



# Kalgoorlie Smelter Renewal Project Accommodation Study

### **Waste Management Plan**

## Bechtel Western Australia Pty Ltd Job No 26532

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August-23 Page 1 of 8

#### **Contents**

1.0	Introduction	3
1.1	Objectives & Scope	
2.0	Waste Generation	
2.1	Waste Generation Volumes	4
3.0	Waste Storage	4
3.1	Internal Transfer of Waste	4
3.2	Bin Sizes	4
3.3	Bin Storage Location	5
3.4	Bin Storage Location Design	5
4.0	Waste Collection	5
4.1	Bulk & Speciality Waste	5
4.2	Recycling Programs	6
5.0	Monitoring & Continuous Improvement	6
6.0	Attachment 1	7

#### **Waste Management Plan for Fabric Street Temporary Workforce Accommodation**

#### 1.0 Introduction

Bechtel (Western Australia) Pty Ltd has prepared this Waste Management Plan (WMP) for the Kalgoorlie Smelter Renewal Project, which relates to the operation of a yet-to-be-approved temporary workforce accommodation facility (called Fabric Street Temporary Workforce Accommodation) at the site located in the suburb of Somerville, to the southwest of the Kalgoorlie city centre. The site is legally described as "Lot 67 on Deposited Plan 161200", the whole land contained within Certificate of Title Volume 1871 and Folio 30. The site has a total area of approx. 13.9097 hectares and is owned freehold by the City of Kalgoorlie Boulder (City).

To satisfy the development application (DA) the City requires the submission of a waste management plan that will identify how waste is be collected onsite, stored onsite and transported offsite and handled appropriately.

Once the City of Kalgoorlie Boulder (City) approves, the facility's waste management will be undertaken per this management plan.

#### 1.1 Objectives & Scope

The objective of this WMP is to outline the equipment and procedures that will be adopted to manage waste at the Site. Specifically, the WMP demonstrates that the Site is designed to:

- Adequately cater for the anticipated volume of waste to be generated.
- Provide an adequately sized Bin Storage Location, including appropriate bins; and
- Allow for efficient collection of bins by appropriate waste collection vehicles.

#### 2.0 Waste Generation

The following section shows the waste generation rates used and the estimated waste volumes to be generated at the Site.

To achieve an accurate projection of waste volumes for the Site, consideration was given to the City of Melbourne's *Guidelines for Waste Management Plans* (2021).

Waste Source	City of Melbourne Guideline Reference	Refuse Generation Rate	Recycling Generation Rate	
Workers Rooms	Hotel/Motel	5L/bed/day	5L/bed/day	
Dry Mess (1,800m²)	Café	300L/100m2/day	200L/100m2/day	
Wet Mess (800m²)	Licensed Club	50L/100m2/day	50L/100m2/day	
Gym (500m²)	Gym	50L/100m2/day	50L/100m2/day	

Table 1 Waste Sources

August-23 Page 3 of 8

#### 2.1 Waste Generation Volumes

Waste generation is estimated by volume in litres (L) as this is generally the influencing factor when considering bin size, numbers and storage space required.

Waste generation volumes in litres per week (L/week) adopted for this waste assessment is shown Table 2-2. It is estimated that the Site will generate 80,920L of refuse and 68,320L of recyclables each week.

Tenancy Use Type	Number of Beds / Floor Area (M2)	Waste Generation Rate	Waste Generation (L/week)		
Refuse					
Workers Rooms	1,152	5L/bed/day	40,320		
Dry Mess	1,800m2	300L/100m2/day	37,800		
Wet Mess	800m2	50L/100m2/day	2,800		
Gym	500m2	50L/100m2/day	1,750		
Total			80,920		
Recyclables					
Workers Rooms	1152	5L/bed/day	40,320		
Dry Mess	1,800m2	200L/100m2/day	25,200		
Wet Mess	800m2	50L/100m2/day	2,800		
Gym	500m2	50L/100m2/day	1,750		
Total			68,320		

Table 2-2 Waste Sources

#### 3.0 Waste Storage

Waste materials generated within the Site will continue to be collected in the bins located at the Bin Storage Location, as shown in attachment 1 and discussed in the following sub-sections.

Note: the waste generation volumes are best practice estimates and the number of bins to be utilised represents the maximum requirements once the Site is fully operational. Bin requirements may be impacted as the proposed additions are incorporated and the waste management requirements are known.

#### 3.1 Internal Transfer of Waste

Internal bins will be made available throughout the site. These internal bins will be collected by the staff/cleaners at least once a day and transferred to the Bin Storage location for consolidation. The internal serving method may be conducted outside of main operational hours to mitigate disturbances to occupants.

#### 3.2 Bin Sizes

Table 2 gives the typical dimensions of standard bins sizes that may be utilised at the Site. It should be noted that these bin dimensions are approximate and can vary slightly between suppliers.

Dimensions (m)		Bins Sizes					
Dimensions (m)	240L	660L	1,100L	3.0m <sup>3</sup>	4.5m³		
Depth	0.730	0.780	1.070	1.505	1.800		
Width	0.590	1.260	1.240	1.805	2.020		
Height	1.060	1.200	1.330	1.225	1.800		

Table 2 - Typical Bin Dimensions

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August-23 Page 4 of 8

#### 3.3 Bin Storage Location

Waste materials will be collected in the bins in the Bin Storage Location, shown in attachment 1.

The Bin Storage Location has been sized to accommodate:

24 x 4.5m³ waste bins/skips with lids;

The bins will be serviced weekly, and collection frequencies will increase as required to accommodate the waste generated from the additional personnel on Site.

#### 3.4 Bin Storage Location Design

The design of the existing Bin Storage Location takes into consideration:

- Smooth impervious floor sloped to a drain connected to the sewer system;
- Taps for washing of bins and Bin Storage Location;
- Appropriate signage;
- Located behind the building setback line;
- Within an enclosed area;
- Bins not to be visible from the property boundary or areas trafficable by the public; and
- Bins are reasonably secured from theft and vandalism.

Bin numbers and storage space within the Bin Storage Location will be monitored by the Camp Manager during the operation of the Site to ensure that the number of bins and collection frequency is sufficient.

#### 4.0 Waste Collection

A private waste collection contractor will service the Site, with collection frequencies as required to accommodate the waste generated.

The private contractor's front lift waste collection vehicle will service the bins onsite, directly from the Bin Storage Location.

The above servicing method will preserve the amenity of the area by removing the requirement for bins to be presented to the street on collection days. In addition, servicing of bins onsite will reduce the noise generated in the area during collection. Noise from waste vehicles must comply with the Environmental Protection (Noise) Regulations and such vehicles should not service the site before 7.00am or after 7.00pm Monday to Saturday, or before 9.00am or after 7.00pm on Sundays and Public Holidays.

#### 4.1 Bulk & Speciality Waste

Bulk and speciality waste materials will be removed from the Site as they are generated on an 'as required' basis. A temporary skip bin could be utilised for collections, if required. Bulk and specialty waste collection will be monitored by the site manager who will organise their transport to the appropriate waste facility, as required.

These may include items such as:

- Refurbishment wastes from fit outs;
- Mattresses:
- Batteries and E-wastes;
- White goods/appliances;

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August-23 Page 5 of 8

- Used Cooking Oil;
- Cleaning chemicals; and
- Commercial Light globes

#### 4.2 Recycling Programs

The site will participate in the Containers for Change program, where any funds raised go towards a nominated charity or organisation. The beneficiary shall be selected by the BHP Nickel West Kalgoorlie Community Relations team.

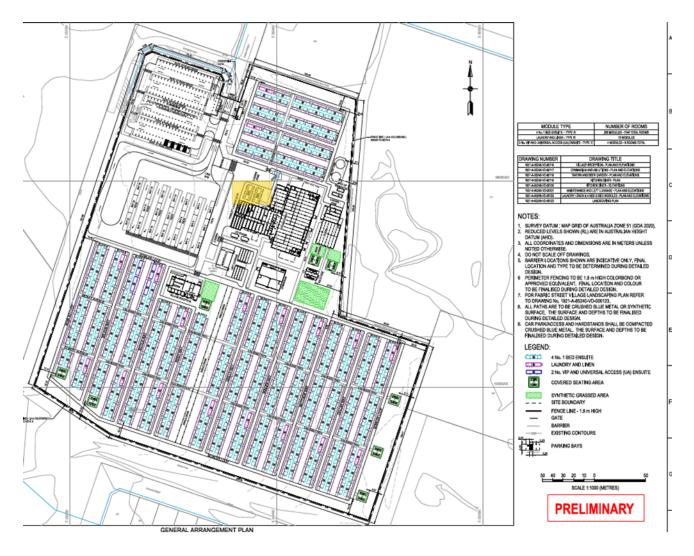
#### **5.0 Monitoring & Continuous Improvement**

The Camp Manager will be engaged to complete the following tasks:

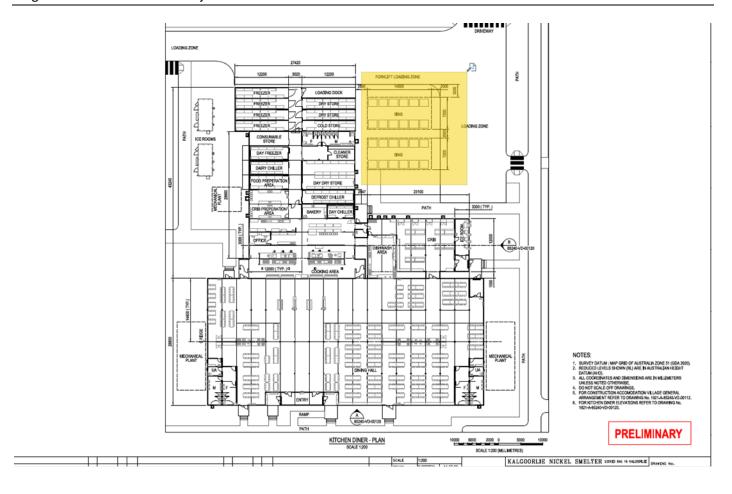
- Monitoring and maintenance of bins and the Bin Storage Location;
- Cleaning of bins and Bin Storage Location, when required;
- Ensure all occupants at the Site are made aware of this WMP and their responsibilities thereunder;
- Monitor occupant behaviour and identify requirements for further education and/or signage;
- Monitor bulk and speciality waste accumulation and assist with its removal, as required;
- Regularly engage with occupants to develop opportunities to reduce waste volumes and increase resource recovery; and
- Regularly engage with the private contractor to ensure efficient and effective waste service is maintained.

August-23 Page 6 of 8

#### 6.0 Attachment 1



August-23 Page 7 of 8



August-23 Page 8 of 8