



**SUNNYSIDE COAL PROJECT
ENVIRONMENTAL
MANAGEMENT SYSTEM**

Document Owner:	Operations Supt
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WHC_PLN_SUN_WASTE MANAGEMENT PLAN

WASTE MANAGEMENT PLAN



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ACRONYMS USED THROUGHOUT THIS DOCUMENT

- MP - Management Plan
- NMPL - Namoi Mining Pty Ltd
- PA - Project Approval



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1 INTRODUCTION

This Waste Management Plan (Waste MP) has been prepared in accordance with Schedule 3, Condition 43 of Project Approval (PA) 06_0308 for the Sunnyside Coal Project (Sunnyside). Sunnyside is operated by Namoi Mining Pty Ltd (NMPL), a subsidiary company of Whitehaven Coal Limited. Mining operations at Sunnyside were suspended in late November 2012 and recommenced in late 2017. This document considers the area of land corresponding to the project site boundary for Sunnyside, referred to as the “mine site”.

As illustrated in Figure 1, Sunnyside is located approximately 15km west of Gunnedah. The project layout is shown in Figure 2.



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LEGEND

- National Park
- Nature Reserve
- State Conservation Area
- Aboriginal Area
- NSW State Forest
- Local Government Area Boundary
- Mining Lease Boundary
- Mine Site
- Mine Project

Source: Geoscience Australia (2006), NSW Department of Premier and Cabinet, Office of Environment and Heritage (2011) and Minerals NSW (2012)

WHITEHAVEN COAL
SUNNYSIDE COAL MINE
 Regional Location

Figure 1 - Regional Location



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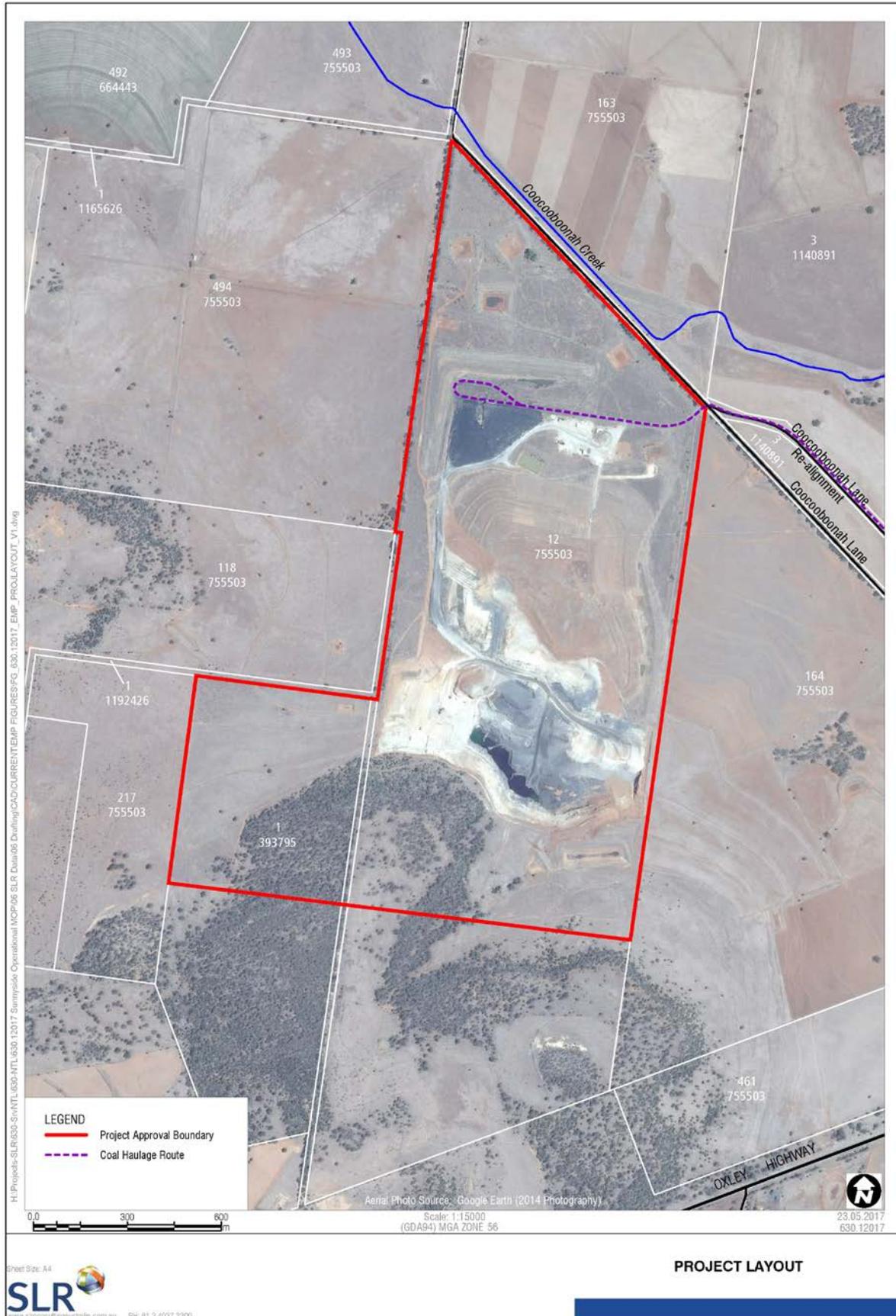


Figure 2 - Project Layout



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2 WASTE STREAMS

The wastes that the mine will generate can be categorised as mineral and non-mineral wastes, as listed in Table 1. A waste stream is defined as the flow of waste material from generation to treatment to final disposition. The waste streams for the wastes identified are also provided in Table 1.

Table 1 - Waste Streams

Waste Category	Waste Stream
Waste rock, overburden and carbonaceous material	Mined and then disposed of either within the out of pit emplacement or pit footprint.
General domestic-type wastes	Generated and collected onsite for transport offsite to landfill or recycling facilities.
Maintenance wastes (eg. hydrocarbons, batteries, tyres).	Generated and collected onsite. All maintenance wastes, except tyres from heavy mining equipment, will be transported offsite to landfill or recycling facilities. Tyres from heavy mining equipment will be disposed of within the pit footprint.
Sewage	Generated onsite and treated via an onsite system.

3 WASTE MANAGEMENT AND MONITORING

Mineral waste will be managed in accordance with the Mining Operations Plan.

Facilities will be provided to allow recycling of materials such as cardboard and waste hydrocarbons, where practicable. Tyres from heavy mining equipment will be disposed of within the pit footprint. Wastes not able to be recycled will be disposed of at a licenced landfill facility.

Irrigation of treated wastewater will be undertaken in accordance with *Environmental Guidelines: Use of Effluent by Irrigation* (DEC, 2004) or its latest version.

Due to the scale and nature of the site, reuse of wastes is unlikely. Any reasonable and feasible opportunities for reuse identified will be implemented. Minimisation of waste will be assisted by only bringing to site the amount of materials required. Maintenance monitoring programs ensures equipment component life is maximised.

Records will be retained on all wastes transported from site for recycling or disposal. Records of disposal of tyres within the pit footprint, in terms of number and location, will be maintained. Discussion on the effectiveness of waste management will be included in the Annual Review.

4 DOCUMENT REVIEW

This document will be reviewed in accordance with the requirements of Condition 5(5A) of PA 06_0308.