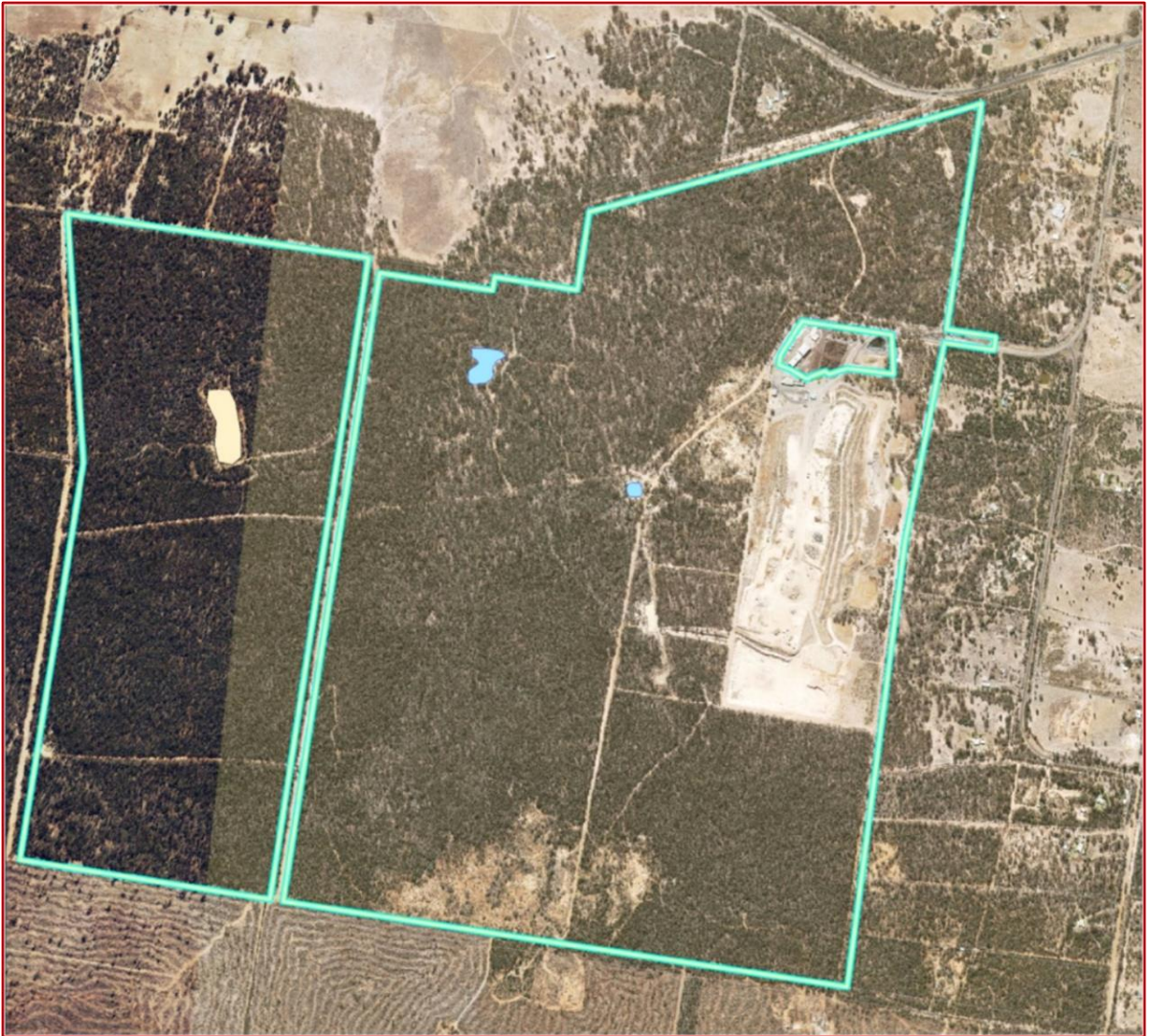


# **POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN**



**DUBBO REGIONAL COUNCIL**

## **WHYLANDRA WASTE & RECYCLING CENTRE**

**13 June 2024 – Revision 2.3**

## DOCUMENT REVISION HISTORY

REVISION	DATE	AUTHOR / REVIEWER	DETAILS
REVISION 2	19/05/20	LOGICUS Environmental Management / DRC	FULL document re-write. Revised format replaces previous document 'Version 4.0' dated 12/12/2017.
Revision 2.1	27/07/20	Resource Recovery Performance Coordinator	Recording PIRMP exercise details & minor
Revision 2.2	20/04/23	Resource Recovery Performance Coordinator	Updates to PIRMP
Revision 2.3	13/06/2024	Resource Recovery Performance Coordinator	Updates to PIRMP

## EXERCISE / TESTING HISTORY

DATE	FACILITATED BY	SUMMARY OF EXERCISE OUTCOMES
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27 May 2021	Manager Resource Recovery & Efficiency	PIRMP exercise
9 June 2022	Manager Resource Recovery & Efficiency	PIRMP exercise
14 June 2024	Manager Resource Recovery & Efficiency	PIRMP exercise

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# 1. ADMINISTRATION

## 1.1 PURPOSE

Industry is required to 'immediately' report pollution incidents to the EPA, NSW Health, Fire & Rescue NSW, SafeWork NSW and the Local Council.

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

The purpose of this PIRMP is to assist employees and management of the **Whylandra Waste & Recycling Centre** to identify the potential risk of a pollution incident occurring, introduce measures to mitigate that risk AND to provide guidance in making quality decisions, should a pollution incident occur, with the aim to prevent 'material harm to the environment'.

## 1.2 OBJECTIVE & SCOPE

It is the intent, of **Dubbo Regional Council (DRC)**, to prevent all foreseeable pollution incidents that might impact on the environment and the safety of employees, facility users & neighbours, through the implementation of standard operational procedures, undertaking routine site activity inspections, regular training of personnel in the implementation of operational procedures and through emphasising & supporting proactive incident prevention reporting.

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

- reduce the likelihood of a pollution incident occurring at the facility through identification of risks and the development of planned actions to minimise 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, SafeWork NSW, and Fire & Rescue NSW) and people outside the facility who may be affected by the impacts of the pollution incident.
- ensure that the PIRMP is properly implemented by trained staff, identifying persons responsible for implementation, and ensuring that the PIRMP 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 PIRMP 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 PIRMP also includes provisions for record keeping, testing, reporting and document revision.

### **1.3 LEGISLATIVE CONTEXT**

The specific requirements for PIRMPs are set out in Part 5.7A of the POEO Act and the Protection of the Environment Operations (General) Regulation 2009 (POEO (G) Regulation 2). In summary, this provision requires the following:

- All holders of environment protection licences 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 & MEANINGS**

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

#### **1.4.1 Pollution Incident**

The definition of a pollution incident is:

*‘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 Immediate Reporting Requirement**

Industry is required to report pollution incidents 'immediately' to the EPA, NSW Health, Fire & Rescue NSW, SafeWork NSW and the Local Council.

'Immediately' has its ordinary dictionary meaning of promptly and without delay.

## **1.5 FACILITY COVERED BY THIS PIRMP**

The operation of the **Whylandra Waste & Recycling Centre (EPA Licence L6058)** is covered by this PIRMP.

## **1.6 PIRMP DISTRIBUTION**

A **copy of this PIRMP 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 any Authorised Officer on request.

The master copy of this PIRMP is to be maintained by the **Manager – Resource Recovery & Efficiency (DRC)** who will be responsible for revisions of the PIRMP and for the distribution of revised copies to the above-mentioned persons and locations.

## 1.7 PIRMP REVIEW

The PIRMP is to be reviewed annually by the **Manager – Resource Recovery & Efficiency (DRC)** in conjunction with relevant Council staff including the **Waste Coordinator - West (DRC)**.

When revisions are made to the PIRMP, 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, (**Appendix 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 PIRMP assigned to that party has been updated. This form is to then be retained on file by the **Manager – Resource Recovery & Efficiency (DRC)**.

## 1.8 PIRMP TRAINING

To ensure that this PIRMP is properly followed in the event of a pollution incident, training programs shall be provided to relevant **Council Employees**. The objectives of the training program shall be as follows:

- a) *To ensure that **Council Employees** are knowledgeable of their roles and responsibilities concerning this PIRMP.*
- b) *To ensure that **Council Employees** are knowledgeable of the PIRMP's procedures to affect a safe and appropriate response to pollution incidents.*

**Council Employees** will receive training in the PIRMP appropriate to the level of their expected involvement.

The following is the general training program which is to be implemented in support of this PIRMP:

### 1.8.1 Training Frequency

**Council employees** working at the facility will receive training during initial employment orientation / induction and ***refresher training at least annually***.

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

### 1.8.2 Training Level

All **Council employees** will receive training in the general PIRMP procedures and Standard Operating Procedures related to the PIRMP.

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**

The **Waste Coordinator - West (DRC)** will receive additional training, beyond that received by Council employees or other site personnel, dealing with actions that are necessary to provide for the safety of employees, facility users and ancillary site operators, 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** relevant to this PIRMP are provided in **Appendix 2**

## **1.9 PIRMP DRILLS & EXERCISES**

To ensure that this PIRMP will meet current conditions and that all involved individuals will respond appropriately, the PIRMP 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 PIRMP procedures.

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

The **Manager – Resource Recovery & Efficiency (DRC)** will ensure a Pollution Incident Action Plan Exercise Evaluation Form (**Appendix 3**) OR similar detailed report (where an external facilitator is used) is prepared and reviewed. A summary record of exercises / tests will also be recorded within the PIRMP.

## **1.10 FORM OF PIRMP**

As the purpose of this PIRMP is to mitigate the likelihood and to improve the management of pollution incidents and facilitate better coordination with the relevant response agencies, this PIRMP must be provided in written form, be available at the subject premises, be able to be provided to an authorised EPA officer on request and available to any person who is responsible for implementing the PIRMP.

## **1.11 RELATIONSHIP WITH OTHER EMERGENCY & INCIDENT RESPONSE PLANS**

This PIRMP can function as a standalone document, the implementation of which is required to be undertaken to mitigate risk of a pollution incident but also to respond to a likely pollution incident where there is a potential of 'material harm to the environment'.

If other plans, procedures and protocols provide for enhanced or ancillary complementary actions then they may and should be implemented concurrently.

## 2. FACILITY DETAILS

### 2.1 LOCATION

NAME OF THE FACILITY:	<b>WHYLANDRA WASTE &amp; RECYCLING CENTRE</b> (aka. 'Whylandra Waste Disposal Depot' - per EPL)
ADDRESS:	COOBA ROAD, DUBBO, NSW, 2830
PROPERTY DESCRIPTION:	LOT 101 DP1234112
OWNER:	DUBBO REGIONAL COUNCIL

***Figure 1 – Location Map:***



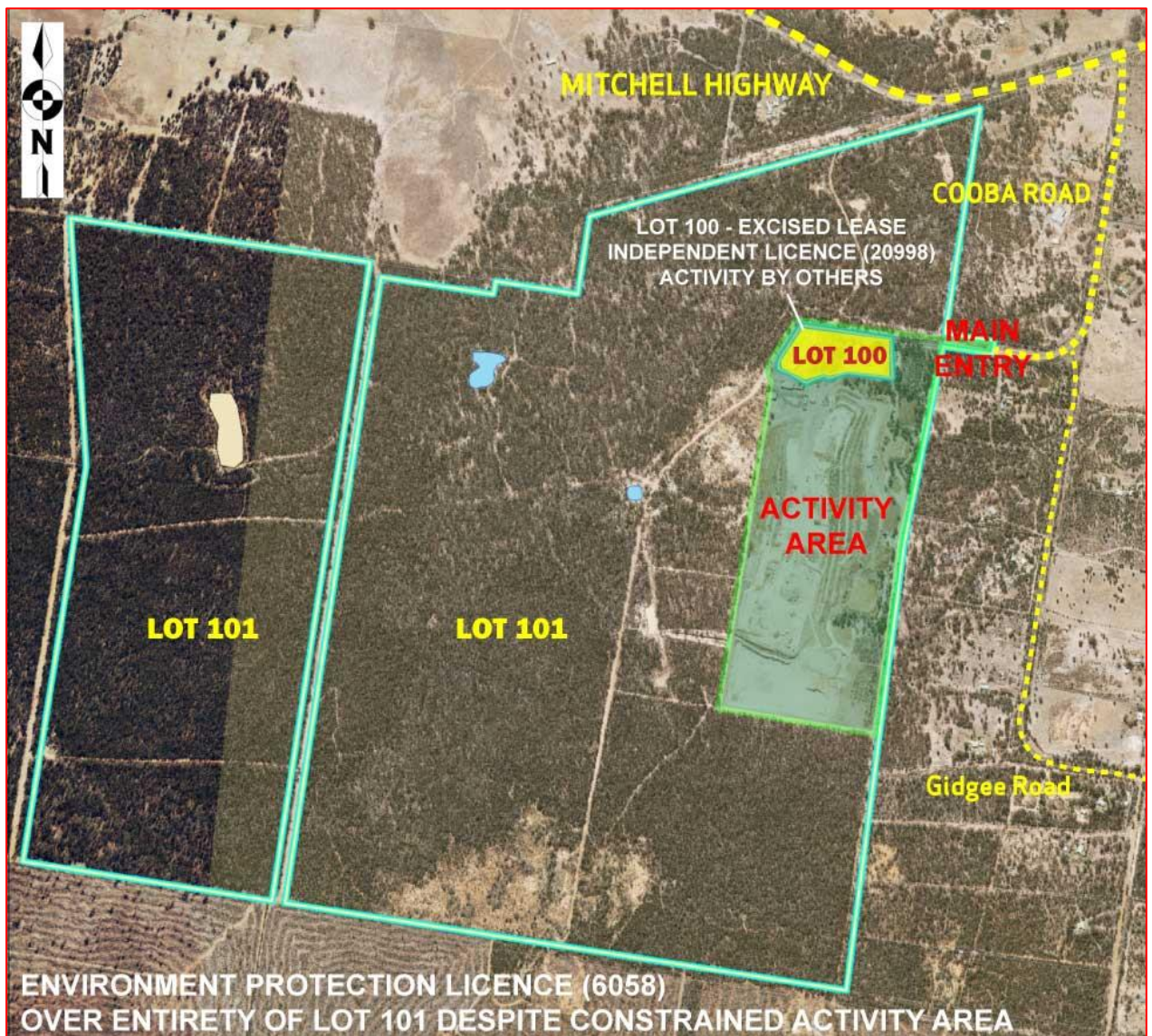
**SITE ACCESS:** The **Whylandra Waste & Recycling Centre** is located ~12 kilometres north west of the Dubbo township centre and is accessed off the Mitchell Highway along **Cooba Road**. Lockable security fencing / gates are situated to the east of a weighbridge / gatehouse which itself acts as the primary site access control point during public operational hours. The site is open to the public between **8 am to 5 pm Monday to Friday and 9.00 am to 5.00 pm Saturdays and Sundays AND closed Good Friday and Christmas Day**.

Access is shown in the **Site Services & Infrastructure Plans (Appendix 32)** and as 'Main Entry' on **Figure 2 - General Site Layout**. There are no specific 'alternate access' points defined for the site.

**NOTE:** The Dubbo Region Organics Processing Plant (DROPP) is located on LOT 100 which site within the boundaries of the **Whylandra Waste & Recycling Centre**. The DROPP is separately licenced and operated. (i.e. a separate PIRMP is in place which is administered by others). 'Joint' responses are initiated if incidents may / will occur in 'shared' infrastructure (e.g. roads / drains).



**Figure 2 – General Site Layout:**



- SITE USAGE:** Site usage / operations / disturbances are *generally* constrained within a small portion of LOT 101 only. This is shown as 'ACTIVITY AREA' on **Figure 2 - General Site Layout**. The 'ACTIVITY AREA' is fully fenced with fire breaks / access roads (internal and external of the area) installed, including some in the remainder of LOT 101.
- VEGETATION:** The vegetation surrounding LOT 101 is primarily cleared pasture / grassland and/or dry woodland. A remnant vegetation 'screen' exists along the eastern boundary where rural residential blocks border the facility. These properties exhibit dry woodland remnants (eucalypts, acacias, melaleucas etc.) as the principle vegetation type.
- TOPOGRAPHY:** The original topography of the site has been disrupted with the 'ACTIVITY AREA' consuming a 'high point' for the local area - running north-south. Outside of the ACTIVITY AREA, the original landforms are undisturbed for the most part, with land sloping to the west / northwest and to the east, with grades generally ranging between 2 -5%

## 2.2 FACILITY DESCRIPTION

### 2.2.1 Site Activities

The **Whylandra Waste & Recycling Centre** ('the Facility') operates as a General Solid Waste (Putrescible) Landfill, under an Environment Protection Licence (EPL) '**L6058**' issued by the NSW EPA.

The Facility serves as the principal landfill operated by **Dubbo Regional Council** and receives the majority of waste material generated within the Local Government Area and is also the receival point for all general waste from 'feeder' transfer stations located at Stuart Town, Geurie, Eumungerie, Ballimore and Toongi. Since amalgamation with the former Wellington Shire Council (circa 2016), much of the waste material produced within that region is also received.

#### 1. **Weighbridge / Gatehouse:**

The Weighbridge / Gatehouse is essentially the control point for incoming wastes and is where loads are initially examined, assessed, weighed AND where fees are applied. It is also where initially instructions are given for waste deposition AND advice pertaining to any 'rejected loads'.

Trained staff are stationed at this location at all times that the site is open to the public, to ensure only approved waste types are accepted, in turn meeting EPL obligations.

#### 2. **Small Vehicle Receival Centre:**

All permitted small vehicles are directed to the Small Vehicle Receival Centre (SVRC) which is essentially a waste transfer station / resource recovery area.

Residual waste is deposited into a waste push pit located in the SVRC roofed structure, where it is loaded into a transfer bin and taken to the **Active Landfill Area** for end disposal.

Large **Rain Water Tanks** are connected to the roofed buildings / structures and most are fitted with 65mm storz connections to enable emergency services to draw water from these for firefighting purposed if required.

*Note: SVRC is a general term used to describe both a specific building on the site AND the general 'front -end' / public disposal area of the site collectively.*

*Additionally, DRC staff are reported to undertake contaminant assessment and removal from self haul organics materials that are taken by site users, directly to a deposition area in the DROPP. (South west corner of LOT 100).*

*Incident identification / response pertaining to this function/ area remains in line with DRC's procedures.*

*Other structures / operational activities undertaken in the SVRC area are explained as follows:*

- **SVRC Bunkers**

Recyclable and recoverable materials can be deposited at designated drop off locations within a series of roofed 'bunkers'. These bunkers can be used to contain materials such as Brick & Concrete, Metal and other materials that are later transferred to larger waste stockpiles elsewhere on the site. A fully 'bunded' bunker is available for storage of suitable liquids (if necessary).

- **'Spotter's Hut'**

Small self-contained amenity building to accommodate staff charged with supervision of the SVRC area generally. Basic facilities provided (lunch room style) and is connected to an adjacent **Septic Tank**.

- **Tyre Cage / Stockpile**

Waste tyres are placed onto a hardstand area / cage, prior to removal (off-site) for reprocessing.

- **E-Waste**

A number of 'cages' / bins are provided for the storage of e-waste items, prior to removal (off-site) for reprocessing.

- **Oil (Motor)**

A self bunded oil tank unit is provided for the temporary storage of motor oil prior to removal (off-site) by a licenced recovery processor.

- **drumMuster**

A fenced compound for the temporary storage of containers that are eligible for inclusion and have been inspected under the terms of the national 'drumMuster' takeback scheme. These drums are removed (off-site) for reprocessing by a contractor supplied as part of the scheme administration.

- **Community Recycling Centre (CRC)**

A sheet metal shed style building featuring roller door access along the 'front' wall, serves as a drop-off area for household hazardous items. Separate receptacles are provided inside the main shed for:

- Oil Based Paints
- Water Based Paints
- Household dry cell batteries
- Wet Cell (vehicle type) batteries
- Smoke Detectors
- Other Oils (non motor / lubricant oils)
- Fluorescent tubes and globes

Directly adjacent to the CRC shed are drop off receptacles for pressure cylinders (**GAS**) including:

- Gas Cylinders (Cages)

*Note: An additional **GAS** cylinder drop off cage is located to the east of the CRC the general SVRC hardstand area; AND*

- Fire Extinguishers

‘By-catch’ cabinets are also provided inside the CRC shed. These are for storage of non-target hazardous materials. Five (5) individual cabinets are provided, behind a gated fence, for specific Dangerous Goods (DG) including:

1. Flammable (DG Class 3)
2. Toxic (DG Class 6.1)
3. Corrosive (DG Class 8 – Acids)
4. Corrosive (DG Class 8 – Alkalis)
5. Oxidising (DG Class 5.1)

An Expanded Polystyrene (EPS) reduction unit, **connected to an electrical supply** is also installed within the shed.

- **Primary Detention / Leachate Detention Structures (ponds, dams, wells)**

Runoff from the general SVRC pavements is directed to a primary detention structure situated between the SVRC and the DROPP.

Similar detention structures (>9 ponds, dams etc) exist throughout the wider ‘ACTIVITY AREA’ of the site. For the most part, ‘quality’ of the content of the ponds is considered at the discharge locations (i.e. where flows would exit LOT 101) where detailed in the EPL.

- **Site Office / Workshop**

A combined site office and workshop building exists which comprises office / amenities for staff AND storage / maintenance area for plant and site equipment. An **Oil Interceptor** unit is fitted on the western wall (external) to remove oil waste from parts / washing that occurs in the workshop.

- **Wash Bay**

A concrete wash bay is constructed adjacent to the southern wall of the Site Office / Workshop and run-off directed to the **Wash Bay Collection Tank**. Also provided is a **Fuel Tank / Dispensing Pump** (Diesel) on the northwest corner of the wash bay. This unit is connected to an electrical supply for pumping.

- **Defibrillator:** Defibrillator is kept on Whylandra waste and recycling facility at the main site office to help reduction of response time and improve the chances of survival for someone suffering from sudden cardiac arrest. The only way to restore a normal heart rhythm in VF is with an electric shock from AED.

- **Sheds (Old)**



A shed structure exists to the west of the Site Office in which ancillary storage is occurring. Potential pollutants and risk items shall be removed, and the sheds essentially will remain unused (in a poor state of repair). Directly adjacent to the northwest corner of the sheds is a **Bore Water Tank** (supply for ancillary site use). This tank is not suited as a firefighting supply (small / not fitted with 65mm storz connections).

### **3. Active Landfill Area:**

Larger commercial loads of waste material are sent from the weighbridge directly to the Active Landfill Area (which progressively moves over time).

Waste deposition, placement, compaction & cover activities, are controlled by one or more on-site plant operators. Principal items of plant are a Tana Hx320 Landfill Compactor and a Caterpillar 950H front end-loader.

The equipment serves to provide for the burial of waste materials including General Solid Waste (Putrescible / non-putrescible), Commercial & Industrial Waste, Construction & Demolition Waste, Asbestos & Dead Animals (as examples).

*Note: A separate **Asbestos Disposal 'cell'**, within the Active Landfill Area, is provided for burial of Asbestos Containing Materials (ACM).*

To ensure the **Active Landfill Area** is kept to a minimum size with all waste (excluding asbestos – which is managed using special burial requirements in the location mentioned previously), is spread and compacted progressively as it is received.

Environment Protection Licence (EPL) provision requires waste to be covered at least once per week. This does not preclude additional cover placement being undertaken should minimising pollution risks due to site conditions and / or waste types received actually dictate.

De-leaching well/s and leachate interceptor drains have been installed along the toes of the existing batters where the landfill is currently advancing. This represents the only leachate management structures across the site. Additional leachate lines are proposed in future sections of the landfill and will connect to the existing de-leaching well.

*Note: Much of the previously landfilled area of the site has been reported to have had 300mm of intermediate cover applied and steeper side batters treated with shredded timber / pallet wastes to control surface water run-off (erosion and sedimentation risks).*

Within the Active Landfill Area are also a number of separated waste material stockpiles. These include:

- **Scrap Metals Stockpile**
- **Organics / Timber / Wood waste Stockpiles**

- **Concrete / Brick Stockpile**
- **Mattress Stockpile**

Service contracts ensure these materials are processed (shredded / crushed / removed) routinely to ensure stockpiles are maintained at minimum sizes. A 'buffer zone' is kept around each stockpile for contamination reduction, general visibility and as separation zone in the event of a fire. Site management protocols also require dust and litter controls to be in place for the areas surrounding these stockpiles.

*Note: Within the Active Landfill Area / ACTIVITY AREA, a network of **Landfill Gas (Methane) Collection** infrastructure exists. (Pipes, header units and a Landfill Gas Flare station). These are operated and maintained by a third-party and have separated emergency response protocols in place. Incident identification and reporting by DRC staff remains in line with DRC procedures if / when circumstances arise for this infrastructure. The Collection data is supplied by the third-party contractor on a monthly basis.*

#### **4. Cover / Soil Excavation Area:**

Cover / Soil Excavation Area provides operational cover material (generally termed 'daily' or 'intermediate' cover), with the excavation void space likely to be used for future waste placement. The excavations and waste placement are being undertaken in line with "draft" plans prepared in 2011 by consultant Geolyse entitled "Cell 2 Quarry Excavation and Landfill Plans".

It should be noted that this area includes a large surface / rainwater collection area that is well below ground level and as such, run-off / overtopping to surrounding land is quite unlikely.

There is a leachate collection / detention structure (de-leaching well and leachate containment pond) in the north west of the area which is separated from the general excavation area contained 'surface water'.

#### **5. Dubbo Region Organics Processing Plant (DROPP)**

The Facility also accommodates, within a separate leased land parcel (LOT 100) an **ancillary, privately managed composting operation**.

J.R. Richards & Sons operate this ancillary organics processing facility which is based on aerobic tunnel composting where temperature and moisture are controlled to accelerate production.

The facility has its own leachate management system where much of the leachate is reticulated as part of the composting process together with a bio filter for the control of odours AND importantly, its own PIRMP.

*NOTE: This PIRMP does not attempt to specifically address risks or hazards emanating from the ancillary, separately managed operation. This PIRMP does include communication with the operators in the event of a pollution incident / evacuation from the **Whylandra Waste & Recycling Centre** and a reasonable expectation of notification where any 'overlap' of responsibility for incident response may exist. Likewise, DRC reasonably expects that the ancillary facility PIRMP contains similar recognition of these arrangements.*

### **2.2.2 Site Plan**

The **Site Services and Infrastructure Plans** include a number of maps and imagery showing the overall site arrangement, activity areas, the locations of incident response equipment together with identification of the sources of potential pollutants and stormwater flow paths through the site, among other pertinent information.

The detailed **Site Services and Infrastructure Plans** and relevant maps can be located as **Appendix 32** of this document.

### 3. POLLUTION INCIDENT PREVENTION & PREPAREDNESS

#### 1.1 PREVENTION AS AN INCIDENT RESPONSE

**DRC** 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 are instructed, as part of their site inductions and ongoing training, 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 above are provided as follows:

**Table 1 – Summary of Pre-emptive Actions:**

POTENTIAL HAZARD	PRE-EMPTIVE ACTION
<ul style="list-style-type: none"> <li>Leachate storage overflow caused by excessive inflow of storm water (subsurface de-leaching well / dams etc).</li> <li>Leachate pump, line, dam or well failure.</li> <li>Leachate spring eruption.</li> <li>Sedimentation dam failure / overflow / excessive discharge.</li> <li>Ground water contamination.</li> <li>Fire at tip face or waste storage areas</li> <li>Fire in incoming load or transfer bin.</li> <li>Fire in material stockpile / storage / buildings</li> <li>Chemical, Oil / Fuel spills.</li> <li>Failure of hazardous material containment, cabinet, tank or bund.</li> <li>Windblown litter.</li> <li>Odour.</li> <li>Dust (including Asbestos).</li> <li>Explosion of gas cylinders.</li> <li>Landfill Gas.</li> <li>Ozone depleting gas release (from refrigeration item waste)</li> </ul>	<p>Undertaking routine inspections in accordance with the Environmental Checklists <b>(Appendix 31)</b></p> <p>Responding in accordance with Standard Operating Procedures (SOPs) <b>(Appendices 6 to 29)</b></p>

## 1.2 REGISTER OF POTENTIAL POLLUTANTS

The maximum quantities of potential pollutants deposited by site users OR used by staff in carrying out activities at the premises that are likely to be stored at specific locations on-site, are summarised as:

ID	POLLUTANT LOCATION IDENTIFICATION	POLLUTANT TYPE/ SUBSTANCE	FORM (Solid, Liquid, Gas etc)	QUANTITY	CONTAINMENT TYPE	SDS
SVRC	Small Vehicle Reveal Centre	General Waste	Solid	<20m3 (exposed)	Bunker / Hardstand	N/A
	Small Vehicle Reveal Centre	Greenwaste / Organics	Solid	<20m3 (exposed)	Bunker	N/A
	Small Vehicle Reveal Centre	Scrap Metals	Solid	<20m3 (exposed)	Bunker	N/A
	Small Vehicle Reveal Centre	Concrete / Brick	Solid	<20m3 (exposed)	Bunker	N/A
	Small Vehicle Reveal Centre	Petrol / Oil	Liquid	<40L	Jerry Can / Drum	*
	Small Vehicle Reveal Centre	Herbicides / Pesticides (mix)	Liquid	<10L	Domestic Packaging	*
SVRC-B	Small Vehicle Reveal Centre - Bunkers	Batteries - Wet Cell (Car)	Solid	<50	Bunded Bunker	N/A
A	Surface Water / Leachate Pond (Disposal Area Runoff)	Sediment / Leachate (Mix)	Liquid	0.8ML	Earthen Dam	N/A
SHST	Spotter's Hut Septic Tank	Septic Wastes / Wastewater	Liquid	<2000L	Concrete Tank (Subsurface)	N/A
OIL	Bunded Oil Tank	Motor Oil	Liquid	< 5000L	Self bunded Oil Storage Unit	N/A
DM	drumMuster Yard	Herbicides / Pesticides Drums (Rinsed)	Solid	<1000	Hardstand (fenced)	N/A
CRC	Community Recycling Centre	Herbicides / Pesticides	Solid / Liquid	< 100 litres	Lined stillage/s	N/A
	Community Recycling Centre	Batteries - Wet Cell (Car)	Solid	< 200 (lead acid)	Bunded Pallet	N/A
	Community Recycling Centre	Batteries - Dry Cell (Household)	Solid	<20kgs (dry cell or detectors)	Bucket	N/A
	Community Recycling Centre	Smoke Detectors	Solid	<20kgs (dry cell or detectors)	Bucket	N/A
	Community Recycling Centre	Globes	Solid	<500 globes / tubes	Pallet Box	N/A
	Community Recycling Centre	Refrigerant items	Gas	Up to 50 fridge / freezer / air- cons	Hardstand	N/A
	Community Recycling Centre	Other Oils	Liquid	<500 litres	Lined stillage/s	N/A
	Community Recycling Centre	1. Flammable (DG Class 3) 2. Toxic (DG Class 6.1) 3. Corrosive (DG Class 8 – Acids) 4. Corrosive (DG Class 8 – Alkalies) 5. Oxidising (DG Class 5.1)	Solid / Liquid	<1000kg / L	HAZCHEM BY-CATCH CUPBOARDS (x5)	N/A
SO-W	Site Office - Workshop	Motor Oil	Liquid	<100L	Drum	*
	Site Office - Workshop	Motor Oil / Grease	Solid	<100L	Drum	*
	Site Office - Workshop	Herbicides / Pesticides (mix)	Liquid	<60L	Drum	*
INT	Oil Interceptor (External Wall of SO-W)	Oily Water	Liquid	<100L		
FUEL	Diesel Tank / Dispensing Pump	Diesel	Liquid	<5000L	Self bunded Fuel Storage Unit	*
WB	Wash Bay	Petrol / Oil	Liquid	<40L	Jerry Can / Drum	*
WBST	Wash Bay Collection Tank	Wastewater / Oily water	Liquid	<2000L	Concrete Tank (Subsurface)	N/A
GAS	Gas Cylinder Storage	Gas cylinders / Extinguishers	Solid	< 300 units	Cages	N/A
EW	E-Waste Storage	e-Waste	Solid	<50m3	Cages	N/A
TY	Tyre Storage	Tyres	Solid	<500 units / <50 tonnes	Cage / Hardstand	N/A
	Active Landfill Area	General Waste	Solid	~100 tonnes (exposed)	Landfill Cell	N/A
	Active Landfill Area	Greenwaste (+ Timber, Wood etc)	Solid	<10,000m <sup>3</sup>	Hardstand	N/A
	Active Landfill Area	Concrete / Brick	Solid	<10,000m <sup>3</sup>	Hardstand	N/A
	Active Landfill Area	Scrap Metals	Solid	<10,000m <sup>3</sup>	Hardstand	N/A
	ACTIVITY AREA / Active Landfill Area	Sediment	Solid / Liquid	~ 24 ML total capacity	Earthen Dam	N/A
	ACTIVITY AREA / Active Landfill Area	Leachate	Liquid	~3ML total capacity / surface / sub- surface well	Earthen Dam / Concrete Well / Drain / Pipe	N/A
	ACTIVITY AREA / Active Landfill Area	Asbestos*	Solid	Incidental amounts	N/A	N/A
	ACTIVITY AREA / Active Landfill Area	Landfill Gas*	Gas	Not quantified	Uncontained	N/A

**Table 2 – Summary of Potential Pollutants**

*\*Note: Asbestos that is identified in areas where it is not permitted to be disposed (i.e. co-mingled with other materials) and landfill gas passive venting from landfill – therefore locations not shown on maps.*

Site Services and Infrastructure Plans showing key pollutant locations is provided in **Appendix 32**

### 1.3 NATURE AND LIKELIHOOD OF POLLUTION INCIDENTS

Notwithstanding **DRC'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 / storages.
- Explosion of gas bottles, landfill gas (methane) or refrigerant gas emissions.
- Spill of chemical, fuels, oils or other hazardous material.
- Leachate discharge off site (surface water / lands) or into groundwater.
- Sediment laden water discharges offsite.
- Litter, odour or dust.

Having regard to the nature of the operations of the **Whylandra Waste & Recycling Centre**, 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 has been utilised.

#### 1.3.1 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 – Incident Likelihood Descriptions**

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.



### 1.3.2 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 – Incident Consequence Descriptions:**

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	Severe	Major environmental impact which may be irreversible

### 1.3.3 Risk Evaluation

Individual evaluation of the management priority for each potential pollution incident using the risk priority matrix presented in the following figure.

**Figure 3 – Risk Evaluation Matrix:**

Likelihood	Consequences				
	Insignificant	Minor	Moderate	Major	Severe
Almost certain	M	H	H	E	E
Likely	M	M	H	H	E
Possible	L	M	M	H	E
Unlikely	L	M	M	M	H
Rare	L	L	M	M	H

RATING	DEFINITION
LOW	Review consequence and likelihood and manage through routine procedures
MOD	Ensure management system controls risk and managerial responsibility is defined.
HIGH	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.
EXTREME	Risk must be reduced or eliminated. If the risk cannot be reduced from “Extreme”, then management must provide continuing assurance that due diligence systems are in place so that appropriate management can be demonstrated.

For the purposes of this PIRMP:

- EXTREME risks and HIGH risks will be eliminated or managed.
- MODERATE risks will be monitored.
- LOW risks will be accepted.

The Residual risk has been shown by measuring the inherent risk against the assessed effectiveness of the controls.

The outcomes of the risk assessment together with the relevant incident control/management action are summarised in Table 5 following:

**Table 5 – Risk Identification & Management Plan**

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
<b>1. ENVIRONMENTAL</b> <b>(a) Leachate Discharge (Off Site)</b>	Leachate dam / well overflow	Leachate contamination of adjacent land and / or waterways	Possible/ Major (HIGH)	Routine inspections  Surface water monitoring of down gradient points	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Major (MODERATE)	SOP Appendix 6	SOP within the PIRMP
	Leachate pump breakdown or pipeline failure	Leachate contamination of adjacent land and / or waterways	Possible/ Major (HIGH)	Routine inspections.  Scheduled maintenance servicing of pump and pump connections  Standby pump and service parts available  Surface water monitoring	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Major (MODERATE)	SOP Appendix 7	SOP 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 (HIGH)	Routine inspection to ensure suitable management procedures, including bund separation at active tipping area	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Major (MODERATE)	SOP Appendix 8 SOP Appendix 9	SOP within the PIRMP
	Leachate dam or holding tank / structure rupture	Leachate contamination of adjacent land and / or waterways	Possible/ Major (HIGH)	Routine inspections	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Major (MODERATE)	SOP Appendix 11	SOP within the PIRMP

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
	Leachate seepage from landfill operations into water table	Leachate migration and possible contamination of water table	Possible/ Major (HIGH)	Monitoring of ground bores to detect leachate migration	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Major (MODERATE)	SOP Appendix 11 & 12	SOP 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 (HIGH)	Routine inspections	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 9 & 10	SOP within the PIRMP
<b>(b) Sediment</b>	Uncontrolled release from site / excessive PPM released. No EPL criteria – 50ppm Environmental Guidelines: Solid Waste Landfills, 2nd Edition 2016)	Sediment contamination of the adjacent land and / or waterways	Possible/ MODERATE (MODERATE)	Routine inspections, contained water detention treatment, sediment and erosion management & site re-vegetation	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 9 & 10	SOP within the PIRMP

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
<b>(c) Combustion</b>	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 inspections	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 13	SOP within the PIRMP
	Green waste stockpile ignition	Combustion creates smoke and fire hazard	Possible/ Moderate (MODERATE)	Routine inspections to ensure stockpile size management and maintenance of buffer zones	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 14	SOP within the PIRMP
	Fire in waste transfer bins	Combustion creates smoke and fire hazard	Possible/ Moderate (MODERATE)	Inspection of all incoming loads  Bin lids to be closed at end of day (if fitted)	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 15	SOP 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  Site secured at close of day	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 16	SOP 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 and tipping area supervision	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 17	SOP within the PIRMP

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
<b>(d) Chemical Spills</b>	Chemical spill from ruptured or leaking storage containers	Soil contamination Creation of volatile fumes Explosion/fire Contamination of adjacent land and / or waterways	Possible/ Major (HIGH)	Retain minimum quantities on site and ensure routine servicing collection of temporary storages / stillages  Separation areas between stored chemicals  Roofed / lidded storages used  Use approved chemical safes / lockers for storage of HAZCHEM	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 18, 19 & 29	SOP within the PIRMP
	Incompatible or incorrect chemical storage	Explosion / fire	Possible/ Major (HIGH)	Retain minimum quantities on site and ensure routine servicing collection of temporary storages / stillages  Separation areas between stored chemicals particularly in the Community Recycling Centre AND Secure Compound Yard  Sealed storage areas / use of self bunded storages  Use approved chemical safes / lockers for storage of HAZCHEM	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 18, 19 & 29	SOP within the PIRMP



POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
	Leakage from incoming loads	Soil contamination Explosion/fire Contamination of adjacent land and/or waterways	Possible/ Major (HIGH)	Inspection of all incoming loads AND CCTV installed to monitor deposition areas from weighbridge.	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 20 & 29	SOP within the PIRMP
<b>(e) Oil / Fuel Spills</b>	Failure of fuel containers or storage tanks	Soil contamination Explosion/fire Contamination of adjacent land and / or waterways Creation of volatile fumes	Possible/ Major (HIGH)	Retain minimum quantities on site and ensure routine servicing collection of temporary storages / stillages  Creation of bunded storage areas	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 21	SOP within the PIRMP
	Failure of mobile plant hydraulic lines	Soil contamination Fire  Contamination of adjacent land and/or waterways	Possible/ Major (HIGH)	Staff training in waste placement and compaction techniques. Routine plant inspection and servicing.	Staff training and recording	Rare/Moderate (MODERATE)	SOP Appendix 21	SOP within the PIRMP

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
<b>(f) Dust (Soils &amp; Wastes)</b>	Dust migrating off site	Complaints to EPA / SafeWork NSW	Possible/ Moderate (MODERATE)	Wet down unsealed trafficable areas  Use shredded green waste on exposed areas of cover material  Revegetation of completed areas  Asbestos waste policy and education + tipping handling area	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Minor (LOW)	SOP Appendix 22  SOP Appendix 23	SOP within the PIRMP
<b>(g) Odour</b>	Offensive odour	Complaints to EPA	Possible/ Moderate (MODERATE)	Provide daily cover to active tipping area	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/Minor (LOW)	SOP Appendix 24	SOP within the PIRMP
<b>(h) Landfill Gas</b>	Contributor to Global warming	Increase in tCO <sub>2</sub> -e emissions	Likely/Major (HIGH)	Installed landfill gas capture and flaring system.	DRC Landfill Gas Collection System Operations Procedures (3 <sup>rd</sup> Party)	Rare/ Moderate (MODERATE)	N/A	3 <sup>rd</sup> Party Operation + documents

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
<b>(i) Litter</b>	Litter migrating off site	Complaints to EPA	Likely/ Moderate (HIGH)	Provide daily or intermediate cover to waste  Erect semi-permanent litter fences  Provide mobile litter fence units & relocate to match conditions Litter collection activities	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare/ Moderate (MODERATE)	SOP Appendix 22 & 25	SOP within the PIRMP
<b>(j) Ozone depleting gas release</b>	Contributor to Global warming	EPA regulatory breach	Likely/Major (HIGH)	Degassing process for fridges implemented	Environmental Inspection Checklist as provided in <b>Appendix 31</b> of the PIRMP	Rare / Minor (LOW)	SOP Appendix 28	SOP within the PIRMP
<b>(2) COMPLIANCE</b> <b>(a) Incident Reporting</b>	Non-compliance with statutory reporting	Cautionary Notice Penalty Infringement Notice	Unlikely/ Moderate (MODERATE)	Prepare reports as required	Reporting protocols included in Environmental Checklist in <b>Appendix 31</b> .	Rare/ Moderate (MODERATE)	Follow up Action	PIRMP / LICENCE

POLLUTION HAZARD / HAZARD (OTHER)	RISK FACTORS	OUTCOME	LIKELIHOOD / CONSEQUENCE (RATING)	PRE-EMPTIVE ACTIONS	REFERENCE	LIKELIHOOD / CONSEQUENCE POST CONTROL (RATING)	INCIDENT RESPONSE ACTIONS	REFERENCE
<b>(3) WORK HEALTH &amp; SAFETY</b>	Personal injury to staff, contractors, general public attending the facility	Trauma Lost time Rehabilitation Compensation	Likely/major (HIGH)	<p>Regular tool box meetings with staff and contractors</p> <p>Safe Work Method Statements prepared and implemented</p> <p>Risk assessments undertaken 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>Council's corporate Work Health, Safety &amp; Environment Plan</p>	Unlikely/ Moderate (MODERATE)	<p>SOP Appendix 2</p> <p>SOP Appendix 26</p>	PIRMP / LICENCE

## 1.4 INCIDENT PREPAREDNESS

### 1.4.1 Response Equipment and Features

The **Whylandra Waste & Recycling Centre** has a number of 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	MAINTENANCE REQUIREMENTS / STANDARDS
<b>Asbestos Kit</b>	Site Office / Workshop Small Vehicle Receiving Centre Weighbridge	Minimum of 2 per location	Refer to Site Checklists ( <b>Appendix 31</b> )
<b>Fire-fighting tanker / Water Cart (~8000L)</b>	Site Office / Workshop (overnight / after hours)	1	
<b>Spill Kit (general purpose)</b>	Small Vehicle Receiving Centre Community Recycling Centre Spotter's Hut	Minimum of 1 per location	
<b>Sharps Kit / Fire Blanket</b>	Weighbridge Site Office / Workshop Spotter's Hut Community Recycling Centre	Minimum of 1 per location	
<b>First Aid Kit</b>	Weighbridge Site Office / Workshop Spotter's Hut DRC Vehicles	1 in each location / vehicle	
<b>Fire Extinguisher</b>	Weighbridge Small Vehicle Receiving Centre Community Recycling Centre Sheds (Old) (external southeast wall) DRC Vehicles	Minimum of 1 per location	
<b>Fire Hose Reel</b>	Site Office / Workshop (internal – southern wall)	1	
<b>Sand Bags / Sand</b>	Charge-out Station	200 / 1m <sup>3</sup>	
<b>Bollards / Bunting</b>	Charge-out Station	6 / 3 rolls	
<b>Water Sampling Kit</b>	Charge-out Station	1 kit	
<b>Dousing Shower / Eye Wash</b>	Community Recycling Centre (internal – south west wall)	1	

Fire extinguishers, fire blankets, hose reels should only be used by persons who are suitably trained.

Additionally, site plant items (compactor, loader, truck etc.) are available for use to construct diversion / containments etc. if required. These items will only be permitted to be operated by Council staff or operators approved by the **Waste Coordinator - West (DRC)** or **more senior Council Officer**.

#### **1.4.2 Communication System**

A telephone system is installed within the **Whylandra Waste & Recycling Centre** with this system providing for communication both internally (mobiles etc.) and externally.

In a pollution incident the telephone can be used as a means of notifying those individuals / organisations responsible for activating this PIRMP and managing the incident response. In addition to the telephone system, mobile telephones will be the accepted means of communications.

Power outages may impact NBN phone services so a backup electrical generator is provided to the Weighbridge. Internet / Email is also available at Weighbridge / Gatehouse AND the Site Office / Workshop.

Hand Held UHF units, operated on **CH14**, are used at the facility providing communication between regular contractors and staff. This system provides a support mechanism should a pollution incident occur.

*Note: The adjacent DROPP site operates on UHF CH12*

Communication mechanisms for neighbouring properties, issuing media releases and providing information of Council's web site are detailed in the Summary of Community Notification & Communication provided in **Table 9 of Section 4.3.2**

#### **1.4.3 Security**

Access to the **Whylandra Waste & Recycling Centre** by unauthorised persons and unauthorised activities occurring on the site are controlled at the gatehouse by Council personnel.

#### **1.4.4 First Aid Equipment**

A suitable fully stocked and easily accessible first aid kit is located at the weighbridge / gatehouse and its location clearly labelled. Other first aid kits are available within designated Council vehicles / stores and locations within the Facility including the Site Office / Workshop and Spotter's Hut as examples.



#### **1.4.5 Signs & 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 staff and facility users.

#### **1.4.6 Funding Arrangements and Support**

The cost of any clean up that is undertaken by emergency response agencies and the EPA will generally be recovered from a company (Council) or individual responsible for the pollution incident. Having regard to that premise, the following pollution incident funding arrangements are in place:

- Funds within Council's Waste Reserve; AND
- Public liability insurance policies.

## 4. POLLUTION INCIDENT CONTROL & RESPONSE

### 4.1 KEY FACILITY INCIDENT MANAGEMENT CONTACT DETAILS

The following is a list of incident response individuals who are responsible for activating the PIRMP together with their notification and communication responsibilities:

**Table 7 – PIRMP Contact Personnel:**

NAME	POSITION	CONTACT DETAILS (24 Hours)	NOTIFICATION RESPONSIBILITIES	COMMUNICATION RESPONSIBILITIES
<b>NATHAN BULLIVANT</b>	Acting Waste Coordinator - West (DRC)	6801 4900 (Weighbridge – office hrs) 0421874472	Ensure Emergency Services (Triple 'zero') notified where there is a threat to life / property.  AND Manager – Resource Recovery & Efficiency (DRC)	Emergency Services DRC site personnel On-site Contractors Facility Users J.R. Richards (DROPP) Neighbouring property occupiers
<b>MD JAHID HOSSAIN</b>	Resource Recovery Performance Coordinator (DRC)	02 6801 4794 (office hrs)	As required to support Manager – Resource Recovery & Efficiency (DRC)	As required to support Manager – Resource Recovery & Efficiency (DRC)
<b>KIM HAGUE</b>	Manager Strategic Partnerships & Investments (DRC)	02 6801 4140 (office hrs)	As required to support Manager – Resource Recovery & Efficiency (DRC)	As required to support Manager – Resource Recovery & Efficiency (DRC)
<b>JAMIE LOBB</b>	Manager – Resource Recovery & Efficiency (DRC)	02 6801 4000 (office hrs) 0409 437 981	EPA Ministry of Health SafeWork NSW NSW Fire & Rescue <i>(if not responded via '000')</i> Local Council <i>(DRC Environmental Services)</i>	Waste Coordinator - West (DRC) Director – Development & Environment (DRC)
<b>STEPHEN WALLACE</b>	Director – Development & Environment (DRC)	(02 6801 4000 (office hrs) 0417 223 799	Council Executive	General Manager (DRC) Media releases & Briefings
<b>ANCILLARY CONTACTS (Independent Operation within the Whylandra Waste &amp; Recycling Centre)</b>				
<b>MARK DARWIN</b>	General Manager Infrastructure – JR Richards – Dubbo Organics Processing Plant	0408 990 672	Staff / contractors and executive of J.R. Richards & Sons	Waste Coordinator - West (DRC)

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.

**Table 8 (a) – PIRMP Emergency Agency Contacts:**

ORGANISATION	CONTACT NAME	CONTACT DETAILS
Fire & Rescue NSW	Duty Officer	Triple Zero ('000') 1300 729 579
NSW Police Force	Duty Officer (Dubbo Police Station)	Triple Zero ('000') 02 6883 1599
Ambulance Service of NSW	Duty Officer	Triple Zero ('000') 131 233
Dubbo Base Hospital (Public)	Reception	(02) 6809 6809
Environment Protection Authority (EPA)	EPA Environment Line	131 555
	Dubbo Office	02 6883 5333
National Parks and Wildlife Service	Dubbo Office	02 6841 7100
SafeWork NSW	Duty Officer	131 050
Department of Primary Industries (NSW Fisheries)	Reception	1300 550 474
POISONS Information	Duty Officer	131 126
NSW Ministry of Health (Western NSW)	Dubbo Office	(02) 6809 8656
Department of Families & Community Services	Reception	1800 079 098
State Emergency Service (SES)	Duty Officer	132 500
Roads & Traffic Authority	Reception	132 213
Bureau of Meteorology	General Information	1300 659 218

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

**Table 8 (b) – PIRMP Supplier / Support Contacts:**

The following is a list of individuals and organisations that may be required to provide operational support by way of supply of resources or provision of expert advice (as examples).

BUSINESS NAME	EQUIPMENT / SERVICES	CONTACT NAME	PHONE NUMBER
RFP Engineering and contracting Pty Ltd	Dump truck, 14 and 22 tonnes excavator, 3 work Ute	Robert Parish	0403110554
LMS Energy	Landfill biogas company	Paul Knights	04470362478
P W Brydon	Weed sprayers	Midnight	
Hardcore	Mattress, concrete, timber, and green waste crushing service	Mick Hedger	0418639302

This list is to be verified at least annually and updated whenever an organisation advises that a change has occurred OR new service / supply contract commences.

## **4.3 INCIDENT NOTIFICATION AND COMMUNICATION**

### **4.3.1 Incident Notification**

In order to provide for the safety of employees, facility users, ancillary operations personnel and the wider community, along with ensuring 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 organisations 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:

#### 4.3.1.1 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 the **Waste Coordinator - West (DRC)** so that an assessment of the level of response required can be made. The mobile telephone contact 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, included as **Appendix 4**, is to be completed and forwarded to the **Manager – Resource Recovery & Efficiency (DRC)**.

#### 4.3.1.2 Major Incident

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

Where a major incident occurs, the **Manager – Resource Recovery & Efficiency (DRC)** is to **immediately** implement the pollution notification protocol included as **Appendix 5**.

Importantly **Appendix 5** requires the immediate notification of:

- EPA 131 555
- Ministry of Health via the local Public Health Unit(Dubbo Base Hospital) 02 6885 8666  
(Note: Ask for Public Health Officer on call OR if no answer dial 0418 866 397)
- SafeWork NSW 13 10 50
- Council (Environmental Compliance) (02) 6801 4000
- Fire & Rescue NSW (if not called for initial emergency response) 1300 729 579

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 **Manager – Resource Recovery & Efficiency (DRC)**.

#### 4.3.2 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 **Whylandra Waste & Recycling Centre**.

The following action plan has been based upon the pollution incident risk assessment included in **Section 3.3** of this PIRMP.

***Table 9 – PIRMP Community Notification & 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 SEVERE	EPA Occupiers of neighbouring downstream properties (see <b>Appendix 30</b> for Communication Recipients Schedule)  Local Community / Media	Waste Coordinator - West (DRC)  Manager – Resource Recovery & Efficiency (DRC)	Phone call to EPA Environment Line followed by a written report Phone call to occupiers of impacted neighbouring properties  Media release / Information displayed on Council's web site	Assessment of severity Type & quantity of material involved Explanation of what happened Date and time of incident Response actions taken Refrain from contact / use of water Strategy for prevention of recurrence
Sediment / Dust (excluding asbestos) discharge (off-site)	Local impact, generally MINOR	EPA NIL notice to neighbours if MINOR	Waste Coordinator - West (DRC)	Phone call to EPA Environment Line followed by a written report.	Assessment of severity Type & quantity of material involved Explanation of what happened Date and time of incident Response actions taken Strategy for prevention of recurrence



NATURE OF INCIDENT	IMPACT ON COMMUNITY	NOTIFICATION REQUIREMENTS	RESPONSIBILITY	NOTIFICATION MECHANISM / TOOLS	KEY MESSAGE
Fire	Local impact, likely to be MINOR, depending on the severity of the fire	EPA Occupiers of neighbouring properties (see <b>Appendix 30</b> for Communications Recipients Schedule) Local community / Media	Waste Coordinator - West (DRC)  Manager – Resource Recovery & Efficiency (DRC)	Phone call to EPA Environment Line followed by a written report. Phone call to occupiers of impacted neighbouring properties  Media release / Information displayed on Council's web site	Date and time of incident Response actions taken Type of fire Agency responding Close windows / doors Strategy for prevention of recurrence
Chemical / Hazardous materials spill (off site discharge)	Local impact, likely to be MINOR	EPA Occupiers of neighbouring properties (if impacted) (see <b>Appendix 30</b> for Communications Recipients Schedule) Local community / Media	Waste Coordinator - West (DRC)  Manager – Resource Recovery & Efficiency (DRC)	Phone call to EPA Environment Line followed by a written report. Phone call to occupiers of impacted neighbouring properties  Media release / Information displayed on Council's web site	Date and time of incident Response actions taken Type of Spill Agency responding Refrain from contact with soil / water Strategy for prevention of recurrence

NATURE OF INCIDENT	IMPACT ON COMMUNITY	NOTIFICATION REQUIREMENTS	RESPONSIBILITY	NOTIFICATION MECHANISM / TOOLS	KEY MESSAGE
Oil / fuel spill (off site discharge)	Local impact, likely to be MINOR	EPA Occupiers of neighbouring properties (if impacted) (see <b>Appendix 30</b> for Communications Recipients Schedule) Local community/ Media	Waste Coordinator - West (DRC)  Manager – Resource Recovery & Efficiency (DRC)	Phone call to EPA Environment Line followed by a written report Phone call to occupiers of impacted neighbouring properties  Media release / Information displayed on Council's web site	Date and time of incident Response actions taken Type of Spill Agency responding Refrain from contact with soil / water Strategy for prevention of recurrence
Explosion	Local impact, likely to be MINOR  (not a pollution incident if noise only)	<b>If off site impacts in addition to noise:</b> EPA Occupiers of neighbouring properties (see <b>Appendix 30</b> for Communications Recipients Schedule)  Local community / Media	Waste Coordinator - West (DRC)  Manager – Resource Recovery & Efficiency (DRC)	Phone call to EPA Environment Line followed by a written report Phone call to occupiers of impacted neighbouring properties  Media release / Information displayed on Council's web site	Assessment of severity Agency responding Date and time of incident Damage report  Strategy for prevention of recurrence

## **4.4 FACILITY EVACUATION**

### **4.4.1 General Requirements**

Most MINOR pollution incidents will not require the evacuation of all or in most instances even part of the facility. However, it is acknowledged that any MAJOR incident may require the facility to be evacuated.

In the event of a MAJOR incident evacuation of Council employees, any contractor's & staff, facility users and ancillary co-located operations 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 all persons from the hazard area.

In this regard the standard operating procedures applicable to Facility Evacuation, refer to **Appendix 26**, must be implemented once a decision is made to evacuate the facility.

Whilst the need for evacuation will be dependent upon the nature and scale of an incident it is of primary importance that personnel or public health is not put at risk at any time during a pollution incident.

The decision to evacuate (in part or full) is to be made by the **Waste Coordinator - West (DRC)**, and supported by facility personnel OR as directed by a responding Emergency Service.

### **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.

In the event of a Total Facility Evacuation, the Facility is not to be re-entered unless instructed to do so by the **Manager – Resource Recovery & Efficiency (DRC)** OR as directed by a responding Emergency Service

### **4.4.3 Priority of Evacuation**

The **Waste Coordinator - West (DRC)** 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 the **Waste Coordinator - West (DRC)** the following action is to be initiated:

- Ensure that the person has been clearly advised that they are required to evacuate the facility 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 that would impede their ability to self-evacuate if required.

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 evacuation assembly point.

In the event of an incident requiring the evacuation of the facility, all Council employees, any 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 incident, employees and facility users will then be directed to proceed to an **alternate evacuation assembly point**.

On arrival at the designated evacuation assembly point all persons will remain until the **Waste Coordinator - West (DRC)** has determined the status of all personnel and;

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

For the purposes of this PIRMP the **Primary Assembly Point** is at the main entry to the **Whylandra Waste & Recycling Centre** where the “**Emergency Assembly Point**” sign is located.

A smaller scale incident involving the SVRC only (as an example) may result in a partial site evacuation, to a nominated site **directly adjacent to the SVRC north west of the Site Office / Workshop building** – also designated by an “**Emergency Assembly Point**” sign.

The **Site Services and Infrastructure Plans** in **Appendix 32** show the locations of the Emergency Assembly Point (aka ‘Muster Point’) locations.

#### **4.4.6 Post Evacuation Assembly Point**

Once the facility has been evacuated to the Primary Evacuation Assembly Point and the presence of personnel and facility users confirmed, arrangements will be made by the **Waste Coordinator - West (DRC)** for Council employees and contractor’s staff to be transported/moved to a Post Evacuation Assembly Point which may, depending on time of day etc., be the **Council Offices (Corner of Church and Darling Streets), Dubbo.**

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

## 5. POLLUTION INCIDENT RESPONSE PROCEDURES

**Appendices No 6 to 28** of this PIRMP contain instructions, (Standard Operating Procedures – SOP'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 (off-site)
- Fire
- Chemical spill
- Oil/fuel spill
- Dust
- 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 **Whylandra Waste & Recycling Centre**.

### 6.1 RECOVERY OPERATIONS

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

The **Waste Coordinator - West (DRC)**, in collaboration with the **Manager – Resource Recovery & Efficiency (DRC)** will need to prioritise activities that can be accomplished with available staff and resources.

Immediately following the emergency phase of an incident, the **Manager – Resource Recovery & Efficiency (DRC)** will develop an operational recovery plan.

### 6.2 INCIDENT INVESTIGATION (AFTER ACTION REVIEW)

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 **Manager – Resource Recovery & Efficiency (DRC)** 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 **Waste Coordinator - West (DRC)** 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 **Waste Coordinator - West (DRC)** and **Manager – Resource Recovery & Efficiency (DRC)** 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 **Waste Coordinator - West (DRC)** 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 **Waste Coordinator - West (DRC)** must prepare a report documenting activities that took place during a major pollution incident.

The report of the **Waste Coordinator - West (DRC)** and all related documentation will be submitted to the **Manager – Resource Recovery & Efficiency (DRC)** for review and necessary follow-up actions.

The **Manager – Resource Recovery & Efficiency (DRC)** will make any necessary follow up reports to the **EPA or other Agencies**

## **6.4 INCIDENT IMPACT ASSESSMENT**

Following an incident, an assessment of impact 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 minimise further damage and restore the facility for operational use and / or to rehabilitate the environment.



The **Manager – Resource Recovery & Efficiency (DRC)** 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 AFTER ACTION REVIEW & PIRMP UPDATE / AMENDMENT**

This will occur **within 30 days** of any pollution incident / activation of the PIRMP.

The AAR will analyse the actions that took place during the pollution incident (both good and bad) and will seek to identify opportunities to improve the effectiveness of the PIRMP, through Prevention, Preparation, Response and Recovery procedures in place for the facility.

The AAR findings will produce Actions to amend, modify or may determine no change requirements are necessary for the PIRMP.

**ENDS**

## APPENDIX 1: PIRMP AMENDMENT NOTIFICATION FORM

Following a review of the Pollution Incident Response Management Plan that was conducted on:  
(Date): 05/04/2024 the following amendments to the plan have been made. Accordingly, these changes are to be incorporated into the PIRMP document which is held by you.

<b>DISTRIBUTION</b> <ul style="list-style-type: none"><li>• Master copy</li><li>• Site copy</li><li>• <b>Manager – Resource Recovery &amp; Efficiency (DRC) copy</b></li></ul>	<b>DATE SENT / ISSUED:</b>    
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PAGE NUMBER	PIRMP SECTION	DESCRIPTION OF CHANGE
<u>14</u>		<u>ADDED DEFIBRILLATOR</u>
<u>15</u>		<u>AMENDED TANA HX320 IN ACTIVE LANDFILL</u>
<u>33</u>	<u>4.1</u>	<u>CHANGES OF EMPLOYEES POSITION</u>
<u>36</u>		<u>UPDATED SUPPLIER DETAILS</u>

### MANAGEMENT AUTHORISATION:

**DATED:**

I acknowledge receipt of the amendments to this PIRMP and have incorporated these into the document for which I am responsible.

**SIGNED:**

**DATED:**

**NAME:**

## APPENDIX 2: STAFF & CONTRACTOR TRAINING

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE:

To ensure the safe and effective management at the **Whylandra Waste & Recycling Centre**, it is essential that all relevant staff receive training appropriate to their position, duties and level of responsibility.

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.

#### PROCEDURE/STANDARD:

Staffing and training requirements shall be adequate to enable proper management and service delivery. 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.

The guidance for specific training programs that are integral to the operation of Council's facilities is described below.

#### PROGRAM A – SITE ENVIRONMENT INDUCTION:

Key points to be covered in this program may include:

- 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
- evacuation procedures

This training would generally be provided by the **Waste Coordinator - West (DRC)** when new staff / contractors commence at the site. Ongoing "on the job" training will also be necessary.

#### PROGRAM B – FIRE FIGHTING

Key points to be covered in this program may include:

- Types of fires (e.g. oil, electrical)
- Determining responsibilities in the event of a fire (staff/fire brigade)
- Procedures for extinguishing fires
- Types/location and maintenance of firefighting equipment
- Prevention of fires
- Procedures for communication in the event of fire

This training would be undertaken in the form of a toolbox talk and may include practical demonstrations. The training would be prepared and delivered by suitably qualified personnel (internal or external). Input may also be provided by officers of the local NSW Fire & Rescue Brigade or NSW Rural Fire Service

#### **PROGRAM C – HAZARDOUS SUBSTANCES & DANGEROUS GOODS HANDLING**

Key points to be covered in this program may include:

- Use and interpretation of 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.

This training would be provided by suitable service provider/s. Where required, additional input may be required from external SafeWork accredited WH&S consultants.

#### **TRAINING RECORDS**

A record of all training undertaken will be maintained at the **Council's Offices** and will be made available for inspection by authorised personnel.

#### **BENEFIT OF COMPLIANCE TO PROCEDURE:**

- Impacts on the natural environment are minimised.
- Operational issues identified.
- Demonstrated operational competency.
- Employees safety protected.
- Health and safety of public / facility users / neighbours protected

#### **CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:**

- Violations and/or fines from Regulatory Agencies
- Pollution of the environment
- Unresolved operational issues
- Injury/Death to employee
- Injury/Death to public / facility users

**REVIEWED BY:**

**DATE:**

**APPROVED BY:**

**DATE:**

POLLUTION INCIDENT RESPONSE MANAGEMENT PLAN TRAINING / COMPETENCY SUMMARY			
OPERATIONAL STAFF	INDICATIVE TRAINING / COMPETENCY STREAM		
	PROGRAM A Environmental & General Safety Induction for Facility	PROGRAM B Fire Fighting & Emergency Incident response.	PROGRAM C Hazardous Substance & Dangerous Goods Management
NAME & POSITION	DATE OF TRAINING COMPLETION		
REVIEWED BY: DATE:	APPROVED BY: DATE:		

APPENDIX 3: PIRMP EXERCISE RECORD & EVALUATION FORM (EXAMPLE)		
FACILITY:        WHYLANDRA WASTE & RECYCLING CENTRE		
DATE:		
EMERGENCY SEQUENCE:	TIME	
Matters:	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		
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 REPORTING & RECORDING

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the pollution incident reporting requirements which are applicable to the operation of the **Whylandra Waste & Recycling 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 on 131 555.*

#### Note

*Use Attachment A for general pollution incident reporting*

*Use Attachment B for leachate discharge/overflow reporting*

#### 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 etc.). Guidance can be found by referring to the SOP within the facility PIRMP.
2. If the incident presents an immediate threat to human health or property, Fire & Rescue NSW, the NSW Police and the NSW Ambulance Service should be contacted for emergency assistance - phone Triple Zero ('000').
3. At an appropriate time, during an incident, a staff member 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 an incident staff will notify the **Waste Coordinator - West (DRC)** in the first instance, who will in turn contact the **Manager – Resource Recovery & Efficiency (DRC)** of the incident and provide an update of the action initiated.
5. **Manager – Resource Recovery & Efficiency (DRC)** is to notify the EPA and other agencies in accordance with the protocols in this PIRMP



<p>6. The <b>Waste Coordinator - West (DRC)</b> is to record the details of the incident on a Pollution Incident Notification Form within 24 hours of the incident commencing and advise the <b>Manager – Resource Recovery &amp; Efficiency (DRC)</b> at the earliest possible opportunity.</p> <p>7. <b>Post Incident</b></p> <p>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.</p> <p>Following an incident, the <b>Waste Coordinator - West (DRC)</b> 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.</p> <p>The <b>Waste Coordinator - West (DRC)</b> must, within 24 hours of being notified of a pollution incident, prepare a report documenting activities that took place during the incident.</p> <p>The report and all related documentation will be submitted to Council's <b>Manager – Resource Recovery &amp; Efficiency (DRC)</b>, for review and necessary follow up actions.</p> <p>Where there is potential for litigation in relation to the incident the <b>Manager – Resource Recovery &amp; Efficiency (DRC)</b> shall prepare a written report for referral to the Council's legal representative</p>	
<p><b>ATTACHMENTS / ADDITIONAL FORMS</b></p> <p>A. Pollution Incident Report form</p> <p>B. Leachate discharge/overflow Reporting Form</p>	
<p><b>BENEFIT OF COMPLIANCE TO PROCEDURE:</b></p> <ul style="list-style-type: none"> <li>• Details of incident are readily available including information regarding incident response activities</li> <li>• Demonstrated operational competency</li> </ul>	
<p><b>CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>• Violations and/or fines from Regulatory Agencies</li> </ul>	
<p><b>REVIEWED BY:</b></p> <p><b>DATE:</b></p>	<p><b>APPROVED BY:</b></p> <p><b>DATE</b></p>

POLLUTION INCIDENT REPORT FORM (A)			
DATE OF INCIDENT:		TIME OF INCIDENT:	
NAME OF REPORTING PERSON			
LOCATION OF INCIDENT Where did it occur?			
TYPE and QUANTITY of MATERIAL INVOLVED			
Outline ACTIONS initiated IN RESPONSE TO INCIDENT			
Was it necessary to initiate the MAJOR INCIDENT NOTIFICATION PROTOCOL?			
Was the COMMUNITY NOTIFICATION & COMMUNICATION PLAN activated?			
Was ACTION IN ACCORDANCE WITH SOPS? If not - why?			
Is there a NEED TO REVIEW SOP in response?			
DATE and TIME of details provided to: Waste Coordinator - West (DRC)			
OTHER MATTERS			
MANAGEMENT ACKNOWLEDGEMENT: DATED:			

<b>POLLUTION INCIDENT REPORT FORM (B)</b> <b>Leachate Discharge/Overflow</b>			
<b>DATE OF INCIDENT:</b>		<b>TIME OF INCIDENT:</b>	
<b>NAME OF REPORTING PERSON:</b>			
<b>DETAILS of PERSON WITNESSING THE LEACHATE DISCHARGE or overflow</b>			
<b>LOCATION of incident</b> Where did it occur?			
<b>DATE and TIME of COMMENCEMENT OF the DISCHARGE</b>			
Assessed <b>VOLUME OF DISCHARGE or overflow</b>			
<b>PERIOD OF time the DISCHARGE or overflow occurred (Start / finish)</b>			
<b>WEATHER CONDITIONS</b> at the time of the discharge or overflow.			
<b>DAILY RAINFALL (mm) on the DAY OF THE DISCHARGE.</b>			
<b>RAINFALL (mm each day) for the WEEK PRIOR TO THE DISCHARGE</b>			
<b>SAMPLING OCCURRED?</b> (Yes / No)?  Most recent <b>MONITORING RESULTS</b> of the chemical composition of the <b>LEACHATE</b> .	Attach analytical results		
Explanation <b>WHY &amp; HOW</b> the <b>DISCHARGE OCCURRED</b>			
<b>PLAN OF ACTION to PREVENT</b> a similar <b>DISCHARGE</b>			
<b>OTHER MATTERS</b>			
<b>MANAGEMENT ACKNOWLEDGEMENT:</b>  <b>DATED:</b>			

## APPENDIX 5: POLLUTION INCIDENT NOTIFICATION PROTOCOL

### Standard Operating Procedure (SOP)

#### **CALL TRIPLE ZERO ('000') IF THE INCIDENT PRESENTS AN IMMEDIATE THREAT TO HUMAN HEALTH OR PROPERTY.**

Fire & Rescue NSW, the NSW Police and the NSW Ambulance Service are the first responders, as they are responsible for controlling and containing public safety incidents.

If the incident **does not** require an initial combat agency, or once the Triple Zero ('000') call has been made, notify the relevant authorities in the following order.

The 24-hour hotline for each authority is given where available:

- **EPA** **131 555**
- **Ministry of Health** via the local Public Health Unit(Dubbo Base Hospital) **02 6885 8666**  
*(Note: Ask for Public Health Officer on call OR if no answer dial 0418 866 397)*
- **SafeWork NSW** **13 10 50**
- **Dubbo Regional Council** (Environmental Services) **(02) 6801 4000**
- **Fire & Rescue NSW** (if not called for initial emergency response) **1300 729 579**

**Provide notification to the ancillary DROPP site Manager / Supervisor on 0408 990 672**

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 SafeWork NSW.

## APPENDIX 6: LEACHATE DISCHARGE EMERGENCY RESPONSE

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define an incident response in the event of a leachate discharge being detected or being likely, from a leachate dam / structure overflowing at **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

To prevent Leachate or leachate contaminated surface water discharge to adjacent waterways, the actions required in response to such events may vary. It will be the role of Council staff to determine and initiate appropriate actions.

The following notes will form the basis of that decision making together with experience gained in emergency exercises and desktop trials:

- Confine the source of the discharge and/or sources of inflows to limit the spread of its effects without endangering personnel. Check any 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 **Waste Coordinator - West (DRC)** and in turn the **Manager – Resource Recovery & Efficiency (DRC)** of all actions taken or proposed.
- Source a tanker truck to pump out the retained leachate or return to system when holding capacity is returned
- Notify neighbours who may be affected by the incident.
- A copy of the Pollution Incident Report Form is to be referred to **Manager – Resource Recovery & Efficiency (DRC)**.

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 7: LEACHATE SYSTEM MANAGEMENT & MAINTENANCE

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE:

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

#### PROCEDURE/STANDARD

1. It is the responsibility of **Waste Coordinator - West (DRC)** to ensure prescribed inspections of, report upon and record the following leachate control measures is undertaken by site staff:
  - Inspect leachate pumps / drains / pipes to ensure they are operating correctly.
  - Examine the level of leachate within collection wells/dams. Where leachate levels appear excessive immediately determine appropriate method to reduce volume retained.
  - Inspect discharge lines and discharge points to ensure their effective operation. Where failures are detected, consideration must be given to deactivating any fixed 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.*

- Leachate chambers – inspect leachate flow to ensure levels are acceptable and that leachate heads are not developing. Consider methane accumulations in the chambers and examine venting measures.

*Note: under no circumstances should leachate chambers, de-leaching wells or sump be accessed unless DRC's "confined spaces" procedures are initiated.*

- Inspect the site for emergence of leachate springs.
2. Where system operational defects are detected immediately contact the **Manager – Resource Recovery & Efficiency (DRC)** to discuss and arrange rectification/maintenance works.
  3. Details of system inspection & findings / actions are to be recorded on the Site 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: LEACHATE POND MANAGEMENT GUIDANCE

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE:

To ensure that any leachate pond / dam is used effectively with its design objectives to prevent leachate discharge from the landfill discharge point site in a major rainfall event.

#### PROCEDURE/STANDARD

4. It is the responsibility of **Waste Coordinator - West (DRC)** to ensure prescribed inspections of, report upon and record the following leachate control measures are undertaken by site staff:
  - Inspect any leachate ponds / dams to ensure they are operating correctly / have retention capacity available.
  - Where leachate levels appear excessive immediately determine appropriate method to reduce volume retained.
  - Inspect discharge points to identify any overflow. Where overflow is detected, monitor volume and duration of the overflow in accordance with any EPL obligations
5. Where pond / dam defects are detected immediately contact the **Manager – Resource Recovery & Efficiency (DRC)** to discuss and arrange rectification/maintenance works.
6. Details of system inspection & findings / actions are to be recorded on the Site 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 9: SURFACE WATER QUALITY MONITORING

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

Prevention of contamination entering the stormwater management system should be the first priority and the Environmental Checklist in **Appendix 31** 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. Sampling is generally an EPL requirement when surface water is present / discharge is occurring. Sampling locations are identified in the EPL. (**Condition P1.3**)

#### PROCEDURE/STANDARD

All surface water monitoring at the site occurs in accordance with the requirements of **EPL 6058**.

DRC engages a NATA accredited third party laboratory to sample, analyse and report findings to comply with specific EPL requisites and wider EPA public reporting requirements.

#### REPORTING

All results received shall be reviewed by the **Manager – Resource Recovery & Efficiency (DRC)** 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 from receipt of results from the Laboratory.

Results must be **published to the Council Web page** within 14 days following receipt of results from the Laboratory.

#### BENEFITS 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

## APPENDIX 10: OPERATION & MAINTENANCE OF SEDIMENT CONTROLS

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

To ensure that the surface water control system, including any 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 structures.

**Definition:** “Water quality control structures” are dams / basins and connection drains 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. Locations of large sediment control basins /detention dams are found the *Site Services & Infrastructure Plans*.

#### PROCEDURE/STANDARD

Non vegetated and unsealed areas, new waste disposal stages, recently completed filling areas, stockpile areas, excavations and roads have a high potential to release sediments into stormwater, and 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, culverts, detention basins and retention systems. Maintenance of these items is most important for the ongoing drainage and treatment of stormwater.
- Water quality basins (**retention dams**) should be inspected following each storm event and after discharge of stormwater to ensure adequate capacity is maintained in the basin at all times.
- Should the inspection reveal that maintenance of any item is required this is to be reported to the **Waste Coordinator - West (DRC)** 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 Environmental Checklist (**Appendix 31**) for the facility.
- Marker pegs are to be used to indicate the capacity of large sediment control basins. If sediment has accumulated to a point above the marker pegs, removal of accumulated sediment must occur to return 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 any intense period of rainfall (i.e. >25mm event over 48 hours).

## 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.

<b>4. PERSONNEL</b> <ul style="list-style-type: none"> <li>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 the <b>Waste Coordinator - West (DRC)</b>.</li> </ul>	
<b>5. ATTACHMENTS / ADDITIONAL FORMS REQUIRED</b> <p>A) Water Quality Structure Inspection Requirements</p>	
<b>BENEFIT OF COMPLIANCE TO PROCEDURE:</b> <ul style="list-style-type: none"> <li>Impacts on the natural environment minimised</li> <li>Operational issues identified</li> <li>Demonstrated operational competency</li> </ul>	
<b>CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:</b> <ul style="list-style-type: none"> <li>Violations and/or fines from Regulatory Agencies</li> <li>Pollution of the environment</li> <li>Unresolved operational issues</li> </ul>	
<b>REVIEWED BY:</b>  <b>DATE:</b>	<b>APPROVED BY:</b>  <b>DATE</b>

<b>ATTACHMENT A</b> <b>WATER QUALITY STRUCTURE INSPECTION REQUIREMENTS</b>		
ITEM / AREA	ROUTINE INSPECTIONS FOR MAINTENANCE	FREQUENCY
<b>Drains/pipes/pits</b>	To be visually inspected after heavy rainfall events to ensure they are free of debris and litter.  Inspect lining of open drains to determine any scour or damage requiring repair.	Monthly
<b>Retention system</b>	Inspect dams / ponds / sediment fences for damage and general condition	Monthly
	Inspect retention dam and ensure debris collected	Monthly
	Trash screen (if installed) to be visually inspected after heavy rainfall events to ensure they are free of debris and litter	Monthly
<b>Inlet / Outlet culverts</b>	Inspect culverts, headwalls and overflows for signs of deterioration (scouring), blockage or damage	Monthly
	Trash screen (if installed) to be visually inspected after heavy rainfall events to ensure they are free of debris and litter	Monthly
<b>Inspections of structures / drains etc. should also be undertaken after all heavy rainfall events</b>		

## APPENDIX 11: LEACHATE DISCHARGE (DAM / CONTAINMENT FAILURE)

### Standard Operating Procedure (SOP)

#### 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 leachate dam / sump rupturing or suffering a significant leak at the **Whylandra Waste & Recycling Centre**.

#### Procedure/Standard

Actions required in response to such events may vary and it will be the role of **Waste Coordinator - West (DRC)** 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 replace earth in repairing the defective dam / containment wall.
- Secure the affected area(s) by using barricades and bunting if necessary.
- Advise the **Manager – Resource Recovery & Efficiency (DRC)** of all actions taken or proposed.
- Notify neighbours who may be affected by the incident.
- Engage a suitably qualified expert to evaluate the damage and to design the remedial work.
- A copy of the Pollution Incident Report Form is to be referred to **Manager – Resource Recovery & Efficiency (DRC)**.

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 users, contractors, staff and neighbours is protected

#### Consequence of Non-Compliance to Instruction:

- Violations and/or fines from Regulatory Agencies

**REVIEWED BY:**

**DATE:**

**APPROVED BY:**

**DATE**

## APPENDIX 12: GROUNDWATER MONITORING

### Standard Operating Procedure (SOP)

#### 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 **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

All ground water monitoring wells and leachate monitoring points at the landfill are sampled in accordance with the requirements of **EPL 6058**.

DRC engages a NATA accredited third party laboratory to sample, analyse and report findings to comply with specific EPL requisites and wider EPA public reporting requirements.

#### REPORTING

All results received shall be reviewed by the **Manager – Resource Recovery & Efficiency (DRC)** and reported to the NSW Environment Protection Authority (EPA) on an annual basis with the EPA annual licence return.

If any particularly high contaminant levels are received they shall be reported to the EPA within 14 days from receipt of results from the Laboratory.

Monitoring Results must also be **published to the Organisation's Web page** within **14 days** following receipt of results from the Laboratory.

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

- 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 13: TYRE STOCKPILE MANAGEMENT & MAINTENANCE

### Standard Operating Procedure (SOP)

#### 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 to minimise the risk of fire. The EPA Environmental Protection Licence requires stockpiles of tyres not to **exceed 50 tonnes or 5000 tyres**.

#### PROCEDURE/STANDARD

- Tyres are to be placed on a hardstand area compacted of a depth of at least 500 mm if located above previously placed general waste and are to be removed from site on a routine basis to ensure the stockpile is kept to a minimum.
- 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.
- Fire prevention measures are to be undertaken including signage, servicing of firefighting equipment and training of personnel in firefighting 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 hose reel or suitable fire extinguisher.
- Report any potentially dangerous fire to Triple Zero ('000') and request the fire brigade, providing all information they require (i.e. your name, fire location, type, size, etc.)
- As soon as possible notify the **Waste Coordinator - West (DRC)** 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.
- Provide any requested assistance to Emergency Services IF SAFE TO DO SO.
- Waste Coordinator - West (DRC) will report the details of the fire on an Incident Notification Report and refer that to the **Manager – Resource Recovery & Efficiency (DRC)**.

#### 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: MULCH / GREENWASTE STOCKPILE MANAGEMENT

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

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

#### PROCEDURE/STANDARD

- A safety exclusion area is to be maintained around stockpiles 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.
- Fire prevention measures are to be undertaken including signage, servicing of firefighting equipment and training of personnel in firefighting techniques.
- Stockpiles and windrows of shredded green waste are to be limited to between 2.5 and 3.0m in height and 5-6m in width.
- Stockpiles and windrows of shredded green waste are to be visually inspected weekly and an assessment of the temperature, odour and moisture 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 sustained temperatures within the stockpile exceeds 70°C.
- Materials shall not be provided for off-site use until the requirements of the NSW EPA Resource Recovery Orders / Exemptions have been met.

#### 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:

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DATE

## APPENDIX 15: FIRE IN WASTE TRANSFER BIN

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

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

#### PROCEDURE/STANDARD

##### Fire Response:

- Attempt to extinguish a small, controlled fire with equipment on site without endangering facility personnel and equipment. This equipment includes a fire hose, water cart, or suitable fire extinguisher or soil. Do not attempt to remove a transfer bin containing the fire.

##### **Note: Be sure to use the proper extinguisher for the fire**

- Report any potentially dangerous fire to Triple Zero ('000') and request the fire brigade, providing all information they require (i.e. your name, fire location, type, size, etc.)
- Arrange for a watercart to attend the site if not already present.
- As soon as possible notify the **Waste Coordinator - West (DRC)** 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.
- Provide any requested assistance to Emergency Services IF SAFE TO DO SO.
- Commence notification of Neighbours where offsite smoke / fire impact is possible.
- The **Waste Coordinator - West (DRC)** shall report the details of the fire on an Incident Notification Report and refer that to the **Manager – Resource Recovery & Efficiency (DRC)**.

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

- 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 AT THE WASTE TIPPING FACE

### Standard Operating Procedure (SOP)

#### 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 **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

##### *Fire*

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

**Note: If using a fire extinguisher, be sure to use the correct extinguisher for the fire type.**

- If in any doubt, evacuate area and immediately call Triple Zero ('000') and request the presence of Fire & Rescue NSW. Provide all information required (i.e. your name, fire location, type, size etc.).
- Arrange for a watercart to attend the site if not already present.
- As soon as possible notify the **Waste Coordinator - West (DRC)** of the incident and provide an update of the action initiated to date.
- Keep all unauthorised people away from the area where the fire is burning.
- Provide any requested assistance to Emergency Services IF SAFE TO DO SO.
- Commence notification of Neighbours where offsite smoke / fire impact is possible.
- The **Waste Coordinator - West (DRC)** shall report the details of the fire on an Incident Notification Report and refer that to the **Manager – Resource Recovery & Efficiency (DRC)**.

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

- 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: FIRE IN WASTE LOAD

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

To define a procedure for responding to a fire which is detected in a load of material brought to the **Whylandra Waste & Recycling Centre** for disposal.

#### 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 or to a waste transfer receptacle. All employees are expected to be familiar with the following procedures for handling such loads:

1. Where suspected hazardous wastes are involved contact the Fire Brigade by telephoning Triple Zero ('000') and request their attendance. Provide all information they require (i.e. your name, fire location, type, size, etc.).
2. Arrange for a watercart to attend the site if not already present.
3. The driver is to dump the material in a clear area that is away from any building, vegetation and/or debris – preferably on a thick hardstand area or on virgin ground
4. Should it not be possible to move the vehicle to a clear space, isolate the vehicle and evacuate the area.
5. As soon as possible notify the **Waste Coordinator - West (DRC)** of the incident and provide an update of the action initiated to date.
6. Contain the fire, and if possible spread out the load and extinguish the fire with water or soil.
7. 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.
8. Provide any requested assistance to Emergency Services IF SAFE TO DO SO.
9. Commence notification of Neighbours where offsite smoke / fire impact is possible.
10. The **Waste Coordinator - West (DRC)** shall report the details of the fire on an Incident Notification Report and refer that to the **Manager – Resource Recovery & Efficiency (DRC)**.

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

- 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 18: CHEMICAL SPILL RESPONSE

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define an incident response in the event of a chemical spill from containers or storages located at the **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

##### *Chemical spillage*

Response actions needed may vary. It will be the role of the **Waste Coordinator - West (DRC)** to determine and initiate appropriate actions. The following is the basis of the decision making process.

- Depending on the scale of the spillage, it may be necessary to make first contact with emergency services by dialling Triple Zero ('000') and advising of the type of emergency and the assistance needed (Fire Brigade – Hazmat)
- Secure the affected area(s) by using suitable means such as barricades and bunting. Engage measures to restrict vehicles entering the site
- If necessary, initiate evacuation persons that may be on site, including contractors
- Confine the incident and prevent the spread of its effects without endangering personnel. This may include building sand bag bunds, rotating the container or plugging the leak.
- For small spills, use the spill kit kept on site, cover drains and/or place temporary bunding
- Provide any requested assistance to Emergency Services IF SAFE TO DO SO.
- Notify neighbours who may be affected by the incident.
- The **Waste Coordinator - West (DRC)** shall report the details of the incident on an Incident Notification Report and refer that to the **Manager – Resource Recovery & Efficiency (DRC)**.

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

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

#### CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:

- 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 19: STORAGE & HANDLING OF CHEMICAL / HAZARDOUS SUBSTANCES**

### **Standard Operating Procedure (SOP)**

#### **PURPOSE AND SCOPE**

The use of chemicals and hazardous substances at the **Whylandra Waste & Recycling Centre** is generally limited to paints, solvents for maintenance of site facilities and herbicides/pesticides for controlling 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 Safety Data Sheets (SDS), 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 paints, household chemicals, herbicides, pesticides & 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 SDS must be provided by the supplier on the first occasion that a hazardous substance is supplied. The manufacturer shall review and revise the SDS every five years as a minimum. Suppliers are required to provide SDS 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, leaking or corroded containers must not be accepted.

##### **3. Safety Data Sheets**

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 clean-up and disposal of spilt product and waste containers
- First aid procedures if substance contacts skin, eyes, is swallowed or ingested.

A register of SDSs shall be maintained at the facility and made available for use by all employees at site. All SDS 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.

#### **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, household chemicals, herbicides, pesticides & 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 Landfill.

#### **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:**

**DATE:**

**APPROVED BY:**

**DATE**



## APPENDIX 20: INSPECTION OF INCOMING LOADS

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

To ensure that only Permitted Waste is accepted at the **Whylandra Waste & Recycling Centre** through the adoption and implementation of appropriate vehicle inspection procedures.

#### PROCEDURE/STANDARD

The **weighbridge attendant** 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 area prior to entering the control point / weighbridge. All loads shall be subject to a visual inspection to ensure no excluded wastes are contained within the loads.
3. The **weighbridge attendant** shall also enquire to the customer whether hazardous materials, such as lead acid batteries, gas bottles, solvents, paints etc., are contained within the load.
4. Empty chemical containers should be checked for triple rinsing before accepting for disposal.
5. Any vehicles suspected of containing excluded wastes shall be refused entry until verified otherwise.
6. The **weighbridge attendant** 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 e.g. provision of a test certificate.
7. Where wastes are contained in enclosed vehicles, e.g. private waste collection vehicles, the **weighbridge attendant** shall identify the source and nature of the waste by inquiry.
8. 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 **waste attendant / plant operator**.
9. No sealed containers shall be deposited without substantiation that the contents are acceptable for disposal.
10. 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:

- 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 21: CLEAN UP OF FUEL OR OIL SPILLS

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

To define the procedure for the containment, management and clean-up of minor fuel / oil spills at the **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

##### *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 (e.g. 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 Council stores or suppliers. This equipment or “spill kit” should be stored close to point of use or in a readily transportable form e.g. 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, e.g. 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 / trailer, if suitable.

##### *Contain the spill as follows:*

- Protect drains by forming barriers and sealing drainage grates (e.g. 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 other suitable and available materials, e.g. soil, sand).
- All used absorbent material is to be collected for transport and disposal to suitable landfill.

<ul style="list-style-type: none"> <li>• If sufficient product exists, hand pumps should be used and product transferred to a suitable container (lined drums, skips or tankers).</li> <li>• Avoid the use of electrical equipment that could be the source of ignition.</li> </ul>	
<b>BENEFIT OF COMPLIANCE TO PROCEDURE:</b> <ul style="list-style-type: none"> <li>• Employee's safety protected</li> <li>• Health and safety of public/facility user protected</li> <li>• Impacts on the environment are minimised</li> </ul>	
<b>CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:</b> <ul style="list-style-type: none"> <li>• Injury to employee</li> <li>• Injury to public/facility user</li> <li>• Environmental pollution</li> <li>• Violations and/or fines from regulatory agencies</li> </ul>	
<b>REVIEWED BY:</b>  <b>DATE:</b>	<b>APPROVED BY:</b>  <b>DATE</b>

## APPENDIX 22: DEPOSITING OF WASTE AT TIPPING AREA

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the procedure for the depositing of waste from collection vehicles or waste transfer bins at the landfill site.

#### PROCEDURE/STANDARD

1. All staff and private contractors engaged in the collection and disposal of waste are to be oriented in the proper management of the landfill tipping area.
2. Drivers are to undertake a physical inspection of the disposal site 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 **waste attendant / plant operator**, stopped in the appropriate position and brakes applied
4. The tailgate/tipping body is to be unlatched and/or secured in the open position
5. The body is to be lifted to the upright position and the waste emptied
6. The vehicle is to move from the disposal site with the tailgate/tipping body secured in the closed position.

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

- Employee safety is protected
- Vehicle damage is avoided
- Adherence to landfill protocols

#### CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:

- Employee safety is put at risk
- Vehicular damage
- Improper use of landfill

**REVIEWED BY:**

**DATE:**

**APPROVED BY:**

**DATE**

## APPENDIX 23: DUST MANAGEMENT

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the means for controlling the creation and distribution of dust at the **Whylandra Waste & Recycling 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, the movement of stockpiles of dry materials and tipping of wastes.

It is the responsibility of the **Waste Coordinator - West (DRC)** to ensure preventative measures are put in place to control the generation of dust. Such measures include:

- Applying shredded green waste / timber to capped areas within the landfill operations areas.
- Wetting piles of waste immediately prior to shredding / crushing.
- Operating mist sprays where concrete or hard rock are being crushed
- Wetting of roadways
- Wetting down of dusty loads or requiring materials to be wet and bagged prior to delivery to site (in the case of asbestos type materials refer to Asbestos Management SOP)

#### 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

## APPENDIX 24: ODOUR MANAGEMENT

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the means for controlling excessive odours at the **Whylandra Waste & Recycling 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 **Waste Coordinator - West (DRC)** 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
- Soil Cover (virgin soils) is to be placed over any exposed odorous waste (particularly when rain is forecast).
- Greenwaste mulch / composting operations to occur strictly in accordance with the approved methodology.
- Animal carcasses and odorous loads are buried within the waste mass
- Grading and profiling of the site is undertaken to avoid ponding over filled areas or areas of exposed wastes
- Routine inspections are undertaken in accordance with the Environmental Checklist (see **Appendix 31**) 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

## APPENDIX 25: COVERING OF WASTE / LITTER CONTROL

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

To define a procedure for the covering of waste at the **Whylandra Waste & Recycling Centre** to ensure waste / litter is controlled in an acceptable manner.

*Note: SOP to be read in conjunction with EPL Condition O6.14(a) which appears to obligate covering of waste no less frequently than every 7 days.*

#### PROCEDURE/STANDARD

##### Covering of Waste

- The purpose of 'cover' is to control litter, flies, rodents, birds, odour, reduce the risk of fire and improve the visual appearance of the landfill.
- It is important to thoroughly compact the waste prior to the placement of the cover. 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 waste is to be covered with 150mm of soil when rain is forecast overnight or high winds are forecast.
- Any soil cover material previously placed over the underlying layer of waste should be bladed off to expose the waste such that any newly placed waste is in direct contact with the old waste. The cover may be removed by a **compactor** or similar equipment.

##### Litter Control

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

- Waste will be compacted and covered as per the covering frequency indicated above / in the EPL.
- Daily inspection of litter/perimeter fences required by EPL conditions and clearing completed 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.
- Semi-permanent litter fencing will be erected in close proximity to the active tipping areas.
- If required, mobile litter barricades will be used and relocated around the tipping area as wind direction dictates

##### Reporting

Non-conformances shall be reported in the weekly inspection checklist. Major non-conformances shall be reported to the **Manager – Resource Recovery & Efficiency (DRC)** before the end of the day which the non-conformance occurred or is identified.



<b>BENEFIT OF COMPLIANCE TO PROCEDURE:</b> <ul style="list-style-type: none"> <li>• Impacts on the natural environment are minimised</li> </ul>	
<b>CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:</b> <ul style="list-style-type: none"> <li>• Violations and/or fines from Regulatory Agencies</li> <li>• Pollution of the environment</li> </ul>	
<b>REVIEWED BY:</b>  <b>DATE:</b>	<b>APPROVED BY:</b>  <b>DATE</b>

## APPENDIX 26: FACILITY EVACUATION

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

To define a procedure for the covering the requirement to implement and Evacuation of the **Whylandra Waste & Recycling Centre** in an acceptable manner.

#### PROCEDURE/STANDARD

##### *Emergency Response*

1. Upon notification of an incident the Chief Warden (generally this would be the **Waste Coordinator - West (DRC)** or **most senior staff member at the site**), determines the need for evacuation.
2. Chief Warden contacts by telephone the emergency services by dialling Triple Zero ('000') providing all information they require (i.e. your name, incident type, size, etc.).
3. Chief Warden sounds the evacuation alarm (if present) or provides evacuation advice to all personnel and facility users on site.
4. The Chief Warden initiates measures to restrict vehicles entering the facility and will notify the **Weighbridge Operator** who will:
  - collect site closure signs, cordless telephone, UHF radio and other items such as rainwear / PPE and secure weighbridge office before relocating to the main site gates by walking along main entry land of the access road. Any customer vehicles encountered are to be directed to exit the site immediately.
  - On arrival at the main gates, the **Weighbridge Operator** will erect site closure signage and close the gate on the entry lane of access road. The exit lane can be left open if any customer / staff / contractor vehicles have not yet exited.
  - Contact to be made with the Chief Warden to confirm access to site has been restricted. Only emergency services AND incident support vehicles and personnel should be permitted to enter the site until advised otherwise by the Chief Warden.
  - Contact to be made with Chief Warden each time a vehicle is permitted to enter the site and that directions to the incident have been provided to the driver.
  - Access restrictions / controls to remain until the Chief Warden provided an 'all clear' advice.
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.
6. The Chief Warden provides direction to Primary Evacuation Point.
7. Prior to leaving the facility the Chief Warden with the assistance of any area deputy / 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 facility users (as far as practical)
  - b) Determine the suitability of the Primary Evacuation Area. If necessary initiate movement to an alternate Evacuation Point or Post Evacuation Assembly Area.
  - c) Upon their arrival brief the emergency services including the status of facility personnel.

<p>d) Co-ordinate the movement of personnel to the Post Evacuation Assembly Area.</p> <p>e) Brief the <b>Manager – Resource Recovery &amp; Efficiency (DRC)</b> on the incident and provide an update of the actions initiated to date.</p> <p>9. The Chief Warden is to report the details of the event on an Incident Notification Report Form and refer to <b>Manager – Resource Recovery &amp; Efficiency (DRC)</b>.</p>	
<p><b>BENEFIT OF COMPLIANCE TO PROCEDURE:</b></p> <ul style="list-style-type: none"> <li>• Meeting the legislative requirements.</li> <li>• Improved safety for site staff and users</li> </ul>	
<p><b>CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:</b></p> <ul style="list-style-type: none"> <li>• Violations and/or fines from Regulatory Agencies</li> <li>• Death or injury to site staff / visitors</li> </ul>	
<p><b>REVIEWED BY:</b></p> <p><b>DATE:</b></p>	<p><b>APPROVED BY:</b></p> <p><b>DATE</b></p>

## EMERGENCY CHECKLIST FOR CHIEF WARDEN

Name of Chief Warden:	
Time at which potential emergency was raised:	
Location of potential emergency:	
Description of potential emergency:	
<b>IF EMERGENCY IS DECLARED:</b>	
Emergency declared	Time
ALERT signal activated (if available)	Time
Phone relevant Emergency Service on Triple Zero ('000')	Time
<b>IF SITE EVACUATION IS NECESSARY:</b>	
Evacuation signal activated / advice issued?	Time
Deputy/ Area Wardens report evacuation is complete:	

AREA	WARDEN	AREA EVACUATED	COMMENTS

<b>ADVISED EMERGENCY SERVICE:</b>	<b>TIME</b>

## APPENDIX 27: MANAGEMENT OF ASBESTOS

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the activities of acceptance and management of waste materials that contain asbestos at **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

##### **ACCEPTANCE:**

*ALL disposals must be pre-arranged by calling the weighbridge. Generally - asbestos waste will NOT be received at the site after 4pm.*

##### **Phone / Site Enquiries:**

- *Staff will seek to confirm that the Customer / Waste Generator has read and understands the requirements for safe handling, removal & transport of asbestos by specifically requiring the Customer / Waste Generator to confirm that they have read and understand their personal obligations for managing their asbestos containing material.*

*To assist, staff can direct the Customer / Waste Generator to relevant sources of information, including but not limited to:*

1. *Dubbo Regional Council's Web page*

*<https://www.dubbo.nsw.gov.au/households-residents/rates-building-and-maintenance/asbestos-awareness> ; AND*

2. *<http://asbestosawareness.com.au> ; AND*

3. *NSW Environment Protection Authority*

*<http://www.epa.nsw.gov.au/your-environment/household-building-and-renovation/dealing-with-household-asbestos>; AND*

*<http://www.epa.nsw.gov.au/your-environment/waste/transporting-asbestos-waste-tyres/tracking-asbestos-waste-locate>; AND*

4. *SafeWork NSW*

*<https://www.safework.nsw.gov.au/hazards-a-z/asbestos> ; AND*

5. *Other sources of information / regulation as relevant from time to time.*

- *Staff must not accept an asbestos disposal booking request unless the Customer / Waste Generator confirms having obtained and possessing a clear understanding of the information from these sources (at minimum).*

##### **Bookings:**

- *Staff will request and record in the **ASBESTOS DISPOSAL BOOKING REGISTER**, details of the type of Asbestos Waste (Bonded, Friable, Sheeting, Soil, Dust, pipes etc), the volume and / or square meters (if sheeting), number and size of loads, packaging that will be used AND transport / unloading method proposed by the Customer / Waste Generator.*

- If the Customer / Waste Generator reports:
  - a) **MINOR** - LESS than 100 kilograms or <10 square metres of asbestos waste for disposal (i.e. no WasteLocate requirement), a booking can be taken by the **Weighbridge Operator**; who will verbally relay all packaging and handling requirements / conditions.
  - OR
  - b) MORE than 100 kilograms or >10 square metres of asbestos waste for disposal, the request should be managed as follows:
    - **GENERAL** – up to 10 tonnes /single truck load of asbestos containing materials.  
 A **booking** can be taken if the **most senior staff member at the site** approves the proposed means of unloading the asbestos containing material as verbally stated by the Customer / Waste Generator.  
  
 The **most senior staff member at the site** must ensure that the Customer / Waste Generator has completed the WasteLocate tracking requirements for the load/s (refer <http://www.epa.nsw.gov.au/wasteregulation/wastelocate-asbestos.htm>) AND the **Weighbridge Operator** is advised of the incoming load/s (date time etc) and any other specific acceptance conditions.  
  
 The **most senior staff member at the site** will monitor / control the disposal activities once the material arrives at site and all receival conditions have been met.
    - OR
    - **MAJOR** – more than 10 tonnes OR multiple truck load of asbestos containing materials.  
 A booking will only be offered once the **Waste Coordinator - West (DRC) OR most senior staff member at the site** receives and approves the proposed means of unloading the asbestos containing material, as stated in a written procedure to be supplied by the Customer / Waste Generator;
    - AND  
  
 The **Waste Coordinator - West (DRC)** has confirmed with **Manager – Resource Recovery & Efficiency (DRC)** that the material source / property has all necessary demolition permits / approvals in place AND any agreements, arrangements or conditions that may have been imposed by Council are being met considering the information obtained from the Customer / Waste Generator.
- Staff taking the booking will designate a time (between 8am and 4pm) on a suitable day when staffing and equipment is available for the Customer / Waste Generator to deliver the material to the site.  
  
 Generally, 24 hours (minimum)- 48 hours (preferred) notice will be required.
- At the time of accepting the booking, Staff will confirm the requirements for packaging and presentation as shown below OR as detailed in the written procedure supplied to Council and accepted by the **Manager – Resource Recovery & Efficiency (DRC)**.
- Staff will advise the Customer / Waste Generator to ensure that **contact is made with the landfill on the day of arranged disposal**, prior to arrival, in case conditions are not suitable to accept the load/s (rain etc.).  
  
 The decision to proceed with acceptance on the agreed day will be confirmed by the **Waste Coordinator - West (DRC) OR most senior staff member at the site** - based on an assessment of site safety, trafficability, weather conditions, equipment / staff become unavailable etc.

*If conditions are not suitable, a Staff member will contact the customer, at the earliest possible time, to advise that agreed disposal must be changed.*

*NOTE: If conditions allow and the requirements for disposal are met (staff /equipment, weather etc.), domestic quantities may be accepted without the required notice / booking, at the discretion of the **Waste Coordinator - West (DRC)** or **most senior staff member at the site**.*

**Packaging, Presentation, Information and Handling Capacity required for Disposal:**

- **CLASS A (Friable) Asbestos** waste must be presented in two (2) sealed, heavy duty bags made from low density polyethylene (LDPE) at least 0.2mm thick.

*Each bag will have maximum dimensions less than or equal to 1.2 m in height and 0.9 m in width and a maximum weight of 15 kg.*

*Each bag must be marked "CAUTION ASBESTOS" in letters of not less than 40 mm in height.*

*These sealed bags must be able to be placed on the ground in a manner which prevents their rupture and / or creation of dust.*

- **CLASS B (Non – Friable) Asbestos** waste must be must be securely packaged at all times and must also be able to be placed, in the specific disposal location nominated by Council's staff, in a manner which prevents packaging ruptures and / or the generation of dust or the stirring up of dust.
- For **Asbestos Contaminated Soil**, the customer to provide a report from an occupational hygienist confirming:
  1. if the asbestos material in the soil is bonded or friable;
  2. the extent of asbestos contamination.

*If the asbestos is classified as **CLASS A (friable)**, the customer must supply copies of:*

- The **CLASS A (Friable)** licence for the person / company undertaking the removal.
- The licensee's safe work method statements, **which must address disposal** (including the means of discharging the waste to the disposal location nominated by the Waste Facility Operator), as well as the removal of the asbestos contaminated soil.
- The current application / permit issued by SafeWork NSW to remove the asbestos contaminated soil

**ALL asbestos contaminated soils** must be wetted down before delivery.

- The customer must inform staff on arrival that the waste contains asbestos AND refer to the booking details made previously.

*Staff may reject any load containing asbestos materials if no prior booking has been made.*

- The customer must place the waste in the location designated by Council (pre-delivery inspection by the customer may be appropriate)
- When unloading and disposing of any asbestos waste at the site, the waste must be unloaded in a manner as to prevent the generation of dust or the stirring up of dust.
- Large vehicles and any bulk containers / bins used to transport the waste must be cleaned before leaving the waste facility

*Other transport and unloading criteria may be applied by site staff as needed which will be aimed to ensure the safety of site staff / contractors and / or other site users, site visitors and the like.*

*This may include such requirements relating to (as examples):*

1. Full lining of the transport vehicle or container / bin;
2. Provision of lifting / slinging / forking equipment;
3. Restricting the style of vehicle / container where there are valid concerns regarding the capacity to discharge asbestos waste without creation of dust or the stirring up of dust.
4. Receival scheduling and / or time of day restrictions
5. Other requirements as deemed necessary to minimise public health risks.

#### **LOAD REJECTION:**

Where asbestos waste is not correctly packaged for delivery and disposal, or is not disclosed by the transporter as being asbestos or asbestos containing materials, **Weighbridge Operator** may:

- Reject the asbestos waste from the facility;
- Provide the transporter with educational material such as SafeWork NSW fact sheets on correct methods for packaging, delivery and disposal of asbestos.
- Question the transporter about the source of asbestos waste.

Where asbestos waste is identified and **rejected** for disposal (for any reason), the **Weighbridge Operator** or other staff member shall record relevant details in the **REJECTED LOAD REGISTER**, including the following (if known):

- Contact details of the transporter and the waste generator;
- Origin of the asbestos or asbestos containing material;
- Amount and type of asbestos or asbestos containing material;
- Reasons why the asbestos waste was not properly packaged, disclosed or able to be handled and deposited safely at the site;
- Development consent details (if applicable);

The waste generator (if known) shall be notified by the **Waste Coordinator - West (DRC)** and where possible, issued with a **rejected load certificate**.

**NOTE:** If load rejections occurs after weighbridge transaction has been recorded, the **Waste Coordinator - West (DRC)** will amend transaction within the weighbridge software / WasteLocate data - to reflect the rejection of the load.

#### **DISPOSAL / BURIAL:**

A dedicated Asbestos Disposal Area shall be maintained at the which shall essentially comprise a separate, dedicated monocell and be managed in accordance with the **NSW EPA Environmental Guidelines: Solid Waste Landfill (2<sup>nd</sup> Edn 2016) Section 8.4**

#### **Asbestos Disposal Area Features:**

1. Be available within the active Stage and the physical location recorded, by survey, for area and height and geo-referenced within the landfill void.
2. Not be openly accessible to site users. Suitable fencing / barricading and prohibition signage will be installed. Access gates / restrictions will remain closed other than when disposal within the area is occurring with the knowledge and under the supervision of site staff.
3. Have 'all weather' access such that small and heavy vehicles are able to manoeuvre and unload at the location.



4. Have water available for dust suppression at all times that unloading is occurring AND a risk of dust emanating from the activities is expected.

This will be achieved by means such as temporary reticulation piping / hoses to fine misting sprays (removed as filling progresses) or by other suitable means including water-cart, tanker trailer and the like, each with a suitable pump and spray/s fitted.

5. The physical set out of the disposal area shall aim to minimise any 'double handling' of asbestos containing materials / loads, by site staff / equipment.

Special considerations will be needed if deliveries are to be permitted using tipping trucks / bin bodies such that the material can be tipped as close as is practical to the final burial location.

In such cases, Council will also maintain a vehicle wash down / decontamination location and process which would generally involve the vehicle tipping occurring on a rubble / heavy rock pad which drains into the asbestos disposal area. Wash down would occur after each load with particular attention paid to tailgates, drawbars, body / bin and the wheels and tyres of the vehicle / trailer.

At completion of the permitted disposal sequence, the tipping pad is decommissioned and contents pushed into the asbestos disposal area. Machines used to push the clean-up material are to be hosed down / cleaned as close as is practical to the asbestos disposal area AND cover applied to the pushed waste / wash down water.

*Note: Wash down would not normally be undertaken for vehicles / bins used for MINOR or GENERAL loads where asbestos is received correctly wrapped, sealed and in undamaged packaging.*

6. Be relocated and resurveyed as needed throughout the filling of the Stage. Selection of a location that is nearer to the central 'spine' of the landfill design should minimise the need for frequent movement over time and should allow the site to be raised progressively as the Stage is filled. (overtopped roughly in a column through the filling of the Stages).
7. Be supplied with a wind direction indicator such that the supervising staff member can observe wind direction at all times during disposal. This can be as simple as a tape / ribbon or permanent windsock.
8. Be supplied with a sufficient volume of approved cover material to achieve the cover requirements detailed following.

#### **Asbestos Covering / Containment:**

*Asbestos waste presented to or discovered at the site, must be covered with Virgin Excavated Natural Material (VENM) OR other material as approved in the facility's Environment Protection Licence:*

1. *initially (at the time of disposal), to a depth of at least **0.15 metre**, and*
2. *at the end of each day's operation, to a depth of at least **0.5 metre**, and*
3. *finally, to a depth of at least **1 metre** (in the case of bonded asbestos waste or asbestos-contaminated soils) OR **3 metres** (in the case of friable asbestos material) beneath the final land surface of the landfill site.*

*Where this is not practicable and the asbestos waste is deposited in the active general solid waste cell, the asbestos deposition area should be as small as possible and located away from areas used by customers bringing in other waste streams AND be identified to staff so as to eliminate the potential for asbestos waste to be disturbed should 'disposal pit' (for dead animals – as an example) be excavated in the deposited general solid waste.*

**Asbestos Disposal Plant / Equipment Features and Staff actions:**

Where possible, the following protocols will apply for staff and for plant / equipment that is selected for use during the disposal of asbestos at the site AND / OR approved for use by Customer / Waste Generator in the case of MAJOR disposal works.

*Note: Council's requirements for staff handling asbestos (PPE etc) apply where staff contact with asbestos material is likely. Refer to relevant organisational SOP for guidance.*

1. HEPA filtration should be fitted to air-conditioned plant used in the disposal works.
2. Plant cabin shall remain closed during disposal works. The ventilation / air-conditioning should be running and 'recirculate' selected such that the cabin becomes positively pressurised.
3. Plant operators will remain in vehicles at all times during the disposal works and shall approach and exit the plant item up wind of the disposal location / activities in a contaminant free location.
4. A means of contact between the disposal plant operator and disposal vehicle should be available. Two-way radios and the like will eliminate the need for either the delivery vehicle driver OR the plant operator to exit their respective vehicles. DRC may require a working two-way to be available in any delivery vehicle used in **MAJOR** disposal works and/or may supply a portable handset for use in other disposal instances.
5. Delivery vehicles used in **MAJOR** disposal works must have functional remote-controlled body / tailgate locks to avoid drivers needing to exit the vehicle in / near disposal activities. Manual controls or controls that are operated from outside the vehicle will not be permitted for use in these works.
6. Additional / modification of these requirements, including site specific inductions / SOP briefings for may Customer / Waste Generator and their contractors + Council staff, may be a condition of receipt for **MAJOR** disposal works.

The **Manager – Resource Recovery & Efficiency (DRC)** will determine the inclusions of an appropriate SOP, formal vehicle requirements, unloading processes and the likes, based on the proposed disposal details supplied to Council (in advance) by the Customer / Waste Generator.

**BENEFIT OF COMPLIANCE TO PROCEDURE:**

- Limit environmental damage
- Health and safety of staff, public / facility users protected

**CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:**

- Infringements and/or fines from Regulatory Agencies

**REVIEWED BY:****DATE:****APPROVED BY:****DATE**

## APPENDIX 28:      MANAGEMENT OF OZONE DEPLETING GASSED ITEMS

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the activities of acceptance and management of waste materials that contain ozone depleting gas (refrigerant gas) at **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

Weighbridge staff to determine if incoming loads contain items which commonly contain ozone depleting gas (including refrigerators, freezers, air-conditioners or similar) are present through inspection protocol SOP in this PIRMP.

Items that are identified and are understood to be still containing gas (have no degassing certificate) OR have no obvious signs to suggest gas has been released (missing compressors, cut pipes etc.) will be:

- Deposited by the user at a predetermined location on the site where damage / release of gas is minimised Instructions on that location shall be provided to the site user by the **Weighbridge Attendant**.
- Segregated from other waste until such time as a suitably qualified and certified party can be engaged to decant the gas from the units and certify gas has been removed
- Items can then be co-mingled with the metal waste stockpiles at the site (pushed up)

It is considered essential that all **staff** at the site are aware and understand the specific requirements for safe handling of items (not to be crushed or damaged / pushed into stockpiles until advised that degassing has been completed).

#### BENEFIT OF COMPLIANCE TO PROCEDURE:

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

#### CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:

- Infringements and/or fines from Regulatory Agencies

**REVIEWED BY:**

**DATE:**

**APPROVED BY:**

**DATE**

## APPENDIX 29: OPERATION OF THE COMMUNITY RECYCLING CENTRE

### Standard Operating Procedure (SOP)

#### PURPOSE AND SCOPE

The purpose of this procedure is to define the activities of acceptance and management of waste materials destined for the Community Recycling Centre (CRC) located within the **Whylandra Waste & Recycling Centre**.

#### PROCEDURE/STANDARD

##### ACCEPTANCE:

*Small vehicles which pass through the site weighbridge will undergo waste screening.*

*Upon determination that the customer has materials that are suitable for receipt at the CRC, the **weighbridge operator** will provide the following information to the customer.*

##### General:

- *Directions to the CRC if open. If not open, the customer to be advised of the standard hours of operation of the CRC; AND*
- *Materials suitable for receipt will be verbally confirmed and with initial visit, a prepared handout supplied where appropriate; AND*
- *Confirm the general safety requirements for entering / using the CRC, including:*
  1. *Be aware of other users and their vehicles and do not exceed 5km/hr around the CRC shed.*
  2. *Pedestrians have right of way in the CRC building and surrounds*
  3. *Park vehicles clear of traffic lanes – do not block entry or exits*
  4. *Carefully place items in the labelled containers only.*
  5. *Do not leave other materials in the CRC (like furniture, toys, clothes asbestos etc)*
  6. *Immediately notify a council staff member if you spill materials, notice spillages at the CRC OR if you see other dangers.*
  7. *Call Triple Zero ('000') for any life threatening emergency at the CRC.*

##### SUPERVISION OF THE CRC:

*If for any reason a member of staff is not available to supervise the CRC during normal operating hours, the access doors are to be closed AND the weighbridge operator shall advise users of the closure of the CRC on entry to the site.*

##### MANAGEMENT OF FULL / EMPTY CONTAINERS:

- *Whenever a storage container becomes full, DRC staff will exchange the storage for an empty container of the same type. Staff will secure the full storage and prepare to transfer it into the designated area of the secure compound in accordance with training provided by Toxfree / NSW EPA.*
- *Only staff that are fully trained and licenced shall operate the forklift provided at the CRC.*

- Staff shall ensure that access to the CRC is restricted and there are no CRC users inside / using the facility before operating the forklift in / around the CRC.
- Once storage / CRC maintenance has been completed and the forklift safely parked and secured, the CRC can be re-opened and users allowed to continue accessing the CRC.
- Loading of full / empty containers onto the commercial servicing contractor's vehicle shall (where possible) occur outside of operating hours of the CRC. The collection truck is to be parked so not to obstruct SCRC traffic movements.
- Suitable traffic controls ('witch's hats', delineator poles etc.) to be placed around the truck loading area in order to minimise potential for customer vehicle interaction during loading / unloading.

**RECORDING OF USAGE / RECEIVED MATERIALS:**

DRC will record all relevant data relating to operation of the CRC in accordance with the NSW EPA requirements, including use of the 'electronic tablet' provided to Council. Refer to EPA instructions for details.

**GENERAL COMPLIANCE INSPECTIONS:**

DRC will record all relevant environmental compliance / safety inspection information as specified in the site inspection checklists. This shall be in addition to actions required by the NSW EPA as relayed in relevant training or directives.

**BENEFIT OF COMPLIANCE TO PROCEDURE:**

- Limit environmental damage
- Health and safety of staff, public / facility users protected
- Complies with grant funding and NSW EPA operational support agreements

**CONSEQUENCE OF NON-COMPLIANCE TO INSTRUCTION:**

- Infringements and/or fines from Regulatory Agencies

**REVIEWED BY:**

**DATE:**

**APPROVED BY:**

**DATE**

**APPENDIX 30: COMMUNICATIONS RECIPIENTS SCHEDULE (NEIGHBOURS)**

MAP (500m radii) line shown AND Occupier List to be inserted from update of 8.6 of MARCH 2018 Version.

## APPENDIX 31: ENVIRONMENTAL REPORTING CHECKLISTS

The following procedures define the protocol for undertaking site inspection and audits at the **Whylandra Waste & Recycling 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 **PIRMP** 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)	<b>Waste Coordinator - West (DRC)</b>
Site Audit	Quarterly, six monthly	<b>Resource Recovery Performance Coordinator (DRC)</b>
Environmental Audit	Annual	<b>Manager – Resource Recovery &amp; Efficiency (DRC)</b>

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

ACTIVITY AREAS – GENERAL INSPECTION CHECKLIST								
WHYLANDRA WASTE & RECYCLING CENTRE								
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			
Primary Detention basins – empty and de-silted.	Monthly/ After rain							
Site re-vegetation areas are in good condition – no exposed waste faces, erosion.	Monthly							
Site vegetation control –slashing, evidence of weed infestation.	Monthly							
Confirm any Leachate pumping volume (where applicable) has been recorded each day pumping occurred.	Weekly	Week 1	Week 2	Week 3	Week 4			
Leachate dams / structures sound –No Stormwater inflow or seepage noted.	Monthly							
Leachate drainage lines, sumps and discharge lines functioning.	Monthly							
Intermediate cover applied to filled areas.	Weekly	Week 1	Week 2	Week 3	Week 4			
Final capping applied to final landform design.	Quarterly							
No evidence of erosion of the intermediate capping.	Monthly/ After rain							



ACTIVITY AREAS – GENERAL INSPECTION CHECKLIST									
WHYLANDRA WASTE & RECYCLING CENTRE									
DATE:							INSPECTED BY:		
ISSUE	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS:	
No evidence of leachate eruption through the soil cap zone / landfill toe/batters.	Weekly / After rain	Week 1	Week 2	Week 3	Week 4				
Tipping face being kept to minimum size and shaped for minimum cover placement.	Weekly	Week 1	Week 2	Week 3	Week 4				
Waste placed in 200-300mm layers and the correct compaction pattern applied.	Daily	Week 1	Week 2	Week 3	Week 4				
Cover placed (weekly) and exposed waste areas completely covered.	Weekly	Week 1	Week 2	Week 3	Week 4				
Cover 'stripped' to expose waste whenever over filling occurs.	Weekly	Week 1	Week 2	Week 3	Week 4				
Any evidence of litter beyond the active tipping area.	Weekly	Week 1	Week 2	Week 3	Week 4				
Condition and functionality of stormwater infrastructure sound.	Monthly/ After rain								
Any evidence of sedimentation downstream of stormwater basins or detention structures.	Monthly/ After rain								
Evidence of soil tracking onto road surfaces.	Weekly/ After rain	Week 1	Week 2	Week 3	Week 4				
Signs of dust generation around perimeter of site.	Weekly	Week 1	Week 2	Week 3	Week 4				

## ACTIVITY AREAS – GENERAL INSPECTION CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:							INSPECTED BY:	
ISSUE	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS:
Surface of hardstand areas intact/repairs or rectification required.	Monthly							
Fire safety buffer zone maintained around waste stockpiles.	Monthly							
Compliance with facility operating times.	Weekly	Week 1	Week 2	Week 3	Week 4			
Septic / wastewater tanks inspected and are functional. No evidence of effluent overflows noted.	Weekly	Week 1	Week 2	Week 3	Week 4			
Record of Incidents (entire facility) up to date.	Daily	Week 1	Week 2	Week 3	Week 4			
Check Sampling Kit contents are complete and available / intact	Monthly							
Evidence of bird infestations at tipping face.	Weekly	Week 1	Week 2	Week 3	Week 4			

**VERIFIED BY: Waste Coordinator - West (DRC)**  
  
**DATE:**

☐ Satisfactory      ☐ Unsatisfactory

**FERAL ANIMAL INSPECTION & ACKNOWLEDGEMENT RECORD**

WHYLANDRA WASTE &amp; RECYCLING CENTRE

YEAR:

ANIMAL	JANUARY	APRIL	JULY	OCTOBER	PRESENCE Y/N	ACTION TAKEN	COMMENTS
Feral Cats							
Rats/mice							
Dogs							
Foxes							

VERIFIED BY: Waste Coordinator - West (DRC)

☐  
Satisfactory☐  
Unsatisfactory

DATE:

## WASTE STOCKPILING (ACTIVE LANDFILLING AREA) INSPECTIONS

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

INSPECTED BY:

ISSUE:	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Hardstand areas, roads and unloading zone free of excessive 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			
General housekeeping – site tidy – litter collected, signage in place etc.	Weekly	Week 1	Week 2	Week 3	Week 4			
Removal of stockpiled organics / wastes from SVRC bunkers is occurring routinely (added to stockpiles / removed off site)	Weekly							
Activities being contained within designated site areas. Bulk mass of stockpiles being managed to prevent likelihood of spontaneous combustion.	Weekly	Week 1	Week 2	Week 3	Week 4			
Excessive odours not present.	Weekly	Week 1	Week 2	Week 3	Week 4			
Excessive dust not occurring during mulching / crushing works occurring.	Daily when processing							

## WASTE STOCKPILING (ACTIVE LANDFILLING AREA) INSPECTIONS

WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

INSPECTED BY:

ISSUE:	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Firefighting tanker available and checked	Weekly	Week 1	Week 2	Week 3	Week 4			
Contamination in stockpiles being controlled / removed	Weekly	Week 1	Week 2	Week 3	Week 4			

VERIFIED BY: Waste Coordinator - West (DRC)

☐
☐

Satisfactory

Unsatisfactory

DATE:

## WEIGHBRIDGE – SITE INSPECTION CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

INSPECTED BY:

ISSUE	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Entrance and exit roads free of excessive 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			
Roadways and hardstand areas intact/repairs or rectification required	Weekly/ After rain							
General housekeeping – site tidy – litter collected, signage in place, mowing etc.	Weekly	Week 1	Week 2	Week 3	Week 4			
Evidence of fuel / lubricant, contamination / spillage?	Weekly	Week 1	Week 2	Week 3	Week 4			
All signage and traffic control operating effectively.	Daily	Week 1	Week 2	Week 3	Week 4			
Fire extinguishers / fire blankets in place and tags current	Weekly	Week 1	Week 2	Week 3	Week 4			

## WEIGHBRIDGE – SITE INSPECTION CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:							INSPECTED BY:	
ISSUE	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Emergency first Aid Kits on site and fully stocked.	Weekly	Week 1	Week 2	Week 3	Week 4			
UHF Radio Checks completed (Receive / Transmit) and battery charge	Daily	Week 1	Week 2	Week 3	Week 4			
Fuel containers and fuel storage (for generator) not leaking/properly sealed / bunded.  Generator started / operational	Weekly	Week 1	Week 2	Week 3	Week 4			
<b>VERIFIED BY: Waste Coordinator - West (DRC)</b> <div style="display: flex; justify-content: space-around; width: 100%;"> <div style="text-align: center;"> <input type="checkbox"/> Satisfactory         </div> <div style="text-align: center;"> <input type="checkbox"/> Unsatisfactory         </div> </div>								
DATE:								

## COMMUNITY RECYCLING CENTRE - SITE INSPECTION CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

INSPECTED BY:

ISSUE	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Emergency spill kits tamper checked / confirmed as fully stocked.	Daily	Week 1	Week 2	Week 3	Week 4			
By-catch chemicals & hazardous materials properly stored & secured when not being accessed.	Daily	Week 1	Week 2	Week 3	Week 4			
General housekeeping – site tidy – litter collected, signage in place, mowing etc.	Daily	Week 1	Week 2	Week 3	Week 4			
Gates securely locked when not open to the public.	Daily	Week 1	Week 2	Week 3	Week 4			
Receptacles not being overfilled. Full stillages stored in secure area have labels applied and are separated from non-compatible materials. (Refer Toxfree training).	Daily	Week 1	Week 2	Week 3	Week 4			
All signage in place and traffic controls operating effectively.	Daily	Week 1	Week 2	Week 3	Week 4			
Entrance and exit roads free of excessive dirt and debris.	Weekly / After rain	Week 1	Week 2	Week 3	Week 4			
Evidence of contamination / spillage? Clean-up undertaken?	Daily	Week 1	Week 2	Week 3	Week 4			



## COMMUNITY RECYCLING CENTRE - SITE INSPECTION CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

INSPECTED BY:

ISSUE	INSPECTION FREQUENCY AND ACKNOWLEDGEMENT					SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Fire extinguishers / fire blankets in place and fully charged / undamaged	Daily	Week 1	Week 2	Week 3	Week 4			
Test dousing shower and eye wash	Weekly	Week 1	Week 2	Week 3	Week 4			
Oil storage – secured/not leaking (dip and arrange collection if >75%)	Weekly	Week 1	Week 2	Week 3	Week 4			
Clean obstructions from security cameras and ensure data recording is occurring correctly.	Weekly	Week 1	Week 2	Week 3	Week 4			
CRC reporting 'tablet' charged and functioning. Data being recorded in accordance with EPA requirements. Problems reported to EPA immediately.	Per EPA	Week 1	Week 2	Week 3	Week 4			
Fire extinguisher tags current?	Monthly							

VERIFIED BY: Waste Coordinator - West (DRC)

☐ Satisfactory

☐ Unsatisfactory

DATE:

## QUARTERLY & SIX MONTHLY SITE AUDIT CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:			CONDUCTED BY:		
ISSUE	ACTIVITY FREQUENCY AND ACKNOWLEDGEMENT		SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Water quality monitoring undertaken (surface water, ground water and leachate)	6 Monthly				
EPL Environmental Monitoring (Leachate, Groundwater, Surface water, Gas monitoring etc.) undertaken, evaluated and published to webpage within 14 days of receipt from lab.	6 Monthly				
Leachate management system intact and operational.	Quarterly				
Intermediate cover applied to filled areas.	Quarterly				
Final capping applied to final landform per EPL obligations.	Quarterly				
Surveys undertaken to confirm landfill design is being achieved	Quarterly				
Vermin – inspection undertaken	Quarterly				
Fire Safety Certificate inspection undertaken for all essential fire safety equipment onsite. Fire breaks being maintained.	Quarterly				
Activities confined to appropriate areas	Quarterly				
Conditions of EPA licence for facility being met	Quarterly				
Incident reporting –entries correct and complete and documentation updates occurred as required	Six Monthly				

## QUARTERLY & SIX MONTHLY SITE AUDIT CHECKLIST

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

CONDUCTED BY:

ISSUE	ACTIVITY FREQUENCY AND ACKNOWLEDGEMENT		SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Register of site inspections – current and complete.	Six Monthly				
Review of on-site procedures against PIRMP / EPL undertaken including copies of document / records viewed.	Six Monthly				
SOPs understood by staff & required training up to date with records available.	Six Monthly				
Inspection of sewerage /septic infrastructure undertaken and servicing records available (corrective action initiated if required).	Six Monthly				
Inspection of stormwater infrastructure undertaken (corrective action initiated if required).	Six Monthly				
Review of incident reports and corrective actions.	Six Monthly				
Review of dust and sediment control requirements.	Quarterly				
Weighbridge tested and verified.	Six Monthly				

VERIFIED BY: Resource Recovery Performance Coordinator (DRC)

☐

Satisfactory

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Unsatisfactory

DATE:

## ANNUAL LANDFILL ENVIRONMENTAL MANAGEMENT PLAN & PIRMP AUDIT

### WHYLANDRA WASTE & RECYCLING CENTRE

DATE:

CONDUCTED BY:

ISSUE	ACTIVITY FREQUENCY & ACKNOWLEDGEMENT	SATISFACTORY Y/N	ACTION TAKEN	COMMENTS
Annual Site Volumetric Survey undertaken?	Annual			
Review of environmental monitoring records and confirm data published to web.	Annual			
Review of environmental management documentation including LEMP, PIRMP, SOPs, Registers and Reporting.	Annual			
Toolbox meeting with site staff, and lease / ancillary facility operators to ensure an understanding of the PIRMP requirements are satisfactory.	Annual			
Review of non-conformance reports, weekly inspection checklist, Quarter & Six monthly audit, Pollution Incident Records and PIRMP reviews (occurred as required).	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 prepared & reviewed for LEMP / PIRMP amendments / EPA reports.	Annual			

VERIFIED BY: Manager – Resource Recovery & Efficiency (DRC)

☐ Satisfactory

☐ Unsatisfactory

DATE:

## **APPENDIX 32: SITE SERVICES & INFRASTRUCTURE PLANS**

Attached