Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6847/2023/1
Works approval holder	Spinifex Crushing and Screening Services Pty Ltd
ACN	135 324 551
Registered business address	16 Anthony Street, Albany WA 6330
DWER file number	DER2023/000637
Duration	06/03/2024 to 05/03/2029
Date of issue	6/03/2024
Premises details	Mt Regal Mine M47/1418 M47/1484 MAITLAND WA 6714 As defined by the coordinates in Schedule 2

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production / design capacity**
Category 35: Asphalt manufacturing	50,000 tonnes per annum
Category 77: Cement batching or cement products manufacturing	80,000 tonnes per annum

This works approval is granted to the works approval holder, subject to the attached conditions, on 6 March 2024, by:

Steve Checker

Digitally signed by Steve Checker
Date: 2024.03.06 11:39:51 +08'00'

Steve Checker
MANAGER WASTE INDUSTRIES
REGULATORY SERVICES
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
19/09/2019	W6261/2019/1	Works approval issued for the installation of a mobile crushing and screening plant
09/09/2022	L9332/2022/1	Licence issued to operate a mobile crushing and screening plant within Mining Leases M47/1418 and M47/1484 (Mt Regal Mine), Karratha, Western Australia.
6/03/2024	W6847/2023/1	Works Approval issued for the construction of a mobile concrete batching and asphalt plant.

Interpretation

In this works approval:

(a) the words 'including', 'includes' and 'include' in conditions mean "including but not limited to", and similar, as appropriate;

(b) where any word or phrase is given a defined meaning, any other part of speech or other grammatical form of that word or phrase has a corresponding meaning;

(c) where tables are used in a condition, each row in a table constitutes a separate condition;

(d) any reference to an Australian or other standard, guideline, or code of practice in this works approval:

  (i) if dated, refers to that particular version; and

  (ii) if not dated, refers to the latest version and therefore may be subject to change over time;

(e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and

(f) unless specified otherwise, all definitions are in accordance with the EP Act.

NOTE: This works approval requires specific conditions to be met but does not provide any implied authorisation for other emissions, discharges, or activities not specified in this works approval.

Works approval conditions

The works approval holder must ensure that the following conditions are complied with:

Construction phase

Infrastructure and equipment

1. The works approval holder must:

(a) construct and/or install the infrastructure and/or equipment;

(b) in accordance with the corresponding design and construction / installation requirements; and

(c) at the corresponding infrastructure location

as set out in Table 1.

Table 1: Design and construction / installation requirements

	Infrastructure	Design and construction / installation requirements	Infrastructure location
Category 35 Mobile Asphalt Plant			
1.	MAP comprising: A rotary dryer A pug mill A gob hopper Control room	• Must have a maximum design capacity of 40 m^3/hr. • MAP infrastructure must be located on a compacted gravel hardstand and designed to direct all runoff to a stormwater sump/basin. • Insulated and clad rotary dryer generated by diesel fuel. • Pug-mill for mixing heated aggregate and liquid bitumen. • Loadout conveyor must be covered. • MAP infrastructure must be constructed such that vapours are directed to the baghouse.	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'
2.	5 x Raw material storage bays	• Storage bays must be constructed with three walls. • Sprinkler system installed on storage bays which provides adequate coverage of the bays for dust suppression of contained materials.	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'
3.	Bag house filter stack	• Minimum stack height 6.1m above ground level • Stack is to be fitted with a sampling port that meets requirements of AS 4323.1. • Piping system and / or stack is fitted with a silencer for noise reduction.	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'
4.	Baghouse	• The baghouse will be installed with a filter which:	As depicted in Schedule 1 Premises MAP and MCP location

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		(i) has a design capacity of 27 m^3/hour; (ii) has a design capacity for particulates of less than 20 mg/m^3; and (iii) is fitted with a minimum of 224 filter bags with a filter area of at least 240 m^2. • The baghouse will be fitted with an automatic reverse-cycle cleaning system. • The baghouse will be fitted with a broken bag detection system. • The baghouse will be fitted with an air temperature control system with built in alarms and cut off controls.	Labelled as 'X'
5.	40,000L heated bitumen tanker	• Enclosed storage tank to be located on a gravel hardstand within a bunded area. • A condenser to be fitted on the sealed lid to direct condensate back into the tank. • Includes a 3.76 m heated bitumen vent stack.	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'
Category 77 Mobile Concrete Plant			
6.	MCP comprising: Hopper, Water Batching Unit, Filter with dust collection hopper, Dust Suction Hood, Horizontal Silo's and Control room	• MCP infrastructure must be located on a compacted gravel hardstand and designed to direct all runoff to a stormwater sump/basin. • Supply includes the loading pipe, the relief pipe and manholes and safety relief values. • The MCP must have a paved area, or the area must be treated with water or surfactants to minimize dust. • Aggregate and sand feed hopper must be enclosed or fitted with wind shields, water sprays or a dust extraction system designed to prevent escape of visible dust. • Conveyors must be covered or otherwise enclosed so that visible dust does not escape the conveyor. • Each cement silo must be fitted with: ▪ a relief valve which is piped to a weigh hopper or outlet within one meter of the ground to	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		prevent overfilling; ▪ a level indicator with an audible high level alarm which sounds if cement reaches 0.6 m below the inlet to the silo's air cleaning system; ▪ a test circuit which indicates whether the level indicator and alarm are operating correctly; ▪ a reverse pulse air cleaning system which is designed to reduce dust emissions to less than 50 milligrams of particulate matter per cubic metre; and ▪ ducting which discharges air from the cement silo air cleaning system to within one metre of the ground • Slurry pit and sediment trap.	
7.	Techno 4 Plant	Comprises: • Hopper capacity 32 m^3 dived into four compartments with hinged upper hungry boards on three sides. • Industrial panel computer equipped with alarms. • Water batching unit with pump with 220 lt/min flow rate up to a height of 12 m. • Batching unit for 4 additives with magnetic flow meter for batching 4 additives. Gear pump and compressor for management of the electro- pneumatic tank pipe. • Filter with dust collection hopper with vibrating cartridge filter. • Dust suction hood with filter accessory allows for suction of dust produced during loading of the mixer trucks. Includes telescopic extension, curtain panels, manifold stub pipe and vibrating filter cartridges, suction device with electric motor and control valve and the dust collection hopper.	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'
8.	Cement Eurosilo 45/DE Mobile	Comprises: • Mobile horizontal silo capacity of 45 m^3 with support frame and	As depicted in Schedule 1 Premises MAP and MCP location Labelled as 'X'

	Infrastructure	Design and construction / installation requirements	Infrastructure location
	Horizontal Silo	legs. • Weighing / batching system with 6 load cells and electronic terminals and fixed board control. • Cement extraction system using horizontal screw conveyor and inclined discharge screw conveyor equipped with adjustable ball coupling. Fitted with 8 vibrators for material flow. • Supply includes the loading pipe, the relief pipe and manholes and safety relief values.	

Compliance reporting

2. The works approval holder must within 30 calendar days of an item of infrastructure or equipment required by condition 1 being constructed and/or installed:

(a) undertake an audit of their compliance with the requirements of condition 1; and

(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

3. The Environmental Compliance Report required by condition 2, must include as a minimum the following:

(a) certification that the items of infrastructure or component(s) thereof, as specified in condition 1, have been constructed in accordance with the relevant requirements specified in condition 1;

(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 1; and

(c) be signed by a person authorised to represent the works approval holder and contains the printed name and position of that person.

Records and reporting (general)

4. The works approval holder must record the following information in relation to complaints received by the works approval holder (whether received directly from a complainant or forwarded to them by the Department or another party) about any alleged emissions from the premises:

(a) the name and contact details of the complainant, (if provided);

(b) the time and date of the complaint;

(c) the complete details of the complaint and any other concerns or other issues raised; and

(d) the complete details and dates of any action taken by the works approval holder to investigate or respond to any complaint.

5. The works approval holder must maintain accurate and auditable books including the following records, information, reports, and data required by this works approval:

(a) the works conducted in accordance with condition 1;

(b) any maintenance of infrastructure that is performed in the course of complying with condition 1; and

(c) complaints received under condition 4.

6. The books specified under condition 5 must:

(a) be legible;

(b) if amended, be amended in such a way that the original version(s) and any subsequent amendments remain legible and are capable of retrieval;

(c) be retained by the works approval holder for the duration of the works approval; and

(d) be available to be produced to an inspector or the CEO as required.

Definitions

In this works approval, the terms in Table 2 have the meanings defined.

Table 2: Definitions

Term	Definition
AS4323	means the Australian Standard AS4323.1 *Stationary Source Emissions Method 1: Selection of sampling positions*
books	has the same meaning given to that term under the EP Act.
CEO	means Chief Executive Officer. CEO for the purposes of notification means: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 info@dwer.wa.gov.au
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.
discharge	has the same meaning given to that term under the EP Act.
emission	has the same meaning given to that term under the EP Act.
Environmental Compliance Report	means a report to satisfy the CEO that the conditioned infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval.
EP Act	*Environmental Protection Act 1986* (WA).
EP Regulations	*Environmental Protection Regulations 1987* (WA).
MAP	means Mobile Asphalt Plant
MCP	means Mobile Concrete Plant
premises	the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map in Schedule 1 to this works approval.
prescribed premises	has the same meaning given to that term under the EP Act.
works approval	refers to this document, which evidences the grant of the works approval by the CEO under section 54 of the EP Act, subject to the conditions.
works approval holder	refers to the occupier of the premises being the person to whom this works approval has been granted, as specified at the front of this works approval.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in the map below.

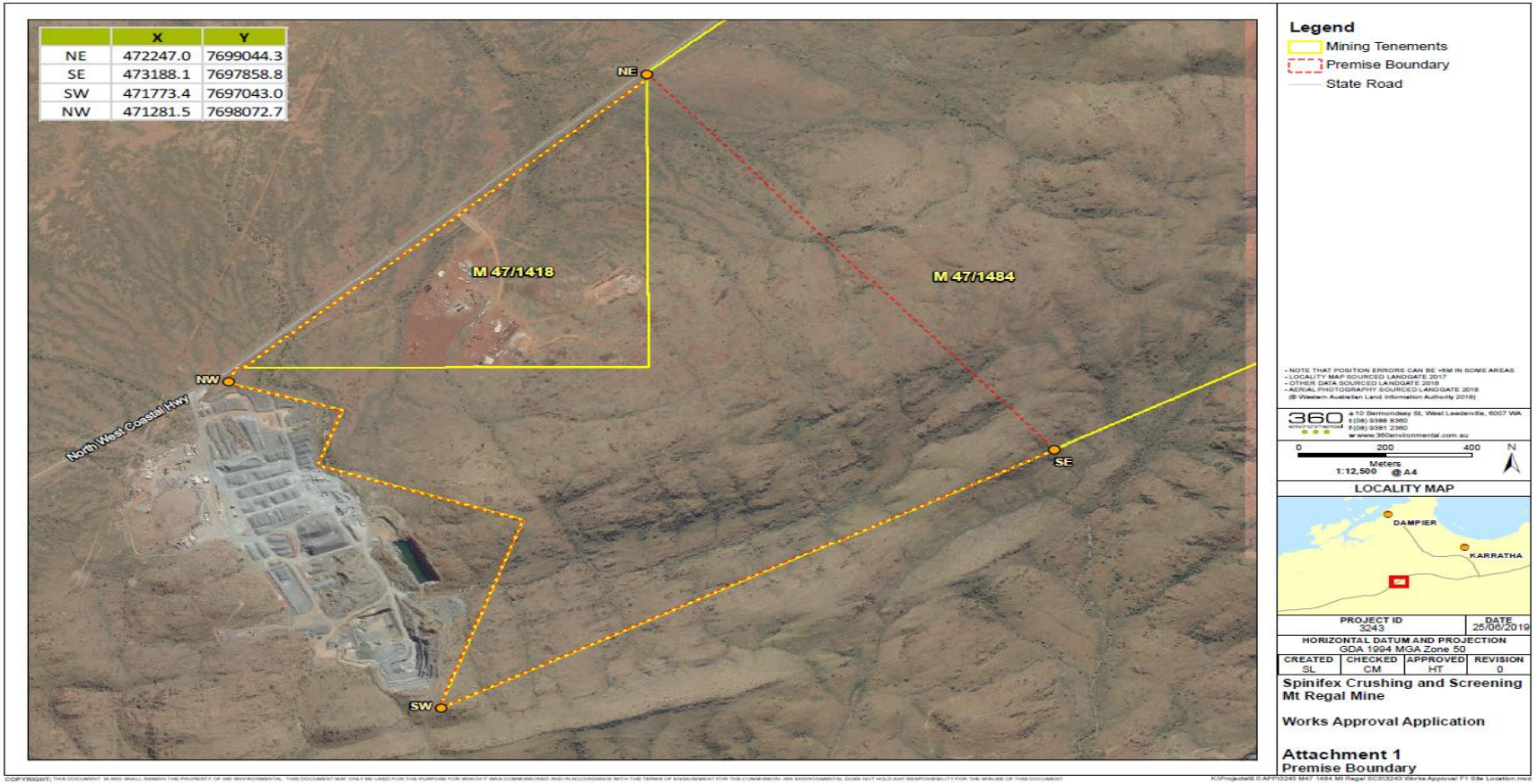

Figure 1: Premises boundary

Premises map and MCP location

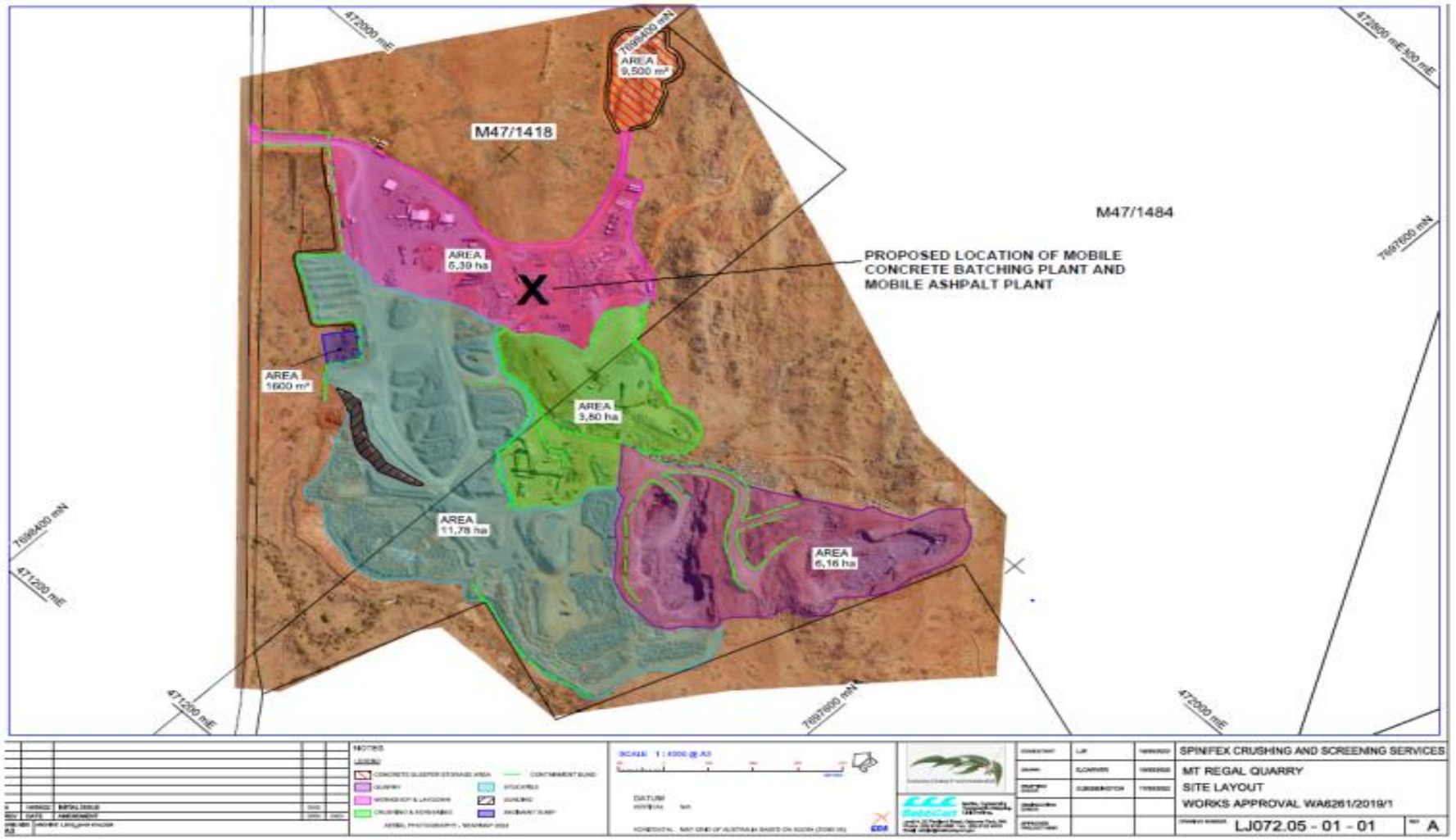

Figure 2: Premises overview

Schedule 2: Premises boundary

The corners of the premises boundary are the coordinates listed in Table 3.

Table 3: Premises boundary coordinates (GDA94)

	Easting	Northing
1.	472,247.0	7,699,044.3
2.	473,188.1	7,697,858.8
3.	471,773.1	7,697,043.0
4.	471,281.8	7,698,072.1