



Minimbah Waste Management Centre



Pollution Incident Response Management Plan

Revision History				
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3	June 2022	Contacts & positions Updated	Steven Rees	Duncan Russ
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1. ADMINISTRATION

1.1 PURPOSE

Industry is now required to report pollution incidents immediately to the EPA, NSW Health, Fire and Rescue NSW, WorkCover NSW and the local council.

This Pollution Incident Response Management Plan has been prepared to comply with the *Protection of the Environment Legislation Amendment Act 2011* (POELA Act) that requires the preparation and implementation of a Pollution Incident Response Management Plan.

The purpose of this Pollution Incident Response Management Plan is to assist employees and management of the Minimbah Waste Management Centre to identify the potential risk of a pollution incident occurring, introduce measures to mitigate that risk and to give direction in making quality decisions should a pollution incident occur. This plan contains guidance in determining the appropriate actions to take to 'prevent material harm' to the environment.

1.2 OBJECTIVE AND SCOPE OF PLAN

It is Midcoast Council's intent to prevent all foreseeable pollution incidents that might impact on the environment and the safety of employees and facility users through the implementation of standard operational procedures, undertaking routine site activity inspections, regular training of personnel in the implementation of operational procedures and through emphasizing and supporting proactive incident prevention reporting.

However, it is recognized that pollution incidents are not totally preventable. Therefore this plan has been developed to achieve the following objectives:

The objectives of this plan are to:

- reduce the likelihood of a pollution incident occurring at the facility through identification of risks and the development of planned actions to minimize and manage those risks
- ensure comprehensive and timely communication about a pollution incident to all staff at the premises, the Environment Protection Authority (EPA), other relevant authorities specified in the Act (such as NSW Ministry of Health, WorkCover NSW, and Fire and Rescue NSW) and people outside the facility who may be affected by the impacts of the pollution incident
- ensure that the Plan is properly implemented by trained staff, identifying persons responsible for implementing it, and ensuring that the plan is regularly tested for accuracy, currency and suitability
- provide guidance on how to respond to an environmental pollution incident and how to record and report such an event

This Plan contains guidance in determining the appropriate actions to take to prevent a pollution incident, injury or property damage and how to respond should a pollution incident occur. The Plan also includes provisions for record keeping, testing, reporting and document revision.

1.3 LEGISLATIVE CONTEXT

The specific requirements for a pollution incident response management plan are set out in Part 5.7A of the POEO Act and in the Protection of the Environment Operations (General) Regulation 2009 (POEO (G) Regulation 2). In summary, these provisions require the following:

- All holders of environment protection licences (EPL) must prepare a pollution incident response management plan (section 153A, POEO Act).
- The Plan must include the information detailed in the POEO Act (section 153C) and be in the form required by the POEO (G) Regulation (clause 98B).
- Licensees must keep the Plan at the premises to which the Environment Protection Licence relates or, in the case of trackable waste transporters and mobile plant, where the relevant activity takes place (section 153D, POEO Act).
- Licensees must test the Plan in accordance with the POEO (G) Regulation (clause 98E).
- If a pollution incident occurs in the course of an activity so that material harm to the environment is caused or threatened, licensees must immediately implement the Plan (section 153F, POEO Act).

1.4 KEY TERMS AND MEANINGS

An understanding and appreciation of the following key terms is considered integral to the successful implementation of this Plan

1.4.1 Pollution Incident

The definition of a pollution incident is:

'pollution incident means an incident or set of circumstances during or as a consequence of which there is or is likely to be a leak, spill or other escape or deposit of a substance, as a result of which pollution has occurred, is occurring or is likely to occur. It includes an incident or set of circumstances in which a substance has been placed or disposed of on premises, but it does not include an incident or set of circumstances involving only the emission of any noise'.

1.4.2 Material Harm to the Environment

A pollution incident is required to be notified if there is a risk of 'material harm to the environment', which is defined in section 147 of the POEO Act as:

'(a) harm to the environment is material if:

(i) it involves actual or potential harm to the health or safety of human beings or to ecosystems that is not trivial, or

(ii) it results in actual or potential loss or property damage of an amount, or amounts in aggregate, exceeding \$10,000 (or such other amount as is prescribed by the regulations), and

(b) loss includes the reasonable costs and expenses that would be incurred in taking all reasonable and practicable measures to prevent, mitigate or make good harm to the environment'.

1.4.3 Immediately

Industry is now required to report pollution incidents *immediately* to the EPA, NSW Health, Fire and Rescue NSW, WorkCover NSW and the local council. 'Immediately' has its ordinary dictionary meaning of promptly and without delay. These strengthened provisions will ensure that pollution incidents are reported directly to the relevant response agencies so they will have direct access to the information they need to manage and deal with the incident in a faster time period.

1.5 FACILITY COVERED BY THIS PLAN

The operation of the Minimbah Waste Management Centre is covered by this plan.

1.6 PLAN DISTRIBUTION

A copy of this Plan is to be kept at the premises to which the relevant Environmental Protection Licence (EPL) relates, or where the relevant activity takes place, so that it is readily available to those responsible for its implementation and to an authorised officer on request.

In addition to Midcoast Council staff, a copy of this Plan will also be given to the principal site contractor and made available to any sub contractors who have a permanent presence at the landfill and quarry.

The master copy of this plan is to be maintained by the Coordinator Waste Operations who will be responsible for revisions of the Plan and for the distribution of revised copies to the abovementioned.

1.7 PLAN REVIEW

The Pollution Incident Response Management Plan is to be reviewed annually by the Coordinator Waste Operations in conjunction with relevant Council staff, the principal contractor and relevant sub contractors.

When revisions are made to the Plan, the revised document will be re-distributed and redundant copies collected and discarded. The date of issue and revision number is to be recorded on the title page of the document for future reference.

As part of the revision process, a Notification of Change Form, refer to Appendix No 1, will be provided which must be signed by each responsible party indicating that the party has received a copy of the changes and that the copy of the plan assigned to that party has been updated. This form is to then be retained on file by the Waste Strategy Coordinator.

1.8 PLAN TRAINING

To ensure that this plan is properly followed in the event of a pollution incident, training programs shall be provided to relevant Council employees and relevant personnel engaged by the site contractor.

The objectives of the training program shall be as follows:

- a) To ensure that Council employees and personnel engaged by the site contractor are knowledgeable of their roles and responsibilities concerning this Plan.*
- b) To ensure that Council employees and personnel engaged by the site contractor are knowledgeable of the Plan's procedures to affect a safe and appropriate response to pollution incidents.*

Council employees and/or Contractor site personnel will receive training in the plan appropriate to the level of their expected involvement.

The following is the general training program which is to be implemented:

1.8.1 Training Frequency

Council employees and personnel engaged by the site contractor will receive training during initial employment orientation and refresher training at least annually. When employees change areas in which they work or responsibilities for the work they undertake, they will receive appropriate training in their responsibilities and actions as required by the Plan for their new work area/new responsibilities.

Additional training will also be provided to employees whenever the Plan is changed.

1.8.2 Training Level

All Council employees and personnel engaged by the site contractor will receive training in the general Plan procedures and specific procedures related to the Plan.

Training shall cover routine pre-emptive inspections, incident discovery and management, (standard operating procedures), notifications, incident response and best practice facility management.

1.8.3 Supervisor Training

Council's Coordinator Waste Operations and appropriate site manager will receive additional training, beyond that received by site personnel, dealing with actions that are necessary to provide for the safety of employees and facility users, the protection of facility assets and the management of pollution incidents.

1.8.4 Training Competencies

Details of the training competencies achieved by Council employees and contractor's staff relevant to this Plan are provided in Appendix 2 of this Plan.

1.9 PLAN DRILLS AND EXERCISES

To ensure that this Plan will meet current conditions and that all involved individuals will respond appropriately, the Plan will be tested on an annual basis. The testing will include at least the following;

- a) Reaction and accountability of facility personnel; and
- b) Adherence to plan procedures.

All drills and exercises of the Plan will be documented, indicating the results of the exercise and any problems that were encountered, along with recommendations for Plan modifications.

Council's Coordinator Waste Operations will complete a Pollution Incident Action Plan Exercise Evaluation Form, refer to Appendix No 3, and maintain copies for review.

1.10 FORM OF PLAN

As the purpose of this Plan is to mitigate the likelihood and to improve the management of pollution incidents and facilitate better coordination with the relevant response agencies, this Plan must be provided in written form, and be available at the subject premises and able to be provided to an authorised EPA officer on request. While this Plan can be prepared and stored in other forms, a printed copy must be available to an authorised EPA officer and to any person who is responsible for implementing the plan.

1.11 RELATIONSHIP WITH OTHER EMERGENCY AND INCIDENT RESPONSE PLANS

This Plan is meant as a stand alone document, the implementation of which is required to be undertaken to mitigate risk of a pollution incident but also to respond to any pollution incident where there is a potential of 'material harm to the environment'.

2. FACILITY DESCRIPTION

2.1 LOCATION

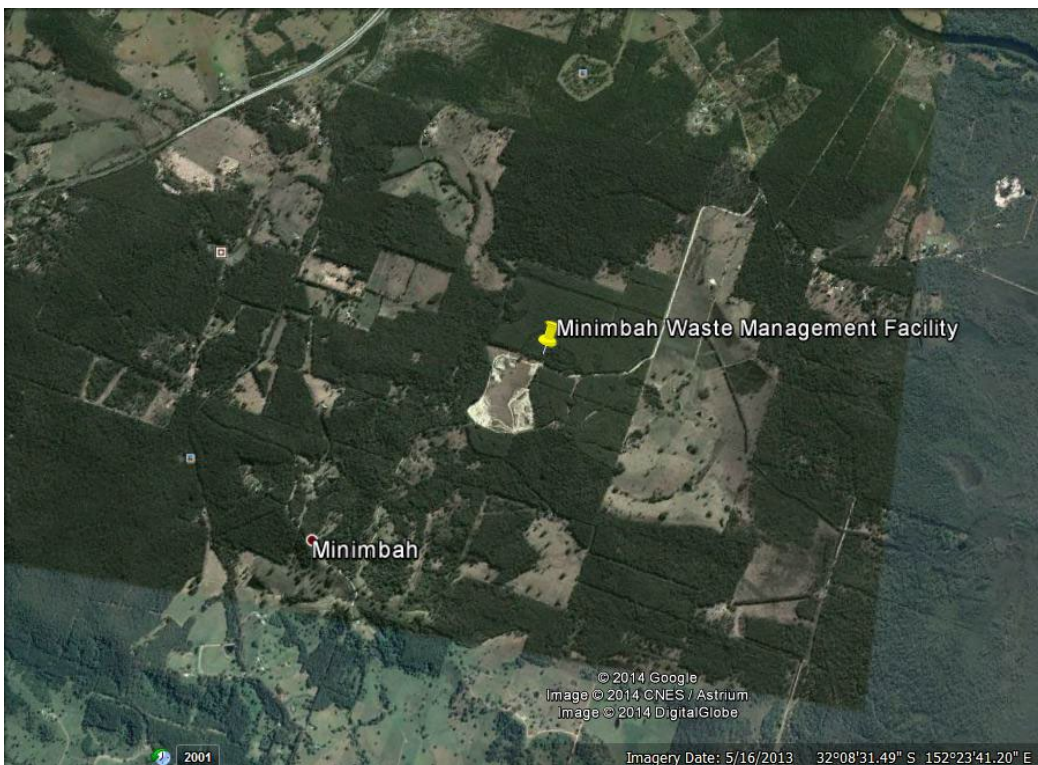
Name of the Facility – Minimbah Waste Management Centre

Address – Old Aerodrome Road Minimbah

Property Description – Lot 8 DP 261078

Location Map

Figure 1 – Location Map



Owner –Midcoast Council

Area – Stage one of the site occupies an area of approximately 15 hectares. This will represent the licensed area.

Geology and Soils – The rock mass encountered in test bores consists of siltstone, with greywacke being encountered at depth and on the higher ridge features, closer to the surface.

Sediments on the site are generally fine grained ranging from shales/mudstones (clay/silt composition) to sandstones/conglomerates (sand/gravel composition with finer binding material). Chert (fine grained quartz sediment), greywacke (hard sedimentary rock with feldspar and quartz in a fine grained matrix) and tuff (consolidated fine fragments from volcanic eruptions) are also present.

Soils derived from in-place weathering of these rocks (residual soils) are generally clayey and are of low permeability. Locally, volcanic intrusions of very hot molten rock have occasionally metamorphosed the original sediments to form harder meta-sediments.

Beneath a thin veneer (generally less than 0.3 metres) of silty topsoil, the site is underlain by clayey silt to silty clay residual soil. On the ridges the clayey residual soil is less plastic and quite shallow whereas within the valley features it is highly plastic and deeper. The residual clayey soils are very consistent and generally have a mottled red/brown/grey/cream colouring.

Laboratory tests carried out on representative samples on the soil confirm that the clayey soils are highly plastic.

Hydraulic features – The landfill site slopes to the North towards Bundacree Creek, which flows through the northern end of the property. The creek side elevation is ten metres above sea level. From the southern bank of the creek, the surface is approximately level for 500 metres, then over the next 500 metres, rises 40 metres to an east-west trending ridge. The highest point on the property is at the eastern end of the ridge with an altitude of approximately 70 metres.

Vegetation – Some 109 species of native trees, shrubs and grasses have been recorded on the property. No threatened plant species have been found on the property. Four species for which there are historic records in the area, either in earlier studies or in the National Parks and Wildlife Service's database, are considered unlikely to occur on the property due to absence of suitable habitat or the extent of disturbance which has taken place.

Ground Water - groundwater levels in three boreholes within the Stage 1 landfilling area confirm that the groundwater hydraulic gradient in the landfill area follows the surface topography with a suppressed gradient, sloping gradually downwards to the north. The combination of separation distance, very low hydraulic conductivity and extremely low hydraulic gradient effectively isolates Bundacree Creek from recharge from the area designated for landfilling.

Surface Water - The landfill area drains to Bundacree Creek, which passes through the northern end of the property and flows on to a wetland area draining to Wallis Lake. The section of Bundacree Creek upstream of the property has a catchment of approximately 16 square kilometres.

Over 500 metres of broad, gently sloping grassland separates the landfill area from Bundacree Creek. This area has recently been planted as a forest plantation. The landfill is in a flood free area at least ten metres above normal creek level, at the head of a normally dry gully containing a single farm dam. There is no continuous watercourse from the landfill area to Bundacree Creek.

2.2 FACILITY DESCRIPTION

Site Plan

Figure 2 – Site Plan

The Site Services and Infrastructure Plan described as figure 2 shows the overall site arrangement, activity areas, the locations of first response equipment in the event of a pollution incident together with the identification of the sources of potential pollutants.

The Site Services and Infrastructure Plan can be located in Appendix 28 of this document.

Site Activities - Minimbah Waste Management Centre incorporates a number of related activities and holds a relevant Environmental Protection Licence (EPL) 12885 for the landfill which includes extraction from the quarrying operations. Provision has been made within the licensed area for resource recovery, including scrap metal, green waste and concrete.

(i) The landfill is not operational, and has never received waste. However EPL 12885 allows for the operation of a landfill receiving putrescible and non-putrescible waste for a total 50,000 tonnes per annum.

Prior to landfilling, leachate collector drains will be installed and these will progressively connect to de-leaching wells located down gradient of the landfill. The collected leachate will be pumped overland from the de-leaching well to a dry well located within the landfill mass. The operation of the landfill will rely on good practices to minimise the production of leachate. Such practices include keeping the active tipping face to minimum size, regular covering of waste, diverting surface water away from the tipping face, maintaining gradients on the covered areas to shed water, compacting waste and applying cover regularly.

The landfill operations will be conducted under contract whereby the contractor is responsible for the placement, compaction and covering of all incoming wastes. The contractor also manages traffic, operates the weighbridge, constructs internal access roads, oversees the installation of leachate drains, controls litter and maintains the surface water management system.

(ii) Weighbridge and Gatehouse is the control point for all vehicles entering and exiting the facility and where gate fees are applied. The loads of all incoming vehicles are inspected to ensure only approved waste types are accepted.

(iii) Stockpile Areas – both scrap metal and used tyres are to be stockpiled in an area defined as “resource recovery” before removal off site for re-processing. Service contracts ensure these materials will be removed routinely to ensure stockpiles are maintained at minimum sizes. A buffer zone is to be kept around the tyre stockpile for both site maintenance and as separation zone in the event of a fire.

Waste concrete and masonry are to be stockpiled on the landfill before being taken to the adjoining quarry for crushing and subsequent re-use on the landfill for hardstand and internal road construction.

(iv) **Quarry** – quarrying operations are part of the landfill EPL 12885 and are controlled within the site by Council using contractors for blasting and crushing. The quarried/crushed rock is used predominantly for Council purposes, where approximately 30,000 cubic metres per year of hard rock are removed for external uses or internally for landfill maintenance.

Stormwater is collected from the quarry floor and gravitates to a retention dam before release to the environment. Dust suppression forms part of the hard rock crushing activity.

3. POLLUTION INCIDENT PREVENTION, RECOGNITION AND PREPAREDNESS

3.1 PREVENTION AS AN INCIDENT RESPONSE

Midcoast Council is committed to minimizing the circumstances under which pollution incidents may occur. Through the use of regularly scheduled meetings, employee and contractor’s orientations, training programs, routine inspections of activity areas and the application of standard operational procedures, Council employees and contractor’s personnel will be able to identify and respond to conditions that might lead to a pollution incident.

Council employees and contractor’s staff are to be instructed, as part of their training and orientation, in the steps to report and respond to facility conditions or issues that might give rise to pollution incidents where these conditions/issues are found to exist.

Pre-emptive actions to be taken to minimise or prevent any risk of harm to human health or the environment arising from the activities undertaken at the facility in the context of the potential pollution hazards identified in Section 2.2 above are provided as follows;

Table 1 – Summary of Pre-emptive Actions

POTENTIAL HAZARD	PRE-EMPTIVE ACTION
<ul style="list-style-type: none"> • De-leaching well overflow caused by pump failure or excessive inflow from contaminated storm water • Ground water contamination • Failed leachate pump line • Leachate spring • Fire at tip face 	Undertaking routine inspections in accordance with the EMP checklist (see Appendix 27) and responding in accordance with Standard Operating Procedures (SOPs) as contained in Appendices 6 to 24

<ul style="list-style-type: none"> • Fire in incoming load • Fire at tyre stockpile • Fire in shredded green waste • Chemical spill • Oil/fuel spills. • Failure of hazardous material containment tanks/bund • Windblown litter • Odour • Dust • Sediment discharge off site • Explosion (methane accumulations in pits, buildings) 	
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3.2 INVENTORY OF POTENTIAL POLLUTANTS

Potential pollutants kept on the premises or used in carrying out activities at the premises, including the maximum quantity of any potential pollutant that is likely to be stored or held at the premises together storage locations are summarized as follows;

Table 2 – Summary of Potential Pollutants

POLLUTANT TYPE/ SUBSTANCE	SOLID, LIQUID, GAS or POWDER	QUANTITY	LOCATION (see site plan)	TYPE OF CONTAINMENT	MSDS
Leachate	Liquid	2,00 litres (de-leaching well)	De-leaching well	Concrete pit	NA
Used tyres	Solid	100 units	Resource Recovery Area	Hardstand	NA
Shredded green waste	Solid	1,000 cubic metres	Resource Recovery Area	Hardstand	NA
Diesel	Liquid	Up to 2000 litres	Machinery shed	Bund	NA
Petrol	Liquid	Up to 20 litres	Machinery Shed	Storage room	NA
Herbicides	Liquid	Up to 20 litres	Machinery shed	Bund and locked storage cabinet	Recorded as product purchased
Pesticides	Liquid	Up to 20 litres	Machinery shed	Bund and locked storage cabinet	Recorded as product purchased
Sediment	Water		Sedimentation	Earth formed	NA

	borne		dam	dam	
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A map showing the location of pollutant locations is provided under Part 2.2 of this Plan.

3.3 NATURE AND LIKELIHOOD OF POLLUTION INCIDENTS

Notwithstanding Council's commitment to preventing conditions/issues which might give rise to a pollution incident, it is not possible to negate all situations which might give rise to an incident. Possible pollution incidents associated with the operation of the Facility are:

- Fire within facility activity areas
- Spill of chemical or other hazardous materials
- Leachate discharge off site
- Litter, odour and dust
- Sediment discharge off site

Having regard to the nature of the operation of the Great Lakes Landfill Minimbah Facility, the level of risk posed by the possible pollution incidents to the environment and the need and priority for management action is qualified for the facility using the following methodology.

Inherent risk will be assessed by combining the likelihood and consequence of the identified potential risk. In determining the assessment of the likelihood and consequence, the following rating processes was utilised.

3.3.1 Likelihood

Determination of the probability or likelihood of environmental harm, damage or loss occurring as a result of a pollution incident using the ranking risk factors by probability methodology contained in the following table.

Table 3 - Likelihood of a risk occurring.

Rating	Measure	Description
1	Rare	May occur only in exceptional circumstances.
2	Unlikely	Could occur at some time.
3	Possible	Might occur at some time.
4	Likely	Will probably occur in most circumstances.
5	Almost certain	Is expected to occur in most circumstances.

3.3.2 Consequence

Determination of the consequence of the potential environmental harm, damage or loss using the ranking risk factors by consequence methodology contained in the following table.

Table 4 – Consequence of a risk occurring

Rating	Measure	Description
1	Insignificant	Environmental impact is undetectable
2	Minor	Environmental impact is virtually undetectable.
3	Moderate	Minor (usually reversible) some potential for low level environmental impacts which can be easily managed
4	Major	Major environmental impact which is reversible
5	Catastrophic	Major environmental impact which maybe irreversible

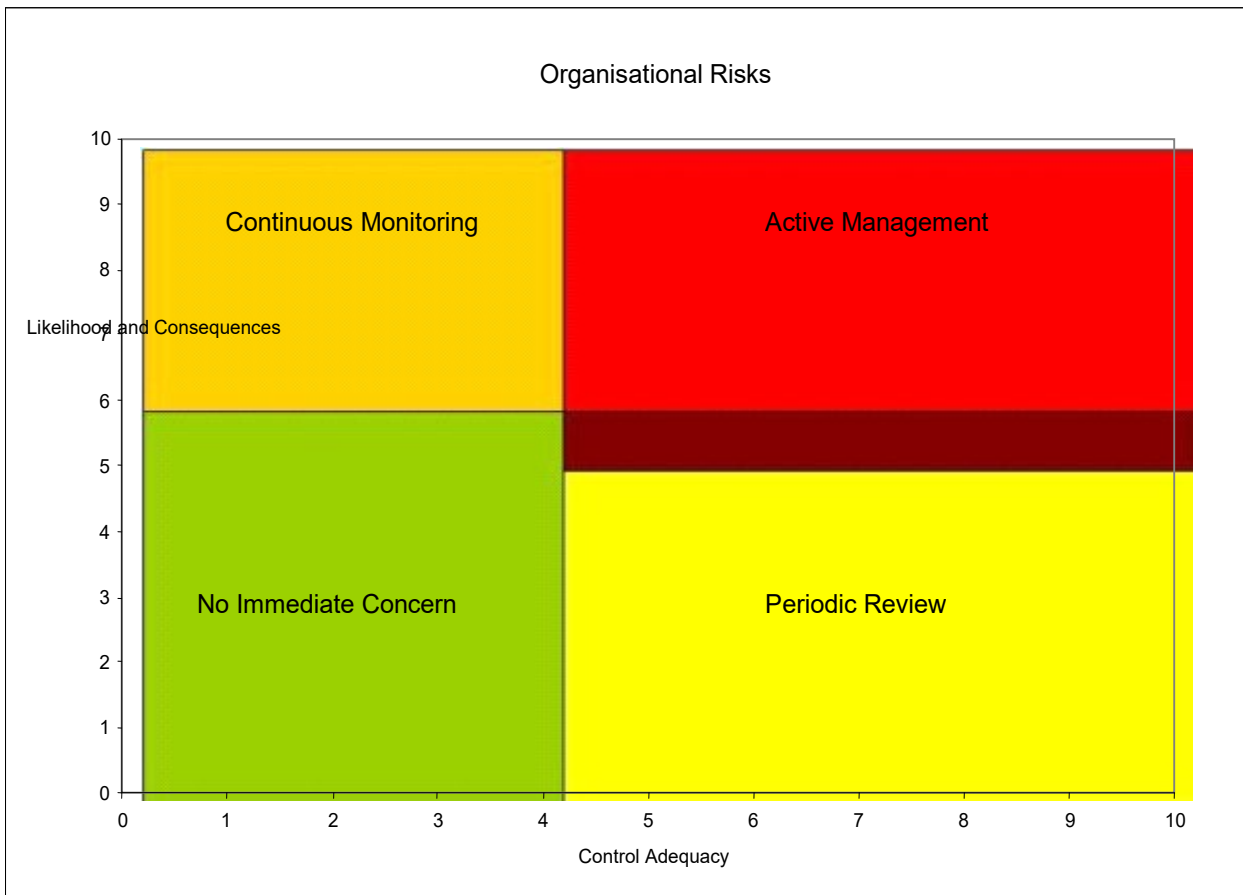
3.3.3 Risk Evaluation -individual evaluation of the management priority for each potential pollution incident using the risk priority matrix presented in the following figure.

Definitions – Report Key

Rating	Definition
Low 1 – 2	Acceptable Risk – Review consequence and likelihood and manage through routine procedures
Moderate 3 – 5	Ensure management system controls risk and managerial responsibility is defined.
Significant 6 – 8	Ensure system and process controls are such that the risk is as low as is reasonably practicable and that due diligence systems are established so that appropriate management processes can be demonstrated to be in operation.
High 9 – 10	Risk must be assessed and reduced or eliminated. If the risk cannot be reduced from “High”, then management must provide continuing assurance that due diligence systems are in place so that appropriate management processes can be demonstrated as being in operation.

The residual risk has been shown by measuring the inherent risk against the assessed effectiveness of the controls. High risks will be eliminated by change of scope or schedule. For the purposes of this Plan high risks and significant risks will be eliminated or managed. Moderate risks will be monitored. Low risks will be accepted.

Figure 3 – Risk Priority Matrix



The outcomes of the risk assessment together with the relevant incident control/management action are summarized in Table 5 below -

Table 5 – Risk Management Plan

Pollution Hazard	Risk Factors	Outcome	Likelihood/Consequence (Rating)	Pre-emptive Actions	Reference	Likelihood/Consequence post control (Rating)	Incidence Response Actions	Reference
(1) ENVIRONMENTAL (a) Leachate Discharge Off Site	De-Leaching well overflow	Leachate contamination of adjacent land and/or waterways	Possible/major (Significant)	Routine inspection included in EMP checklist Surface water monitoring of down gradient points	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Major (Moderate)	SWMS Appendices 6 and 7	SWMS within the PIRMP
	Leachate pump breakdown or pipeline failure	Leachate contamination of adjacent land and/or waterways	Possible/major (Significant)	Routine inspection included in EMP checklist. Scheduled maintenance servicing of pump and pump connections Standby pump and service parts available Surface water monitoring	EMP Inspection checklist as provided in Appendix 27 of the PIRMP Contractor's EMP	Rare/Major (Moderate)	SWMS Appendix 7	SWMS within the PIRMP Report in EPL Annual Return

	Leachate contamination of the surface water management system.	Leachate contamination of adjacent land and/or waterways	Possible/major (Significant)	Routine inspection included in EMP checklist to ensure suitable management procedures, including bund separation at active tipping area	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Major (Moderate)	SWMS Appendices 8 and 9	SWMS within the PIRMP
	De-leaching well integrity failure	Leachate contamination of adjacent land and/or waterways	Possible/major (Significant)	Routine inspection included in EMP checklist	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Major (Low)	SWMS Appendix 10	SWMS within the PIRMP
	Leachate seepage from landfill operations into water table	Leachate migration and possible contamination of water table	Possible/major (Significant)	Monitoring of ground bores to detect leachate migration	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Major (Low)	SWMS Appendix 11	SWMS within the PIRMP Report in EPL Annual Return
	Uncontrolled or undetected leachate springs	Leachate contamination of the surface water management system, adjacent land and/or waterways	Possible/major (Significant)	Routine inspection included in EMP checklist	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Major (Moderate)	SWMS Appendix 7	SWMS within the PIRMP
(b) Combustion	Stockpile of used tyres ignites	Combustion creates smoke and oil residues	Possible/moderate (Moderate)	Maintain buffer zones Limit quantity of tyres held on site Routine inspection included in EMP checklist	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 12	SWMS within the PIRMP

	Green waste stockpile ignites	Combustion creates smoke and fire hazard	Possible/moderate (Moderate)	Routine inspection included in EMP checklist to ensure stockpile size management and maintenance of buffer zones	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Moderate)	SWMS Appendix 13	SWMS within the PIRMP
	Fire at landfill active tipping area	Combustion creates smoke and fire hazard. Deep seated fire difficult to extinguish.	Possible/moderate (Moderate)	Inspection of all incoming loads as required in EMP checklist. Site secured at close of day	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 15	SWMS within the PIRMP
	Fire in vehicle loads of incoming wastes	Combustion creates smoke and fire hazard. Property damage.	Possible/moderate (Moderate)	Inspection of all incoming loads as required in EMP checklist.	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 16	SWMS within the PIRMP
(c) Chemical Spills	Chemical spill from ruptured or leaking storage containers	Soil contamination Creation of volatile fumes Explosion/fire	Possible/major (Significant)	Retain minimum quantities on site Separation areas between stored chemicals Creation of bunded storage areas	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 17	SWMS within the PIRMP

	Incompatible chemical cross contamination in storage areas	Explosion/fire	Possible/major (Significant)	Retain minimum quantities on site Use approved chemical safes for storage Separation areas between stored chemicals Creation of bunded storage areas	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 18	SWMS within the PIRMP
	Leakage from incoming loads	Soil contamination Contamination of adjacent land and/or waterways	Possible/major (Significant)	Inspection of all incoming loads as required in EMP checklist.	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 19	SWMS within the PIRMP
(d) Oil/Fuel Spillage	Rupture of fuel containers or storage tanks	Soil contamination Creation of volatile fumes Explosion/fire	Possible/major (Significant)	Retain minimum quantities on site Creation of bunded storage areas	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Moderate (Low)	SWMS Appendix 20	SWMS within the PIRMP
	Rupture of mobile plant hydraulic lines	Soil contamination Contamination of adjacent land and/or waterways	Possible/major (Significant)	Staff training in waste placement and compaction techniques. Routine plant servicing.	Staff training records	Rare/Moderate (Moderate)	SWMS Appendix 20	SWMS within the PIRMP

(e) Dust	Dust migrating off site	Complaints to EPA	Possible/moderate (Moderate)	Install dust monitor Wet down unsealed trafficable areas Use shredded green waste on exposed areas of cover material	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Minor (Low)	SWMS Appendix 22	SWMS within the PIRMP
(f) Odour	Offensive odour	Complaints to EPA	Possible/moderate (Moderate)	Provide daily cover/landfill lids to active tipping area	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Minor (Low)	SWMS Appendix 23	SWMS within the PIRMP
(g) Landfill Gas	Contributor to Global warming	Increase in CO2e emissions	Likely/minor (low)	Install landfill gas capture and flaring system	GTCC Waste Management Strategy	Rare/Minor (Low)	Landfill Gas Management Plan	Waste Management Strategy
(h) Litter	Litter migrating off site	Complaints to EPA	Possible/moderate (Moderate)	Provide daily or intermediate cover to waste Erect litter fences Litter collection activities	EMP Inspection checklist as provided in Appendix 27 of the PIRMP	Rare/Minor (Low)	SWMS Appendix 24	SWMS within the PIRMP
(2) COMPLIANCE								
(a) Incident Reporting	Non-compliance with statutory reporting	Cautionary Notice PIN	Unlikely/Moderate	Prepare reports as required	Reporting protocols included in EMP checklist. Appendix 27.	Rare/Moderate (Low)	SWMS Appendix 26	SWMS within the PIRMP

<p>(3) WORKPLACE HEALTH and SAFETY</p>	<p>Personal injury to staff, contractors, general public attending the facility</p>	<p>Trauma Lost time Rehabilitation Compensation</p>	<p>Likely/major</p>	<p>Regular tool box meetings with staff and contractors</p> <p>Safe Work Method Statements prepared and implemented</p> <p>Risk assessments undertaken</p> <p>Safety plans developed for major works</p> <p>Staff training</p> <p>Job and site specific orientation for new staff, visitors and contractors</p> <p>Independent audit of all systems of work</p> <p>Emergency and evacuation plans prepared and tested</p>	<p>Established tool box meeting protocols</p> <p>Contractor's Health, Safety and Environment Plan</p> <p>Contractor's Health, Safety and Environment Plan</p> <p>SWMS Appendix 2</p> <p>Contractor's Health, Safety and Environment Plan</p> <p>SWMS Appendix 25</p>	<p>Unlikely/moderate (Moderate)</p>		<p>SWMS within the PIRMP</p>
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3.4 INCIDENT PREPAREDNESS

3.3.1 Response Equipment and Features

The Minimbah Waste Management Centre has active and passive pollution control/safety devices and equipment that can be used during a pollution incident.

Relevant details of pollution incident equipment and features are provided as follows;

Table 6 – Response Equipment Inventory

EQUIPMENT	LOCATION	QUANTITY	MAINTAINANCE REQUIREMENTS/STANDARDS
Asbestos kit	Machinery Shed	1	Weekly inspection
Chemical spill kit	Machinery Shed	1	Weekly inspection
Fire extinguisher	Gatehouse/Weighbridge	1	Six monthly inspection and tagging
	Machinery Shed	2	Six monthly inspection and tagging
Water tanker	Machinery Shed	1	Annual inspection
First Aid Kit	Gatehouse/Weighbridge	1	Monthly inspection and replenishment.

Active systems and equipment such as portable fire extinguishers and spill kits should only be used by persons who are suitably trained and it is safe to do so.

The location of all incident response equipment will be clearly signposted so that Council employees and contractor's staff faced with an incident and under pressure will confidently locate and select the appropriate type of equipment.

The maintenance of the systems and equipment is to be undertaken in accordance with the standards nominated in the Table above.

3.4.1 Communication System

In a pollution incident the telephone can be used as a means of notifying those individuals/organisations responsible for activating this Plan and managing the incident response. Mobile phones will be the accepted means of communications

Further, Council has an obligation to inform members of the local community should a pollution incident occur that could affect their property or safety. Communication mechanisms include phoning occupiers of neighbouring properties, text messaging, issuing media releases and providing information of Council's web site.

A summary of community notification and communication is provided in table 9 of Section 4.3.2

3.3.2 Security

Access to the Minimbah Waste Management Centre by unauthorised persons and unauthorised activities occurring on the site will be controlled at the gatehouse by contractor personnel who are required to provide access to authorized persons only.

3.3.3 First Aid Equipment

A suitable fully stocked and easily accessible first aid kit is located at the gatehouse/weighbridge and its location clearly labelled.

3.3.4 Signs and Labels

Signs and labels provide key information to facility personnel and users. The location of signs is important.

Suitable signage indicating the location of incident response equipment and features and the first aid kit will be provided and maintained within the facility.

A list of emergency phone numbers will be clearly displayed at a location within the facility that can be seen by Council employees, contractor's staff and facility users.

3.3.5 Funding Arrangements and Support

As the costs associated with the clean up of an incident can be significant – in past cases these have been in excess of \$1 million – consideration must also be given to funding arrangements, such as taking out appropriate insurance or having contingency funds available. The cost of any clean up that is undertaken by emergency response agencies and the EPA will generally be recovered from the company or individual responsible for the pollution incident.

Having regard to the above the following pollution incident funding arrangements are in place;

- Reserves within Council's Waste Fund
- Public liability insurance policies

4. POLLUTION INCIDENT CONTROL AND RESPONSE

4.1 KEY FACILITY INCIDENT MANAGEMENT CONTACT DETAILS

The following is a list of incident response individuals who are responsible for activating this Plan together with their notification and communication responsibilities.

Table 7 - Plan Activation Contact Details

NAME	POSITION	CONTACT DETAILS (24 Hours)	NOTIFICATION RESPONSIBILITIES	COMMUNICATION RESPONSIBILITIES
David Rees	Waste Manager	0436 830 159	Emergency Services EPA	As delegated by the Director Neighbouring property owners Media releases
Duncan Russ	Coordinator Waste Operations	0402 089 222	Waste Manager Emergency Services EPA	As delegated by the Manager
Emillie Wilde	Senior Waste Operations Officer	0421 791 174	Waste Manager Emergency Services EPA	As delegated by Coordinator/Manager

The above details are to be verified annually and updated whenever a change in personnel or responsibility has occurred.

4.2 KEY INCIDENT CONTACT DETAILS

The following is a list of incident response individuals and organizations that may be needed during a pollution incident.

This list is to be verified annually and updated whenever an organization advises that a change has occurred.

Table 8 - Incident Contact Details

ORGANISATION	CONTACT NAME	CONTACT DETAILS
Fire and Rescue NSW	Duty Officer	000
	Forster Fire Station	02 6554 6096
Police Force NSW	Duty Officer	6555 1299 (local) 000
	Duty Officer	02 7955 7777 000
John Hunter Hospital	Reception	4921 3000
Manning Base Local Hospital	Reception	65929111 000
Department of Environment and Conservation (EPA)	EPA Environment Line	131 555
	Newcastle Regional Office	4908 6800
Department of Environment and Conservation (NP&WS)	Parks and Wildlife Mid North Coast Regional Office	6586 8300
	Nelsons Bay office	(02) 4984 8200
Workcover Authority	Duty Officer	131 050
Department of Primary Industries (NSW Fisheries)	Reception	1300 550 474
Poisons Information	Duty Officer	131 126 000
NSW Ministry of Health	Reception	9391 9000

Department of Families and Community Services	Reception	92480900
State Emergency Service	Duty Officer	132500 000
Roads and Traffic Authority	Reception	132213
Bureau of Meteorology	Land weather and flood warnings	1300 659 218

4.3 INCIDENT NOTIFICATION AND COMMUNICATION

4.3.1 Incident Notification

In order to provide for the safety of employees and facility users and to ensure appropriate pollution incident response, it is essential that early warning and notification of pollution incidents are made so that incident response procedures can be implemented and incident response organizations notified of the situation.

The prompt notification of an incident can often greatly assist in ensuring that the risk of injury, death, damage or environmental harm is minimized.

In this regard the following incident notification procedures are to be implemented.

4.3.2 Small Area/Minor Incidents

Incidents such as small chemical spills or individual medical emergencies will generally not require the notification of incident response agencies.

However, it will be the general practice that **all** incidents will be notified immediately to Council's Coordinator Waste Operations so that an assessment of the level of response required can be made.

The mobile telephone will be the preferred means of reporting such incidents.

In addition to the immediate notification of any minor incident or event an incident report notification form, refer to Appendix 4, is to be completed and forwarded to the Waste Manager

4.3.3 Major Incident

A major incident is where material harm to the environment is caused or threatened.

Where a major incident occurs, Council's Coordinator Waste Operations is to **immediately** implement the pollution notification protocol included as Appendix 5.

In addition to the immediate notification of any major pollution incident, an incident report notification form, refer to Appendix 4, is to be completed and forwarded to the Waste Manager. Importantly Appendix 5 requires the immediate notification of;

- the appropriate regulatory authority (ARA) for the activity under the POEO Act (usually the EPA or local authority) – the local authority is a local council of an area under the Local Government Act 1993), the Lord Howe Island Board for Lord Howe Island, or the Western Lands Commissioner for the Western Division (except any part of the Western Division within the area of a local council)
- the EPA, if it is not the ARA – phone Environment Line on 131 555
- the Ministry of Health via the local Public Health Unit see www.health.nsw.gov.au/publichealth/infectious/phus.asp
- the WorkCover Authority – phone 13 10 50
- the local authority if this is not the ARA
- Fire and Rescue NSW – phone 000.(Forster Fire Station 0265546096)

The above organisations must be notified immediately of a major pollution incident and in the order presented above.

4.3.4 Community Notification and Communication

Communicating with neighbours and the local community is an important element in managing the response to any pollution incident.

In this regard the following notification and communication action plan will be applicable to a major pollution incident at the Minimbah Waste Management Centre. The following action plan has been based upon the pollution incident risk assessment included in Section 3.3 of this Plan.

4.3.5 Task Allocation

Considering the allocation of tasks in preparing for a pollution event is advantageous and the following schedule has established the likely the tasks and apportioned responsibility.

Task Allocation Schedule

Task (during pollution incident)	Responsibility
Notify EPA, Ministry of Health, WorkCover, Fire and Rescue NSW	Manager Waste Services
Manage response, actions and delegation of tasks for the duration of the incident, including delegation of authority when the Coordinator Waste Operations is absent from the site.	Manager Waste Services
Establish hierarchy of authority and control. Confirm hierarchy within Council staff and with the site contractor	Manager Waste Services
Engage additional suitably trained/qualified staff, as necessary, to ensure resources are commensurate with the magnitude of the incident	Manager Waste Services
Ensure all records of events are being undertaken, including diary entries, e-mails and meeting minutes	Manager Waste Services
Collect, compile and collate all records of events	Manager Waste Services
Provide update reports to EPA, Ministry of Health, WorkCover, Fire and Rescue NSW.	Manager Waste Services
Provide update reports to Council's relevant Executive Officers and elected members	Manager Waste Services
Provide update reports to contractors Executive	Manager Waste Services
Deliver communications with occupants/owners of adjoining properties as identified in Appendix 29	Waste Manager/ Coordinator Waste Operations
Re-affirm Council's and contractor's protocols for interaction with representatives of the media, emergency services personnel and members of the public. Convey this information to all relevant staff	Manager Waste Services
Prepare and receive approval for media releases and uploading of information on the web site.	Manager Waste Services
Control site access and maintain site security	Coordinator Waste Operations/Senior Waste Operations Officer
Provide staff, plant and equipment to assist with containment, clean up and remediation works	Coordinator Waste Operations/Senior Waste Operations Officer
Engage Council's Trade and Technical support staff where necessary	Coordinator Waste Operations/Senior Waste Operations Officer
Undertake surface water and leachate sampling as directed/required	Coordinator Waste Operations/Senior Waste Operations Officer
Oversee site evacuation if required	Coordinator Waste Operations/Senior Waste Operations Officer
Source information from the Bureau of Meteorology (BoM)(or other relevant government agencies) that may assist with decision making	Coordinator Waste Operations/Senior Waste Operations Officer

Table 9 - Community Notification and Communications Plan

NATURE OF INCIDENT	IMPACT ON COMMUNITY	NOTIFICATION REQUIREMENTS	RESPONSIBILITY	NOTIFICATION MECHANISM/TOOLS	KEY MESSAGE
Leachate discharge off site	Local impact, ranging from minor to significant	<p>EPA and Government Agencies</p> <p>Occupiers of neighbouring properties (see Appendix 29 for communications recipients schedule)</p> <p>Local community</p>	Coordinator Waste Operations/Senior Waste Operations Officer	<p>Phone call to EPA Environment Line, then Ministry of Health, then WorkCover, then Fire and Rescue NSW Followed by a written report.(EPL condition) Phone call to occupiers of neighbouring properties (see Appendix 29 for communications recipients schedule)</p> <p>Information displayed on Council's web site</p>	<p>Assessment of severity Type and quantity of material involved Explanation of what happened Date and time of incident Response actions taken Receiving additional information</p>
Fire	Local impact, likely to be minor, depending on the severity of the fire	<p>EPA and Government Agencies</p> <p>Occupiers of neighbouring properties (see Appendix 29 for communications recipients schedule)</p> <p>Local community</p>	Coordinator Waste Operations/Senior Waste Operations Officer	<p>Phone call to EPA Environment Line, then Ministry of Health, then WorkCover, then Fire and Rescue NSW Followed by a written report.(EPL)</p> <p>Phone call to occupiers of neighbouring properties Media release</p>	<p>Date and time of incident Response actions taken Type of fire Agency responding</p>
Chemical spill	Local impact, likely to be minor	EPA, Government Agencies, depending on severity	Coordinator Waste Operations/Senior Waste Operations Officer	Phone call to EPA Environment Line, then Ministry of Health, then WorkCover, then Fire and Rescue NSW	<p>Date and time of incident Response actions taken Type of chemicals Agency responding</p>

				Followed by a written report.(EPL condition)	
Oil/fuel spill	Local impact, likely to be minor	EPA, depending on severity	Coordinator Waste Operations/Senior Waste Operations Officer	Phone call to EPA Environment Line followed by a written report. Other Government Agencies as required	Date and time of incident Response actions taken Type of oil/fuel Agency responding
Explosion	Local impact, likely to be minor	EPA and nearby property occupants depending on severity	Coordinator Waste Operations/Senior Waste Operations Officer	Phone call to EPA and Other Government Agencies as required Property owners followed by a report to the EPA	Assessment of severity Agency responding Date and time of incident Damage report

4.4 FACILITY EVACUATION

4.4.1 General Requirements

Most minor pollution incidents will not require the evacuation of all or part of the facility however it is acknowledged that any major incident may require the facility to be evacuated.

Evacuation of Council employees, contractor's staff and facility users in the event of a major incident is of the utmost importance.

In order to achieve a safe and timely evacuation, it is critical that an early warning of the pollution situation be communicated and action implemented to remove Council employees contractor's staff and facility users from the hazard area.

In this regard the standard operating procedures applicable to facility evacuation, refer to Appendix No 25, must be implemented once a decision is made to evacuate the facility.

The decision to evacuate the building is to be taken by the Manager/site supervisor of the site contractor or Councils Waste Management Coordinator, and supported by facility personnel.

4.4.2 Stages of Evacuation

There are 2 stages of evacuation that are applicable to the facility being;

- Stage one: Immediate Area – The evacuation of persons in immediate danger.
- Stage two: Total Facility – A complete evacuation of the Facility by all people.

It will be, due to facility operational practicalities, the responsibility of the contractor Manager/site supervisor, to determine the need for and extent of facility evacuation in the event of a major pollution incident.

Whilst the need for evacuation will be dependant upon the nature and scale of an incident it is of primary importance that personal and public health is not put at risk at anytime during a pollution incident. In this regard a conservative approach to facility evacuation is to be taken by the contractor Manager/site supervisor, and supported by facility management.

In the event of a Total Facility Evacuation, the Facility is not to be re-entered unless instructed to do so by the Coordinator Waste Operations or the Manager of Waste Services.

4.4.3 Priority of Evacuation

The Contractor Manager/site supervisor, is responsible for prioritising the order in which people are evacuated from the site of the incident. Generally the following priorities apply;

- Ambulatory
- Semi-ambulant (people requiring some physical assistance)
- Non-ambulant (people who need to be physically moved or carried)
- Aggressive, violent or resistive people.

The above priority for evacuation is for guidance only, the emergency may dictate otherwise.

Where a person refuses to comply with a direction given by Contractor Manager/site supervisor, the following action is to be initiated:

- *Ensure that the person has been clearly advised that they are required to evacuate the building because of an emergency situation that maybe life threatening.*
- *Notify the Officer-in-Charge of the attending emergency service.*

4.4.4 Mobility Impaired Persons

A register is to be maintained of site personnel who may have a permanent or temporary disability.

A staff member who works with a person with a disability shall be appointed as that person's carer during an emergency.

The procedures for assisting mobility-impaired persons should be discreetly discussed with the individual concerned.

All staff should be trained in methods of assisting mobility-impaired persons during an emergency.

4.4.5 Evacuation Assembly Areas

The facility has a designated primary and a secondary evacuation assembly point. In the event of an incident requiring the evacuation of the facility, all Council employees, contractor's staff and facility users are to immediately leave the facility by the designated route and report to the designated primary evacuation point. Should the primary evacuation point be in a hazardous area or is unsuitable due to the nature of the threat, employees and facility users will then be directed to proceed to the designated secondary evacuation point.

On arrival at the designated evacuation assembly point all employees will remain until the Manager/site supervisor has determined the status of all personnel and;

- accounted for all, or
- prepared a list of names of missing personnel and the location last seen

For the purposes of this plan the following evacuation assembly points are applicable;

Primary Assembly Point is adjacent to the gatehouse/weighbridge at the Minimbah Waste Management Centre where the “Emergency Assembly” sign is located.

Secondary Assembly Point is at the site quarry, for egress from the site via the adjacent side track. The Site Services and Infrastructure Plan in Appendix 28 shows the locations of the Primary and Secondary assembly points.

4.6.6 Post Evacuation Assembly Point

Once the facility has been evacuated to the Primary or Secondary Evacuation Assembly Point and the presence of personnel confirmed, arrangements will be made by the Manager/site supervisor for Council employees and contractor’s staff to be transported/moved to the Post Evacuation Assembly Point which for the purposes of this Plan is the intersection of Old Aerodrome Road and the Minimbah Waste Management Centre access road.

Incident debriefing and incident investigation will be undertaken at the Post Evacuation Assembly Point. Further management instructions will also be provided.

5. POLLUTION INCIDENT RESPONSE PROCEDURES

Appendices No 6 to 24 of this Pollution Incident Response Management Plan contain instructions, (Standard Operating Procedures – SWMS’s), for facility employees, contractor’s staff and facility users about actions to be taken for personal safety, and the procedures that are to be implemented to help guide management efforts during a pollution incident such as;

- Leachate discharge
- Fire
- Chemical spill
- Oil/fuel spill
- Explosion
- Facility Evacuation

6. POST POLLUTION INCIDENT ACTIVITIES

This section of the Pollution Incident Response Plan identifies those activities necessary to support Council staff and contractor’s staff during and following a pollution incident and those activities necessary to restore operations at the Minimbah Waste Management Centre.

6.1 RECOVERY OPERATIONS

The recovery of facility operations and services will depend on the extent of damage suffered by the facility.

Council's Waste Management Coordinator, in collaboration with the Contractor Manager, will need to prioritize activities that can be accomplished with available staff and resources.

Immediately following the emergency phase of an incident, the Coordinator Waste Operations will develop an operational recovery plan.

6.2 INCIDENT INVESTIGATION

A pollution incident must be investigated as soon as possible following its occurrence. The investigation is designed to determine why the incident occurred and what precautions can be taken to prevent a recurrence.

The Coordinator Waste Operations is responsible for ensuring that an incident investigation is conducted following all pollution incidents that occur at the facility.

6.2.1 Small Incidents

For small incidents, the Site Supervisor, will normally conduct the investigation.

6.2.2 Major Incidents

For major pollution incidents where material harm to the environment is caused or threatened statutory authorities and emergency response agencies will generally be involved in conducting the investigation.

The Coordinator Waste Operations and the Contractor Manager, will assist the authorities as needed.

6.3 DOCUMENTATION

Documentation of response activities is of critical importance following a pollution incident. All records and forms used during the incident to document activities must be retained for future reference.

Following a pollution incident or emergency situation, the Coordinator Waste Operations will have the responsibility for collecting all records and forms used during the incident. These will be used for several purposes, such as incident investigation, insurance claims and potential legal actions.

The Coordinator Waste Operations must prepare a report documenting activities that took place during a major pollution incident. A post incident checklist is provided as Appendix 30

The report of the Coordinator Waste Operations and all related documentation will be submitted to the **EPA** and to Council's Waste Services Manager for review and necessary follow-up actions.

6.4 INCIDENT DAMAGE ASSESSMENT

Following an incident, an assessment of damage that has occurred to the facility, the environment and equipment must be conducted.

The major goal of this assessment will be to determine the extent of damage to facilities and/or the environment resulting from the incident, and identify repairs or restoration that must be initiated to minimize further damage and restore the facility for operational use or to rehabilitate the environment.

Council's Coordinator Waste Operations will have the primary responsibility for conducting the damage assessment following an incident.

Assistance will be obtained as needed from facility employees and outside organizations, such as ecologists, engineers and clean up contractors.

6.5 INCIDENT DEBRIEFING

The purpose of incident debriefing is to inform employees about any hazards that may still remain on the facility property following the incident and to identify unsafe conditions that may still exist.

6.6 INCIDENT CRITIQUE

The critique of the incident is a review of what actions took place during the pollution incident, both good and bad. A critique is not designed to place blame, but rather to allow for the flow of ideas and recommendations to improve the effectiveness of the Pollution Incidence Response Management Plan and the facility procedures.

6.7 MEDIA MANAGEMENT

Under no circumstance is any member of Council's staff or the contractor to provide information or statement to the media unless authorized by the Director Liveable Communities.

APPENDIX 2

Training Safe Work Method Statement
<p>Purpose and Scope</p> <p>To ensure the safe and effective management at the Minimbah Waste Management Centre, it is essential that all relevant staff receive training appropriate to their position, duties and level of responsibility.</p> <p>The purpose of this procedure is to outline the minimum training requirements which are applicable to staff involved in the operations of the waste management facility and in the provision of waste management services.</p> <p>Primary Environmental Goal – Adequate staffing and training. EPA Environmental Guidelines: Solid Waste Landfills - Benchmark Technique 39.</p>
<p>Procedure/Standard</p> <p>Staffing and training requirements shall be adequate to enable proper management and service delivery</p> <p>Staff will undergo a variety of training to ensure an adequate level of skill and education is possessed to enable all tasks and activities to be carried out successfully. Training will be conducted in house, on the job or by external providers.</p> <p>The guidance for specific training programs that are integral to the operation of Council's facilities is described below.</p>
<p>Program A – Site Environment Induction</p> <p>Key points to be covered in this program may include:</p> <ul style="list-style-type: none">• environmental impacts of the landfill• pollution incident response• waste identification and rejection procedures• hours of operation and traffic management• environmental mitigation measures and controls• record keeping and reporting• waste placement, compaction and covering <p>This training would be in-house and would be provided by the Council's waste officers, the site contractor or his representative or by consultants. Training would be provided when new staff commence at the site. Ongoing "on the job" training will also be necessary.</p>
<p>1.1.1.1 Program B – Fire Fighting</p> <p>Key points to be covered in this program may include:</p> <ul style="list-style-type: none">• Types of fires (eg oil, electrical)• Determining responsibilities in the event of a fire (staff/fire brigade)• Procedures for extinguishing fires

<ul style="list-style-type: none"> • Types/location and maintenance of fire fighting equipment • Prevention of fires • Procedures for communication in the event of fire <p>This training would be undertaken at the site in the form of a toolbox talk and may include practical demonstrations. The training would be prepared and delivered by suitably qualified personnel, with input may also be provided by officers of the local Fire and Rescue NSW.</p>	
<p>1.1.1.2 Program C – Hazardous Substance and Dangerous Goods Management</p> <p>Key points to be covered in this program may include:</p> <ul style="list-style-type: none"> • Use and interpretation of material safety data sheets • Identification of hazardous materials • Handling of hazardous materials • Labelling of containers • Storage and transport of hazardous substances and dangerous goods • Spill management and basic first aid procedures • Compatibility of materials. <p>This training would be provided by a suitable service provider. Where required, additional input may be required from external Workcover Accredited WH&S Consultants.</p>	
<p>Training Records</p> <p>A record of all training undertaken will be maintained at the Council's and the company's offices and will be made available for inspection by authorised personnel.</p>	
<p>Benefit of Compliance to Procedure:</p> <ul style="list-style-type: none"> • Impacts on the natural environment are minimised • Operational issues identified • Demonstrated operational competency • Employees safety protected • Health and safety of public/facility user protected • Meeting environmental goal 	
<p>Consequence of Non-Compliance to Instruction:</p> <ul style="list-style-type: none"> • Violations and/or fines from Regulatory Agencies • Pollution of the environment • Unresolved operational issues • Injury/Death to employee • Injury/Death to public/facility users • Violations and/or fines from Regulatory Agencies 	
<p>Reviewed by:</p> <p>Date:</p>	<p>Approved by:</p> <p>Date:</p>

APPENDIX 3

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN EXERCISE EVALUATION FORM		
Facility: Minimbah Waste Management Centre		
Date:		
EMERGENCY SEQUENCE:	TIME:	
	Hours	Minutes
Incident uncovered		
Assessment of significance		
Initiation of incident response/notification of incident		
Evacuation alarm sounded (if necessary)		
Incident control/remediation action commenced		
Evacuation commenced (if necessary)		
Warden checks for personnel present		
Evacuation completed (if necessary)		
Pollution contained		
Clean up commenced		
Clean up completed		
All clear given(if necessary)		
Pollution Incident Report Form completed		
Exercise terminated		
COMMENTS		
1. Compliance with Standard Operating Procedures (SOP's)		
2. Competency of Employees assessment		
3. Time frames for response		
4. General Comments/Recommendations for action		
OBSERVER		
SIGNED		
Date		

APPENDIX 4

POLLUTION INCIDENT REPORT FORM (A)			
Date of Incident:		Time of Incident:	
Nature of incident Eg: Fire, Chemical spill.			
Location of incident Where did it occur?			
Type and quantity of material involved			
Outline action initiated in response to incident			
Was it necessary to initiate the major incident notification protocol?			
Was the Community Notification and Communications Plan activated?			
Was action in accordance with SOP? If not - why?			
Is there a need to review SOP in response?			
Date and time of details provided to Waste Management Coordinator			
Name of Reporting Person			
Management Authorization.....			
Dated.....			

POLLUTION INCIDENT REPORT FORM (B)

Leachate Discharge

Date of Incident:		Time of Incident:	
Nature of incident Eg: leachate discharge from de-leaching well			
Details of person reporting or witnessing the leachate discharge			
Location of incident Where did it occur?			
Date and time of commencement of the discharge			
Assessed volume of discharge or overflow			
Period of time the discharge or overflow occurred			
Weather conditions at the time of the discharge or overflow.			
Daily rainfall in mm on the day of the discharge.			
Rainfall for the week prior to the discharge			
Most recent monitoring results of the chemical composition of the leachate.	Attach analytical results		
Explanation as to why and how the discharge occurred			
Plan of Action to prevent a similar discharge			
Name of Reporting Person			
Management Authorization.....			
Dated.....			

APPENDIX 5

EPA NOTIFICATION PROTOCOL

Firstly, call 000 if the incident presents an immediate threat to human health or property. Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing incidents.

If the incident does not require an initial combat agency, or once the 000 call has been made, notify the relevant authorities in the following order. The 24-hour hotline for each authority is given when available:

- the appropriate regulatory authority (ARA) for the activity under the POEO Act (usually the EPA or local authority) – the local authority is a local council of an area under the Local Government Act 1993), the Lord Howe Island Board for Lord Howe Island, or the Western Lands Commissioner for the Western Division (except any part of the Western Division within the area of a local council)
- the EPA, if it is not the ARA – phone Environment Line on 131 555
- the Ministry of Health via the local Public Health Unit see www.health.nsw.gov.au/publichealth/infectious/phus.asp
- the WorkCover Authority – phone 13 10 50
- the local authority if this is not the ARA
- Fire and Rescue NSW – phone 000.

The appropriate contact for the relevant local authority and Public Health Unit will vary.

All necessary contact numbers should be found in advance and stored for immediate access should a pollution incident need to be notified. These contact numbers should also be identified in the Pollution Incident Response Management Plan prepared for the premises.

Complying with these notification requirements does not remove the need to comply with any other obligations for incident notification, for example, those that apply under other environment protection legislation or legislation administered by WorkCover.

APPENDIX 6

Leachate Discharge Emergency Response Safe Work Method Statement	
Purpose and Scope The purpose of this procedure is to define an incident response in the event of a leachate discharge being detected or reported from the Minimbah Waste Management Centre	
Procedure/Standard <ul style="list-style-type: none">Leachate or leachate contaminated surface water discharge to adjacent waterways Actions required in response to such events may vary and it will be the role of the company's (contractor) staff to determine and initiate appropriate actions. The following notes will form the basis of that decision making together with emergency exercises and desktop trials: <ul style="list-style-type: none">Confine the source of the discharge and/or sources of inflows to limit the spread of its effects without endangering personnel. Check leachate pumps are working.Construct sand bag barriers or earth berms to contain the flow and/or excavate temporary retention dams to withhold discharges.Secure the affected area(s) by using barricades and bunting if necessary.Advise the company's manager/supervisor of all actions taken or proposed.Source a tanker truck to pump out the retained leachateNotify neighbours who may be affected by the incident.A copy of the Pollution Incident Report Form is to be referred to the council It is considered essential that all operators using the site are aware and understand the specific emergency and incident response requirements.	
Benefit of Compliance to Procedure: <ul style="list-style-type: none">Limit environmental damageHealth and safety of public/facility user protected	
Consequence of Non-Compliance to Instruction: <ul style="list-style-type: none">Violations and/or fines from Regulatory Agencies	
Reviewed by: Date:	Approved by: Date

APPENDIX 7

Leachate System – Management and Maintenance Safe Work Method Statement

Purpose and Scope

To ensure that the leachate control system is operating effectively with its design objectives to prevent leachate escaping from the landfill into groundwater, surface water and subsoil.

Primary Environmental Goal – Preventing pollution of water by leachate. EPA Environmental Guidelines: Solid Waste Landfills - Benchmark technique 8

Procedure/Standard

1. It is the responsibility of the site staff to provide prescribed inspections of, report upon and record the following leachate control measures.
 - Inspect leachate pumps to ensure they are operating correctly.
 - Examine the level of leachate within collection wells/sumps. Where leachate levels appear excessive immediately contact the council's responsible officer.
 - Inspect pump discharge lines, dry wells and discharge points to ensure their effective operation. Where failures are detected, consideration must be given to deactivating the system so as to determine the scope of repair works.

Note: In considering the deactivation of the system it will be necessary to ensure that sufficient leachate storage capacity is available to cover the period of deactivation. This should involve an assessment of the likelihood of and extent of rain.
2. It is the responsibility of the site staff to provide weekly inspections of, report upon and record the following leachate control measures.
 - De-leaching well – inspect leachate flow to ensure levels are acceptable and that leachate heads are not developing. Consider methane accumulations in the well and examine venting measures. **Note: under no circumstances should de-leaching wells be accessed unless “confined spaces” procedures are instituted, and even then only under strict supervision.**
 - Inspect the intermediate capping for the emergence of leachate springs.
3. Where system operational defects are detected immediately contact the council representative to discuss and arrange rectification/maintenance works.
4. Details of system inspection findings are to be recorded on the EMP inspection checklist.

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment

Reviewed by:

Date:

Approved by:

Date

APPENDIX 8

Surface Water Quality Monitoring Safe Work Method Statement

Purpose and Scope

Prevention of contamination entering the surface water management system should be the first priority and the EMP checklist in Appendix 27 of the PIRMP provides for this. The purpose and scope of the surface water quality monitoring program should effectively monitor and report current surface water character and ensure early detection and reporting of possible pollution of surface water quality. Annual sampling is an EPL requirement when surface water is present. Sampling locations are identified in the EPL.

Procedure/Standard

Surface water is to be sampled on an annual basis. The locations of the surface water sampling locations are shown in the LEMP and noted in the EPL. In addition to the parameters to be analysed (see Table 1 below), the frequency of monitoring and analytes to be monitored are reviewed in agreement with the EPA.

1. Preparation

The following equipment is needed to undertake the surface water sampling.

Check	Apparatus/Equipment List
	Rubber gloves
	Sampling pole
	Chain of custody documentation
	Clipboard
	Log sheets
	Calibrated water quality field meters
	Pencils/pens
	Decontamination equipment and water

There are a number of methods that can be used to obtain surface water samples including:

- Immersion of a sample bottle by hand to just below the surface (typically 0.25-0.50m depth), provided that the sampler has on a disposable rubber glove and any surface film is avoided.
- To maintain adequate distance from the sampling point the sample bottle can be held by the sampling pole. (preferred method).

2. Surface Water Sample Containers

Bottle Type	Test Parameter
2 x 40 ml vials (fill to the top)	AOX (Absorbable Organic Compounds)
1 x 1 litre sulphuric acid preserved (Purple label)	Ammonia, Nitrate, Total Phenols
1 x 40 ml glass vial sulphuric acid preserved (Purple label)	Total Organic Carbon (TOC)
1 x 1 litre natural plastic (Green label)	Alkalinity, pH, Calcium, Magnesium, Sodium, Potassium, Chloride, Sulphate, Fluoride
1 x 250ml Nitric Acid preserved plastic bottle – unfiltered (Red label)	Total heavy metals

3. Sample Acquisition

- Take a bottle from the customised sampling kits (esbies) that the lab has provided. The bottles needed to test the analytes are colour coded as shown in Table 2.
- Clearly label the bottle with sample number, location, sampler's name, date and time.
- Care should be taken not to touch the lid or the inside of the bottle as the bottles have been preserved and cleaned.
- Take the right sample container and plunge the bottle upside down to about a depth of 0.25-0.50m below the surface. Quickly turn the bottle upright and allow the bottle to fill.
- Care should be taken so that no liquid spills onto your skin
- Fasten lid tightly and place in cooler with frozen ice bricks (must be kept at 4°C)
- Field observations should be recorded in the sample field record sheet (attached). Observations would include smell, weather conditions etc
- When using a field meter ensure it has been calibrated. Record calibration method. Field measurements should be made of pH, temperature and conductivity.
- Use deionised water to rinse the field recorder between uses
- All samples should be stored as shown in Table 3 below. However all samples should be sent to the lab immediately.

Table 3 Sample storage and transportation conditions

Analyte	Holding Time (time before analysis)	Storage
Absorbable Organic Compounds (AOX)	14 days	Cool to 4°C
Alkalinity	14 days	Cool to 4°C
Ammonia	28 days	Cool to 4°C
Calcium	6 months	Cool to 4°C
Chloride	28 days	Cool to 4°C
Fluoride	28 days	Cool to 4°C
Iron	6 months	Cool to 4°C
Magnesium	6 months	Cool to 4°C
Manganese	6 months	Cool to 4°C
Nitrate	28 days	Cool to 4°C
pH	6 hours	Cool to 4°C
Total Phenolics (APHA Method, Non Speciated)	28 days	Cool to 4°C
Potassium	6 months	Cool to 4°C
Sodium	6 months	Cool to 4°C
Sulphate	28 days	Cool to 4°C
Total Organic Carbon	28 days	Cool to 4°C
Suspended Solids	7 days	Cool to 4°C
Poly Aromatic Hydrocarbons	Extract within 7 days, analyse within 40 days	Cool to 4°C
Volatile Organic Compounds	14 days	Cool to 4°C
Volatile Halogenated Compounds	14 days	Cool to 4°C
Phenois (GCMS – Speciated)	Extract within 7 days, analyse within 40 days	Cool to 4°C

4. Quality Control

All samples analysed by the laboratory are analysed according to the following Quality Control Schedule:

Inorganic

- 2 x duplicates per analytical lot of samples (ie one duplicate per 10 samples)
- 1 x Method Blank (where appropriate) per 20 samples
- 1 x Standard Reference Material or independent source standard analysed per 20 samples
- 2 x Matrix Spikes (MS) per analytical lot of samples (ie one MS per 10 samples)

Organics

- 2 x duplicates per analytical lot of samples (ie one duplicate per 10 samples)
- 1 x Method Blank per lot
- 1 x Single Control Sample (SCS) containing all target compounds per analytical lot of samples
- 1 x Duplicate Control Sample (DCS) containing all target compounds per analytical lot of samples
- 2 x MS per analytical lot of samples (ie one MS per 10 samples)
- Addition and analysis of surrogate compounds (where appropriate) to all samples.

Compliance to this QC Schedule is reliant upon the submission of appropriate sample volumes.

NB: Water samples in particular require the submission of additional containers for the analysis of MS and duplicates.

Please inform the laboratory of your QC requirement prior to ordering sample containers.

5. Reporting

All results received shall be reviewed by Council's Coordinator Waste Operations and reported to the NSW Environment Protection Authority (EPA) on an annual basis with the EPA annual landfill licence return. If any particularly high contaminant levels are received they shall be reported to the EPA within 14 days.

6. Attachments

- A. Sampling Field Sheet
- B. Chain Custody Form Field Record Sheet

Benefit of Compliance to Procedure:

- Impacts on the natural environment minimised
- Operational issues identified
- Demonstrated operational competency

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment
- Unresolved operational issues

Reviewed by:

Date:

Approved by:

Date

Operation and Maintenance of Sediment Control Systems/Water Quality Basins

Safe Work Method Statement

Purpose and Scope To ensure that the surface water control system, including the stormwater retention dam, is operating effectively within its design objectives to control erosion and sediment deposition.

To define the procedure for the operation and maintenance of the water quality control basins.

Definition: “Water quality control structures” are small dams designed to intercept sediment laden runoff and retain a significant portion of the sediment thereby protecting downstream waterways from pollution and excessive sedimentation. This retention of sediment is generally achieved by the settling of the suspended sediment from the stormwater flow. The sediment and water quality control basin (retention dam) is found at the location described in the LEMP. (figure 5.1)

Primary Environmental Goal – Detecting water pollution. Benchmark technique 7.

Procedure/Standard

Non vegetated and unsealed areas such as newly constructed waste disposal stages, recently covered filling areas, stockpile areas and roads have a high potential to release sediments into stormwater, and significant sedimentation and erosion controls have to be constructed to minimise this risk.

Surface water management can be achieved by:

- Control site clearing to minimise exposed areas
- Applying mulch to erodible surfaces
- Revegetation of degraded areas and slopes
- Revegetation of final capping
- Establishing silt barriers to catch drains
- De-silting sedimentation basins and ensuring detention of stormwater inflows
- Limit access to non landfill areas to protect existing vegetation
- Visual inspection of surface water control systems after rain events
- Drainage control by using perimeter banks, bunds, diversion channels and drains to divert silt laden flows into controlled dams and basins

1. Inspection and Maintenance of Structures

- Routine inspections are to be carried out to assess the need for maintenance and are primarily concerned with checking the functionality of the stormwater drainage and treatment facilities; items such as drains, drainage pits, box culverts, detention basins and retention systems. Maintenance of these items is most important for the ongoing drainage and treatment of stormwater.
- Water quality basin (retention dam) should be inspected following each storm event and after discharge of stormwater to ensure adequate capacity is maintained in the basin at all times. The quality of discharge water is to align with the parameters established by the EPL.
- Should the inspection reveal that maintenance of any item is required this is to be reported to Council's Coordinator Waste Operations for action.
- Items that are to be subject to Routine Inspections for Maintenance may comprise, but not be limited to, those listed in the attached inspection sheet. The inspection sheet is to be read in conjunction with the overall Environment Monitoring Plan check list for the facility.
- Marker pegs are to be used to indicate the capacity of sediment control basins. If sediment has accumulated to a point above the marker pegs, a bobcat/excavator (or similar plant) should be employed to remove the accumulated sediment and restore the capacity of the sediment basin. Relocate the sediment to an area away from the drainage paths.
- Personnel completing the routine inspections for maintenance should be generally observant of items such as equipment failures, leaking water, scouring and/or signs of blockages of water flow. If such items are observed an immediate inspection for engineering maintenance should be organised.
- Where routine maintenance is repeatedly carried out in one location, the problem should be investigated further during an engineering inspection for maintenance.

2. Frequency of Inspection

- Routine inspections for maintenance shall be carried out over the life of the facility.
- Event heavy rain inspections should be carried out as soon as practicable following an intense period of rainfall (ie greater than 50mm over 48 hours, or as prescribed in the EPL).

3. Records

- Records detailing each of the routine inspections for maintenance should be completed during the inspection and describe in detail any required maintenance.
- The inspection records are to be provided as part of the facility inspection and audit program for the facility.
- Records of any maintenance carried out as a result of the inspection should be completed immediately after the works have been finalised and filed appropriately.

<p>4. Personnel</p> <ul style="list-style-type: none"> • Routine inspections for maintenance are required to establish the need for basic maintenance. On this basis such inspections do not require professional engineering knowledge and may be carried out by any responsible person, including site staff and Council's Coordinator Waste Operations or Waste Services Field Officer. <p>5. Attachments</p> <p>A Water Quality Basin Inspection Requirements</p>	
<p>Benefit of Compliance to Procedure:</p> <ul style="list-style-type: none"> • Impacts on the natural environment minimised • Operational issues identified • Demonstrated operational competency • Meeting environmental goal and EPL conditions 	
<p>Consequence of Non-Compliance to Instruction:</p> <ul style="list-style-type: none"> • Violations and/or fines from Regulatory Agencies • Pollution of the environment • Unresolved operational issues 	
<p>Reviewed by: Date:</p>	<p>Approved by: Date</p>

Attachment A - Water Quality Basin Inspection Requirements

Item/Area Min	Routine Inspections for Maintenance	Frequency
Drains/pipes/pits	Inspect surface access points to underground culverts, diversion pit, other pits and pipes as well as surface in the area of the access points. Particular attention should be paid to damage or blockage	6 monthly
	Inspect lining of open drains to determine any scour or damage requiring repair. In particular the connection points from the batter drainages into the stormwater channel need to be investigated for evidence of scour.	6 monthly
	To be visually inspected after heavy rainfall events to ensure they are free of debris and litter.	As required
Batter drainage	Inspect batter drains for evidence of deterioration and scour. This inspection is required for both lined and unlined batter drains, including where the drain crosses benches.	6 monthly
	Inspect batter drains for debris and overgrown vegetation	6 monthly
	To be visually inspected after heavy rainfall events to ensure they are free of debris and litter	As required
Retention system	Inspect dam lining for damage and general condition	6 monthly or prescribed rain event
	Inspect retention dam for damage or debris collection	6 monthly or prescribed rain event
	Trash screens to be visually inspected after heavy rainfall events to ensure they are free of debris and litter	As required
Inlet/Outlet culverts	Inspect culverts, headwalls and overflow weirs for signs of deterioration (scouring), blockage or damage	6 monthly
	Trash screens to be visually inspected after heavy rainfall events to ensure they are free of debris and litter	As required
Overflow Weir (refer to Section....)	Inspect weir for signs of deterioration or damage	6 monthly

Inspections should also be undertaken after a heavy rainfall event or as prescribed in the EPL.

APPENDIX 10

Leachate Discharge – De-leaching Well Failure Safe Work Method Statement

Purpose and Scope

The purpose of this procedure is to define an incident response in the event of a leachate discharge being detected or reported from a failure of the de-leaching well resulting in a significant leak at the Minimbah Waste Management Centre

Procedure/Standard

- Leachate or contaminated surface water discharge to adjacent waterways

Actions required in response to such events may vary and it will be the role of the contractor company staff to determine and initiate appropriate actions.

The following notes will form the basis of that decision making.

- Confine the source of the discharge to limit the spread of its effects without endangering personnel.
- Place sand bag barriers at the point of failure if safe to do so or engage suitable plant to construct an earth dam to contain any leachate flow.
- Check the operation of the leachate pump, float switches and pump lines for the source of the problem. Examine the de-leaching well for structural integrity.
- Examine the leachate source (active tipping area) for surface water inflows (from damaged diversion berms)
- Secure the affected area(s) by using barricades and bunting if necessary.
- Initiate remedial action in affecting simple repairs.
- Advise the company's supervisor of all actions taken or proposed.
- Notify neighbours who may be affected by the incident.
- Engage a suitably qualified technicians, engineer etc (if necessary) to evaluate the damage and to design the remedial work.
- A copy of the Pollution Incident Report Form is to be referred to Council's Waste Management Coordinator

It is considered essential that all operators using the site are aware and understand the specific emergency and incident response requirements.

Benefit of Compliance to Procedure:

- Limit environmental damage
- Health and safety of public/facility user protected

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies

Reviewed by:

Date:

Approved by:

Date

APPENDIX 11

Groundwater Monitoring Safe Work Method Statement

Purpose and Scope

The purpose and scope of the groundwater monitoring program should be to effectively monitor and report current groundwater character and ensure early detection and reporting of possible pollution of groundwater at the Minimbah Waste Management Centre

Primary Environmental Goal – Detecting water pollution. Benchmark technique 6

Procedure/Standard

All ground water monitoring wells (piezometers) at the landfill site should be sampled in accordance with the requirements of the EPL. The locations of the groundwater monitoring bores are shown in the LEMP (figure 5.1). The parameters to be analysed should align with those prescribed in the EPL. The frequency of monitoring may be reviewed after data has been collected for at least five consecutive years.

Preparation

Before starting, a check of the required equipment is needed before sampling takes place. Table 1 shows what is needed to undertake a groundwater sampling exercise.

Table 1: Equipment List for Groundwater Quality Sampling

Cross X	Apparatus/Equipment List
	Rubber gloves
	Sampling pole or pump
	Chain of custody documentation
	Clipboard
	Log sheets
	Calibrated water quality field meters
	Pencil/pens
	Decontamination equipment and water

1. Field Procedure

- i. Measure Standing Water Level (SWL) prior to each sampling event
 - Hydrological measurements to establish the SWL with an accuracy of $\pm 0.3\text{cm}$
- ii. Before collecting water sample, pump stagnant water to allow recharge of borehole
 - Stagnant waters are subject to evaporation which may change the groundwater chemistry. The water may contain animal and plant life which is not representative of the groundwater. If the water has not been pumped within the last 24 hours it will be necessary to allow recharge before taking the sample.
- iii. Well purging to remove stagnant water from well casing. Wells must be purged until successive pH readings agree by 0.1pH unit.
- iv. Measure the field temperature, pH, EC and Eh of the water and record on field sheet (refer to Attachment A)
 - Chemical changes can occur due to the oxidation of the sample during the

recovery from a bore. Oxidation can occur from the pump. Because groundwater is in a reduced state some of the changes that can be expected include:

- oxidation of organics
- oxidation of sulphide to sulphate
- oxidation of ferrous iron and precipitation of ferric hydroxide
- oxidation of ammonium ion to nitrate

Problems with oxidation can largely be avoided by monitoring the oxidation state of the bore during pumping (Eh meter) and taking a sample only after the water has stabilised.

- v. Only take a water sample after pH and EC of the water being pumped is stabilised. Use containers as recommended below in Table 2.
- Release of carbon dioxide during pumping can cause an increase in pH which in turn causes many metallic ions to come out of solution (iron, manganese, magnesium, cadmium, arsenic, selenium and boron).
 - Samples must be taken with a positive displacement pump or dual valve bailer. When taking the sample the flow rate should be reduced to approximately 100ml/minute to reduce the loss of volatile components.
 - Take a bottle from the customised sample kits that the laboratory has provided. The bottle needed to test the analyses is colour coded as shown in Table 2.
 - Care should be taken not to touch the lid or the inside of the bottle as the bottle has been preserved and cleaned.

2. Precautions

- All sampling equipment should be cleaned with deionised water and industrial strength detergent so that cross contamination does not occur.
- Avoid any source of contamination coming into contact with equipment (eg the ground surface).
- Do not transfer the sample from one container to the other container because of losses of organic material into the walls of the container or aeration should occur.
- Label water sample container with sample identification, date, sampler's initials and job number.
- No headspace should exist in the sample container.
- Wear gloves to avoid contamination and for WH&S reasons.

3. Bottle Size and Type of Preservation/Acidification

All preservation/ acidification/ solvent washing should have been performed by the laboratory. Once the specifications and numbers of samples has been decided, use customised sampling kits containing correct number and type of bottles as well as ice bricks, Chain of Custody forms, security seals and address labels.

- Groundwater samples that are being analysed for dissolved metals should be Field Filtered prior to preservation.
- Field filtered samples will need to be collected in a red labelled bottle preserved with nitric acid.

Table 2: Groundwater Sample Containers

Bottle Type	Test Parameter
2 x 40ml vials no headspace (fill to top)	AOX (Absorbable Organic Compounds)
1 x 1litre plastic Sulphuric Acid Preserved (purple label)	Ammonia, Nitrate, Total Phenois (APHA method, non speciated)
1 x 40ml glass vial Sulphuric Acid Preserved (purple label)	Total Organic Carbon (TOC)
1 x 1litre Natural Plastic (green label)	Alkalinity, pH, Calcium, Magnesium, Sodium, Potassium, Chloride, Sulphate, Fluoride
1 x 250ml Nitric Acid Preserved Plastic Bottle – Field Filtered (red label)	Dissolved Heavy Metals (Mn, Fe)

- All samples should be labelled and stored as shown in Table 3 below. However all samples should be sent to the lab as soon as possible following sampling under completed Chain of Custody Documentation.
- Fasten lid tightly and place in cooler with frozen ice bricks (must be kept at 4°C).

Table 3: Sample Storage and Transportation Conditions

Analyte	Holding Time (time before analysis)	Storage
Absorbable Organic Compounds (AOX)	14 days	Cool to 4°C
Alkalinity	14 days	Cool to 4°C
Ammonia	28 days	Cool to 4°C
Calcium	6 months	Cool to 4°C
Chloride	28 days	Cool to 4°C
Fluoride	28 days	Cool to 4°C
Iron	6 months	Cool to 4°C
Magnesium	6 months	Cool to 4°C
Manganese	6 months	Cool to 4°C
Nitrate	28 days	Cool to 4°C
pH	6 hours	Cool to 4°C
Total Phenolics (APHA Method, Non Speciated)	28 days	Cool to 4°C
Potassium	6 months	Cool to 4°C
Sodium	6 months	Cool to 4°C
Sulphate	28 days	Cool to 4°C
Total Organic Carbon	28 days	Cool to 4°C
Suspended Solids	7 days	Cool to 4°C
Poly Aromatic Hydrocarbons	Extract within 7 days, analyse within 40 days	Cool to 4°C
Volatile Organic Compounds	14 days	Cool to 4°C
Volatile Halogenated Compounds	14 days	Cool to 4°C
Phenois (GCMS – Speciated)	Extract within 7 days, analyse within 40 days	Cool to 4°C

4. Quality Control

All samples analysed by the laboratory are analysed according to the following Quality

Control Schedule:

Inorganic

- 2 x Duplicates per analytical lot of samples (ie 1 duplicate per 10 samples)
- 1 x Method Blank (where appropriate) per 20 samples
- 1 x Standard Reference Material or independent source standard analysed per 20 samples
- 2 x Matrix Spikes (MS) per analytical lot of samples (ie 1 MS per 10 samples).

Organics

- 2 x Duplicates per analytical lot of samples (ie 1 duplicate per 10 samples)
- 1 x Method Blank per lot
- 1 x Single Control Sample (SCS) containing all target compounds per analytical lot of samples
- 1 x Duplicate Control Sample (DCS) containing all target compounds per analytical lot of samples
- 2 x Matrix Spikes (MS) per analytical lot of samples (ie 1 MS per 10 samples)
- Addition and analysis of Surrogate compounds (where appropriate) to all samples.

Compliance to this QC Schedule is reliant upon the submission of appropriate sample volumes.

Note: Water samples in particular require the submission of additional containers for the analysis of MS and duplicates)

5. Reporting

All results received shall be reviewed by Council's Coordinator Waste Operations .

Benefit of Compliance to Procedure:

- Meeting environmental goal
- Impacts on the natural environment are minimised
- Operational issues identified
- Demonstrated operational competency

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment
- Unresolved operational issues

Reviewed by:

Date:

Approved by:

Date

APPENDIX 12

Used Tyre Stockpile Management and Maintenance Safe Work Method Statement

Purpose and Scope

To define the procedure for management of used tyres which have been stockpiled and are awaiting removal offsite for recycling or disposal so as to minimise the risk of fire. The EPA Environmental Protection Licence requires stockpiles of tyres not to exceed 50 tonnes. Good practice would ensure that the quantity of tyres kept on site at any one time was minimal and certainly not exceeding 50 tonnes.

Procedure/Standard

- Tyres are to be placed on a hardstand area compacted of a depth of at least 900 mm if located above previously placed general waste.
- A safety exclusion area is to be maintained around the stockpile as a retained buffer zone to prevent the spread of fire and to allow fire suppression activities to be undertaken in the event of fire.
- Tyres are to be removed from site on a routine basis to ensure the stockpile is kept to a minimum.
- Fire prevention measures are to be undertaken including signage, servicing of fire fighting equipment and training of personnel in fire fighting techniques.

In the event of a fire –

- Attempt to extinguish a small, controlled fire with equipment on site without endangering facility personnel and equipment. This equipment includes a fire extinguisher or covering with earth if suitable plant is available. When in doubt, evacuate the area and call 000 and request the presence of the Fire Brigade providing all information they require (ie your name, fire location, type, size, etc)
- As soon as possible notify the company supervisor of the incident and provide an update of the action initiated to date.
- Keep all unauthorised people away from the area on fire whilst protecting personal safety.
- Report the details of the fire on an Incident Notification Report and refer to the company supervisor.

Benefit of Compliance to Procedure:

- Impacts on the natural environment minimised

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment

Reviewed by:

Date:

Approved by:

Date

APPENDIX 13

Green Waste Stockpile Management and Maintenance

Safe Work Method Statement

Purpose and Scope

To define the procedure for the management of shredded green waste which has been stockpiled and is transporting offsite for further processing so as to minimise the risk of fire and/or odour generation.

Procedure/Standard

- Stockpiles and windrows of shredded green waste are to be limited to between 1.5 and 2.0m in height and 3-4m in width.
- Stockpiles and windrows of shredded green waste are to be visually inspected weekly and an assessment of the temperature and odour conditions within the stockpile made.
- If heating in a stockpile is suspected a temperature probe should be inserted into the stockpile and allowed to remain undisturbed until the temperature reading remains static.
- Stockpiles and windrows of mulch are to be turned when temperatures within the stockpile exceed about 50°C.

ALTERNATIVELY water is to be added to the stockpile so as to reduce the core temperature.

Benefit of Compliance to Procedure:

- Impacts on the natural environment minimised

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment

Reviewed by:

Date:

Approved by:

Date

APPENDIX 14

Fire in Waste Transfer Bin Safe Work Method Statement

Purpose and Scope

To define a procedure for responding to a fire that is detected in a waste transfer bin.

Primary Environmental Goal – Adequate Fire Fighting Capacity. Benchmark technique 38.

Procedure/Standard

Fire

- Attempt to extinguish a small, controlled fire with equipment on site without endangering facility personnel and equipment. This equipment includes a suitable fire extinguisher. When in doubt, evacuate the area and call 000 and request the presence of the Fire Brigade providing all information they require (ie your name, fire location, type, size, etc)
- Do not attempt to remove a transfer bin containing the fire.
- As soon as possible notify the company supervisor of the incident and provide an update of the action initiated to date.
- Keep all unauthorised people away from the area on fire whilst protecting personal safety.
- Report the details of the fire on a Pollution Incident Report form and refer to the company supervisor.
- A copy of the Pollution Incident Report Form is to be referred to the Team Leader of Waste Operations

Benefit of Compliance to Procedure:

- Meeting environmental goal.
- Employee's safety protected
- Health and safety of public/facility user protected
- Minimise damage to public property

Consequence of Non-Compliance to Instruction:

- Injury/death to employee
- Injury/death to public/facility user
- Damage to public property
- Violations and/or fines from Regulatory Agencies

Reviewed by:

Date:

Approved by:

Date

APPENDIX 15

Fire at the Tipping Face Safe Work Method Statement

Purpose and Scope

To define a procedure for responding to a fire that is detected at the tipping face or elsewhere on the landfill at the Minimbah Waste Management Centre

Primary Environmental Goal – Adequate Fire Fighting Capacity. Benchmark technique 38.

Procedure/Standard

Fire

1. Attempt to extinguish a small, controlled fire with equipment on site without endangering facility personnel and equipment. This may include the use of a water tanker or isolating the source of the fire and covering with earth by using on-site plant.

When in doubt, evacuate area and immediately call '000' and request the presence of the Fire and Rescue NSW, providing all information required (ie your name, fire location, type, size etc).

2. As soon as possible notify the company area manager of the incident and provide an update of the action initiated to date.

3. Keep all unauthorised people away from the area where the fire is burning.

4. Report the details of the fire on a Pollution Incident Report form and refer to the company supervisor.

5. A copy of the Pollution Incident Report form is to be referred to the council.

Benefit of Compliance to Procedure:

- Meeting environmental goal.
- Employee's safety protected
- Health and safety of public/facility user protected
- Minimise damage to public property

Consequence of Non-Compliance to Instruction:

- Injury/death to employee
- Injury/death to public/facility user
- Damage to public property
- Violations and/or fines from Regulatory Agencies

Reviewed by:

Date:

Approved by:

Date

APPENDIX 16

Fire in Load Safe Work Method Statement

Purpose and Scope

To define a procedure for responding to a fire which is detected in a load of material brought to the Minimbah Waste Management Centre for disposal.

Primary Environmental Goal – Adequate Fire Fighting Capacity. Benchmark technique 38.

Procedure/Standard

Fire in load refers to a vehicle load of waste that is either on fire and/or smouldering or smoking prior to discharge at the tip face. All employees are expected to be familiar with the following procedures for handling such loads:

1. The driver is to dump the material in a clear area that is away from any building and clear of any vegetation and/or debris.
2. Should it not be possible to move the vehicle to a clear space, isolate the vehicle and evacuate the area
3. Notify the Fire Brigade by telephoning “000” providing all information they require (ie your name, fire location, type, size, etc)
4. As soon as possible notify the company supervisor of the incident and provide an update of the action initiated to date.
5. Contain the fire, and if possible spread out the load and extinguish the fire with water or soil. Contain the spread of water used in extinguishing, consider it as leachate and treat accordingly.
6. Once fire is determined to be completely out, assess the content of the waste to determine if any hazardous wastes are present place the load into an empty waste receptacle for transport to the landfill. No other waste is to be incorporated into the waste receptacle.
7. Where hazardous wastes are involved contact the Fire Brigade by telephoning “000” and request their attendance. Provide all information they require ie .your name, fire location, type, size, etc.
8. Report the details of the fire on a Pollution Incident Report form and refer to the company supervisor.

A copy of the Pollution Incident Report form is to be referred to the council

Benefit of Compliance to Procedure:

- Meeting environmental goal.
- Employee’s safety protected
- Health and safety of public/facility user protected
- Minimise damage to public property

Consequence of Non-Compliance to Instruction:

- Injury/death to employee
- Injury/death to public/facility user
- Damage to public property
- Violations and/or fines from Regulatory Agencies

Reviewed by:

Date:

Approved by:

Date

APPENDIX 17

Chemical Spill Response Safe Work Method Statement

Purpose and Scope

The purpose of this procedure is to define an incident response in the event of a chemical spill from ruptured or leaking chemical containers at the Minimbah Waste Management Centre

Procedure/Standard

- Chemical spillage

Actions required in response to such an event may vary and it will be the role of the contractor company staff to determine and initiate appropriate actions. The following notes will form the basis of that decision making process.

- Depending on the scale of the spillage, it may be necessary to make first contact with emergency services by dialling 000 and advise of the type of emergency and the assistance needed (Fire Brigade – Hazmat)
- Secure the affected area(s) by using barricades and bunting.
- If necessary, initiate evacuation of staff, members of the public and others that may be on site, including contractors
- Engage measures to restrict vehicles entering the site
- Where possible, confine the incident and prevent the spread of its effects without endangering personnel. This may include building sand bag bunding, rotating the container or plugging the leak.
- Cover nearby drains and/or put in place temporary bunting
- For small spills, use the spill kit kept on site.
- Advise the company's supervisor of all actions taken or proposed.
- Obey the instructions from the emergency services who may attend the site.
- Notify neighbours who may be affected by the incident.
- A copy of the Pollution Incident Report form is to be referred to Council's Waste Management Coordinator

It is considered essential that all operators using the site are aware and understand the specific emergency and incident response requirements.

Benefit of Compliance to Procedure:

- Limit environmental damage
- Health and safety of public/facility user protected

Consequence of Non-Compliance to Instruction:

<ul style="list-style-type: none">• Extended environmental damage• Injury/death to employee• Injury/death to public/facility user• Violations and/or fines from Regulatory Agencies	
Reviewed by: Date:	Approved by: Date

APPENDIX 18

Storage/Handling of Chemicals and Hazardous Substances

Safe Work Method Statement

Purpose and Scope

The use of chemicals and hazardous substances the Minimbah Waste Management Centre will be limited to paints and solvents for maintenance of site facilities and herbicides/pesticides for controlling weeds and pests.

Dangerous Goods legislation requires licensing of premises when storage exceeds specified quantities of dangerous goods. The aim of this procedure is to assist in the identification, handling, storage and disposal of hazardous substances. It includes the use of labels and Material Safety Data Sheets (MSDS), provision of information and training to personnel as well as storage and disposal requirements for use of hazardous substances.

The procedure also addresses the management of hazardous substances imported to the site by users of the waste management facility. These substances include empty paint cans, gas bottles etc.

Procedure/Standard

1. Purchase of Materials

When a hazardous substance is purchased the supplier must provide sufficient information to ensure that the substance can be handled, stored, transported, used, processed and disposed of safely. Full safety data in the form of a current approved MSDS must be provided by the supplier on the first occasion that a hazardous substance is supplied. The manufacturer shall review and revise the MSDS every five years as a minimum. Suppliers are required to provide MSDS on request.

Whenever possible a non hazardous alternative shall be selected. However where no such alternative is available the most suitable, but least harmful or dangerous, shall be considered.

2. Labelling of Hazardous Substances

Suppliers shall ensure that all containers of hazardous substances for use are appropriately labelled. Where a hazardous substance is decanted and not used or further processed immediately, the container into which the substance is decanted is labelled with the product name and risk and safety information (this does not apply to substances which are decanted and used immediately). Hazardous substance containers shall remain appropriately labelled until they are cleaned and no longer contain any hazardous substance. All containers shall be in suitable condition. Damaged or corroded containers must not be accepted.

3. Material Safety Data Sheets

Material Safety Data Sheets should contain the following information as a minimum:

- State if the product is classified as a hazardous substance as a minimum

- Safety Equipment to be worn by the operator when using the substance
- Storage requirements including compatibility with other substances
- Requirements for transport and disposal
- Procedures for cleanup and disposal of spilt product and waste containers
- First aid procedures if the hazardous substance comes into contact with the operator's skin, eyes or if the substance is swallowed or ingested by the operator.

A register of MSDSs shall be maintained at the facility and made available for use by all employees at site (refer to Attachment A). All MSDS shall be readily accessible to all employees with potential exposure to those substances.

4. Storage

Flammable goods need to be stored away from sources of ignition and spillage containment is required. Dangerous goods legislation requires segregation of different classes of dangerous goods and licensing is required when certain quantities are exceeded. Paints in containers less than 5 litres would generally not require licensing.

5. Handling Hazardous Substances and Dangerous Goods

- Hazardous substances bought to the facility shall be segregated and taken to the designated storage areas located within the facility. These substances need to be adequately segregated to prevent fires or other dangerous occurrences.
- Examples of these wastes include paints, chemicals and gas bottles.
- These materials and substances will be collected on regular basis under contract and transferred for disposal at an appropriate facility. These substances are not to be disposed of at Council's landfills.

Benefit of Compliance to Procedure:

- Employee's safety protected
- Health and safety of public/facility user protected
- Impacts on the natural environment are minimised

Consequence of Non-Compliance to Instruction:

- Injury/Death to employee
- Injury/Death to public/facility user
- Violations and/or fines from Regulatory Agencies

Reviewed by:	Approved by:
Date:	Date

APPENDIX 19

Inspection of Loads Safe Work Method Statement

Purpose and Scope

To ensure that only Permitted Waste is accepted at the Minimbah Waste Management Centre through the adoption and implementation of appropriate vehicle inspection procedures.

Primary Environmental Goal – Assuring quality of incoming waste. Benchmark technique 21.

Procedure/Standard

The weighbridge/gatehouse operator shall conduct a vehicle inspection and waste assessment to ensure that only Permitted Wastes are accepted at the facility. The minimum requirements of the inspection are:

1. Exhibit prominent signage at the entrance to the facility defining the types of wastes that will be accepted and those that are excluded.
2. In-coming vehicles are to have the loads uncovered at the designated (un-tarping) area prior to entering the gatehouse/weighbridge. All loads shall be subject to a visual inspection to ensure no excluded wastes are contained within the loads. The weighbridge/gatehouse operator shall also enquire to the customer whether hazardous materials, such as lead acid batteries, gas bottles, solvents, paints etc, are contained within the load. Empty chemical containers should be checked for triple rinsing before accepting for disposal.
3. Any vehicles suspected of containing excluded wastes shall be refused entry until verified otherwise. The weighbridge/gatehouse operator shall require and collect appropriate evidence from the driver of the incoming vehicle, as necessary, to substantiate that the waste is not an excluded waste eg provision of a test certificate.
4. Where wastes are contained in enclosed vehicles, eg private waste collection vehicles, the weighbridge/gatehouse operator shall identify the source and nature of the waste by inquiry.
5. At the waste transfer station/tipping face of the waste disposal areas the discharge of wastes from enclosed vehicles is to be inspected by the site controller/plant operator. No sealed containers shall be deposited without substantiation that the contents are acceptable for disposal.
6. All private waste collection and disposal companies servicing commercial and industrial premises and using the facility shall be required to enter into an agreement with the customer regarding disposal of collected wastes. This agreement shall include the identification of excluded wastes and undertakings by the customer not to deposit such wastes in the collection receptacle.

Benefit of Compliance to Procedure:

- Meeting environmental goal
- Employee's safety protected
- Health and safety of public/facility user protected
- Impacts on the natural environment minimised

Consequence of Non-Compliance to Instruction:

- Injury/Death to employee
- Injury/Death to public/facility user
- Violations and/or fines from Regulatory Agencies

Reviewed by:

Date:

Approved by:

Date

APPENDIX 20

Clean Up of Fuel/Oil Spills

Safe Work Method Statement

Purpose and Scope

To define the procedure for the containment, management and cleanup of minor fuel/oil spills at the Minimbah Waste Management Centre.

Procedure/Standard

1.1.1.3 Definitions

Fuel/oil spills refers to discharges of petroleum compounds, including petrol, diesel, lubricating oils, hydraulic oils, greases etc. Spillage of oils and fuels may arise from leaking machinery (eg burst hydraulic hoses) and spillage of liquids from containers deposited or stored at the site.

It is important to take prompt action to clean up any spilt oil or fuel to minimise the risk of accidents occurring and to prevent contamination of local waterways should the spilt fuel/oil enter the site drainage system.

Equipment available to clean up oil spills include oil absorbent pads, "kitty litter", oil absorbent booms and drain blocking pads. Additional materials may be obtained by contacting the company's supervisor. This equipment or "spill kit" should be stored close to point of use or in a readily transportable form eg on a trailer or in a wheelie bin.

The steps in this procedure shall be as follows:

1. For mechanical equipment, shut down the item of plant and plug the leak or crimp the hydraulic hose if possible and quickly. For leaking containers, address the source of the leak, but at all times, avoid contact with the material.
2. Isolate adjacent drainage points.
3. Dam and contain the spill using the contents of the spill kit.
4. Recover and absorb.

Once the source of the leak is established, undertake all efforts to prevent further flow, eg if leak is from an oil drum, roll drum so that leak areas is uppermost. If leak is from pipe from oil truck, close valves etc. All attempts should be made to plug the leak.

Stop all human and vehicular traffic through the spill area. Isolate sources of ignition and advise fire authorities (and licensing authorities). Mobilise fire extinguishers, if suitable.

Contain the spill as follows:

- Protect drains by forming barriers and sealing drainage grates (eg using strong plastic bags partially filled with sand or water). The absorbent socks and pillows can be used to block off drains allowing water to go through but trapping the oil. Absorbent material has limited capacity and needs to be replaced regularly.
- If possible stop the spill from spreading by deflecting the oil into another container.
- Form barriers using absorbent material and place on the edge of the spill. (or use any

<p>other suitable and available materials, eg soil, sand).</p> <ul style="list-style-type: none"> • All used absorbent material is to be placed in drums or skips for transport and disposal to the landfill area. Sand contaminated by oil is to be stockpiled on plastic sheeting in a bunded area. • If sufficient product exists, hand pumps should be used and product transferred to a suitable container (lined drums, skips or tankers). Avoid the use of electrical equipment that could be the source of ignition. 	
<p>Benefit of Compliance to Procedure:</p> <ul style="list-style-type: none"> • Employee's safety protected • Health and safety of public/facility user protected • Impacts on the environment are minimised 	
<p>Consequence of Non-Compliance to Instruction:</p> <ul style="list-style-type: none"> • Injury to employee • Injury to public/facility user • Environmental pollution • Violations and/or fines from regulatory agencies 	
<p>Reviewed by:</p> <p>Date:</p>	<p>Approved by:</p> <p>Date</p>

APPENDIX 21

Depositing of Waste Safe Work Method Statement	
Purpose and Scope The purpose of this procedure is to define the procedure for the depositing of waste from collection vehicles or waste transfer (skip) bins at the landfill site.	
Procedure/Standard <ol style="list-style-type: none">1. All staff and private contractors engaged in the collection and disposal of waste are to be oriented in the management of the landfill site as operated by the principal contractor.2. Drivers are to undertake a physical inspection of the tipping platform and assess the disposal location for risks, such as uneven/sloping ground, obstacles, hazards, unstable ground, sharp objects, moving plant, other vehicles, etc.3. The vehicle is to be reversed to the disposal location as directed by the site plant operator, stopped in the appropriate position and brakes applied4. The tailgate/tipping body is to be unlatched and/or secured in the open position5. The body is to be lifted to the upright position and the waste emptied6. The vehicle is to move from the disposal site with the tailgate/tipping body secured in the closed position.	
Benefit of Compliance to Procedure: <ul style="list-style-type: none">• Employee safety is protected• Vehicle damage is avoided• Adherence to landfill protocols	
Consequence of Non-Compliance to Instruction: <ul style="list-style-type: none">• Employee safety is put at risk• Vehicular damage• Improper use of landfill	
Reviewed by: Date:	Approved by: Date

APPENDIX 22

Dust Management Safe Work Method Statement	
Purpose and Scope The purpose of this procedure is to define the procedure for controlling the creation and distribution of dust at the Minimbah Waste Management Centre.	
Procedure/Standard Dust can arise from a number of sources in the operation of a waste management facility and these include unsealed roads, previously capped and un-vegetated areas, from shredding of green waste, concrete crushing and the movement of stockpiles of dry materials. It is the responsibility of the site contractor to ensure preventative measures are put in place to control the generation of dust. Such measures include – <ul style="list-style-type: none">• Wetting unsealed roads• Applying shredded green waste to capped areas within the landfill operations areas.• Wetting piles of green waste immediately prior to shredding• Operating mist sprays where concrete or hard rock are being crushed	
Benefit of Compliance to Procedure: <ul style="list-style-type: none">• Mitigating the likelihood of a pollution incident• Adherence to landfill protocols	
Consequence of Non-Compliance to Instruction: <ul style="list-style-type: none">• Complaints from adjoining property owners• Improper use of landfill	
Reviewed by: Date:	Approved by: Date

APPENDIX 23

Odour Management Safe Work Method Statement

Purpose and Scope

The purpose of this procedure is to define the procedure for controlling excessive odours at the Minimbah Waste Management Centre

Procedure/Standard

Odour can arise from a number of sources in the operation of a waste management facility and these include uncovered waste, composting of organic material that includes food waste, landfill gas, animal carcasses, exposing anaerobic decomposing materials, sewer sludge and disturbed areas of previously placed waste.

It is the responsibility of the site contractor to ensure preventative measures are put in place to control the generation of odour. Such measures include –

- Examination of incoming loads to ensure only permitted wastes are accepted
- Daily cover (VENM) is place over any exposed waste at the conclusion of the days operations
- Intermediate cover is placed over waste exposed for more than 90 days to a depth of 300 mm
- Animal carcasses are buried within the waste mass
- Landfill gas management system is installed
- Routine inspections are undertaken in accordance with the EMP checklist (see Appendix 27) to ensure there are no areas of exposed waste resulting after storm events or site activities

Benefit of Compliance to Procedure:

- Mitigating the likelihood of a pollution incident
- Adherence to landfill protocols

Consequence of Non-Compliance to Instruction:

- Complaints from adjoining property owners
- Improper use of landfill

Reviewed by:

Date:

Approved by:

Date

Covering of Waste/Litter Control Safe Work Method Statement

Purpose and Scope

To define a procedure for the covering of waste/litter control at the Minimbah Waste Management Centre to ensure waste/litter is controlled in an acceptable manner.

Primary Environmental Goal –Preventing degradation of local amenity. Benchmark technique 33.

Procedure/Standard

The following covering frequency is applicable to the Minimbah Waste Management Centre

Covering of Waste –

- The purpose of daily cover is to control litter, flies, rodents, birds and odour, to reduce the risk of fire and to improve the visual appearance of the landfill.
- The waste is to be covered with 150mm of inert soil at the end of each day. The material selected should preferably be free draining of a low clayey content. Highly permeable daily cover materials may be difficult to strip from the advancing the tipping face to ensure waste is placed against waste.
- It is important to thoroughly compact the waste prior to the placement of the cover material . A uniform, even surface will allow the placement of a controlled thickness of soil whereas an uncompacted or uneven surface results in a high percentage of soil being used.
- The cover material previously placed over the underlying layer of waste should be bladed off to expose the waste such that the newly placed waste is in direct contact with the old waste. The cover may be removed by a traxcavator or similar equipment.

1. Windows in Cover Material

The development of 'windows' within the daily cover layers as the landfill is progressively raised is to allow the vertical migration of leachate so it does not become 'perched' within the waste mass. The ready migration of leachate through a waste mass (including recirculated leachate) encourages biodegradation and reduces the time for waste to stabilise.

2. Litter Control

To minimise the potential migration (off site) of litter the following measures shall be implemented:

- Waste will be compacted and covered as per the covering frequency indicated above.
- Daily inspection of litter/perimeter fences and clearing as required.
- Signage will be placed at the entry/exit points to advise customers that if they drop or transport waste in a manner that could result in littering they may be liable for prosecution.
- Vehicles transferring rubbish to the site must have the waste material covered at all

times.

- Heavy vehicles leaving the site (from the tipping face) are required to pass through the wheel wash to remove sediment and waste attached to the vehicle.

3. Reporting

Non conformances shall be reported in the weekly inspection checklist. Major non conformances shall be reported to Council's Coordinator Waste Operations within 48 hours of the non conformance.

Benefit of Compliance to Procedure:

- Meeting the environmental goal.
- Impacts on the natural environment are minimised

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment

Reviewed by:

Date:

Approved by:

Date

Facility Evacuation Safe Work Method Statement

Emergency Response

1. Upon notification of an incident the Chief Warden, Contractor Manager/site supervisor determines the need for evacuation.
2. Chief Warden contacts by telephone the emergency services by dialing '000' providing all information they require (i.e., your name, incident type, size, etc.).
3. Chief Warden sounds the evacuation alarm/provision of evacuation advice to all personnel and facility users on site.
4. The Chief Warden initiates measures to restrict vehicles entering the facility.
5. The Chief Warden determines safe evacuation routes and direct personnel and facility users to the Primary Evacuation area. Where necessary unlock gates on evacuation routes so as to provide for movement to the Primary Evacuation Point or the Secondary Evacuation Point.
6. The Chief Warden provides direction to Primary Evacuation Point.
7. Prior to leaving the facility the Chief Warden (with the assistance of area wardens) accounts for all personnel including checking of all work areas.
8. Upon arrival at the Primary Evacuation Point the Chief Warden is to;
 - (a) Confirm the presence or otherwise of all personnel/staff and students.
 - (b) Determine the suitability of the Primary Evacuation Area. If necessary initiate movement to Secondary Evacuation Point or Post Evacuation Assembly Area.
 - (c) Upon there arrive brief the emergency services including the status of facility personnel.
 - (d) Co-ordinate the movement of personnel to the Post Evacuation Assembly Area.
 - (e) Brief Council's Waste Manager on the incident and provide an update of the action initiated to date.
9. The Chief Warden is to report the details of the event on an Incident Notification Report Form and refer to Council's Waste Manager.

Reviewed by:
Approved by:

Date:
Date:

Emergency Checklist for Chief Warden

Name of Chief Warden:			
Time at which potential emergency was raised:			
Location of potential emergency:			
Description of potential emergency:			
If Emergency is declared:			
Emergency declared		Time	
ALERT signal activated		Time	
If fire exists phone fire brigade on 000			
If other emergency exists phone relevant emergency authority on 000 ambulance police			
If site evacuation is necessary:			
Evacuation signal activated		Time	
Deputy/ Area Wardens report evacuation is complete:			
Area	Warden	Area Evacuated	Comments
* Made contact with emergency service		Time	

APPENDIX 26

Pollution Incident Reporting Safe Work Method Statement

Purpose and Scope

The purpose of this procedure is to define the pollution incident reporting requirements which are applicable to the operation of the Minimbah Waste Management Centre. A pollution incident is defined as 'material harm to the environment' as described in section 147 of the Act. Material harm includes on-site harm, as well as harm to the environment beyond the premises where the pollution incident occurred. A 'pollution incident' includes a leak, spill or escape of a substance, or circumstances in which material harm is likely to occur.

Note

There is a duty to report pollution incidents under section 148 of the Protection of the Environment Operations Act 1997 (POEO Act) in addition to EPL condition R2 which reads "The licensee or its employees must notify the EPA of incidents causing or threatening material harm to the environment as soon as practicable after the person becomes aware of the incident in accordance with the requirements of Part 5.7 of the Act. Notifications must be made by telephoning the Environment Line service on 131 555.

Note

Use Attachment A for general pollution incident reporting

Use Attachment B for leachate discharge/overflow reporting

Primary Environmental Goal – Preventing degradation of local amenity. Benchmark technique 36.

Procedure/Standard

1. If a pollution incident occurs, all necessary action should be taken to minimise the size and any adverse effects of the release as a first response. (sand bagging, application of spill kit, shutting off the source, construction of temporary bunds/dam) Guidance can be found by referring to the SOP within the facility's Pollution Incident Response Management Plan.
2. If the incident presents an immediate threat to human health or property, Fire and Rescue NSW, the NSW Police and the NSW Ambulance Service should be contacted for emergency assistance - phone 000.
3. At an appropriate time, either during or after an incident, the company staff member, supervisor or Council officer shall record the following;
 - Type and nature of the incident (what happened)
 - Notification source and details

- Details of the conversations that may ensue with staff, emergency services and authorities
 - Time events
 - Actions taken to mitigate the incident
 - Details of other actions during the course of the incident management
4. As soon as possible during or immediately following an incident notify the company supervisor or Council's responsible officer of the incident and provide an update of the action initiated. Council to notify the EPA by telephoning the Environment Line service on 131 555
 5. The company staff member, supervisor or Council officer is to report the details of the incident on a Pollution Incident Notification Form within 24 hours of the incident occurring and the report is to be referred to the responsible council officer for recording and reporting to the EPA.

1.1.1.4 Post Incident (see Appendix 30 – Post Incident Checklist)

Documentation of incident activities is of critical importance following the incident. All records and forms used during the incident to document activities must be retained for future reference.

Following an incident, the company supervisor or responsible Council officer, will have the responsibility for collecting all records and forms used during the incident. These will be used for several purposes, such as incident investigation, insurance claims and potential legal actions.

The company supervisor or responsible Council officer must, within 24 hours of being notified of a pollution incident, prepare a report documenting activities that took place during the incident.

The report of the company supervisor/ Council officer, and all related documentation, will be submitted to Council's responsible officer for review and necessary follow up actions.

Where there is potential for litigation in relation to the incident the company supervisor/ responsible Council officer shall prepare a written report for referral to the company's legal representative

Attachment:

- A Pollution Incident Report form
- B Leachate discharge Reporting Form

Benefit of Compliance to Procedure:

- Details of incident are readily available including information regarding incident response activities
- Demonstrated operational competency
- Meeting environmental goal

Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies

POLLUTION INCIDENT REPORT FORM (A)

Date of Incident:		Time of Incident:	
Nature of incident Eg: Fire, Chemical spill.			
Location of incident Where did it occur?			
Type and quantity of material involved			
Outline action initiated in response to incident			
Was it necessary to initiate the major incident notification protocol?			
Was the Community Notification and Communications Plan activated?			
Was action in accordance with SOP? If not - why?			
Is there a need to review SOP in response?			
Date and time of details provided to Team Leader, Waste - GTCC			
Name of Reporting Person			
Management Authorization.....			
Dated.....			

POLLUTION INCIDENT REPORT FORM (B)

Leachate Discharge

Date of Incident:		Time of Incident:	
Nature of incident Eg: de- leaching well overflow, leachate spring eruption.			
Details of person reporting or witnessing the leachate discharge or overflow			
Location of incident Where did it occur?			
Date and time of commencement of the discharge			
Assessed volume of discharge or overflow			
Period of time the discharge or overflow occurred			
Weather conditions at the time of the discharge or overflow.			
Daily rainfall in mm on the day of the discharge. Rainfall for the week prior to the discharge			
Most recent monitoring results of the chemical composition of the leachate.	Attach analytical results		
Explanation as to why and how the discharge occurred			
Plan of Action to prevent a similar discharge			
Name of Reporting Person			
Management Authorization.....			
Dated.....			

APPENDIX 27

EMP REPORTING CHECKLIST

Environmental Monitoring Plan

The following procedures define the protocol for undertaking site inspection and audits at the Minimbah Waste Management Centre with the aim of:

- minimising the likelihood of a pollution incident occurring
- identifying non-conformance with EPA licence conditions and to implement corrective actions where necessary
- identifying non-conformance with the Environmental Monitoring Plan (EMP) and the implementation of corrective actions

Auditing and Inspection Program – Overview		
Type of Audit	Frequency	Responsibility
Site Inspection	Daily, weekly, monthly, quarterly and after a rainfall event that causes significant run-off (>25mm event)	Site contractor and verified by Coordinator Waste Operations/Senior Waste Operations Officer
Site Audit	Quarterly, six monthly	Coordinator Waste Operations/Senior Waste Operations Officer
EMP Audit	Annual	Coordinator Waste Operations/Senior Waste Operations Officer

The inspection and auditing functions are to be undertaken in accordance with the following requirements:

(1) LandfillMinimbah Waste Management Centre
Site Inspection Checklist – Landfill

Date:						Inspected by:		
Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
Perimeter fence line secure and intact	Weekly	Week 1	Week 2	Week 3	Week 4			
Detention basins – empty and de-silted. Silt fences, erosion control etc intact and operational	Monthly/ After rain							
Site re-vegetation condition areas are in good condition – no exposed faces, erosion	Monthly							
Site vegetation control – slashing undertaken, no evidence of weed infestation	Monthly							
Leachate pumps operational. Service schedule being maintained and recorded	Daily	Week 1	Week 2	Week 3	Week 4			
De-leaching well sound – no leakage or discharge	Quarterly							
Leachate drainage lines, diversion berms and discharge lines in place, intact and secure	Monthly							

Intermediate cover applied to filled areas	Quarterly				
Final capping applied in accordance with the final landform design.	Quarterly				

(1) Landfill (continued)

Minimbah Waste Management Centre
Site Inspection Checklist – Landfill

Date: _____ **Inspected by:** _____

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
No evidence of erosion of the intermediate capping	Monthly / After rain							
No evidence of leachate eruption through the capped zone/landfill toe/batters	Monthly / After rain							
Tipping face being kept to minimum size and tipping platform suitable for discharge of waste material from all vehicle types	Weekly	Week 1	Week 2	Week 3	Week 4			
Waste placed in 300-400mm	Daily	Week 1	Week 2	Week 3	Week 4			

layers and the correct compaction pattern applied. Push distances minimised								
Daily cover put in place at the end of the days operation and exposed waste areas completely covered	Daily	Week 1	Week 2	Week 3	Week 4			
Stockpile of daily cover suitable for operations, volume sufficient for two weeks requirements and located for efficient use	Daily	Week 1	Week 2	Week 3	Week 4			
No evidence of litter eruption through the capped zone	Monthly							

(1) Landfill (continued)

Minimbah Waste Management Centre
Site Inspection Checklist – Landfill

Date: _____ **Inspected by:** _____

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
No evidence of litter beyond the active tipping area.	Weekly	Week 1	Week 2	Week 3	Week 4			
Condition and functionality of the stormwater infrastructure is sound.	Monthly / After rain							

No evidence of sedimentation downstream of the stormwater basins	Monthly / After rain							
Wheel wash operating satisfactorily. No evidence of soil tracking onto road surfaces.	Weekly/ After rain	Week 1	Week 2	Week 3	Week 4			
No signs of dust being generated around the perimeter of the site	Weekly	Week 1	Week 2	Week 3	Week 4			
Surface of hardstand areas intact/repairs or rectification required.	Monthly							
Odour not excessive	Weekly	Week 1	Week 2	Week 3	Week 4			

(1) Landfill (continued)

Minimbah Waste Management Centre
Site Inspection Checklist – Landfill

Date: _____ **Inspected by:** _____

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
Areas signposted as required	Weekly	Week 1	Week 2	Week 3	Week 4			
No evidence of feral animal activity	Quarterly							

Record of Incidents up to date	Daily	Week 1	Week 2	Week 3	Week 4			
No evidence of fly infestations at the tipping face	Weekly	Week 1	Week 2	Week 3	Week 4			

Confirmed by contractor's site supervisor

Satisfactory

Unsatisfactory

Verified by the Waste Management Coordinator

Date:

Satisfactory

Unsatisfactory

Feral Animal Inspection and Acknowledgement							
Animal	January	April	July	October	Presence Y/N	Action Taken	Comments
Feral Cats							
Rats/mice							

Dogs							
Foxes							

Confirmed by the contractor's site manager

Date:

Satisfactory

Unsatisfactory

Verified by the Team Leader Waste Operations

Satisfactory

Unsatisfactory

Date:

(2) Materials Stockpiling and Processing Area

Minimbah Waste Management Centre Site Inspection Checklist – Materials Stockpiling and Processing Area

Date:

Inspected by:

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
Hardstand areas, roads and unloading zone free of excessive, litter dirt and debris	Weekly/ After rain	Week 1	Week 2	Week 3	Week 4			
Adjacent stormwater infrastructure clear of debris, litter and sediment accumulations	Weekly/ After rain	Week 1	Week 2	Week 3	Week 4			
No evidence of vermin sightings/sound/droppings	Weekly	Week 1	Week 2	Week 3	Week 4			
Surface of hardstand areas intact (repairs or rectification works required)	Monthly/ After rain							
Good housekeeping – site tidy – weeds controlled, gardens intact, litter collected	Weekly	Week 1	Week 2	Week 3	Week 4			
Fire safety buffer zone maintained around stockpiles of	Weekly	Week 1	Week 2	Week 3	Week 4			

(2) Materials Stockpiling and Processing Area

Minimbah Waste Management Centre
 Site Inspection Checklist – Materials Stockpiling and Processing Area

Date:

Inspected by:

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
combustible materials and site boundaries, and in accordance with the Fire Management Plan.								
Record of incidents up to date	Daily	Week 1	Week 2	Week 3	Week 4			
Processing of stockpiled green waste is occurring routinely	Monthly							
Safety exclusion zones in place during materials processing/loading	When processing and loading							
Activities being contained within designated site area. Bulk mass of stockpiles being managed to prevent likelihood of spontaneous combustion.	Weekly	Week 1	Week 2	Week 3	Week 4			

(2) Materials Stockpiling and Processing Area

Minimbah Waste Management Centre
 Site Inspection Checklist – Materials Stockpiling and Processing Area

Date:

Inspected by:

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
Excessive odours not present	Weekly	Week 1	Week 2	Week 3	Week 4			
Excessive dust not occurring during processing/loading	When processing and loading							
First response equipment is readily available and intact. Fire equipment tags current	Weekly	Week 1	Week 2	Week 3	Week 4			
Contamination being controlled	Weekly	Week 1	Week 2	Week 3	Week 4			

(2) Materials Stockpiling and Processing Area

Minimbah Waste Management Centre
 Site Inspection Checklist – Materials Stockpiling and Processing Area

Date:

Inspected by:

Issue	Inspection Frequency and Acknowledgement		Satisfactory Y/N	Action Taken	Comments
Confirmed by the contractor's site manager	<input type="checkbox"/>	<input type="checkbox"/>			
Date:	Satisfactory	Unsatisfactory			
Verified by the Team Leader Waste Operations	<input type="checkbox"/>	<input type="checkbox"/>			
Date:	Satisfactory	Unsatisfactory			

(3) Weighbridge, Gatehouse and Machinery Shed

Minimbah Waste Management Centre
 Site Inspection Checklist –Weighbridge, Gatehouse and Machinery Shed

Date:

Inspected By:

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
Entrance and exit roads free of excessive dirt and debris. No accumulation of debris under the weighbridge structure	Weekly/ After rain	Week 1	Week 2	Week 3	Week 4			
Adjacent stormwater infrastructure clear of debris, litter and sediment accumulations	Weekly/ After rain	Week 1	Week 2	Week 3	Week 4			
Roadways and hardstand areas intact/repairs or rectification required	Monthly/ After rain							
Good housekeeping – site tidy – litter collected	Weekly	Week 1	Week 2	Week 3	Week 4			
Evidence of fuel/lubricant contamination/spillage. Hazardous materials (fuels, pesticides) stored securely and	Weekly	Week 1	Week 2	Week 3	Week 4			

bunded as appropriate. MSDS register up to date.								
Record of Incidents up to date	Daily	Week 1	Week 2	Week 3	Week 4			

(3) Weighbridge, Gatehouse and Machinery Shed

Minimbah Waste Management Centre
Site Inspection Checklist –Weighbridge, Gatehouse and Machinery Shed

Date: _____ Inspected by: _____

Issue	Inspection Frequency and Acknowledgement					Satisfactory Y/N	Action Taken	Comments
All signage and traffic control operating effectively. By pass road secured. Untarped area fit for purpose	Daily	Week 1	Week 2	Week 3	Week 4			
Septic tank inspected annually and is operational. No evidence of effluent at the absorption trenches/transpiration area.	Monthly							
Emergency spill kit, asbestos kit and sharps kit on site and fully stocked. Fire extinguishers	Weekly	Week 1	Week 2	Week 3	Week 4			

accessible and tags current								
Water management systems intact, including rain water tanks, downpipes, eaves guttering and sumps	Weekly or after a significant rain event	Week 1	Week 2	Week 3	Week 4			
Confirmed by the contractor's site manager			<input type="checkbox"/>	<input type="checkbox"/>				
Date:			Satisfactory	Unsatisfactory				
Verified by the Team Leader Waste Operations			<input type="checkbox"/>	<input type="checkbox"/>				
Date:			Satisfactory	Unsatisfactory				

Six Monthly Site Audit

Minimbah Waste Management Centre
Six Monthly Audit Checklist

Date:			Conducted by:		
Issue	Activity Frequency and Acknowledgement	Satisfactory Y/N	Action Taken	Comments	
Water quality monitoring undertaken (surface water, ground water and leachate)	Quarterly (or as prescribed in the EPL)				
Gas monitoring undertaken and evaluated	Annually				
Leachate management system intact and operational	Quarterly				
Intermediate cover applied to filled areas	Quarterly				
Final capping applied to final landform.	Quarterly				
Surveys undertaken to confirm final landform design is being achieved	Six Monthly				
Vermin – inspection undertaken	Quarterly				
Fire Safety Certificate inspection undertaken for all essential fire safety equipment onsite. Fire breaks being maintained. Conformity with the Bush Fire Management Plan	Annually				
Activities confined to appropriate activity areas	Quarterly				
Conditions of EPA licence for facility being met	Quarterly				
Volumetric surveys undertaken	Six Monthly				

Six Monthly Site Audit (continued)

Minimbah Waste Management Centre : Six Monthly Audit Checklist

Date:

Conducted by:

Issue	Activity Frequency and Acknowledgement	Satisfactory Y/N	Action Taken	Comments
Incident reporting –entries correct and complete	Six Monthly			
Register of weekly site inspections (EMP) – current and complete	Six Monthly			
Review of on-site procedures against EMP undertaken	Six Monthly			
SOPs provided by the site management contractor and understood by staff. Training up to date.	Six Monthly			
Annual inspection of sewerage infrastructure undertaken (corrective action initiated if required)	Annually			
Annual inspection of stormwater infrastructure undertaken (corrective action initiated if required)	Annually			
Review of incident reports and corrective actions	Six Monthly			
Review of dust and sediment control requirements	Quarterly			
Acoustic testing undertaken for licence conformity	Annually			
Weighbridge tested and verified.	Annually			
Weighbridge activities audited by independent third party	Six Monthly			

Verified by the Coordinator Waste Operations

Satisfactory

99
Unsatisfactory

Date:

Annual Environmental Management Plan Audit

Minimbah Waste Management Centre : Annual audit

Date:

Conducted by:

Issue	Activity Frequency and Acknowledgement	Satisfactory Y/N	Action Taken	Comments
Review of environmental monitoring records.	Annual			
Review of environmental management documentation including EMP, SOPs, registers and reporting	Annual			
Interview with staff site personnel, and lease/facility operators to ensure an understanding of the EMP requirements are satisfactory	Annual			
Review of non-conformance reports, weekly inspection checklist, six monthly audit.	Annual			
Identification and implementation of any improvements to the operation of the facility	Annual			
Annual water quality (surface water, ground water and leachate) and gas monitoring reports prepared. Trend information used in review of EMP	Annual			
PIRMP reviewed and updated as necessary. Annual test undertaken	Annual			
Annual Return prepared for EPA. Address any non conformance	Annual			

Verified by the Coordinator Waste Operations

100

Satisfactory

Unsatisfactory

Date:

Appendix 28

Site Services and Infrastructure Plan

Appendix 29

Communications Recipient Schedule

Affected Property	Name of Contact	Contact Details	Notes

**Appendix 30
Post Incident Check List**

Action	Responsibility	Completed Y/N Comments
Develop an Operations Recovery Plan	Waste Coordinator /Team Leader Waste Operations	
Investigate why the incident occurred and identify what measures can be undertaken to prevent a re-occurrence	Waste Coordinator /Team Leader Waste Operations	
Ensure all records and forms used during the incident have been prepared and collected	Waste Coordinator /Team Leader Waste Operations	
Prepare an incident report (Appendix 4) and present the report to Council's Waste Management Coordinator	Waste Coordinator /Team Leader Waste Operations	
Conduct a de-briefing with site staff about any hazards that may still remain on the facility property following the incident and to identify unsafe conditions that may still exist.	Waste Coordinator /Team Leader Waste Operations	
Undertake an assessment of damage that has occurred to the facility, the environment and equipment and arrange for remedial works to be implemented	Waste Coordinator /Team Leader Waste Operations	
Prepare a report documenting activities that took place during the pollution incident.(conditions R3 and R5 of the EPL)	Waste Coordinator /Coordinator Waste Operations	
Submit the report (above) to the EPA	Waste Coordinator/ Coordinator Waste Operations	
Review the incident and make recommendations to improve the effectiveness of the Pollution Incidence Response Management Plan and the facility procedures.	Waste Coordinator /Coordinator Waste Operations	
Evaluate the effectiveness of Council and contractor training plans	Waste Coordinator /Coordinator Waste Operations	
Undertake a review of the PIRMP with one month of the incident occurring	Waste Coordinator /Coordinator Waste Operations	
Distribute the updated version of the PIRMP and recover all redundant copies	Waste Coordinator /Coordinator Waste Operations	