of the identified potential impacts. Appropriate control strategies were identified from previous activities, current Santos management practices, and through review of best practice techniques across the industry.

#### Determination of Severity of Consequence

The potential level of impact (consequence) was assessed and assigned in line with potential hazards and receptors, using the 'Santos Environmental Consequence Classification' (see Figure 7) from the Santos Risk Matrix. The consequence level for each risk source is documented in the risk assessment tables in Section 6.0. To describe the severity, scale and duration of potential impacts, six categories of consequence are used (as displayed in Figure 7).

#### **Determination of Likelihood**

Likelihood relates to the potential for a consequence to occur. This includes the likelihood of an event occurring and the subsequent potential consequence. This is defined using the Santos Risk Matrix (See Figure 7). To describe the likelihood of a potential environmental consequence occurring, six categories of likelihood are used. The Santos Risk Matrix is then used to characterise the resultant risk into one of five levels.

#### Determination of Residual Risk

Risk is expressed in terms of a combination of the consequence of an impact and the likelihood of the impact occurring. Santos uses a risk matrix (see Figure 7) to plot the consequence and likelihood to determine the level of risk.



# Santos Risk Matrix Santos

Safety		Negligible Harm     No bodily damage or minimal harm or impairment (hours to days)	Minor Harm + Short term impairment (days to weeks)	Moderate Harm  Temporary disablement or medium term impairment (weeks to months)	Severe Harm  + Long term/life altering disablement or impairment	Single Fatality OR Critical Life Threatening Injuries	Multiple Fatalities	
Environment		+ No impact to Environmental Value (EV).	Small-scale impact to EV(s) of conservation significance     Potential surface or groundwater impact.	Moderate-scale impact to EV(s) of conservation significance     Localised surface or groundwater impact.	Large-scale impact to EV(s) of conservation significance     Moderate-scale surface water impact     Localised impact to groundwater witl potential or known beneficial use.	Extensive population or comm scale impact to EV(s) of conser significance     Extensive impact to other EV(s)	vation	
Community & Reputation		No actual or potential community criticism     Details remain within Santos sites and/or offices	Minor level local community criticism (* week)     No reputation impact	Local community criticism (> week)     or one-day community protest     Local company reputation impacted	State-level community criticism or protest over multiple days/locations     State-based company reputation impacted     Very short-term share price impact (< week)	National community criticisms scale protest     Company reputation and appr impacted     Shareholder intervention or share price impact (< month)	or widespread protest + Industry reputation and approvals impacted	
Financial (As) < s30k		< \$30k	\$30k to \$300k	s3ook to \$3m	s3m to s3om	\$30m to \$300m	> \$300m	
Workforce		Will require some staff attention over several days.     No actual or potential impact to culture.	management time.	Will require head office staff and take several weeks of site management time. Moderate impact to employee engagement and staff turnover above industry average with some key roles	Will require several weeks of senior management time     Impact to employee engagement (< 6 months), moderate turnover of k roles and no succession	+ Will require several months of management time + Impact to employee engagement (< 18 months), high staff turno attraction issues	management involvement and operation ent severely disrupted	
inst		Non-conformance with legislation, instruments (e.g. tenure licence) or contract     No regulatory or punitive action	Minor breach of legislation, instruments or contract     Notification/report to; request for information by; and/or administrative/ warning notice from the regulator     LOCI Tier 3 or non-hydrocarbon releases notifiable to the regulate to.	Limited number of minor breaches of legislation, instruments or contract Statutory notice from the regulator LOCI Tierz or non-hydrocarbon releases immediately reportable to the regulator	Systemic minor breaches (or one moderate breach) of legislation, instruments or contract     Company charged with an offence wi minor penalty/fine     LOCI Tier 1 or cumulative regulator notification of non-hydrocarbon relea	moderate penalty/fine	instruments or contract + Company or officers charged with an	
		1	II II	III	IV	V	VI	
ALMOST CERTAIN (< 4 monthly) Occurs in almost all circumstances OR could occur within days to weeks	f	Low	Medium	High	Very High	Very High	Very High	
LIKELY (4 monthly - 1 yearly) Occurs in most circumstances OR could occur within weeks to months	e	Low	Medium	High	High	Very High	Very High	
OCCASIONAL (2 - 3 yearly) Has occurred before in Santos OR could occur within months to years	d	Low	Low	Medium	High	High	Very High	
POSSIBLE (3 - 10 yearly) Has occurred before in the industry OR could occur within the next few years	c	Very Low	Low	Low		High	Very High	
UNLIKELY (10 - 30 yearly) Has occurred elsewhere OR could occur within decades	b	Very Low	Very Low	Low	Low	Medium	High	
REMOTE (30 - 100 yearly) Requires exceptional circumstances and is unlikely the long term OR only occurs as a "one in 100 year		Very Low	Very Low	Very Low	Low	Medium	Medium	
perational Risk Assessment Requirements			Governance Mechanism	Authority for Continued T. I	f Pilel		Control Ownership	
+ Following verification of the risk at 'Very + Activity cannot recommence until contr + For incidents, a dedicated multi-disciplin	Action  + Following verification of the risk at "Very High" activity must stop  + Activity cannot recommence until controls are implemented to reduce risk to "High" or lower  + For incidents, a dedicated multi-disciplinary incident investigation team will be formed  + Level a Manage or Escom member will be included in the investigation team  the investigation team will be formed.		Controls will be governed at the Operations Committee     meeting or equivalent forum     Sponsorship of incident investigation by EVP or Level 2     Manager	+ CEO	rity for Continued Tolerance of Risk  Control Development  Intolerable Risk Level  Develop and impleme to 'High' or lower as se		+ Level 2 Manager (e.g. Executive Vice President)	
+ Assess risk to determine if it is reduced S + If SFAIRP, activities related to maintena + If not SFAIRP, improve existing controls	A assess risk to determine if it is reduced 5o Far As Reasonably Practicable (FFAIRP)     His FFAIRP, activities related to maintenance of controls will be prioritised and managed     If Inc SFAIRP, improve existing controls and/or implement new controls(s)     For incidents, a dedicated multi-disciplinary incident investigation term will be formed		Controls will be governed at Divisional level meeting or equivalent forum     Sponsorship of incident investigation by Level 3 Management		EVP or Level 2 Manager + Action to reduce risk i		+ Level 3 Manager (e.g. General Manager)	
+ If not SFAIRP, improve existing controls			Controls will be governed at Area level meeting or equivalent forum     Sponsorship of incident investigation at Level 4 Manage	+ General Manager or Level 3 Manager + Manage and m business mana		r risk efficiently in accordance with + Level 4 Manager (e.g. Asset or Functional Manint plans		
+ If not SFAIRP, improve existing controls			Controls will be governed at site level meeting or equivalent forum Sponsorship for incident investigation at Level 5			nitor risk efficiently in accordance with ement plans	+ Level 5 Manager (e.g. Area Manager, Team Leader, Superintendent or equivalent)	
+ Incidents are assessed using Mining the	Diamond and inves	tigated relative to the incident potential	Manager					

Figure 7: Santos Risk Matrix