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Plan Revision Status

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1.0 Introduction

Company Description

Principal	PURE PLUMBING
Head Office	11 Baldissera Drive, Alice Springs NT 0870
Phone	08 8004 6001
Email	jamie@purepsnt.com.au
ABN	62 439 778 960
Postal Address	11 Baldissera Drive, Alice Springs NT 0870
Type of Activities	Plumbing; Septic Waste Collection & Disposal

Pure Plumbing Contacts

Project Manager	Jamie Phillips
Project Manager Phone	0448 347 634
Project Manager Email	jamie@purepsnt.com.au
Contract Administrator:	Jamie Phillips
Contract Administrator Phone:	0448 347 634
Contract Administrator Email:	jamie@purepsnt.com.au

2.0 Responsibilities

The responsibilities for implementing and monitoring this EMP are as follows;

Project Manager	Jamie Phillips
Project Manager Phone	0448 347 634
Project Manager Email	jamie@purepsnt.com.au
Contract Administrator:	Jamie Phillips
Contract Administrator Phone:	0448 347 634
Contract Administrator Email:	jamie@purepsnt.com.au

As the duty holder, Pure Plumbing, being the **PCBU**, must

- Ensure the health safety of its workers and others in our workplace
- Ensure the Environment is not put at risk from work carried out as part of our operations
- Ensure the safe use, handling and storage of plant, structures and substances
- Provide adequate facilities for the welfare of workers
- Provide information, training, instruction, and supervision
- Monitor the health of workers and the condition of our workplaces

Specific duties as a PCBU also include:

- Record and notify EPA, NT WorkSafe and any Department of Local Government, Housing and Community Development (DLGHCD) or Department of Infrastructure, Planning & Logistics (DIPL) projects, DLGHCD/ DIPL Superintendent of any notifiable incidents arising from the conduct of the business.
- Ensure any authorisations are in place for any high-risk work or plant
- Consult so far as reasonably practicable with other PCBUs or persons who have a duty in regard to an Environmental matter

The PCBU (Director) are responsible for ensuring that Pure Plumbing complies with any duty or obligation under the EPA Act. This is achieved by these officers exercising due diligence, which means they:

- Acquire and keep an up to date knowledge of Environmental matters
- Gain an understanding of Pure Plumbing’s operations and the hazards and risks involved
- Assure that appropriate resources and processes are provided to enable hazards to be identified and risks to be eliminated or minimised.
- Ensure that information regarding incidents, hazards and risks is received, considered and responded to in a timely way
- Ensure that Pure Plumbing has, and implements, processes for complying with its Environmental duties and obligations.
- Verify the provision and use of resources and processes listed above.

This may include:

- Developing an Environmental Management System framework, which will be reviewed on a regular basis
- Ensuring that risk management is incorporated into all business activities and that hazard identification, risk assessment and control is an on-going process, including:

- Development and maintenance of Environmental policies and procedures
- Ensuring and effective incident reporting procedures
- Ensuring appropriate processes are in place for Environmental issues relating to contractor management
- Ensuring that procurement of any equipment takes Environmental matters into account
- Ensuring regular Safety & Environmental Workplace Inspections take place at all Pure Plumbing premises.
- Incorporating updates and information into regular reporting provided to the PCBU/Director.
- Ensuring Environmental issues are part of all training provided to staff, including inductions
- Ensuring that contractors and visitors to any Pure Plumbing premises or activity are provided with appropriate and reasonable Environmental information at entry or prior to commencement.
- Ensuring the work environment is a safe environment.

Pure Plumbing **Managers** are responsible for ensuring that Pure Plumbing Policies and Procedures are implemented in their workplace and/or systems of work under their control. As an integral part of their normal duties, the Manager will:

- Consult with their workers on measures to protect the Environment
- Actively follow agreed safety practices and model positive attitudes towards Environmental matters.
- Arrange for their workers to be instructed in safe systems of work and procedures and supervise the practice of safe working procedures
- Notify the PCBU/Director of all incidents, hazardous situations, dangerous occurrences or immediate risks to the health and safety of any workers
- Ensure that all workers are informed of this EMP
- Undertake consultation with all managers and workers on any changes
- Communicate Environmental matters to the PCBU/Director

Pure Plumbing Managers and Supervisors are responsible for providing a workplace that is, as far as reasonably practicable, a safe and healthy workplace for workers and visitors, in particular in the areas of their control. This includes;

- Modelling leadership
- Demonstrating a commitment, by:
 - Talking about Environmental matters at regular meetings
 - Ensuring safe work procedures are followed
 - Reporting incidents, hazards and Environmental concerns promptly
 - Assessing task risk and not allowing an activity to continue until it can be controlled adequately.
- Fostering a strong culture where worker input is valued
- Promoting and implementing the Pure Plumbing Environmental Management System
- Actively support the identification of hazards and risks and the management of these
- Understand and monitor performance objectives
- Proactively manage other duty holders (e.g. contractors) when required.

Workers

Workers must take reasonable care for their own surrounding environment while they are at work and take reasonable care that their acts or omissions do not adversely affect the health and safety and environmental responsibilities of other persons. They must comply, so far as reasonably able, with any reasonable instruction given by their Manager or supervisor, as well as co-operating with any reasonable Pure Plumbing policy or procedure which relates to Environmental matters. On a day to day basis, this includes compliance of this Environmental Management Plan. This Environmental Management Plan will form part of the induction process prior to works commencing and will be reiterated throughout the life of the project so all stakeholders understand the requirements of the Environmental Management Plan.

- To the extent of the workers control or influence over working conditions or methods, take reasonable care to work safely and in accordance with this EMP.
- Making sure the work area is secured when leaving it
- Make proper use of all appropriate safeguards, safety devices and Personal Protective Equipment (PPE)
- Follow agreed safe work practices and rules
- Report all known hazards, accidents and incidents as soon as possible.

Contractors

Contractors, Sub-Contractors and self-employed persons are defined as “workers” under the WHS Act if they carry out work in any capacity for Pure Plumbing.

They are required to:

- Comply with the requirements of Environmental legislation and if applicable, Conditions of Contract for any DLGHCD/DIPL works undertaken
- Have in place, any Environmental policies and programs required under Environmental legislation
- Consult with Pure Plumbing about Environmental matters and comply with Pure Plumbing policies
- Work safely and to include the safety of Pure Plumbing staff and visitors in their management plans.
- Provide Pure Plumbing Project Manager a copy of a compliant EMP if undertaking environmentally sensitive high-risk tasks

If any staff member believes that a contractor may be engaging in a non-compliant work practice, they are required to report this issue to their manager.

This Environmental Management Plan will form part of the induction process prior to works commencing and will be reiterated throughout the life of the project so all stakeholders understand the requirements of the Environmental Management Plan.

Visitors

Visitors and other *interested parties* to Pure Plumbing also have responsibilities to abide by our workplace environmental management rules and procedures. These responsibilities include to:

- Take reasonable care for their own health and safety and the health and safety of other persons
- Comply with, so far as they are reasonably able, all reasonable directions provided by Pure Plumbing staff
- Report all Environmental related incidents to Pure Plumbing's Director or Manager
- Ensure the adequate supervision of any accompanying visitors
- Not to enter restricted area without authorisation or a Pure Plumbing escort
- Not bring or consume alcohol or drugs at Pure Plumbing workplaces
- Not wilfully or recklessly interfere with Pure Plumbing property

This Environmental Management Plan will form part of the induction process prior to works commencing and will be reiterated throughout the life of the project so all stakeholders understand the requirements of the Environmental Management Plan.

3.0 Background

The proposed works comprises of the collection and disposal of septic waste in the Central Australian region.

This Environmental Management Plan has been prepared by Pure Plumbing to provide clear guidance for Pure Plumbing's activities.

Where work is required to be carried out in easements or on land adjacent to the site for the purpose of connecting services or joining up of roads etc. Pure Plumbing will ensure that the appropriate licences and approvals are obtained for work in those areas.

4.0 Objectives of the EMP

The objective of this Environmental Management Plan (**EMP**) is to provide the framework for Environmental Management to be implemented by Pure Plumbing and all Contractors working on the site for the life of the project.

This plan will assist Pure Plumbing in meeting its obligations in accordance with the following:

- Northern Territory Government Conditions of Contract
- Northern Territory Aboriginal Sacred Sites Act
- Bushfires Act
- Dangerous Goods Act
- Environmental Assessment Act
- Environment Protection and Biodiversity Conservation Act
- Environmental Offences and Penalties Act
- Heritage Act
- Soil Conservation and Land Utilisation Act
- Territory Parks and Wildlife Conservation Act

- Waste Management and Pollution Control Act
- Water Act
- Weeds Management Act

5.0 Approvals, Licences and Permits

Pure Plumbing will obtain written or verbal advice from the Superintendent or client on the specific matter requiring approval and/or authorisation unless statutory requirements state otherwise or unless a different approver or authoriser is specified.

Pure Plumbing are committed to compliance with conditions of any CLC Sacred Site Clearance Certificate. This will be achieved through regular consultation with workers and contractors throughout the life of the project and following the criteria as set out in the CLC Sacred Site Clearance Certificate below.

Site Restrictions

Site Rules – Work on Communities

It is Pure Plumbing's responsibility to ascertain from the relevant Regional Council or Land Council details of any permit's conditions, restrictions, requirements, fees etc. applicable to working in that Community. All permissions, permits and charges are the responsibility of Pure Plumbing.

Specific Site Conditions – Access To Communities

Before entering the Aboriginal community, Pure Plumbing will have obtained from the relevant Regional Council or Land Council, all necessary permits/permissions and have paid all costs applicable to working in that community. Pure Plumbing shall ensure that all employees engaged on the Contract (including those of subcontractors) comply with all laws and rules relevant to working in that community (including restrictions on, or banning of, consumption of alcohol).

Pure Plumbing is aware that various communities have Volatile Substance Agreements in place that include Contractor requirements.

Pure Plumbing will independently source accommodation options in consultation with the relevant authorities/ organisations prior to the commencement of works. Examples include Regional Councils and local Aboriginal organisations.

Light And Power

Where suitable electric light and power supply is available, Pure Plumbing will secure permission for the use of power at the site and pay any applicable charges.

Water

Where suitable water supply is available, Pure Plumbing shall be permitted to use this supply subject to any restrictions imposed by the occupier of the site.

Sanitary Accommodation

Pure Plumbing will be permitted to use the existing sanitary accommodation provided that the facilities are properly used in accordance with the requirements of the occupier of the site.

Salvaged Material

Materials salvaged from the Works, other than that specified to remain the property of the Principal, shall become the property of Pure Plumbing, either for re-use in the Works as may be specified, or, if not so re-used, for disposal by Pure Plumbing clear of the site of the Works.

Work In Easements

During the construction for work in an easement, drainage reserve or the like, Pure Plumbing shall confine their operations to within the boundaries of such easement or reserve. Any concessions Pure Plumbing may desire outside the above-mentioned boundaries to obtain access to the easement or for any other purpose shall be obtained by them at our own expense from the property owner or other party concerned. Any agreement reached shall be confirmed in writing and copies forwarded to the Superintendent and the landowner concerned.

On completion of the Contract the easement or reserve and everything appertaining thereto shall be restored as near as possible to the condition prevailing immediately prior to commencement of the Works and to the satisfaction of the owner.

Work Within The Road Reserve

Before any work is carried out within a road reserve by Pure Plumbing or our Sub-Contractors, Pure Plumbing shall apply to the appropriate authority for permission to work within the road reserve and where relevant, permission to open the road. Pure Plumbing shall pay the necessary fees and shall conform to the requirements of that authority.

FIRE FIGHTING EQUIPMENT

Pure Plumbing will have valid (tested within date) firefighting equipment located on site, storage areas, and at the worksite at all times. The exact locations will be delineated to all workers at the time of Pure Plumbing Site-Specific Inductions.

6.0 Environmental Safeguards

Environmental Induction and Training

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>All site staff will be made aware of the site EMP, environmentally sensitive areas and environmental responsibilities during their project specific site induction. Communication methods to be implemented throughout the life of the project are regular toolbox talks, pre-starts. Environmental Training will take the form of inhouse spill response training, handling of dangerous goods, etc. To ensure workers, contractors and visitors have an understanding of the EMP this Environmental Management Plan will form part of the induction process prior to works commencing and will be reiterated throughout the life of the project so all stakeholders understand the requirements of the Environmental Management Plan.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works 	

Community Liaison

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>Members of the affected community will be notified of the proposed works prior to their commencement, where required.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works 	
<p>Complaints received will be recorded on Pure Plumbing’s ‘issues & Actions Register’ and attended to accordingly. On receiving a complaint, works will be reviewed to determine whether issues relating to the complaint could be avoided or minimised. Feedback will be provided to the complainant explaining what outcomes resulted.</p> <p>It is anticipated that maintenance works will be for short durations only and will pose little impact to the community. As per Clause 18 of the Standard Specification for Environmental Management, in the event we receive a complaint, we will forward the complaint to the superintendent within 24hrs</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works ▪ During works 	

Soil Erosion and Sedimentation Management

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>An Erosion and Sediment Control Plan will be prepared and implemented and will incorporate appropriate erosion and sediment control measures where required.</p> <p>Erosion and sediment control measures will be maintained regularly and after rainfall events.</p> <p>Erosion and sediment control measures will not be removed until disturbed areas have been stabilised.</p> <p>Disturbed areas will be stabilised progressively with vegetation during construction, where necessary, and stabilisation will be undertaken after works are complete.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ When Required ▪ Prior to commencement of works ▪ During works ▪ Post works 	

Water Quality

ACTIONS	RESPONSIBILITY	TIMING	SIGN OFF
<p>Water quality control measures will be implemented to prevent any materials entering drain inlets and waterways.</p> <p>Storage areas for fuels, oils and chemicals will be surrounded by an impervious bund that contains 120% of the largest container stored in the Bund. The location of storage areas will not be within 20 metres of any areas of concentrated water flow, flood and poorly drained areas, on slopes above 10° or near any areas of native vegetation.</p> <p>Drums used as markers will not contain chemicals or fuels.</p> <p>Refuelling plant and equipment will be undertaken within bunded areas and more than 50m away from waterways.</p> <p>The use of chemicals and dangerous goods has been deemed to be minimal, however, the transportation of large quantities of fuels, oils and lubricants will be undertaken by a licensed Dangerous Goods carrier. The storage of the chemicals and dangerous goods will be held in contained areas and segregated as per the SDS</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works ▪ During works ▪ Post works 	

<p>requirements of such items. All workers will be informed of the SDS requirements for all of the chemicals and dangerous goods held onsite, and the appropriate PPE for handling chemicals and dangerous goods will be available to all workers onsite.</p> <p>Cleaning of spray bars or equivalent equipment will be undertaken in appropriate areas and in a manner, which prevents or minimises pollution to waters.</p> <p>Spill containment equipment kits will be available on site.</p> <p>Works in waterways will be postponed during or immediately following heavy rainfall or when waterways are running high.</p>			
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Air Quality

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>Spraying of paint and other materials with the potential to become air borne particulates will not be undertaken during windy conditions.</p> <p>Notification by the way of signage will be undertaken where appropriate where work is likely to cause dust impact on the public.</p> <p>No burning of vegetation or other materials will be permitted on site.</p> <p>Exhaust emissions from plant and equipment will be minimised.</p> <p>Exhaust emissions from plant and equipment will be minimised. This can be achieved by continuing to regularly service and maintain all vehicles and plant as per their manufacturer’s instructions. Daily pre-starts are also undertaken to identify and issues with the Plant & Equipment prior to use.</p> <p>Any vehicle transporting waste or other materials that may produce odours or dust will be covered during transportation.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works ▪ During works 	

Noise and Vibration

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>Affected parties will be notified when work is likely to cause vibration or offensive noise to impact on the public.</p> <p>Works will be undertaken during normal working hours. Any work that is undertaken on Sundays, Public Holidays or outside normal working hours will require the approval of the Principal.</p> <p>All reasonable practical steps will be undertaken to reduce maintenance activity noise and vibration from the site.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works ▪ During works 	

Vegetation and Fauna

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>Parking areas and turning points for plant and equipment in previously disturbed areas will be identified prior to commencement of works and provided to site personnel to minimise roadside vegetation disturbance.</p> <p>Vegetation identified to be significant, including trees, shrubs, ground cover plants or grasses will not be disturbed by either direct physical or non-direct means.</p> <p>Significant vegetation will be protected by physical barriers to exclude machinery, vehicles or pedestrians from the proximity of the plant’s foliage.</p> <p>Vegetation refuse that is deemed as a valuable habitat will be avoided so that it continues to provide a wildlife refuge.</p> <p>Should an area supporting significant fauna be identified as part of the assessment of the project, measures to avoid these impacts will be investigated and adopted, where feasible. Options may include minimising the impact area, constructing outside of the breeding season (especially for birds), relocation of fauna prior to construction, design of a crossings to protect fauna movement, if deemed necessary.</p>	<p>Project manager</p>	<ul style="list-style-type: none"> ▪ During Works 	

Heritage

ACTION	RESPONSIBILITY	TIMING	SIGN OFF
<p>Conditions attached to any Aboriginal Areas Protection Board (AAPA) Certificate will be complied with.</p> <p>Should any item be encountered which is suspected to be a relic of heritage value or any relic, artefact or material suspected of being of Aboriginal origin, all construction work that might affect the item will cease and the item protected from damage and disturbance. The Principal will be notified immediately.</p> <p>All personnel working on site will receive training regarding their responsibilities regarding cultural heritage and will be made aware of any sites or areas which must be avoided. Such sites or areas will be identified on a site map and made available to all relevant personnel during the works.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ When Required ▪ Prior to commencement of works ▪ During works ▪ Post works 	

Waste Management

Action	Responsibility	Timing	Sign Off
<p>Waste generated from maintenance activities will be sorted and disposed of accordingly, and listed waste will be disposed of via the means of a licensed landfill facility.</p> <p>Where available, waste suitable for reuse or recycling will be reused or recycled.</p> <p>Materials and products with recycled content will be proposed for the works wherever these are cost and performance competitive and they are environmentally preferable to the non-recycled alternative.</p> <p>Waste oil will be sent to approved recyclers where appropriate and practical.</p> <p>Waste and containers not able to be recycled will be disposed of at a licensed landfill site.</p> <p>No construction waste material will be left on site once the construction activity has been completed.</p>	<p>Project Manager</p>	<ul style="list-style-type: none"> ▪ Prior to commencement of works ▪ During works ▪ Post works 	

The site will be left in a clean and tidy state on completion of the construction works.			
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Weed Management

Action	Responsibility	Timing	Sign Off
<p>All noxious weeds will be managed in accordance with the Weeds Management Act, including preventing the spread of noxious weeds through movement of contaminated plant and equipment into un-infested areas.</p> <p>Weed infestation areas will be identified then avoided during construction activities.</p> <p>Weed infested areas that are programmed for disturbance will be treated appropriately prior to construction to avoid germination of weed seeds.</p> <p>All personnel managing and using pesticides will receive appropriate training prior to commencing work. Only pesticides registered for use over water will be used within 10m of watercourses.</p> <p>Machinery will arrive at and depart from the site in a clean condition, free of seed or mud.</p> <p>Vehicles and machinery will be cleaned on a hardstand area where weed seeds can be separated from runoff and treated appropriately.</p> <p>Fill that is contaminated with weed seeds will be quarantined with visible barriers and a notice, then treated appropriately. Alternatively, it will be buried under 300 mm depth of clean, weed seed free fill.</p>	Project Manager	<ul style="list-style-type: none"> ▪ Prior to commencement of works ▪ During works ▪ Post works 	

7.0 Non-Conformance and Corrective Action Procedures

Prior to the works commencing and during the life of the project, Pure Plumbing will assess the site of works to identify and assess any Environmental hazards that must be considered, controlled and document any of the hazards and control measures to be communicated to Pure Plumbing stakeholders.

Pure Plumbing not only considers the environmental risks associated with this project, but also the activity risks that the works will introduce to the Projects activities.

The hierarchy of control is used to control environmental risks:

- Elimination (first preference)
- Substitution
- Isolation
- Engineering Controls
- Administrative Controls

Control measures are drawn from as high up the hierarchy as is reasonably practical, considering the severity of the risk, current knowledge about the hazard and its risks, and the availability and the cost of control methods. A combination of control measures will be implemented if a single measure does not effectively control the risk.

Upon the identification of environmental hazards and non-conformances for this project, intensive consultation with the Project team will take place, and input from the Project Team will be encouraged and recorded.

Consultation, co-operation and co-ordination with all stakeholders, including sub-contractors will be managed during the life of this project in various ways.

Pure Plumbing will also implement daily discussions talks with all Project team members, subcontractor's and visitors onsite prior to works commencing, these daily discussion talks are designed to openly discuss any concerns or non-conformances with the team as well as discuss any actual or possible hazards they may be present during the day's activities.

In the event a visitor comes to site post-daily discussion talks they will be required to read and sign the daily discussion talks record.

Pure Plumbing will inform all Project Team members and subcontractors Pure Plumbing work environmental incidents, reporting and notification processes during the Project Specific Induction

8.0 Environmental Audit Program

Identifying the environmental hazards, assess & control risks associated with this specific project will be managed onsite with regular Workplace Safety and Environmental Inspections undertaken by Pure Plumbing’s staff and management.

Pure Plumbing also intends to undertake regular internal audits to ensure compliance against the project specific, technical and conditions of contract requirements that are specified. Premier.

Managing sub-contractors will include requesting, collecting, assessing, monitoring and reviewing any Environmental Management processes and procedures that are applicable to this project and the works to be undertaken.

If a non-conformance is identified during the initial assessment or whilst undertaking works on the project, Pure Plumbing will notify the subcontractor immediately for consultation and conformation of the subcontractor’s corrective action.

Work will not commence or recommence onsite until Pure Plumbing’s Project Manager is satisfied that the corrective actions are deemed acceptable.

Compliance with the EMP will be monitored on an ongoing basis.

Environmental audits will be undertaken at the following times;

- **Monthly** internal audits

9.0 Hazardous Materials and Dangerous Goods

Hazard	Control Measure	Responsibility
<ul style="list-style-type: none"> ▪ Spills ▪ Uncontrolled Release ▪ Pollution 	<ul style="list-style-type: none"> ▪ Use, store and handle chemicals and dangerous good in accordance with all relevant legislation, manufacturer’s instructions and the relevant Safety Data Sheets (SDS). 	All Workers for the life of the project
	<ul style="list-style-type: none"> ▪ Staff to be appropriately trained to transport, handle or store dangerous goods. 	Project Manager
	<ul style="list-style-type: none"> ▪ Staff to be trained in the use of spill clean-up equipment and spill containment procedures. 	Project Manager
	<ul style="list-style-type: none"> ▪ All staff to be aware of location of spill kits and clean-up equipment on site 	All Workers for the life of the project
<ul style="list-style-type: none"> ▪ Asbestos 	<ul style="list-style-type: none"> ▪ In the event Pure Plumbing discovers asbestos containing materials which are not accounted for in the original scope in the demolition works, Pure Plumbing WILL cease work immediately for that portion of the works, and notify the Superintendent as soon as practicable for further direction 	Project Manager

10.0 Soil Erosion and Sediment Control Plan

Due to the nature of the works pertaining to a contract an Erosion and Sediment Control Plan will be prepared and implemented and will incorporate appropriate erosion and sediment control measures where and when required.

Erosion and sediment control measures will be maintained regularly and after rainfall events.

Erosion and sediment control measures will not be removed until disturbed areas have been stabilised.

Disturbed areas will be stabilised progressively with vegetation during construction, where necessary, and stabilisation will be undertaken after works are complete

Erosion and Sediment Control will be executed by the following methods where deemed necessary:

- Staging of operations and sequence of work under the Contract
- Diversion of upstream water around the site;
- Provision of temporary drains and catch drains;
- Application of diversion, dispersal and/or retention measures to concentrate flows to control and dissipate stormwater through the site without damage;
- Spreader banks or other structures to disperse concentrated runoff;
- Silt traps and silt fencing to prevent discharge sediment materials to downstream areas;
- Temporary grassing or other treatments such as contour ploughing or bunding to disturbed areas and long-term stockpiles where deemed necessary;
- Restoration of disturbed areas in progress with the work under the Contract; and
- Use of mulch materials to protect disturbed or exposed areas where suitable.

The Soil Erosion and Sedimentation Control Plan will include all site areas and access, stockpile and storage areas and compound areas.

11.0 Waste Management Plan

Pure Plumbing has Identified major waste streams that will be generated during the Contract including;

- green waste
- construction waste, including;
 - spoil
 - office waste
 - kitchen waste
 - sewerage effluent;

Monitoring the Waste Management Plan will be managed by the way of **monthly** Safety & Environmental Workplace Inspection Checklists .

The identified waste streams will be managed by the following methods:

Waste Stream	Location	Disposal Method	Transportation	Responsibility
Green Waste	Various on-site locations	Green waste will be assessed to identify any declared weeds. If declared weeds are identified on site, they will be treated in a way to minimise the spread and effective destruction. Other green waste generated by the contracted works will be managed as not to create a fire hazard and stockpiled onsite	Not Required	Project Manager
Green Waste	Alice Springs Office	Not applicable		
Spoil	Various on-site locations	Reused or recycled onsite.	Not Required	Project Manager
Spoil	Alice Springs Office	Not applicable		
Office Waste	Various on-site locations	Recyclable items such as paper, cardboard, bottles, etc will be separated and disposed of at a recycle depot. Other non-reusable items will be disposed of at a licenced waste facility	Office waste will be transported in registered vehicles	Project Manager
Office Waste	Alice Springs Office	Recyclable items such as paper, cardboard, bottles, etc will be separated and disposed of at a recycle depot. Other non-reusable items will be disposed of at a licenced waste facility	waste will be transported with in registered vehicles or via council municipal kerbside collection vehicles	Project Manager
Kitchen Waste	Various on-site locations	Kitchen waste will be stored onsite and transported back to the Alice Springs office the disposed of Via regular council municipal kerbside collections and biodegradable items such as food scraps will be disposed of onsite composting where appropriate	Kitchen waste will be transported in registered vehicles	Project Manager
Kitchen Waste	Alice Springs Office	Via regular council municipal kerbside collections and biodegradable items such as food scraps will be disposed of onsite composting where appropriate	Council municipal kerbside collection vehicles	Project Manager

12.0 WEED MANAGEMENT PLAN

If Pure Plumbing identify weed infestations, we shall engage suitably qualified Subcontractors who will treat weed infestations and request and record the following information from the contractors

- Chemical handlers
- Qualifications
- Date
- Spray type used
- Target weed and its identified location by Chainage or Latitude and Longitude.

Once this information is obtained Pure Plumbing shall contact the Weed Management Branch immediately as well as the superintendent.

Pure Plumbing's method of cleaning vehicles & machinery is vehicles and machinery will be cleaned on a hardstand area onsite on a regular basis where weed seeds can be separated from runoff and treated appropriately by means off collection, storage and disposal in accordance with the EPA's requirements

Thorough cleaning and detailing of Pure Plumbing's vehicles & machinery will be undertaken at Pure Plumbing's Alice Springs depot. This will occur upon completion of works and during scheduled repairs and maintenance periods.

Any identified contaminated fill stockpile will be reported to the Weed Management Branch immediately as well as the superintendent prior to any disturbance of the contaminated fill stockpile. The stockpile will be isolated, and sign posted as to ensure that it is not to be used until the contamination is appropriately managed

Ongoing onsite monitoring will be managed by the way of visual inspections whilst undertaking contracted works and by formal workplace inspections.

A list of identified N.T declared weeds will be communicated to project workers as part of a toolbox meeting and the list will also be held on site.

The overall responsibility of the management of the Weed Management Plan will be given to the Project Manager

13.0 Emergency Response Procedures

Organisation Name	Contact	Title	Phone number
Emergency Services	Centralised Call Centre	Police, Ambulance & Fire	000
State Emergency Services	Centralised Call Centre	SES	13 25 00
Police	NT Police Service-	PFES NT	131 444
Fire	NT Fire & Rescue	PFES NT	131 444
Ambulance	St Johns Ambulance	PFES NT	131 444
Royal Flying Doctors	Centralised Call Centre	RFDS	08 8648 9555
Poisons Hotline	Centralised Call Centre	Poisons Hotline	13 11 26
E.P. A	Centralised NT Call Centre	NT EPA	1800 064 567
Power & Water	Centralised NT Call Centre	PAWA	1800 245 090
Safety/ Compliance Consultant	Matt Ryan	Environmental Safety	0450 141 893

Pure Plumbing aims to provide the management strategies to minimise the risks, maximise the safety and wellbeing of its personnel and members of the public and the protection of the environment, limit the extent of damage and disruption and provide a framework for the continuity of business and maintenance of the reputation of Pure Plumbing and impact to flora and fauna as well as the surrounding environment.

Pure Plumbing maintains procedures to identify potential for and respond to accidents and emergency situations, for preventing and mitigating any illness, injury and any environmental impacts that may be associated with them.

Pure Plumbing reviews and revises, where necessary, emergency preparedness and response procedures, in particular, after the occurrence of incidents or emergency situations.

This review and revision process takes the form of a specific audit where a full investigation is made and where management review the findings and where corrective/preventive action is proposed, taken and verified as satisfactory in preventing recurrence.

Where emergency preparedness and response procedures are documented, the procedures are periodically tested. A record of the test is taken, the findings evaluated, and actions are taken arising from improvements, to the procedures.

Environmental Management Plan

Emergency Plan

Procedures	Brief outline of procedures	Evacuation point/ Assembly Area	Reference to full procedure document	Supporting documentation
<p style="text-align: center;">FIRE</p> <p>Evacuation Procedure</p>	<p>STAGE 1: - Remove people from the immediate Danger Area</p> <p>Occupants and staff in the immediate danger area are to assemble a safe distance away from the area in danger. When the area has been evacuated all doors and windows should be closed to contain a fire and secure the premises.</p> <p>STAGE 2: - Removal to a Safe Area</p> <p>If the severity of the emergency situation further evacuation, occupants should be moved through the emergency exit or a safe route to a safe area.</p> <p>STAGE 2: - Alert the Emergency Service</p> <p>The most senior staff on site is to alert the Emergency Service by dialling 000 to inform them of the emergency situation and exact location of the emergency. Advise that an evacuation has commenced</p> <p>STAGE 4: - Complete Evacuation of Entire Area Should the emergency necessitate evacuation of the whole area, The most senior staff on site or the Emergency Service will direct occupants from the safe place to one of the ASSEMBLY AREAS.</p> <p>STAGE 5: - Roll Call.</p> <p>To be conducted as soon as possible and to ensure all Persons are accounted for. Report all missing persons to the Emergency Service Officer</p>	<p>Assemble next to the main site office, if safe to do so.</p> <p style="text-align: center;">OR</p> <p>Assemble next to the lead Vehicle on site, if safe to do so.</p>	<p>The Pure Plumbing Emergency Management procedures document can be found on the shared drive under the 'Emergency' folder. A printed copy is also located in the main office</p>	<ul style="list-style-type: none"> ■ Project Specific Evacuation Diagram. ■ Pure Plumbing Company Induction ■ Project Specific WHS Management Plan

Procedures	Brief outline of procedures	Evacuation point/ Assembly Area	Reference to full procedure document	Supporting documentation
<p>CYCLONE / FLOOD</p> <p><i>Evacuation Procedure</i></p>	<p>When the threat or chance of cyclone or flood occurs, the most senior person on-site at the time will monitor the Bureau of Meteorology and local warning centres for a Cyclone / Flood warning. When a Cyclone / Flood warning has been issued, notify all staff and management in each plant / vehicle and on other sites of the need to return to their accommodation or to a shelter if it is safe to do so.</p> <p>Arrange for closure of the site and offices and tie down or bring any loose materials inside. Ensure sediment control is in place.</p>	<p>Assemble next to the main site office, if safe to do so.</p> <p>OR</p> <p>Assemble next to the lead Vehicle on site, if safe to do so.</p>	<p>The Pure Plumbing Emergency Management procedures document can be found on the shared drive under the 'Emergency' folder. A printed copy is also located in the main office</p>	<ul style="list-style-type: none"> Project Specific Evacuation Diagram. Pure Plumbing Company Induction Project Specific WHS Management Plan
<p>EARTHQUAKE</p> <p><i>Evacuation Procedure</i></p>	<p>Normally an earthquake will happen without warning. The Manager will be guided by and comply with directions from Police and Fire Service staff (Incident Managers).</p> <p>If buildings are evacuated, no-one is to re-enter unless cleared by the most senior staff on-site at the time of the emergency.</p>	<p>Assemble next to the main site office, if safe to do so.</p> <p>OR</p> <p>Assemble next to the lead Vehicle on site, if safe to do so.</p>	<p>The Pure Plumbing Emergency Management procedures document can be found on the shared drive under the 'Emergency' folder. A printed copy is also located in the main office</p>	<ul style="list-style-type: none"> Project Specific Evacuation Diagram. Pure Plumbing Company Induction Project Specific WHS Management Plan
<p>MEDICAL EMERGENCY</p> <p><i>Serious</i></p>	<p>In the case of a serious medical emergency call the Ambulance, Clinic or Royal Flying Doctors</p> <p>If the medical treatment is not an emergency contact the closest First Aid Officer, then contact a PURE PLUMBING Director</p>	<p>Assemble next to the main site office, if safe to do so.</p> <p>OR</p> <p>Assemble next to the lead Vehicle on site, if safe to do so.</p>	<p>The Pure Plumbing Emergency Management procedures document can be found on the shared drive under the 'Emergency' folder. A printed copy is also located in the main office</p>	<ul style="list-style-type: none"> Project Specific Evacuation Diagram. Pure Plumbing Company Induction Project Specific WHS Management Plan

Procedures	Brief outline of procedures	Evacuation point/ Assembly Area	Reference to full procedure document	Supporting documentation
<p>MEDICAL EMERGENCY <i>Non - Serious</i></p>	<ol style="list-style-type: none"> Contact the Senior First Aid Officer to attend. Contact the supervisor or Manager Complete an incident report Submit the incident report to the Branch Manager 	Remain at the scene until instructed otherwise	The Pure Plumbing Emergency Management procedures document can be found on the shared drive under the 'Emergency' folder. A printed copy is also located in the main office	<ul style="list-style-type: none"> Project Specific Evacuation Diagram. Pure Plumbing Company Induction Project Specific WHS Management Plan
<p>CIVIL UNREST</p>	<ol style="list-style-type: none"> Isolate yourself and fellow workers in a secure location. Contact the Police Wait for assistance 	Remain at the secure location until instructed otherwise	The Pure Plumbing Emergency Management procedures document can be found on the shared drive under the 'Emergency' folder. A printed copy is also located in the main office	<ul style="list-style-type: none"> Project Specific Evacuation Diagram. Pure Plumbing Company Induction Project Specific WHS Management Plan

EVACUATION DRILL SCHEDULE

Evacuation procedure type	Drill frequency	Position/person responsible	Next drill dates
FIRE	<i>6 monthly</i>	<i>Project Manager</i>	
CYCLONE / FLOOD	<i>6 monthly</i>	<i>Project Manager</i>	
EARTHQUAKE	<i>6 monthly</i>	<i>Project Manager</i>	
MEDICAL EMERGENCY	<i>6 monthly</i>	<i>Project Manager</i>	

EMERGENCY EQUIPMENT

Location

First Aid kits and **Fire Extinguishers** are located in the following locations

- All Pure Plumbing light vehicles
- All Pure Plumbing heavy plant
- All Pure Plumbing accommodation facilities

Spill Kits are located in the following locations

- Chemical Storage areas.
- Fuel Storage areas
- All Pure Plumbing accommodation facilities

Object	Checked/Review Date	Person responsible
<i>Plant First Aid Kit</i>		<i>Project Manager</i>
<i>Vehicle First Aid Kit</i>		<i>Project Manager</i>
<i>Plant Fire Extinguishers</i>		<i>Project Manager</i>
<i>Vehicle Fire Extinguishers</i>		<i>Project Manager</i>
<i>Spill Kits</i>		<i>Project Manager</i>

SPILLS MANAGEMENT PLAN

1. SPILLS – MINOR

A minor spill is a spill that can be controlled and can be dealt with safely by the operator.

If a minor spill occurs, the following steps must be implemented:

- I. Immediately control the flow by shutting open valves or plugging leaks, if possible
- II. Identify spillage type and quantity.
- III. Notify those in the immediate vicinity of the hazard.
- IV. Initiate appropriate method/s of containment which include:
 - a. Application of correct PPE including spill kit.
 - b. Protect drains, water ways and soil with spill sock directly in flow path of spillage and/or absorbent material by applying directly on spillage to prevent further contamination.
 - c. Once the spillage is contained, clean contaminated area and place all absorbent products into sealed containers for disposal at an approved disposal facility.
- V. Notify the Projects Manager of the location and size of the spill and advise method of containment undertaken to prevent further contamination including spill kit contents utilised.
- VI. The Projects Manager to report incident to relevant authorities.
- VII. The Projects Manager to ensure spill kit contents is restocked.

2. SPILLS – MAJOR

The major hazards identified in the transport of liquid waste include:

- Spills resulting in land contamination
- Spills resulting in water contamination
- Personal injury / disease

These hazards can be potentially caused by:

- Mechanical breakdown or equipment failure
- Motor vehicle accident
- Operator error

In the event of a spill, Pure Plumbing shall adopt the following mandatory procedures:

- If the health of the public, property or environment is at major risk, immediately call Emergency Services 000.
- Telephone details of the incident through to Project Manager. The Project Manager will assist co-ordinate the control and cleanup of the spill.
- If the area in which the spill has occurred is accessible to the public, the contaminated area must be cordoned off and clearly marked as a “Restricted Area” immediately.
 - As soon as possible ensure protective clothing and PPE is obtained and worn.
 - Use sand bags, spill kit or dig a trench to contain the spill. Use a long-handled shovel and re-route to a nearby access chamber if possible.
 - Block off / tarp any stormwater inlets to prevent waste entering the drain system.
 - If containment has proved not possible with hand tools and spill kit, a vacuum truck to be mobilized and utilized.
 - When the containment area is visually clean, a chlorine/water solution or hydrated lime should be used to disinfect the region.
 - Once safe to do so, if an environmental risk was identified, the Project Manager will notify all reportable agencies of the incident.
 - 24 hours after the spill region has been cleaned, any barriers or temporary fencing can be removed and assess to the area restored.
 - All disposable PPE and protective clothing used during the incident to be bagged and disposed.
 - The Spill Kit, anti-bacterial wash and disposable PPE to be replenished as necessary.

Pure Plumbing incorporates the following preventative procedures to control the risks and minimize the likelihood of a spill occurring during transportation of the waste:

All team members fully licenced and trained to drive and operate our two pump trucks.
Our trucks are serviced on a regular basis and daily pre-start checks documented by the operators.
The pumps, hoses and tanks on the trucks are inspected on a regular basis.
Personal protective clothing is provided and compulsory whilst working with the pump trucks.
Trucks are equipped with spill kits.

3. SPILL KITS AND PPE

Spill kit contents include:

QTY	DESCRIPTION
20	Absorbent pads
2	Absorbent sock 1.2m
1	Absorbent granular sweep 10kg
2	Contaminated waste bags and ties
1	Pair oil resistant gloves
1	Pair clear safety glasses
1	Laminated instruction sheet

4. CONTACTS

- NT Police, Fire and Emergency Services 000
- Ambulance 000
- Pollution hot line 1800 064 567
- Projects Manager 0448 347 634

End of Document