Government of Western Australia
Department of Water and Environmental Regulation

Amendment Notice 3

Licence Number	L8651/2012/1
Licence Holder	Waroona Resources Pty Ltd
ACN	169 962 421
File Number:	DWERT1892
Premises	Premium Waste Management Lot 15 on Deposited Plan 59265 Richards Road WAROONA WA 6162
Date of Amendment	11 June 2019

Amendment

The Chief Executive Officer (CEO) of the Department of Water and Environmental Regulation (DWER) has amended the above Licence in accordance with section 59 of the *Environmental Protection Act 1986* (EP Act) as set out in this Amendment Notice. This Amendment Notice constitutes written notice of the amendment in accordance with section 59B(9) of the EP Act.

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A/MANAGER WASTE INDUSTRIES

REGULATORY SERVICES

an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA

Definitions and interpretation

Definitions

In this Amendment Notice, the terms in Table 1 have the meanings defined.

Table 1: Definitions

Term	Definition
ACN	Australian Company Number
Amendment Notice	refers to this document
Category/ Categories/ Cat.	categories of Prescribed Premises as set out in Schedule 1 of the EP Regulations
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department Administering the *Environmental Protection Act 1986* Locked Bag 33 Cloisters Square PERTH WA 6850 info@dwer.wa.gov.au
Delegated Officer	an officer under section 20 of the EP Act
Department	means the department established under section 35 of the *Public Sector Management Act 1994* and designated as responsible for the administration of Part V, Division 3 of the EP Act.
DWER	Department of Water and Environmental Regulation
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	*Environmental Protection Regulations 1987* (WA)
Existing Licence	The Licence issued under Part V, Division 3 of the EP Act and in force prior to the commencement of and during this Review
Licence Holder	Waroona Resources Pty Ltd
m^3	cubic metres
NEPM	National Environmental Protection Measure
EP Noise Regulations	*Environmental Protection (Noise) Regulations 1997* (WA)

Term	Definition
Occupier	has the same meaning given to that term under the EP Act.
Prescribed Premises	has the same meaning given to that term under the EP Act.
Premises	refers to the premises to which this Decision Report applies, as specified at the front of this Decision Report.
Risk Event	as described in *Guidance Statement: Risk Assessment*

Amendment Notice

This amendment is made pursuant to section 59 of the *Environmental Protection Act 1986* (EP Act) to amend the Licence issued under the EP Act for a prescribed premises as set out below. This notice of amendment is given under section 59B(9) of the EP Act.

This notice is limited to an amendment for Category 62 and the addition of Category 13 and Category 61A. No changes to the aspects of the original Licence relating to Category 63 have been requested by the Licence Holder.

The following guidance statements have informed the decision made on this amendment:

- *Guidance Statement: Regulatory Principles (July 2015)*
- *Guidance Statement: Setting Conditions (October 2015)*
- *Guidance Statement: Decision Making (February 2017)*
- *Guidance Statement: Risk Assessment (February 2017)*
- *Guidance Statement: Environmental Siting (November 2016)*

Amendment description

On 3 October 2018, Waroona Resources Pty Ltd (the Licence Holder) submitted an application to DWER for a licence amendment for Licence (L8651/2012/1) for the premises located at Lot 15 on Deposited Plan 59265 Richard Road, Waroona (the Premises). The amendment seeks to include Category 13: *Crushing of building material* on the Licence, increase the Premises' hardstand areas and increase the height of stockpiles on the Premises.

The Licence Holder has also clarified throughputs relating to existing activities for the mulching and chipping of greenwaste (including timber); 35,000 tonnes per annum. These activities and the proposed throughput meet the description and threshold for Category 61A: *Solid waste facility* (1000 tonnes per annual period). As a result, DWER has included Category 61A on the licence as part of the amendment.

Table 2 below outlines the proposed changes to the Licence.

Table 2: Proposed design or throughput capacity changes

Category	Current throughput capacity	Proposed throughput capacity	Description of proposed amendment
13	-	50,000 tonnes per annum	Addition of new category to licence
61A	-	35,000 tonnes per annum	Addition of new category to licence (to cover existing activities)
62	200,000 tonnes per annum	200,000 tonnes per annum	No change
63	150,000 tonnes per annum	150,000 tonnes per annum	No change

Process Description

The Licence Holder commenced operations of the Premises in 2012 as an inert landfill, utilising a void progressively created by a sand quarrying operation. The sand mining operations are still active, and as further voids are created they are backfilled with inert waste material, as per the conditions of the Existing Licence.

The Existing Licence for Category 63 (Class I Inert landfill) and Category 62 (solid waste depot) operations allows for the acceptance of green waste, Inert waste Type I, Inert Waste Type 2, Special Waste Type 2 (asbestos), clean fill and contaminated solid waste that meets Class I criteria. It is specified in Condition 1.2.3 and Table 1.2.2 of the Existing Licence that all screening, sorting and storage of waste must occur only on the existing transfer station hardstand.

Proposed changes to operations

Transfer station extension

The Licence Holder has proposed to increase the area of the existing transfer station as shown in Figure 1. This will allow for safer movement of trucks on the Premises, provide more room for the storage of materials in stockpiles and ensure more room for the segregation of waste types to keep stockpiles free from cross-contamination.

The expansion of the transfer station also requires the clearing of approximately 8000m² of vegetation to allow for a hardstand to be laid. An application for a clearing permit (CPS 8187/1) was submitted to DWER on 9 September 2018. As part of the assessment process DWER (Clearing Regulation) determined that the original proposed area for clearing was unsuitable and a new area was proposed. The assessment of the related clearing application is still ongoing.

Proposed new hardstand areas

To further limit cross-contamination of stockpiles, and create additional stockpiling and processing areas, the Licence Holder has proposed to construct hardstands on two additional areas of the Premises as outlined in Figure 1.

- Hardstand Area 2 will be used as a timber/mulch processing area for material which is pulled from waste loads and will be approx. 54,000 m²; and
- Hardstand Area 3 will be used for the stockpiling of recycled roadbase, asphalt and concrete and will be approx. 97,000m².

Hardstands will be constructed of 200mm crushed recycled road-base topped with 75mm recycled drainage aggregate, and will be constructed using recycled roadbase and crushed concrete material salvaged from stockpiles received at the existing transfer station. This material is to be brought to the site from external customers or from another of the Licence Holders Premises, being the 'Eco Resources Recycling Transfer Station' located in Hope Valley (L8757/2013/1).

Due to the large amount of roadbase required for the construction of hardstand areas they will be laid in stages as material is received at the site. The proposed staging of works is outlined below:

- Stage 1:
    - Approximately 10,000m² of Hardstand Area 2 and associated bund walls will be constructed first; and
    - The transfer station extension and associated bund walls will be constructed in full as soon as the amendment to planning approval is issued by the Shire of Waroona.

- Stage 2:
    - Hardstand Area 2 and associated bund walls construction will continue, with completion estimated by June 2021;
    - Hardstand Area 3 and associated bund walls construction will commence, with completion estimated by June 2021;
    - Crushing equipment required for Category 13 activities will be brought to site and located on Hardstand Area 3, when an adequate area of Hardstand Area 3 has been constructed to accommodate for Category 13 operations; and
    - Installation of wire fencing on top of bund walls.

Areas to be constructed under the proposed stage 1 of works are outlined in Figure 1. below.

Topsoil stripped from respective areas will be used in combination with imported sand and inert materials to construct the 5m high bund walls around the hardstand areas, as located in Figure 1 below. Following this the bunds will be planted out and mulched to ensure stability. The bunds are being utilised for both noise and dust suppression purposes for activities occurring on the new hardstand areas. A wire fence will also be installed on top of the bund walls, acting to contain any windblown waste from the premises. Roadbase will be moved to the new hardstand areas via a dump truck and compacted to form a hard level base.

Stormwater will drain through the hardstand and bund walls as these will not be sealed however, all materials which are either processed or stored on these areas will be inert or organic in nature and clean and free from potential contaminants.

Equipment stored on hardstand areas
As well as being the laydown area for concrete recycling and timber/wood stockpiles, the new hardstand areas will also house the relevant equipment associated with each of these processes.

Timeframes for construction
The timeframe for completion of the new hardstand areas is dependent on the amount of roadbase required and the regularity of usable materials arriving at the transfer station for recycling, with the Licence holder advising that it may take up to 2 years to fully complete the required areas. The bund walls associated with the hardstand areas will be constructed as the hardstand is constructed.

A comprehensive list of emissions resulting from hardstand construction with the Licence Holders proposed controls is included in Table 3 below. The related risk assessment is outlined in Table 8 below.

Addition of Category 61A – Solid waste facility
All processing of timber will occur on Hardstand Area 2. Timber and green-waste received with mixed waste loads will be shredded and chipped to a resalable size for reuse.

No treated timber is to be accepted to the site for shredding or mulching purposes.

The Licence Holder has advised that the expected quantity of materials processed will be 35,000 tonnes per annum, and that no more than 2,000 tonnes of unprocessed materials will be stockpiled at any one time. Material will be stockpiled in windrows 4 metres high, 60 metres long and 5 metres wide. The stockpiles will be removed or rotated monthly.

No increase in noise levels are expected from operations as the shredder to be used for timber/greenwaste processing is already in use on site. The shredder also has water dust suppression built in which operates whenever the shredder is in use to prevent the emission of fugitive dust. Regular use of the onsite water truck, hoses and sprinklers will also maintain all working areas in a damp state.

A list of potential emissions and their controls relating to Category 61A is detailed in Table 3 below. The related risk assessment is outlined in Table 9 below.

Addition of Category 13 – Crushing of building material

The Licence Holder has proposed to add Category 13 to the existing licence at a capacity of 50,000 tonnes per annum. Materials already received, and currently stored, at the transfer station will be crushed and impacted to various sizes and used on site for roads, drainage and general construction. Crushed materials will also be sold to external customers for reuse when not required for onsite construction.

Crushing operations will be limited to between 7am to 5pm Monday to Friday, and 7am to 12pm Saturdays. All crushing operations will occur on Hardstand Area 3 and will only commence when an initial area of Hardstand Area 3 has been constructed. Until such a time, the crusher will not be bought to site and/or operated on-site.

No materials resulting from Category 13 activities will be used for construction of any hardstand areas on site, but will be used for the construction of other site infrastructure (roads, bunds etc.), as well as crushed product being sold to external customers.

Noise emissions from Category 13 activities will be managed through a restriction of operational hours and the installation of 5m high bund walls around the crushing area.

Dust emissions generated from the crushing of materials will be managed through water dust suppression systems built into the relevant machinery, and regular use of the onsite water truck, hoses and sprinklers will maintain all working areas and materials in a damp state.

Stockpiles of crushed material will be limited to a height of 5m and dust lift-off will be managed using a movable sprinkler system which will be installed in the area, and through regular wetting using the water truck.

Asbestos management – Category 13

The Premises is currently licenced to accept Special Waste Type 1 (asbestos) only at the Class 1 inert landfill (Premium Waste landfill) activity areas on the Premises. Asbestos is not to be accepted at the transfer station as part of construction and demolition waste loads and any load found to be containing asbestos is immediately rejected from this area. If asbestos is found after the load has been tipped the entire load will be wet down and reloaded to be taken to a designated asbestos cell located at the Premium Waste landfill.

If material is received for crushing purposes it will be segregated into a separate stockpile for inspection prior to crushing, which will be clearly identified by signage. This will ensure that any material stockpiled for later crushing will not be contaminated with ACM. Once material has been crushed, it will be sampled to ensure there is no asbestos contamination.

Concrete bunds will be placed between stockpiles on Hardstand Area 3 that are in close proximity to each other to avoid cross contamination of the stockpiles tested and stockpiles untested for ACM. Tested product will be stored as tested material available for collection.

A list of potential emissions and their controls relating to the addition of Category 13 is detailed in Table 3 below. The related risk assessment is outlined in Table 9 below.

Increase of Stockpile height

Stockpile height for waste/recyclables is limited to 5m under the Existing Licence Condition 1.2.3 and Table 1.2.2. The Licence Holder has requested that this height be increased to 8m to allow for greater storage capacity of recyclable materials and to free up surface area on the existing transfer station hardstand.

A list of potential emissions and their controls relating to the increase in stockpile heights is provided in Table 3 below. The related risk assessment is outlined in Table 9 below

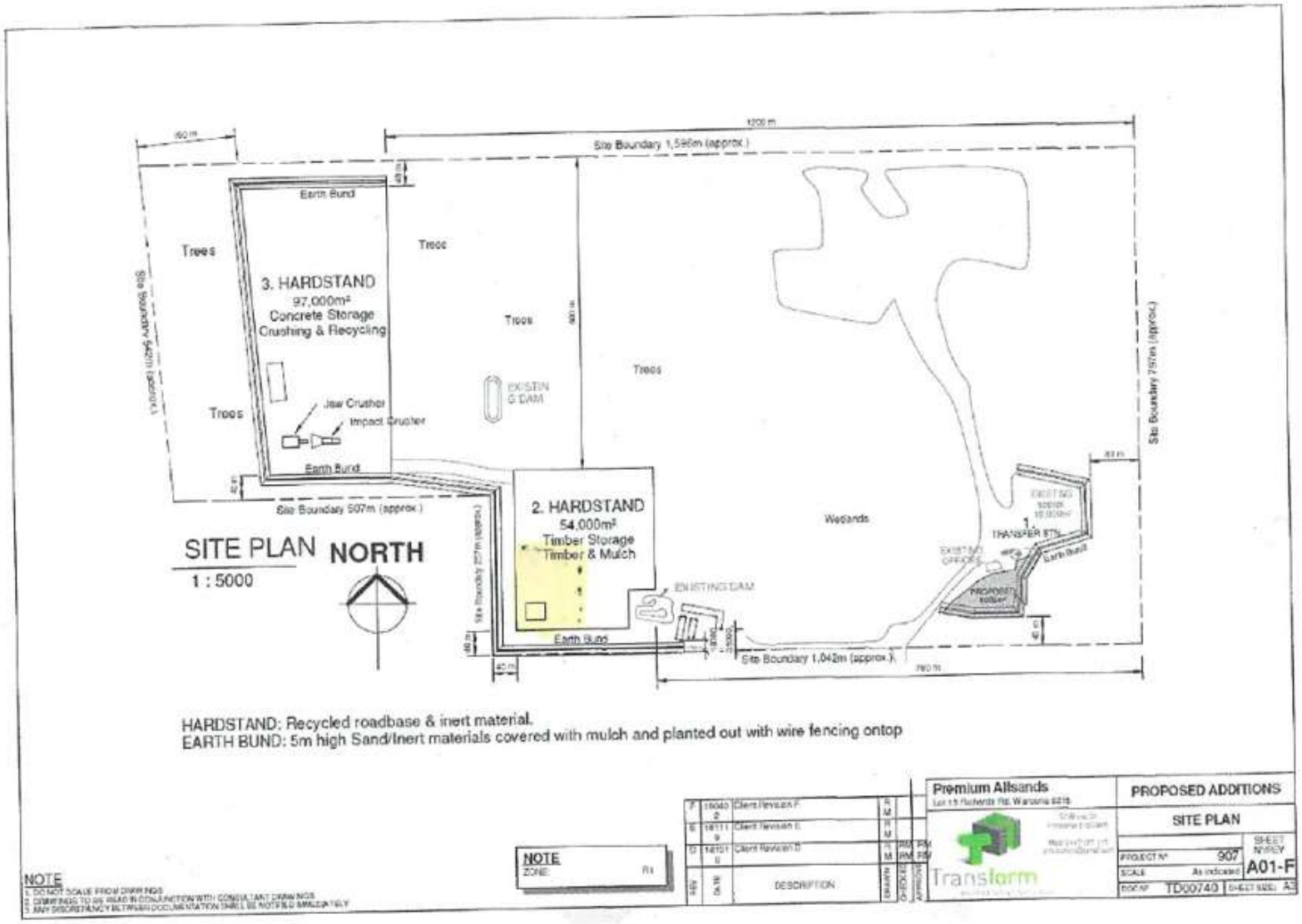


Figure 1: Additional Hardstand Areas - Stage 1 of Hardstand Area 2 highlighted in yellow

Table 3: Emissions and discharges from proposed changes to processing

Source	Emission	Applicant Controls
Construction of hardstand, roads, bunds and drainage areas – refer to Figure 1.	**Dust:** lift-off from hardstand areas	Hardstand will be compacted Regular use of water truck 5m bund wall around hardstand areas for localised dust retention
	Dust: movement of trucks and dumping of crushed materials	Entry/exit roads are regularly wet down using a water tank or sprinkler system Roads scrapped and swept daily for dirt and sand removal Loads and stockpiles will be wet down and dampened prior to unloading, loading and moving around site
	Noise: movement of trucks and dumping of crushed materials	Hardstand will be constructed within operational hours between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday 5m high bund walls surround the south and west property boundaries to act as a noise barrier to neighbouring farms Machinery noise emissions are low
Crushing and shredding operations – refer to Figure 1.	**Dust:** crushing, shredding and movement of materials	All working areas are maintained in a damp state Equipment used in processes contains built in water suppression equipment which operates whenever the equipment is in use Sprinkler system and water tank used on site Restriction of operations in times of unsuitable weather conditions
	Noise: equipment operations and movement of materials	Operations limited to between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday 5m high bund walls surround the south and west property boundaries to act as a noise barrier to neighbouring farms Machinery noise emissions are low
	Asbestos: ACM accepted for crushing releasing asbestos fibres into the air	Material is inspected prior to being accepted for crushing Evidence of ACM results in entire load being wet down and removed Once crushed, material is tested for asbestos contamination Separation of stockpiles tested and awaiting testing for ACM by concrete bunds reduces the risk of cross contamination
	Stormwater: high rainfall events	Stormwater will drain through hardstand and soil bunding as they are not sealed Materials stored on hardstand are sorted prior to stockpiling to ensure they are inert, clean and free from contaminants, minimising contamination risk when in contact with stormwater
Increase of stockpile height	**Dust:** Increased dust lift-off from higher stockpiles	5m bund wall around hardstand areas for localised dust retention

Source	Emission	Applicant Controls
		All working areas are maintained in a damp state using water tank, sprinkle systems and hoses
General site operations	**Windblown Waste**	Perimeter fence installed around bunded wall area for light waste catchment Perimeter walks conducted to collect waste Trucks will be covered before leaving premises

Other approvals

The Licence holder has obtained an in principle agreement for clearing permit CPS 8187/1 to clear an area of native vegetation to allow for the extension of the transfer station. Previously issued local government planning approval was required to be amended to accommodate for a change in the transfer station extension area as a result from changes to the clearing area approved under CPS 8187/1. A summary of these approvals is included in Table 4 below.

Table 4: Relevant approvals

Legislation	Number	Approval
Environmental Protection Act 1986	CPS 8187/1	DWER (Clearing Regulation) has issued an in principle agreement on 6 June 2019 for clearing of vegetation to construct the Transfer station extension.
Planning and Development Act 2005	TP2067	Planning Consent for proposed licence amendments issued by the Shire of Waroona 01/03/2019. DWER understands that the Licence Holder is currently seeking amendments to the existing planning consent to accommodate for the change in clearing area and consequential changes to infrastructure siting.

Amendment history

A full history of the Premises' licence and amendment history is included in Table 5 below.

Table 5: Licence amendments

Instrument	Issued	Amendment
L8651/2012/1	16/08/2012	Licence issued
L8651/2012/1	21/08/2014	Transfer from Sidham Pty Ltd to Waroona Resources Pty Ltd
L8651/2012/1	26/11/2015	Licence amendment – addition of transfer station (Category 62) and increase design capacity and production capability
L8651/2012/1	09/06/2016	Licence amendment – variation of asbestos receipt conditions for Waroona and Yarloop fire impacted waste
L8651/2012/1	29/04/2016	Amendment Notice Amendment of licence expiry date to 19 August 2036
L8651/2012/1	16/02/2017	Amendment Notice 1 Revision of definition for 'non-biodegradable plastics'.

L8651/2012/1	16/08/2018	Amendment Notice 2 Changes to the requirements for the acceptance of asbestos contaminated soil
L8651/2012/1	11/06/2019	Amendment Notice 3 Addition of Category 13: Crushing of building material Addition of Category 61A: Solid waste facility Increase the Premises' hardstand areas and increase the height of stockpiles on the Premises

Location and receptors

The Premises sits in an area zoned as 'Rural 1 – general farming' as defined by the Shire of Waroona's Local Planning Scheme No. 7, and hence surrounding land is utilized primarily for agricultural purposes. Table 6 below lists the relevant sensitive land uses in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 6: Receptors and distance from activity boundary

Residential and sensitive premises	Distance from Prescribed Premises
Residential Premises (rural/residential)	1,000m north of premises boundary

Table 7 below lists the relevant environmental receptors in the vicinity of the Prescribed Premises which may be receptors relevant to the proposed amendment.

Table 7: Environmental receptors and distance from activity boundary

Environmental receptors	Distance from Prescribed Premises
Threatened Ecological Communities • Banksia Dominated Woodlands of the Swan Coastal Plan IBRA Region.	Mapped within the Premises boundary Note: existing operational areas have already been cleared and proposed new operational areas are currently subject to clearing assessment under Part V of the EP Act – refer to Table 4.
Green Growth Wetlands Commitments • Southern river/Cannington complex bushland • Peel Regionally Significant Natural Areas (Buller Road NR and adjacent Bushland)	
Geomorphic Wetlands – Swan Coastal Plain • Consisting of Sumpland basin and Palusplain flat complexes	
Hydrography WA 250K – Surface Water Lines (GA 2015) • Drainage Canal Line	400m South west of premises boundary

Risk assessment

Tables 8 and 9 below describe the Risk Events associated with the amendment consistent with the *Guidance Statement: Risk Assessments*. Both tables identify whether the emissions present a material risk to public health or the environment, requiring regulatory controls.

Table 8: Risk assessment for proposed amendments during construction

Risk Event					Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities	**Potential emissions**	**Potential receptors**	**Potential pathway**	**Potential adverse impacts**				
Cat 62 Solid waste depot: Construction of hardstand areas, roads, bunds and drainage	**Dust**: Lift-off from hardstand areas, movement of trucks and dumping of crushed materials	Residence 1,000m north of the Premises Wetlands mapped within the Premises boundary – refer to Table 7. Nearby surface water bodies - refer to Table 7.	Air	Health and amenity impacts	Minor	Possible	Medium	All hardstand areas will be compacted during construction. Through the construction phase the hardstand footprint along with entry/exit roads will be regularly wet down using a watercart or mobile sprinkler system. Loads and feedstock stockpiles used in construction works will also be wet down and damp prior to unloading, loading and moving around site. Roads will also be scrapped and swept daily to remove excess dirt and sand. These controls are deemed sufficient to manage the risk from dust.
	Noise: movement of trucks and dumping of crushed materials	Residence 1,000m north of the Premises	Air	Health and amenity impacts	Minor	Possible	Medium	Hardstand will be constructed within operational hours between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday. The nearest residence is 1,000m to the north and noise generated from machinery is generally low. Noise form construction works will be subject to the EP Noise Regulations. These controls are deemed sufficient to manage the risk from noise.

Table 9: Risk assessment for proposed amendments during operation

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		**Potential emissions**	**Potential receptors**	**Potential pathway**	**Potential adverse impacts**				
Cat 13 Crushing of building material	Operation of crushing equipment and movement of processed materials	**Dust**: associated with crushing activities and vehicle movements on unsealed hardstand	Residence 1,000m north of the Premises - refer to Table 7. Wetlands mapped within the Premises boundary – refer to Table 7. Nearby surface water bodies - refer to Table 7.	Air	Health and amenity impacts Impacts to surrounding ecosystem function	Minor	Possible	Medium	All working areas will be maintained in a damp state using a sprinkler system and watercart located on site. All equipment used in crushing and screening operations contains built in water suppression which operates whenever the equipment is in use. Operations are also restricted in times of unsuitable weather conditions. Some localised dust generation may occur.
		Dust: lift-off from product stockpiles							Height of product stockpiles restricted to 5m and maintained in a damp state to ensure dust lift off is mitigated
		Noise: generated from crushing equipment and vehicle movements	Residence 1,000m north of the Premises - refer to Table 7.	Air	Health and amenity impacts	Minor	Possible	Medium	Noise from operations will be subject to the EP Noise Regulations. Operational hours for equipment use occurs between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday. 5m high bund walls surrounding the south and west property boundaries to act as a noise barrier to neighbouring farms. The nearest residence is 1,000m to the north and noise generated from machinery is generally low.
		Asbestos:	Site personnel	Air	Health and	Major	Unlikely	Medium	Material is inspected prior to

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
		Asbestos fibres, from nonconforming waste types received at the Premises, being released into the air	Residence 1,000m north of the Premises - refer to Table 7.		amenity impacts				being accepted for crushing, any evidence of ACM results in entire load being wet down and removed from site. Once crushed, material is tested for asbestos contamination, separation of stockpiles tested and awaiting testing for ACM by concrete bunds reduces the risk of cross contamination.
		Stormwater: High rainfall events	Wetlands mapped within the Premises boundary – refer to Table 7. Nearby surface water bodies - refer to Table 7.	Storm-water run-off	Contamination or increased particulate loading in stormwater could enter surrounding waterways and wetlands	Minor	Unlikely	Medium	Stormwater will drain through hardstand as it is not sealed, however all materials stored on hardstand will consist of Inert Waste Type 1 materials and will be sorted prior to stockpiling to ensure that all items are clean and free from potential contaminants. Dust emissions may increase particulate loading in stormwater however dust mitigation controls have been deemed adequate to prevent this.
Cat 61A Solid waste facility	Operation of shredding and mulching equipment	**Dust:** generated from mulching and shredding of timber	Residence 1,000m north of the Premises - refer to Table 7 Wetlands mapped within the Premises boundary –	Air	Health and amenity impacts	Minor	Possible	Medium	All working areas will be maintained in a damp state using a sprinkler system and watercart located on site. The shredder used for mulching operations contains built in water suppression which operates whenever the equipment is in use. Operations are also restricted

Risk Event						Consequence rating	Likelihood rating	Risk	Reasoning
Source/Activities		Potential emissions	Potential receptors	Potential pathway	Potential adverse impacts				
			refer to Table 7. Nearby surface water bodies - refer to Table 7.						in times of unsuitable weather conditions. Some localised dust generation may occur.
	Storage of Green waste on hardstand	**Stormwater:** High rainfall events	Wetlands mapped within the Premises boundary – refer to Table 7. Nearby surface water bodies - refer to Table 7.	Storm-water run-off	Contamination or increased particulate loading in stormwater could enter surrounding waterways and wetlands	Minor	Unlikely	Medium	Stormwater will drain through hardstand as it is not sealed, however no long term storage of green waste is proposed. No more than 2,000 tonnes of unprocessed materials will be stockpiled at any one time, and the stockpiles will be removed or rotated monthly.
Cat 62 Solid waste depot	Increase in waste/ recyclables stockpile height from 5m to 8m	**Dust:** Increase of dust lift-off from higher stockpiles	Residence 1,000m north of the Premises - refer to Table 7 Wetlands mapped within the Premises boundary – refer to Table 7. Nearby surface water bodies - refer to Table 7.	Air	Health and amenity impacts	Minor	Unlikely	Medium	Stockpiles primarily consist of unprocessed inert and green wastes, these materials do not have a tendency to produce large quantities of fugitive dust All working areas will be maintained in a damp state using a sprinkler system and watercart located on site, 5m bund walls surround the hardstand for some localised dust retention. Nearest residence is 1,000m to the north – unlikely to be affected by localised dust

Decision

This assessment of the risks of activities on the premises has been undertaken with due consideration of a number of factors, including the information presented in the application and the documents and policies specified in this decision report (summarised in Appendix 1).

Based on this assessment, it has been determined that the Existing Licence will be amended subject to conditions commensurate with the determined controls and necessary for administration and reporting requirements. The following amendments are proposed to the Existing Licence:

- 8,000m² extension to the existing Transfer Station Area, with the concurrent construction of associated noise and dust mitigating bund walls (stage 1 works);
- The addition of Category 61A (Solid waste facility) to accommodate for the mulching and shredding of greenwaste and timber which is not currently covered in the Existing Licence;
- The construction of Hardstand Area 2 to house all Category 61A activities, to be constructed to an area of 10,000m² (stage 1 works) and subsequently to an area of 54,000m² (stage 2 works). Noise and dust mitigating bund walls will also be constructed concurrently;
- The addition of Category 13 (Crushing of building material) to authorise crushing and screening activities (stage 2 works); and
- The construction of Hardstand Area 3 to house all Category 13 activities, with the concurrent construction of associated noise and dust mitigating bund walls (stage 2 works).

Noting this, the Delegated officer has amended the Existing Licence to include Conditions specified to mitigate potential noise, dust and asbestos emissions generated from Category 61A and 13 activities, and construction works on the Premises.

The Delegated officer requires that the hardstand areas and bunds be built in accordance to the specifications with the amendment application and to be built to completion within the two year timeframe specified by the Licence Holder. To confirm this, the Delegated Officer requires that whenever a section of hardstand or bund is constructed, the Licence holder provide to the CEO a report within 28 days of completion from a suitably qualified professional, to confirm that the section has been constructed in accordance with specifications outlined in the application. The licence is amended in this regard with the addition of Condition 3.3 (3.3.1-3.3.2).

DWER notes that it may review the appropriateness and adequacy of controls at any time and that, following a review, DWER may initiate amendments to the approval under the EP Act.

Licence Holder's comments

The Licence Holder was provided with the draft Amendment Notice on 4 June 2019. Comments received from the Licence Holder have been considered by the Delegated Officer as shown in Appendix 2.

Amendment

1. The Registered Office address as listed on Page 1 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Registered Office: Waroona Resources Pty Ltd-
~~C/- Leiway Accounting Services~~
~~Suite 18, 7 The Esplanade~~
~~MOUNT PLEASANT WA 6153~~
62 Farmer Street
NORTH PERTH WA 6006

2. Prescribed Premises Categories listed on Page 1 of the Licence are amended by the insertion of the red text shown in underline below:

Category number	Category description	Category production or design capacity	Approved capacity
63	Class I inert landfill site: premises on which waste (as determined by reference to the waste types set out in the document entitled 'Landfill Waste Classification and Waste Definitions 1996' published by the CEO and as amended from time to time) is accepted for burial.	500 tonnes or more per year	150 000 tonnes per annual period
62	Solid waste depot: premises on which waste is stored, or sorted, pending final disposal or re-use.	500 tonnes or more per year	200 000 tonnes per annual period
13	Crushing of building material: premises on which waste building or demolition material (for example. Bricks, stones or concrete) is crushed or cleaned.	1 000 tonnes or more per year	50 000 tonnes per annual period
61A	Solid waste facility: premises (other than premises within category 67A) on which solid waste produced on other premises is stored, reprocessed, treated, or discharged onto land.	1 000 tonnes or more per year	35 000 tonnes per annual period

3. Condition 1.1.2 of the Licence is amended by the insertion of the following definitions as shown in red text below:

'Works' means the construction of the infrastructure and equipment specified in Table 3.1.1 and described at the locations shown in Schedule 1 of this Licence to be carried out at the Premises, subject to the Conditions.

'Stage 1' means the construction of 10,000m² of Hardstand Area 2 and the construction of the Transfer Station extension, as indicated in Map 6 of Schedule 1.

'Stage 2' means the construction of the remaining area of Hardstand Area 2, full construction of Hardstand Area 3, and equipment associated with Category 13 activities (mobile crusher) being brought to site, as indicated in Map 6 of Schedule 1.

4. Condition 1.2.3, Table 1.2.2 of the Licence is amended by the deletion of the text shown in strikethrough below and the insertion of the red text shown in underline below:

Table 1.2.2: Waste processing		
Waste type	**Process(es)**	**Process limits[1, 2]**
Greenwaste	Receipt, handling, mulching and storage (category 62~~),~~ category 61A)	(a) All greenwaste shall be stored and mulched on ~~the Transfer Station Hardstand in windrows~~ Hardstand area 2 in windrows as defined by Map 6 in Schedule 1; (b) No visible dust generated from mulching activities shall cross the boundary of the premises; (c) No treated timber waste shall be accepted to the Premises for shredding or mulching purposes
Inert Waste Type 1, Inert Waste Type 2 and Clean Fill	Receipt, handling , mechanical sorting, hand sorting, screening and storage (category 62)	(d) All screening, sorting and storage of waste shall occur ~~on the Transfer Station Hardstand;~~ across the Transfer Station Hardstand and Hardstand area 3 as defined by Map 6 in Schedule 1; (e) Putrescible wastes and other contaminants (paper, plastics[3], glass, metal and timber, etc.) received with Inert Waste Type 1 shall be recovered and segregated for recycling, or otherwise segregated for removal from the Premises in accordance with condition 1.2.2; (f) A maximum of 100 tyres shall be stored at any one time; (g) Stockpiles of waste shall be no more than ~~5~~ 8 metres high; (h) Screening and mulching equipment shall only be operated between 7 am to 4.45pm Monday to Friday and 7am to 12pm Saturday; (i) Water sprinklers shall be installed and operated on dust emission points on screening and mulching equipment; (j) No asbestos or ACM shall be accepted for storage, crushing or screening activities; (k) Incoming loads intended for storage, crushing and/or screening activities shall be inspected for evidence of asbestos and the driver interviewed about the waste to ensure there is low risk of asbestos contamination prior to acceptance; (l) Incoming loads intended for storage, crushing and/or screening activities will be further inspected during and after unloading to ensure there is no evidence of hidden asbestos contamination; (m) If evidence of asbestos contamination is noted as a result of the inspections in (j), the load shall be wetted down and immediately re-loaded for rejection, or removed for appropriate landfilling in accordance with this Licence.
Inert Waste Type 1	Crushing and processing of building material, stockpiling of products (category 13)	Pre-processing: (n) All waste intended to be crushed or screened must be visually inspected prior to crushing or screening of that waste and where the visual inspection identifies Asbestos or ACM, the waste must be handled in accordance with the procedure set out in Schedule 3, Attachment 1; Processing and storage:

		(o) All crushing activities and stockpiling of product shall occur on Hardstand area 3 as defined by Map 6 in Schedule 1; (p) The Licensee must continue to visually inspect waste on the Premises at all stages of the storage, sorting and crushing process. Suspected Asbestos or ACM identified at any stage of the process must be handled in accordance with the procedure set out in Schedule 3, Attachment 1; (q) All materials accepted for crushing shall be maintained in at least three separate stockpile areas for unprocessed waste, products tested for asbestos or ACM and products awaiting testing for asbestos or ACM; (r) Stockpiles of product shall be no more than 5m metres high; (s) Unprocessed waste and product stockpiles must be kept clearly separated at a minimum three metre distance from the base of the stockpile, or separated by impermeable concrete barriers; (t) Products tested for asbestos or ACM and products awaiting testing for asbestos or ACM must be clearly separated by a minimum three metre distance from the base of the stockpile or separated by impermeable concrete barriers; and (u) Clearly visible and legible signage must be erected on individual stockpiles to clearly identify and delineate tested products, untested products and unprocessed waste Dust management: (v) All waste and product stockpiles must remain in a damp state to prevent dust lift-off. Targeted wetting must occur when material handling such as reclaiming from the stockpiles has the potential to generate fugitive dust; (w) The water cart must be capable of wetting down the top of all waste and product stockpiles (x) All products to be removed from the premises shall be wetted down prior to loading to prevent dust emissions;
All waste types	Disposal of waste by landfilling (category 63)	(y) Disposal of waste by landfilling shall only take place within the landfill area shown on 'Map 2: Landfill Area Map' in Schedule 1; (z) The separation distance between the base of the landfill and the highest groundwater level shall not be less than 2m; (aa) The internal separation distance between landfilling activities and the boundary of the premises shall not be less than 35 metres; (bb) Maximum of 150 000 tonnes of waste to be disposed of by landfilling per annual period; (cc) Landfill machinery only to be operated between 7 am to 4.45pm Monday to Friday and 7am to 12pm Saturday.
Special Waste Type 1 (excluding	Receipt, handling, storage and	(dd) Special Waste Type I is only to be received at the Class I inert landfill activity areas on the

fire waste)	disposal of waste by landfilling (category 63)	premises (shown as the landfill cells on the Landfill Area Map in Schedule 1); (ee) For wrapped asbestos/ACM, waste shall be disposed in landfill within 24 hours of receipt, and where temporarily stored, storage shall occur in sealed and secure containers; (ff) For asbestos contaminated soil, material is to be: • disposed of immediately; • wetted down prior to and during disposal; and • covered in accordance with the cover requirements specified in Condition 1.2.5. (gg) Waste shall only be disposed of into a designated asbestos disposal area within the landfill; (hh) Waste shall be unloaded from the delivery vehicle directly into its final resting position in such a manner as to avoid the damage of plastic wrapping/containment and the generation of dust or release of asbestos fibres; (ii) Unloading shall not occur if wind conditions prevent safe unloading without the release of dust or asbestos fibres; (jj) Waste shall not to be deposited within 2m of the final tipping surface of the landfill; and (kk) No subsequent works shall be carried out on the landfill that could lead to a release of asbestos fibres.
Fire waste	Receipt, handling, storage and disposal of waste by landfilling	(ll) Vehicles carrying fire waste must be directed to the fire waste disposal area for disposal, and must keep their loads tarped and covered until unloading commences; (mm) Waste shall be unloaded from the delivery vehicle directly into its final resting position in such a manner as to avoid the generation of dust or release of asbestos fibres, and in the presence of a water cart which is to be used for dust suppression as appropriate; (nn) Unloading shall not occur if wind conditions prevent safe unloading without the release of dust or asbestos fibres; (oo) Immediately after unloading, fire waste must be wet down prior to covering; (pp) Fire waste is not deposited within 2m of the final tipping surface of the landfill; (qq) An undisturbed separation distance of at least 2m between the base of the fire waste disposal area and the highest level of the groundwater is maintained; and (rr) No subsequent works shall be carried out on the Premises that could lead to a release of asbestos fibres.

Note 1: Requirements for landfilling tyres are set out in Part 6 of the *Environmental Protection Regulations1987*
Note 2: Additional requirements for the acceptance and landfilling of controlled waste (including asbestos and tyres) are set out in the *Environmental Protection (Controlled Waste) Regulations 2004*
Note 3: With the exception to non-biodegradable plastics (Inert Waste Type 2) which are permitted to be landfilled.

5. The Licence is amended by the insertion of the following Conditions 3.3(3.3.1 – 3.3.2):

3.3 Conditions

Infrastructure and equipment

3.3.1 The Licensee must install and undertake the Works for the infrastructure and equipment:

(a) specified in Column 1;

(b) to the requirements specified in Column 2;

(c) prior to the date specified in Column 3; and

(d) at the location specified in Column 4

of Table 2 below.

3.3.2 Subject to Condition 3.3.1, whenever an item of infrastructure or component of infrastructure specified in Column 1 of Table 2 is constructed the Licensee must provide to the CEO a report within 28 days of completion from a suitably qualified professional confirming that each item of infrastructure or component of infrastructure has been constructed with no material defects and to the requirements specified in Column 2.

3.3.3 The Licensee shall not undertake operations utilising the infrastructure/equipment specified in Column 1 of Table 3.3.1 until the documents required under Condition 3.3.2 have been submitted to the CEO.

Table 3.3.1: Infrastructure and equipment requirements table

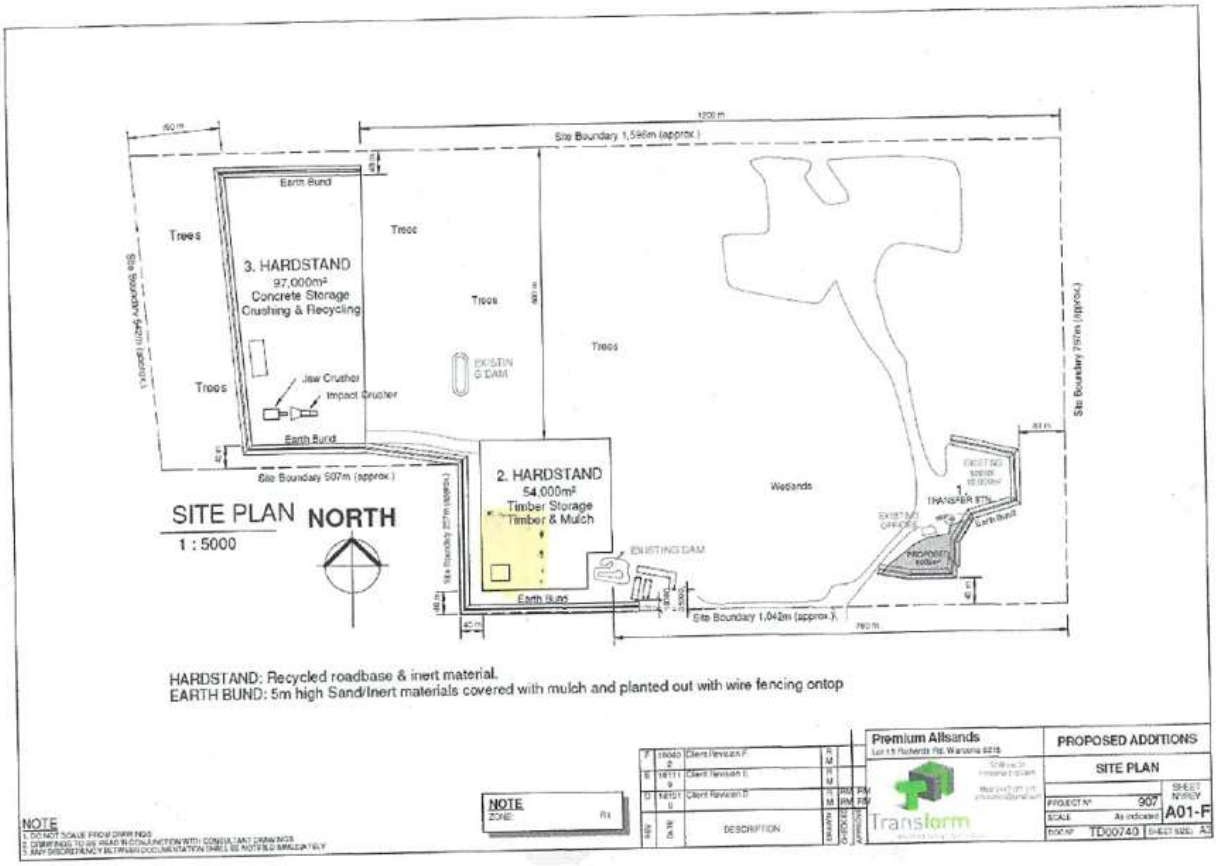
Column 1 Infrastructure/Equipment	Column 2 Requirements (design and construction)	Column 3 Completion date	Column 4 Site plan reference
Stage 1			
Hardstand Area 2	The hardstand will consist of 200mm crushed recycled road-base topped with 75mm recycled drainage aggregate The area of the hardstand will be no more than 10,000m² The bund will be constructed from sand and inert materials to a height of 5m, covered with mulch and planted with vegetation The hardstand and bund shall be constructed concurrently Working area must be maintained in a damp state during construction to prevent the emission of fugitive dust Construction operations must occur only between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday	11 June 2021	As defined by Map 6 in Schedule 1.

Column 1 Infrastructure/Equipment	Column 2 Requirements (design and construction)	Column 3 Completion date	Column 4 Site plan reference
Transfer station hardstand extension	The hardstand will consist of 200mm crushed recycled road-base topped with 75mm recycled drainage aggregate The final area of the hardstand will be no more than 8,000m² The bund will be constructed from sand and inert materials to a height of 5m, covered with mulch and planted with vegetation The hardstand and bund shall be constructed concurrently Working area must be maintained in a damp state during construction to prevent the emission of fugitive dust Construction operations must occur only between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday	11 June 2021	As defined by Map 6 in Schedule 1.
Stage 2			
Hardstand Area 2	The hardstand will consist of 200mm crushed recycled road-base topped with 75mm recycled drainage aggregate The final area of the hardstand will be no more than 54,000m² The bund will be constructed from sand and inert materials to a height of 5m, covered with mulch and planted with vegetation The hardstand and bund shall be constructed concurrently Working area must be maintained in a damp state during construction to prevent the emission of fugitive dust Construction operations must occur only between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday	11 June 2021	As defined by Map 6 in Schedule 1.
Hardstand Area 3	The hardstand will consist of 200mm crushed recycled road-base topped with 75mm recycled drainage aggregate The final area of the hardstand will be no more than 97,000m² The bund will be constructed from sand and inert materials to a height of 5m, covered with mulch and planted with vegetation The hardstand and bund shall be constructed concurrently Working area must be maintained in a damp state during construction to prevent the emission of fugitive dust Construction operations must occur only between 7:00am – 5:00pm Monday – Friday and 7:00am – 12:00pm Saturday	11 June 2021	As defined by Map 6 in Schedule 1.

Column 1	Column 2	Column 3	Column 4
Infrastructure/Equipment	Requirements (design and construction)	Completion date	Site plan reference
Crusher	Rubblemaster RM100GO Impact Crusher or similar Crusher shall only be brought to site when a portion of Hardstand Area 3 has been constructed which is adequate to accommodate all Category 13 operations Must only be located within Hardstand Area 3 as defined by Map 6 in Schedule 1	11 June 2021	As defined by Map 6 in Schedule 1.

6. Schedule 1 is amended by the addition of the below Site Plan.

Map 6: Additional hardstand areas – Stage 1 of Hardstand Area 2 highlighted in yellow



7. The Licence is amended by the insertion of Schedule 3, Attachment 1 and Attachment 2 as shown below:

- If fibrous Asbestos (FA) or Asbestos fines (AF) is suspected or detected, the stockpile (or impacted material) must be isolated, kept wet and once appropriately contained in accordance with the *Environmental Protection (Controlled Waste) Regulations 2004,* it must be redirected to an appropriately authorised disposal facility.
- Where suspect ACM is identified within a stockpile and is not capable of being easily removed by hand, the stockpile must be isolated, kept wet and once appropriately contained in accordance with the Asbestos Factsheet in Attachment 2, it must be redirected to an appropriately authorised disposal facility.
- Where suspected ACM fragments capable of being easily removed by hand are identified in a load, the suspect ACM must be removed from the stockpile and either:
    1. Appropriately isolated and covered for asbestos testing. If testing of representative samples confirms the material is ACM it must be redirected to an appropriately authorised disposal facility. If testing confirms the material is not ACM the Waste can be added to the stockpile awaiting further processing; or
    2. Assumed to be ACM and redirected to an appropriately authorised disposal facility.
- All suspected or assumed ACM must be segregated. Material must be clearly labelled, kept secure and sufficiently contained to prevent the release of Asbestos including wind-blown fibres.
- Once all suspected or assumed ACM has been removed from a stockpile in line with the above procedure, the residual waste can be added to the stockpile waiting further processing.

(Derived from Section 3.4 of the DER Asbestos Guidelines, page 12)

Attachment 2 – Asbestos Factsheet

Appendix A: Asbestos Factsheet

TRANSPORTATION AND DISPOSAL OF ASBESTOS CONTAINING MATERIAL

The transportation and disposal of asbestos-containing material from commercial, industrial and other activities is regulated by the Environmental Protection (Controlled Waste) Regulations 2004 (Regulations). The Regulations apply obligations on the waste transporter to ensure the waste is safely transported to an approved location.

The Regulations define what is considered to be asbestos containing material for the purposes of the Regulations. This definition includes material which contains 0.001% or more of asbestos fibres weight/weight.

Please note that removal, handling, signage, security and onsite packaging of asbestos contaminated material must be carried out in accordance with the Local Government Authority, Department of Health and WorkSafe requirements. Contact the relevant authority for further information (refer to the end of this factsheet).

TRANSPORTATION OF ASBESTOS-CONTAINING MATERIAL (ACM)

The Regulations require asbestos containing material to be:

1. Separated from other material for disposal where that is reasonably practicable;
2. Wrapped and contained in a manner that prevents asbestos fibres entering the atmosphere during transportation on a road; and
3. Labelled or marked with the words "CAUTION ASBESTOS" in letters no less than 50 millimetres high on the individual packages and the transport container.

Further guidance on the transportation of asbestos containing materials is set out in the Code of Practice for the Safe Removal of Asbestos 2nd Edition [NOHSC:2002(2005)] and the *Health (Asbestos) Regulations (1992 or as amended)*. This Code of Practice recommends that:

- ACM is sealed in heavy duty 200 μm (minimum thickness) polythene plastic and clearly labelled with the appropriate signage warning.
- All drums or bins used to store and dispose of ACM should be in good condition, with lids and rims in good working order. The drums or bins should be lined with polythene plastic (200 μm minimum thickness) and be clearly labelled.
- If a waste skip bin, vehicle tray or similar container is used, the ACM should be double bagged before being placed in to the container or sealed in double-lined, polythene plastic (200 μm minimum thickness), and be clearly labelled. In the case of bulk loads such as contaminated soil an alternative is to double line the vehicle tray with the polythene and completely cover the load with a close fitting durable material such as the double layered polythene or a tarpaulin.

- In the case of ACM in the form of contaminated soil, it needs to be wetted down prior to removal and loading onto vehicle or bin.

DISPOSAL OF MATERIAL CONTAINING ASBESTOS

All material containing asbestos must be disposed at a disposal site appropriately licensed or registered under *Part V* of the *Environmental Protection Act 1986* to accept asbestos waste.

A person who disposes of material containing asbestos other than at a licensed disposal site commits an offence.

Receipts for the disposal of ACM should be retained or passed on to the disposal client to assist any subsequent regulatory investigation.

DUTY TO NOTIFY OTHERS OF THE PRESENCE OF ASBESTOS

A person who takes material containing asbestos to a disposal site **MUST** inform the operator of the facility that the material is, or contains asbestos waste. This notification should be provided in a written form however where notification is verbally provided the disposal site should make a written record of the notification.

PENALTIES FOR NON-COMPLIANCE

Penalties apply for offences committed under the *Environmental Protection Act 1986* and the Environmental Protection (Controlled Waste) Regulations 2004.

DISPOSAL SITES FOR MATERIAL CONTAINING ASBESTOS

For a map of landfills within the Metropolitan area visit the WA Waste Authority website at: www.zerowastewa.com.au/disposal/community/perthlandfills

Please contact the Local Government Authority or the facility on the number provided for more information before visiting the disposal site. In Regional areas contact the Local Government Authority for disposal site locations. Please note this list is subject to change and is only intended as a guide.

COUNCIL OR COMPANY	ADDRESS	SUBURB	POST CODE	PHONE NUMBER	LANDFILL CLASS
Buller Road Refuse Disposal Site	Lot 1701 Buller Rd	Waroona	6215	9733 1277	II
City of Armadale	Hopkinson Rd	Forrestdale	6112	9399 3935	II
City of Canning	Ranford Rd	Canning Vale	6155	9321 0606	II & III
City of Cockburn	Rockingham Rd	Henderson	6166	9411 3444	II
City of Rockingham	Millar Rd	Baldivis	6171	9524 2053	III
City of Stirling	238 Balcatta Rd	Balcatta	6021	9345 8555	Transfer station
Eastern Metro Regional Council	Toodyay Rd (Red Hill)	Gidgegannup	6083	9574 6235	III & IV
Eclipse Resources	Lot 180 Abercrombie Rd	Postans	6167	9381 5600	I
Mindarie Regional Council	1700 Marmion Ave	Mindarie	6030	9306 6300	II
RCG Pty Ltd	Lot 70/717 Hester Ave	Neerabup	6031	9407 5069	I
Shire of Gingin	Lot 10 Cockram Rd	Gingin	6503	9575 2211	II
South Perth Waste Transfer Station	Cnr Hayman Rd Thelma St	Como	6152	9367 2492	Transfer station
Wastestream Management	Ratcliffe Rd	Kwinana	6167	9439 1300	I
West Australian Landfill Services	Lot 200 and Lot 201 Shale Rd	South Cardup	6201	9525 5355	II
Western Metropolitan Regional Council	Cnr Lemnos & Brockway Rd	Shenton	6008	9384 2544	Transfer station

FURTHER INFORMATION AND CONTACTS

Local Government Authority
For information on demolition licence requirements and household queries contact an Environmental Health Officer at your Local Government Authority.

Department of Health
For information on asbestos cement products in your home, asbestos contaminated sites and frequently asked questions on asbestos, visit the Department of Health website at: www.public.health.wa.gov.au/2/867/2/asbestos.pm or Tel: 9388 4999.

Department of Consumer and Employment Protection – Worksafe
For information about asbestos in the workplace, licensed asbestos removalists and appropriate handling of asbestos including safety wear, visit the Worksafe website at:

www.commerce.wa.gov.au/WorkSafe/Content/Safety_Topics/Asbestos/ or Tel: 1300 307 877.

Appendix 1: Key documents

Document title	In text ref	Availability
Licence L8651/2012/1	Existing Licence	accessed at www.dwer.wa.gov.au
Ministerial Statement 914	MS 914	accessed at www.epa.wa.gov.au/
DER, July 2015. *Guidance Statement: Regulatory principles.* Department of Environment Regulation, Perth.	DER 2015a	accessed at www.dwer.wa.gov.au
DER, October 2015. *Guidance Statement: Setting conditions.* Department of Environment Regulation, Perth.	DER 2015b	
DER, August 2016. *Guidance Statement: Licence duration.* Department of Environment Regulation, Perth.	DER 2016a	
DER, November 2016. *Guidance Statement: Risk Assessments*. Department of Environment Regulation, Perth.	DER 2016b	
DER, November 2016. *Guidance Statement: Decision Making*. Department of Environment Regulation, Perth.	DER 2016c	

Appendix 2: Summary of Licence Holder comments

The Licence Holder was provided with the draft Amendment Notice on 4 June 2019 for review and comment. The Licence Holder responded 6 June 2019.

Summary of Licence Holder comment	DWER response
Licence holder has provided an updated site plan highlighting the Stage 1 construction area of Hardstand Area 2	Site plan included in amendment
Licence holder has confirmed that the timeframes for stage 1 and stage 2 are achievable	Licence amended accordingly
Licence holder has confirmed that the height of the bund walls surrounding the Transfer Station extension will be 5m	Licence amended accordingly
The Licence holder has confirmed that the crusher will be a Rubblemaster RM100GO Impact crusher	Licence amended accordingly
The Licence holder has advised prior to finalisation of drafts (email dated 11 June 2019) that the Registered Office address for the Premises has changed	Licence amended accordingly