

## WHS F029 Job Safety Analysis (JSA)

<b>Title</b>	Setting and maintaining dung beetle traps		
<b>School/Business Unit</b>	ERS	<b>Location</b> (building/lab/ workshop if applicable)	UNE farms and field stations; Private farms

<b>JSA Development Date</b>	22 August 2017	<b>JSA Development Team</b>	A/Prof Nigel Andrew Jodi McAlary Dr Sarah Hill Min Raj Pohkrel Zac Hemmings
<b>JSA Review Date</b>	22 August 2020		

<b>Relevant Australian Standards / Codes of Practice / Legislation</b>
•
<b>Relevant Safety Data Sheets</b> (can be obtained via UNE subscription to ChemWatch)
<ul style="list-style-type: none"> <li>Unleaded fuel</li> <li>Ethanol</li> </ul>
<b>Plant &amp; Equipment Required</b>
<ul style="list-style-type: none"> <li>Auger</li> <li>Lawn mower – manual</li> <li>Crow bar</li> <li>Posthole digger</li> <li>Shovel</li> </ul>
<b>Licenses Required</b>
• N/A
<b>Competencies Required</b>
• Driver's license
<b>PPE Required</b>



	Dust Mask	Face Shield	Foot Protection	Hair Net	Protective Clothing	Respirator	Sun Protection	Breathing Apparatus
Compulsory			X		X		X	
As needed	X	X						



	Hand Protection	Hearing Protection	Safety Glasses	Safety Harness	Safety Helmet	Safety Vest	Apron/Lab Coat	Welding Mask
Compulsory	X	X	X					
As needed								

<b>Additional PPE/Notes</b>
Optional: gaiters

Document Reference	Procedure Reference	Version	Effective Date	Review Date	Page Number	Date Printed
WHS F029	WHS OP006	1.1	14/09/2016	14/09/2019	1	7/12/2017

## WHS F029 Job Safety Analysis (JSA)

Job Steps						
Job Step	Potential Hazards	Risk Score*	Controls	Residual Risk*		
Pre-fieldwork			Ensure a farm induction has been completed and documented			
Pre leaving UNE	Working alone / in isolation / remotely	6	Obtain 'fieldwork kit' from ERS admin and log departure for fieldwork. Provide contact phone number, estimated return time and vehicle rego Ensure clothing and equipment is suitable to the terrain and conditions of the site to travel to e.g. sunscreen, water, long pants.	4		
Travel to farm and around farm	Car accident	7	<ul style="list-style-type: none"> <li>- Driver safety training (4WD training);</li> <li>- first aid certificate;</li> <li>- drivers have a vehicle license.</li> <li>- private vehicles must be licenced</li> <li>- Ensure vehicle is suitable to access the site (ie do you need 4WD?)</li> </ul> <p>Be careful transporting fuel and oil and leaving it in a vehicle during hot weather. Be aware of potential leaks or spills.</p> <p>Be aware of potential fires caused by hot vehicles driving through long, dry, grass</p>	6		
Check in with Farm Manager via text	Accident while working alone/on the farm	6	Send text message to Farm Manager	4		
Before entering paddock	Accident while working alone/on the farm	6	<p>Check for unruly livestock/animals e.g. bull in paddock</p> <p>Let manager know where you are working and for how long especially if moving round multiple sites within farm</p> <p>Ask the manager about potentially dangerous animals and ensure that you are properly informed on how to manage a threatening animal.</p>	4		
Drill holes (Auger use): - attach drill bit to auger; - remove drill bit from auger; - refuel auger; - start auger;	<ul style="list-style-type: none"> <li>- Entanglement</li> <li>- laceration</li> <li>- burns</li> <li>- amputation</li> <li>- manual handling (strains)</li> </ul>	8	<ul style="list-style-type: none"> <li>- Read auger manual</li> <li>- Competent Person to demonstrate use of auger;</li> </ul>	4		
Document Reference	Procedure Reference	Version	Effective Date	Review Date	Page Number	Date Printed
WHS F029	WHS OP006	1.1	14/09/2016	14/09/2019	2	7/12/2017

## WHS F029 Job Safety Analysis (JSA)

- drill hole	- noise - flying debris		- first time user to demonstrate use to Competent person two times; - wear PPE (particularly gloves); - Injury resulting from improper use of crowbar, shovel etc - Burns from hot metal left in the sun during summer	
Maintaining traps: Mow around traps	Snakes/ Spiders residing in traps and concealed by long grass	5	Keep grass around traps short before attempting setup or retrieval. Do not put hand near trap unless it is clear. Make sure there is a clear site inside trap (and it is clear) before setting/retrieving samples. Live spiders are often found in the traps so ensure that all traps are visually inspected before putting your hand in them and wear hand protection	4
If accident occurs			Call 000 in any emergency. Focus on maintaining good first aid practice: DRABCD. Call for assistance (Farm Manager; Emergency contact person identified on your fieldwork form). Do not drive if you are hurt – wait for assistance.	

\* The risk score and residual risk is determined by following steps 1-4 below.

STEP 1		STEP 2			
Determine likelihood of occurrence		Determine severity/consequence/cost			
Risk Score Calculator: Definition of Terms					
Rare	Likely to occur here only in very exceptional circumstances	Insignificant	No personal injury; and/or No adverse media attention; and/or Financial cost under \$2000		
Unlikely	Could occur here at some time	Minor	Minor personal injury (first aid treatment); and/or Adverse Local Media Coverage; and/or Cost \$2000-\$50,000		
Possible	May occur here at some time	Moderate	Serious personal injury (medical treatment); and/or Adverse Capital City Media Coverage; and/or Cost \$50,000-\$250,000		
Likely	Will probably occur here (has happened before)	Major	Serious Personal Injury/long term absence; and/or Adverse & Extended National media Coverage; and/or Cost \$250,000 - \$1m		
Almost Certain	Is expected to occur here in most circumstances	Catastrophic	Fatality(ies)/ long term impairment; and/or Government intervention; and/or Financial cost more than \$1million		
STEP 3: Determine Risk Score					
Risk Score Calculator: Matrix					
	Severity/Consequence/Cost				
Likelihood	Insignificant	Minor	Moderate	Major	Catastrophic
Rare	2	3	4	5	6
Unlikely	3	4	5	6	7
Possible	4	5	6	7	8
Likely	5	6	7	8	9
Almost Certain	6	7	8	9	10
STEP 4: Determine Risk Score Response Priority					
Risk Score	Risk Score Response				
9-10	Severe risk. Highest of priorities. Must be rectified immediately.				
8	Very high risk. Requires urgent attention for quick resolution. Temporary controls to be implemented.				
6-7	Moderate to high risk. Prompt planning and resolution required with consultation.				
4-5	Low to moderate risk. Consult and identify controls that are reasonably practicable				
3	Very low risk. Minor issue for monitoring				
2	Insianificant Risk				

Document Reference	Procedure Reference	Version	Effective Date	Review Date	Page Number	Date Printed
WHS F029	WHS OP006	1.1	14/09/2016	14/09/2019	3	7/12/2017

