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# Hillston Sun Farm

## ENVIRONMENTAL MANAGEMENT REPORT

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Date: 25-09-2021

Environmental Management Report  
Project: Hillston Sun Farm

Prepared By:	David Tullis
Position:	Project Manager
Description:	Environmental Management Report
Code:	



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## **1.0 INTRODUCTION**

### **1.1 Overview**

Amp Energy has assigned to GRS the design, engineering, procurement, fabrication, construction, installation, commissioning, testing, delivery and rectification of all defects, to the completion of the Hillston Sun Farm and associated works.

An element of this work is the satisfaction of the project's Environmental Management Strategy (EMS) dated 31 August 2018.

The EMS sets out monitoring and reporting requirements in the areas of biodiversity and landscaping and these topics are dealt with in this report.

## 2.0 BIODIVERSITY

### 2.1 Overview

Biodiversity monitoring and inspection requirements of the project are set out in Table 4.1 of the EMS, and these requirements are responded to below.

### 2.2 Requirement 4.1.1 – Visual inspection of vegetation clearance activities

No clearing of vegetation, within the project footprint has been required by project construction activities so this requirement has not been triggered.

### 2.3 Requirement 4.1.2 – Maintain a log of salvaged animals and actions taken to relocate them

A register of animals salvaged was created and it has been maintained throughout the construction of the project, refer Appendix I - “REG-8.13.1-A1-Project Animal Salvage Register.xls”, photographs.

At present, only one animal has been salvaged, a native parrot, *Barnardius zonarius* “Australian Ringneck Parrot” on 13 July 2021.

#### *Further details:*

The parrot was initially identified beneath a vehicle in the GRS carpark. The vehicle was slowly driven forward, and a cardboard box was placed over the parrot then a stiff piece of cardboard was slid under the box to collect the parrot. The parrot was driven to the fenced treed area within the project footprint, via the northern gate. Once inside, the box was placed on the ground, photographed, then opened and the bird was photographed in the box. The box was gently tipped on its side and the GRS personnel backed away slowly, the bird flew out of the box and into the treed area.

The parrot seemed alert and in good condition, and we considered it to perhaps have been stunned. The option of taking the parrot to Griffith to a vet was considered and decided against due to the distance between us and the vet, instead we relocated it to the treed area. We did not contact a wildlife service regarding this incident as the bird flew away once the box was opened.

Spoke to WIRES on Friday 17th of September reference No. 1545325 re: the Native Bird Incident that we had put in the Environment report sent to AMP dated Tuesday, 14 September 2021, WIRES had informed GRS that we had done the right thing in not taken the bird to a vet due to the distance between Hillston & Griffith would have stressed the bird out & that we had released it close to where we had found it.

For future reference WIRES suggested that we phone them & they will determine from some simple questions asked whether or not they will send a volunteer rescue wildlife officer to your location or not.

2.4 Requirement 4.1.3 – Inspections for fauna where footings have been left open overnight

In conjunction with Amp Energy’s Construction Manager for the project, Justin Webb, GRS registered a Hazard Observation (HAZOB) in regard to the risks that arise from open footings, to both fauna and workers alike refer Appendix II - HAZOB #026 - 20 April 2021. In line with hierarchy of control principles, a control that eliminated the risk was preferred and this was implemented on 04 May 2021 for the remainder of the project. Specifically, the footings were blocked to prevent fauna and workers alike from being able to enter. See Appendix III – PCAR #075 – Evidence of close out.

2.5 Requirement 4.1.4 – Inspections of stockpiles and storage areas to ensure no impact outside development site

GRS have positioned stockpiles and storage areas within the project footprint such that the biodiversity-based impacts outside the development site are minimised. A physical barrier has also been installed to eliminate biodiversity impact outside the development site. Monthly inspections have been undertaken to verify effectiveness of the approach, refer Appendix IV – Stockpile and Storage Area Impact Verification Table.



2.6 Requirement 4.1.5 – Inspections to detect weed germination and signs of soil pathogen infection

Where there is a risk of weeds being brought onto the site in the tracks, tyres or implements of powered mobile plant, specifically with respect to earth moving equipment, GRS request evidence that the item of plant is free from weed bearing material, see Appendix V – Weed Declaration Example - SKIDSTEER 76896D.

Where weed germination and growth is from endemic species, particularly *Malva parviflora* “Marshmallow weed” GRS have avoided use of herbicides with their attendant biodiversity related risks and have controlled growth by physical methods, primarily slashing and mowing, see Appendix VI – Slashing schedule, photographs.



## **3.0 LANDSCAPING**

### **3.1 Overview**

Landscaping activities for the project are limited to two locations; specifically landscaping screening at the south eastern fence line, to the south of the “Remnant vegetation and overland flow path to be avoided” and adjacent to Kidman Way, as shown on Figure 1.1 of the EMS, and landscaping screening to be provided with reference to sensitive receiver R17 as identified on Figure 1.1 of the EMS.

### **3.2 Landscaping screening at the south eastern fence line area**

Construction over the southern portion of the site has not yet commenced, and therefore nor has that section of landscaping

### **3.3 Landscaping screening for sensitive receiver R17**

Landscaping in this area is currently subject to final design, with evidence of this provided in Appendix VIII – Amp Energy - GRS email thread regarding R17 landscaping. Monitoring requirements are therefore not triggered for this landscaping area.

## APPENDIX I

### “REG-8.13.1-A1-Project Animal Salvage Register.xls”, photographs

Gransolar Construction Australia Pty Ltd  
WHS MS  
Project Animal Salvage Register

REG-8.13.1-A1-Project Animal Salvage Register

Revision A1

Ref#	Description of salvage event	Identified by	Date identified	Response	Date closed
001	Native bird identified on ground in GRS carpark	Jono Garton, GRS	13-Jul-21	Collected in cardboard box and relocated it to the tree area at centre of site.	13-Jul-21







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**APPENDIX II**

**HAZOB #026 - 20 April 2021**

	Gransolar Construction Australia Pty Ltd WHS M5 Hazard Reporting Form	Doc. No: FRM-6.2.5.1.A2-HAZOB Form Revision: A2 Date: 12/03/2021
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Form to be completed by the person who identified the hazard(s) and forwarded to the supervisor or HSE Manager as soon as practicable

HAZOB Refr **026**

**HAZOB Reporting Form**

Details of Hazard	
Project/Workplace: <b>Hillston Sun Farm</b>	Brief description of the hazard: <b>Deep hole for inverter piers.</b>
Hazard location: <b>Whole of site (at inverter locations)</b> <small>(include sketch map or photograph if practicable)</small>	Potential consequence <small>(if the hazard is not controlled):</small> <b>Trip, fall, injury</b>
Has any action been taken to eliminate the hazard or minimise its consequence? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <small>If yes, describe the action taken:</small> <b>- Raised this HAZOB</b>	
Action required/recommended: <input type="checkbox"/> Risk assessment <input type="checkbox"/> Expert evaluation of the hazard <b>#75</b> <input type="checkbox"/> Immediate Control <input checked="" type="checkbox"/> Other (please specify): <b>Purchase timber pallets + locate over holes until they are backfilled</b>	

Details of Person Reporting Hazard		
Name of the person reporting hazard: <b>Justin Webb</b>	Employer: <b>Amp Energy</b>	
Contact No.: <b>0458023193</b>	Signature: 	Date: <b>20/4/2021</b>

Details of Action Taken <small>(To be completed by HSE Manager)</small>		
Hazard entered in the Workplace / Project Safety Risk Register? <input type="checkbox"/> Yes <input type="checkbox"/> No		
Action(s) taken: <input type="checkbox"/> Hazard inspected and evaluated <input type="checkbox"/> Risk assessment carried out <input type="checkbox"/> Hazard eliminated <input type="checkbox"/> Immediate control implemented to minimise the consequence of hazard <input type="checkbox"/> No action taken <input type="checkbox"/> Other (please specify): <b>-&gt; PCAR #075</b>		
Feedback provided to the person who reported the hazard? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Name of the person who took above actions <b>Charlotte Gray</b>	Signature: 	Date: <b>30/06/21</b>



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## APPENDIX III

### PCAR #075 – Evidence of close out.

**From:** [Marin Balan](#)  
**To:** [Jonathan Garton](#)  
**Cc:** [Toni Ryan](#)  
**Subject:** RE: HAZOB #026 - Deep holes for inverter piers  
**Date:** Tuesday, 4 May 2021 8:13:27 AM  
**Attachments:** [image005.png](#)  
[image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

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Hello,  
Friday morning, when I left, holes on road 'C' where covered with  
pallets.

Kind regards,



*Mario Balan*

*Civil Superintendent- Hillston Solar Farm*

Site office:  
Kidman Way  
Hillston NSW 2675, Australia

Head office:  
307 Queen Street, Level 4  
Brisbane QLD 4000, Australia

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✉ [mbalan@gransolar.com](mailto:mbalan@gransolar.com)

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☎ 0427 000 329

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🌐 [gransolar.com](http://gransolar.com)

## APPENDIX IV

### Stockpile and Storage Area Impact Verification Table.

Location	Monitoring date and image	Biodiversity impact outside development site assessment
Storage areas adjacent to site compounds	 01 May 2021	Nil
	 05 June 2021	Nil




	 <p>06 July 2021</p>	<p>Nil</p>
	 <p>06 August 2021</p>	<p>Nil</p>





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<p>Storage areas adjacent to Road A turn-around</p>	 <p>01 May 2021</p>	<p>Nil</p>
	 <p>05 June 2021</p>	<p>Nil</p>
	 <p>06 July 2021</p>	<p>Nil</p>



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	 <p>06 August 2021</p>	Nil
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## APPENDIX V

### Weed Declaration Example - SKIDSTEER 76896D

# Weed hygiene declaration

## Part 1: Sale or supply of things

(Examples of 'things' include fodder, grain, seed, livestock, gravel, sand, soil, mulch, packing material, machinery, vehicles or water)

This declaration is valid for supplying the thing/things specified below from  to  (please provide dates)

1. Thing (please tick the relevant box and provide a brief description)

Fodder  Grain/seeds  Sand/gravel  Machinery  Mulch  Livestock  Other

Amount:  Description:   
(e.g. weight, size of load, number of items) (e.g. cats, hay, oze)

2. Has the thing been moved through, stored in, come from, or used in a place infested with:

	Yes	No	Maybe
Pantherium		✓	
Giant rat's tail grass, American rat's tail grass, giant Parramatta grass, Parramatta grass		✓	
Prickly acacia		✓	
Other (provide details)		✓	

3. If you answered 'yes' or 'maybe' in question 2, then what actions have been taken to remove or ensure that there is no weed reproductive material? (please tick the relevant boxes and specify steps taken)

\*Please refer to the definition of 'weed reproductive material' in the explanatory notes.

Nil  Washing/cleaning  Quarantine period  Chemical treatment  Certified clean  Other

Steps taken:

4. To the best of my knowledge the thing described above still contains a weed listed in question 2 above.

Yes	No	Maybe
	✓	

I,  of

town  state  telephone

declare that the information that I have provided in this declaration is true and correct and I have read the accompanying explanatory notes before completing this declaration.

Signature  Date

## Part 2: Transport of contaminated things

(\*Vehicle\* includes anything used for carrying any thing or any person by land, water or air, and includes equipment or machinery capable of moving on land)

This declaration is valid for transport and movement of vehicles and other things from  to  (please provide locations)

1. Movement of vehicles—The vehicle described as: make

registration no. or engine/frame no.  was clean\* prior to entry to  (destination)

\*Please refer to the definition of 'clean' in the explanatory notes.

2. Transport of contaminated things—If you are transporting anything contaminated or possibly contaminated with any declared weed, what actions are being used to contain the weed reproductive material?

Nil  Covered with tarpaulin  Enclosed within container  Chemically treated  Other

Actions:

I,  of

town  state  telephone

\*If same as Part 1 please write 'as above'



declare that the information that I have provided in this declaration is true and correct and I have read the accompanying explanatory notes before completing this declaration.

Signature  Date



## APPENDIX VI

### Slashing schedule, photographs

Date of slashing completed	Time spent	Photographs
03 February 2021	4.45	Not available
04 February 2021	10	Not available
10 February 2021	3.5	Not available
16 February 2021	5	Not available
01 March 2021	10	Not available
02 March 2021	11	Not available
14 August 2021	4	Not available
17 August 2021	3	
19 August 2021	3	





## APPENDIX VII

### Amp Energy - GRS email thread regarding R17 landscaping

**From:** [jwebb@amp.energy](mailto:jwebb@amp.energy)  
**To:** [David Tullis](#)  
**Cc:** [Andres Prieto Gomez](#)  
**Subject:** RE: HIL-AMP Landscaping update  
**Date:** Monday, 23 August 2021 1:29:41 PM  
**Attachments:** [image006.png](#)  
[image007.png](#)  
[image008.png](#)  
[image009.png](#)

**CYBER SECURITY WARNING:** El correo electrónico se originó fuera de la organización. No haga clic en los enlaces o abra los archivos adjuntos a menos que reconozca al remitente y sepa que el contenido es seguro.

Hi David,

We are getting closer with finalising this. The landscaper has come back to us with a proposal and some pricing, she has just one more to finalise. Once I receive this, we can close it out, ideally by end of this week.

Regards  
Justin



**Justin Webb**  
Construction Manager

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