Government of Western Australia
Department of Water and Environmental Regulation

Works Approval

Works approval number	W6660/2022/1
Works approval holder	Wiluna Operations Pty Ltd
ACN	166 954 525
Registered business address	Level 3 / 1 Altona Street WEST PERTH WA 6005
DWER file number	DER2022/000021
Duration	17/08/2022 to 17/08/2027
Date of issue	17/08/2022
Premises details	Wiluna Mine Site Legal description – Within Mining Leases M53/32, M53/96, M53/200, M53/26, M53/40 and M53/50 WILUNA WA 6646 As defined by the Premises Map in Schedule 1

Prescribed premises category description (Schedule 1, *Environmental Protection Regulations 1987*)	**Assessed production / design capacity**
Category 5: Processing or beneficiation of metallic or non-metallic ore	2,950,000 tonnes per annual period
Category 63: Class I inert landfill site: premises (other than clean fill premises) on which waste of a type permitted for disposal for this category of prescribed premises, in accordance with the *Landfill Waste Classification and Waste Definitions 1996*, is accepted for burial.	2,000 tonnes per annual period
Category 64: Class II or III putrescible landfill site: premises (other than clean fill premises) on which waste of a type permitted for disposal for this category of prescribed premises, in accordance with the *Landfill Waste Classification and Waste Definitions 1996*, is accepted for burial.	1,500 tonnes per annual period

This works approval is granted to the works approval holder, subject to the attached conditions, on 17 August 2022, by:

Christine Pustkuchen
Digitally signed by Christine Pustkuchen
Date: 2022.08.17 16:21:53 +08'00'

Christine Pustkuchen
A/Manger, Resource Industries
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Works approval history

Date	Reference number	Summary of changes
17/08/2022	W6660/2022/1	Works approval granted for: • The construction, commissioning and time limited operations of a sulphide processing plant (Stage 2); and • The construction and time limited operations of: - a Class I Inert Landfill site (Bulletin Pit); and - the Class II Putrescible Landfill sites: West WRL, Happy Jack 2 WRL, and House WRL.

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
1.	Sulphide Ore Processing Plant (SPP) (Stage 2) including flotation circuit and concentrator and Ore Supply Infrastructure (grinding and classification)	a) One Thyssen Krupp 14/7.5-2 High Pressure Grinding Rolls (HPGR) with roll diameter of 1.4m and roll width of 0.75m; b) One Schenck SLD2476 HPGR 2.4m x 7.6m product screen; c) One dual outlet SK-500 flash flotation cell with a nominal volume of 25 m^3; d) One 1.2 m x 3.6 m trash screen; e) One 50 m^3 high intensity conditioning tank; f) Six 50 m^3 tank rougher flotation cells; g) Two 20 m^3 tank cleaner flotation cells; h) Four 20 m^3 tank cleaner scavenger flotation cells; i) One 10.5 m diameter hi-rate concentrate thickener; j) One 153 m^2 vertical plate pressure filter for concentrate; k) One 75 m^3 filter feed tank; l) Installation of second semi-enclosed concentrate storage shed; m) Bunding within the sulphide ore process plant area shall include the following process areas: • Concentrate filter and loadout	Located in accordance with the Premises Layout Map as depicted in Schedule 1, Schedule 1, Figure 1, labelled as “Wiluna Sulphide Plant” and the design drawings under Figure 3 and Figure 4 of Schedule 2.

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		area • Rougher area • Cleaner area • Thickener area n) Installation of a new process water tank to double the Stage 1 storage capacity to 700 m^3; o) Bund volumes within the process plant shall contain the loss of containment from the largest process circuit, plus the 24 hour 1% AEP rainfall event; p) Dust suppression sprays to be installed at the transfer points of the plant;; q) ROM Pad; r) ROM Bin; s) Apron feeder; t) Jaw Crusher – Terex JW55 1400mm x 820mm opening and 160kW motor or equivalent; u) Joest Vibrating double deck horizontal screen 1.8m 4.8mm or equivalent; v) MO HP400 Cone Crusher with 315kW motor or equivalent; w) Tramp Magnet; x) Classification Cyclones 250CVX10 x 15; y) Ball Mill (EGL) L 6.60m x (IS) D 6.40, with discharge trommel 3.3m x 2.0m; z) Coarse Ore Stockpile with Reclaim system 2x belt feeders; and aa) Conveyors.	
2.	Bunds and Sumps across all infrastructure	a) The floor level of bunds, sumps, chemical loading areas, bunded process areas and concentrate loadout areas shall be above the 1% AEP flood level; b) Bunds, sumps, chemical loading areas, concentrate loading areas and bunded process areas exposed to rainfall shall accommodate the largest inventory, plus any joined inventory plus the 1% AEP 24-hour duration rainfall event;	Located in accordance with the Premises Layout Map as depicted in Schedule 1, Schedule 1, Figure 1, labelled as “Wiluna Sulphide Plant” and the Containment Infrastructure and Stormwater Management Infrastructure map as depicted in Schedule 1, Figure 2.

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		c) Spillage pump with multiple hose stations to allow clean-up within plant bund, to maintain bund capacity; and d) Concrete bunding will be constructed around the process infrastructure of the Stage 2 footprint area to capture any potential overflows or spillages of hydrocarbons/chemicals.	
3.	General Pipeline Requirements	a) Pipelines shall be overland or within bunded pipe racks; b) Pipelines shall not be directly buried; c) Pipelines shall be sleeved or pass-through culverts where pipelines cross roads or infrastructure; and d) Pipelines to be situated in an earthen bund and: i) equipped with telemetry systems and pressure sensors along pipelines to allow the detection of leaks and failures; or ii) equipped with automatic cut-outs in the event of a pipe failure; iii) and/or provided with secondary containment sufficient to contain any spill for a period equal to the time between inspections.	N/A
4.	Upgraded infrastructure to be installed within the reagent mixing and unloading facility	a) Installation of a new 32m² capacity tank with third gland water distribution pump to supply gland water and flocculent mixing water to feed Stage 2 facilities; b) Pipelines transferring reagents from the reagent mixing and storing area to the Stage 2 sulphide ore processing plant infrastructure shall have double containment; c) Reagent pipelines shall not be directly buried; and d) Reagent pipelines shall be sleeved or passed through culverts where pipelines crossroads or infrastructure	N/A
5.	Tailings pipeline and return water pipeline	a) Tailings pipeline reporting from the Sulphide Processing Plant to the Wiltails Plant or existing Carbon-In-Leach (CIL) plant for retreatment of tailings are to be located within	Located in accordance with the Containment Infrastructure and Stormwater Management Infrastructure map as

	Infrastructure	Design and construction / installation requirements	Infrastructure location
		secondary containment sufficient to contain any spill for a period equal to the time between inspections; b) Tailings disposal lines shall be fitted with two magnetic flow meters to provide rupture detection and a pressure transmitter for monitoring; c) The tailings return water pipelines shall be fitted with two magnetic flowmeters to provide rupture detection and a pressure transmitter for monitoring purposes; and d) Tailings pipeline between the Sulphide Processing Plant and the CIL plant to be upgraded to accommodate the increased Stage 2 volumes using HDPE 250-300mm PN16/20 line.	depicted in Schedule 1, Figure 2 and the design drawing depicted in Schedule 2, Figure 3.
6.	Pipeline(s) carrying raw materials and processing materials from the grinding circuit to and within the stage 2 sulphide ore processing plant infrastructure	a) A process control system shall be implemented to monitor the flow and pressure and, shall alarm Operations in the event of loss of containment.	N/A
7.	Stormwater Management System	a) The reagent facility, sulphide ore processing plant, all pipelines and process tanks shall be above the 1% AEP flood event; b) Sulphide Processing Plant Stage 2 footprint area is to be located on an earthen pad finished above the elevation of the surrounding terrain and contained on all sides by a perimeter access road; c) The Event pond is to be designed to contain potentially contaminated stormwater runoff from within the plant area with a 1% AEP flood event; d) Potentially contaminated stormwater runoff from within the processing areas is to be captured within an earthen bund and directed to the Event pond; and e) Perimeter bunding is to be constructed to ensure that uncontaminated stormwater is directed away from operational areas	Located in accordance with the Containment Infrastructure and Stormwater Management Infrastructure map as depicted in Schedule 1, Figure 2.

	Infrastructure	Design and construction / installation requirements	Infrastructure location
8.	Water cart	a) Water cart must be available at all times at the Premises during construction phase to suppress dust generated via earthworks, construction of Sulphide Processing Plant (Stage 2) and trenches for landfill facilities, and vehicle movements.	Located within the Prescribed Premises boundary as depicted in the Premises Layout Map shown in Schedule 1, Figure 1.
9.	West WRL, Happy Jack 2 WRL and House WRL Landfill facilities	a) Excavation of 30m long x 5m wide trenches at each landfill facility; b) Installation of a fence line around the perimeter of each landfill facility; c) Bunding to be constructed around the perimeter of each landfill facility to ensure potentially contaminated stormwater does not mix with uncontaminated stormwater.	Located in accordance with the Premises Layout Map as depicted in Schedule 1, Schedule 1, Figure 1, labelled as "Proposed landfill sites".

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 by a suitably qualified and experienced engineer 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.

Environmental commissioning phase

Environmental commissioning requirements and emission limits

4. The works approval holder may only commence environmental commissioning of an item of infrastructure listed in condition 5 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 2 of this works approval.

5. The works approval holder must ensure that any environmental commissioning activities undertaken for an item of infrastructure specified in Table 2 are carried out:

(a) in accordance with the corresponding commissioning requirements; and

(b) for the corresponding authorised commissioning duration

of Table 2

Table 2: Environmental commissioning requirements

Infrastructure	Commissioning requirements	Authorised commissioning duration
Sulphide Ore Processing Plant (SPP) including flotation circuit and concentrator and Ore Supply Infrastructure (grinding and classification)	Environmental commissioning of the SPP is comprised of four stages: a) Stage 1: Functional testing of equipment, inspection and static testing; b) Stage 2: Dry commissioning – excitation and dynamic testing of all equipment including testing of dust suppression system to ensure its functionality; c) Stage 3: Wet commissioning – commissioning of plant equipment under zero load or with safe media; d) Stage 4: Ore or plant commissioning of the plant and equipment with process media; and e) Leak testing of bunding and sumps shall occur through all stages of commissioning.	For a period not exceeding 3 calendar months in aggregate.
Reagent mixing and distribution unloading facility and pipelines to the SPP facility	a) Leak testing of reagent storage infrastructure; b) Reagent pipelines shall be hydrotested; c) All flow meters shall be calibrated; d) All pressure meters shall be calibrated; e) Process control alarm for loss of containment shall be tested; and f) Bunds and sumps leak tested.	
Pipelines between SPP and Wiltails Plant or CIL plant	a) Pipelines shall be hydrotested. b) All flow meters shall be calibrated; and c) All pressure meters shall be calibrated.	

Environmental Commissioning Report

6. The works approval holder must submit to the CEO an Environmental Commissioning Report within 60 calendar days of the completion date of environmental commissioning for each item of infrastructure specified in Table 2.

7. The works approval holder must ensure the Environmental Commissioning Report required by condition 6 of this works approval includes the following:

(a) a summary of the environmental performance of each item of infrastructure or equipment as constructed or installed (as applicable), which at minimum includes records detailing the:

(i) hydro-testing of pipelines;

(ii) calibration of flow meters and pressure transmitters;

(iii) testing of the SPP; and

(iv) testing of the dust suppression system.

(b) a review of the works approval holder's performance and compliance against the conditions of this works approval; and

(c) where they have not been met, measures proposed to meet the manufacturer's design specifications and the conditions of this works approval, together with timeframes for implementing the proposed measures.

Time limited operations phase

Commencement and duration

8. The works approval holder may only commence time limited operations for an item of infrastructure identified in condition 10:

(a) where the item of infrastructure is not authorised to undertake environmental commissioning, the Environmental Compliance Report as required by condition 2 has been submitted by the works approval holder for that item of infrastructure; and

(b) where the item of infrastructure is authorised to undertake environmental commissioning under condition 4, the Environmental Commissioning Report for that item of infrastructure as required by condition 6 has been submitted by the works approval holder.

9. The works approval holder may only conduct time limited operations for an item of infrastructure specified in condition 10:

(a) for a period not exceeding 180 calendar days from the day the works approval holder meets the requirements of condition 8 for that item of infrastructure; or

(b) until such time as a licence for that item of infrastructure is granted in accordance with Part V of the *Environmental Protection Act 1986*, whichever is sooner.

Time limited operations requirements and emission limits

10. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 3 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 3.

Table 3: Infrastructure and equipment requirements during time limited operations

	Site infrastructure and equipment	Operational requirements	Infrastructure location
1.	Stage 2 Sulphide Ore	a) Dust suppression sprays must be operated throughout the plant, at the head of the	Located in accordance with the Premises Layout

	Site infrastructure and equipment	Operational requirements	Infrastructure location
	Processing Plant including flotation circuit and concentrator and Ore Supply Infrastructure (grinding and classification)	conveyor and material discharge points to minimise dust generation; b) Drop heights between excavators and trucks will be reduced to minimise the creation of fugitive dust; c) Activities to be terminated if adverse conditions result in excessive dust generation which cannot be suppressed and the event recorded; d) Regular housekeeping to be conducted to collect and remove earth material that may contribute to dust emissions; e) Ensure no visible dust generated from the primary activities crosses the boundary of the premises; f) Record volumes of sulphide ore processed through the SPP; g) Bund volumes within the process plant shall contain the loss of containment from the largest process circuit, plus the 24 hour 1% AEP rainfall event; h) Spill kits must be retained on site, for use in the event of a hydrocarbon or chemical spill, used by personal trained in spill response and clean up; and i) Spillage pump with multiple hose stations to be maintained within the plant bund to clean up any hydrocarbon or chemical spills to ensure bund capacity.	Map as depicted in Schedule 1, Schedule 1, Figure 1, labelled as “Wiluna Sulphide Plant” and the design drawings under Figure 3 and Figure 4 of Schedule 2.
2	Bunds and Sumps across all infrastructure	a) The floor level of bunds, sumps, chemical loading areas, bunded process areas and concentrate loadout areas shall be above the 1% AEP flood level; b) Bunds, sumps, chemical loading areas, concentrate loading areas and bunded process areas exposed to rainfall shall accommodate the largest inventory, plus any joined inventory plus the 1% AEP 24-hour duration rainfall event; c) Ensure bunded storage areas and sumps are maintained through regular inspections to prevent overflowing of contaminated stormwater; and d) Bunding and sump shall have a capacity of at least 110% of the largest vessel.	Located in accordance with the Premises Layout Map as depicted in Schedule 1, Schedule 1, Figure 1, labelled as “Wiluna Sulphide Plant”

	Site infrastructure and equipment	Operational requirements	Infrastructure location
3	General Pipeline Requirements	a) Pipelines provided within secondary containment sufficient to contain any leaks and spillages from pipe burst events; b) Pipelines equipped with automatic leak detection and shutoff systems to minimise discharge and allow for maintenance and recovery of materials; and c) Visual integrity of pipelines inspected daily when operating or weekly when not operating.	N/A
4	Reagent mixing and distribution unloading facility	a) Flotation reagents mixing, storage, distribution and dosing systems for the flotation reagents and flocculant are to be maintained in bunded storage areas to collect any spillage in the event of a loss of containment; b) Pipelines transferring reagents from the reagent mixing and storing area to the sulphide ore processing plant to be provided within double containment sufficient to contain any leaks and spillages from pipe burst events; c) Reagent pipelines to be maintained as constructed in Table 1; d) A process control system shall be maintained during operation to monitor the flow and pressure of reagent to the sulphide ore processing plant and shall alarm operations in the event of loss of containment; and e) Reagent offloading area shall be undertaken upon a trafficable kerbed, chemical resistant apron such that any leakage or spill is be directed to a sump/bund area for recovery/disposal.	N/A
5	Tailings pipeline and return water pipeline	a) Tailings pipeline from the SPP to the Wiltails Plant or existing CIL plant is to be contained within an earthen bund sufficient to contain any spill for a period equal to the time between inspections; and b) Tailings disposal lines and return pipelines are each to be equipped with two magnetic flow meters for leak detection and a pressure transmitter for monitoring.	Located in accordance with the Containment Infrastructure and Stormwater Management Infrastructure map as depicted in Schedule 1, Figure 2 and the design drawing depicted in Schedule 2, Figure 3.
6	Pipeline(s) carrying raw materials and processing materials from the grinding circuit to and	a) A process control system shall be implemented to monitor the flow and pressure and, shall alarm Operations in the event of loss of containment.	N/A

	Site infrastructure and equipment	Operational requirements	Infrastructure location
	within the stage 2 sulphide ore processing plant infrastructure		
7	Stormwater Management System	a) The reagent facility, sulphide ore processing plant, all pipelines and process tanks shall be maintained above the 1% AEP flood event; b) Event pond must be regularly inspected and pumped out to remove excess sediment to prevent overflowing of contaminated stormwater; (c) Potentially contaminated stormwater to be captured and prevented from being released in the environment; and (d) Ensure that uncontaminated stormwater is kept separate from contaminated or potentially contaminated stormwater.	Located in accordance with the Containment Infrastructure and Stormwater Management Infrastructure map as depicted in Schedule 1, Figure 2.
8	Water cart	a) Water cart must be available at all times at the Premises during operation phase to manage dust emissions on the ROM pad, in and around the SPP area, product stockpile areas and constructed landfill facilities.	Located within the Prescribed Premises boundary as depicted in the Premises Layout Map shown in Schedule 1, Figure 1.
9	West WRL, Happy Jack 2 WRL and House WRL Landfill facilities (Category 64)	a) Disposal of the category 64 waste types described in Table 4 shall only take place within the proposed landfill site areas as shown in Figure 1, Schedule 1; b) One trench within each landfill facility is to be active at any one time ; c) Boundary fencing shall be maintained around the landfill facility to contain windblown waste; d) Wind-blown waste must be collected on at least a fortnightly basis and returned to the tipping area; e) Visual inspections of waste coverage to be conducted on a weekly basis when operating; and f) Bunding to be maintained around each landfill facility to prevent potentially contaminated stormwater from mixing with uncontaminated stormwater.	Located in accordance with the Premises Layout Map as depicted in Schedule 1, Figure 1, labelled as “the proposed landfill sites”.
10	Bulletin Pit landfill facility (Category 63)	a) Disposal of Category 63 waste types described in Table 4 shall only take place within the Bulletin Pit landfill facility as shown in Figure 1, Schedule 1; b) One trench to be active at any one time;	Located in accordance with the Premises Layout Map as depicted in Schedule 1, Figure 1, labelled as “the proposed landfill sites”.

	Site infrastructure and equipment	Operational requirements	Infrastructure location
		c) Visual inspections of waste coverage to be conducted on a weekly basis when operating; d) Bunding to be maintained around landfill facility to prevent potentially contaminated stormwater from mixing with uncontaminated stormwater; e) Tyres, mill liners and poly pipes to be disposed in batches of less than 100 in total with each batch separated by at least 100mm; and f) Location of batches to be surveyed and the GPS coordinates recorded and marked on the site map.	

Waste acceptance

11. The works approval holder must only dispose of waste into the bulletin pit landfill facility and the West WRL, Happy Jack 2 WRL and House WRL Landfill facilities, shown on Figure 1, Schedule 1, if:

(a) it is of a type listed in Table 4;

(b) the quantity disposed of is below any quantity limit listed in Table 4; and

(c) it meets any specification listed in Table 4.

Table 4: Types of waste authorised to be disposed of within the premises

Disposal location	Waste type	Quantity limit	Specification
West WRL, Happy Jack 2 WRL and House WRL Landfill facilities (Category 64)	Inert Waste	Combined total limit of 1,500 tonnes per annual period	Complies with the definitions specified in the 'landfill definitions'.
	Putrescible Waste		
	Empty explosive bags		
	Broken pallets/timber		
Bulletin Pit landfill facility (Category 63)	Polyethylene material	Combined total limit of 2,000 tonnes per annual period	
	Building and demolition waste		
	Mill liners		
	Vent bags (tarps)		
	Conveyor rubber		

12. The works approval holder must ensure that cover is applied to landfilled waste in accordance with Table 5 and that sufficient stockpiles of cover are maintained on site at all times.

Table 5: Cover Requirements

Disposal location	Waste type	Cover requirements
Category 64- West WRL, Happy Jack 2 WRL and House WRL Landfill facilities	Inert Waste	To be covered at least weekly-with Type 1 inert waste or clean fill material to a depth of at least 300mm to ensure no waste is exposed.
	Putrescible Waste	
	Empty explosive bags	
	Broken pallets/timber	
Category 63 - Bulletin Pit landfill facility	Mill liners	
	Polyethylene material	
	Building and demolition waste	
	Vent bags (tarps)	
	Conveyor rubber	
	Tyres	

Compliance reporting

13. The works approval holder must submit to the CEO a report on the time limited operations within 30 calendar days of the completion date of time limited operations or 90 calendar days before the expiration date of the works approval, whichever is the sooner.

14. The works approval holder must ensure the report required by condition 13 includes the following:

(a) a summary of the time limited operations, including timeframes, amount of sulphide plant tailings processed and volumes of waste material processed and removed from the Premises;

(b) a summary of the environmental performance of all infrastructure as constructed or installed (as applicable), which includes records detailing the:

(i) sulphide processing plant;

(ii) containment infrastructure including bunding, sumps, pipelines and hydrocarbon/chemical storage tanks associated to sulphide processing plant;

(iii) dust suppression system associated to sulphide processing plant;

(iv) landfill facilities and

(v) stormwater management systems;

(c) a review of performance and compliance against the conditions of the works approval and the Environmental Commissioning Report; and

(d) where the manufacturer's design specifications and the conditions of this works approval have not been met, what measures will the works approval holder take to meet them, and what timeframes will be required to implement those measures

Records and reporting (general)

15. 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;

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

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

16. 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 this works approval; and

(c) complaints received under condition 15.

17. The books specified under condition 16 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 6 have the meanings defined.

Table 6: Definitions

Term	Definition
AEP	means Annual Exceedance Probability
Annual Period	a 12-month period commencing from 1 July until 30 June of the immediately following year.
AS/NZS 5667.1	means the Australian Standard AS/NZS 5667.1 Water Quality – Sampling – Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples.
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
Class I Landfill	means an unlined landfill designed to accept inert wastes for burial as defined under the Landfill Definitions.
Class II Landfill	means an unlined landfill designed to accept putrescible and inert wastes for burial as defined under the Landfill Definitions.
Condition	A condition to which this works approval is subject under section 62 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.
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 Commissioning	means the sequence of activities to be undertaken to test equipment integrity and operation, or to determine the environmental performance, of equipment and infrastructure to establish or test a steady state operation and confirm design specifications.

Term	Definition
Environmental Commissioning Report	means a report on any commissioning activities that have taken place and a demonstration that they have concluded, with focus on emissions and discharges, waste containment, and other environmental factors.
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).
Landfill Definitions	means the document titled "*Landfill Waste Classification and Waste Definitions 1996*" published by the Chief Executive Officer of the Department of Water and Environmental Regulation as amended from time to time.
Premises	the premises to which this works approval applies, as specified at the front of this works approval and as shown on the premises map (Figure 1) in Schedule 1 to this works approval.
Prescribed Premises	has the same meaning given to that term under the EP Act.
SPP	means Sulphide Ore Processing Plant (Stage 2)
ROM	means Run of Mine
Time Limited Operations	refers to the operation of the infrastructure and equipment identified under this works approval that is authorised for that purpose, subject to the relevant conditions.
Suitably Qualified and Experienced Engineer	means a person who: (a) Holds a Bachelor of Engineering recognised by the Institute of Engineers, Australia; and (b) Has a minimum of five years' experience working a supervisory area of structural or mechanical engineering.
Waste	has the same meaning given to that term under the EP Act.
WRL	means waste rock landform.
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 depicted by the pink line as shown in the map below (Figure 1).

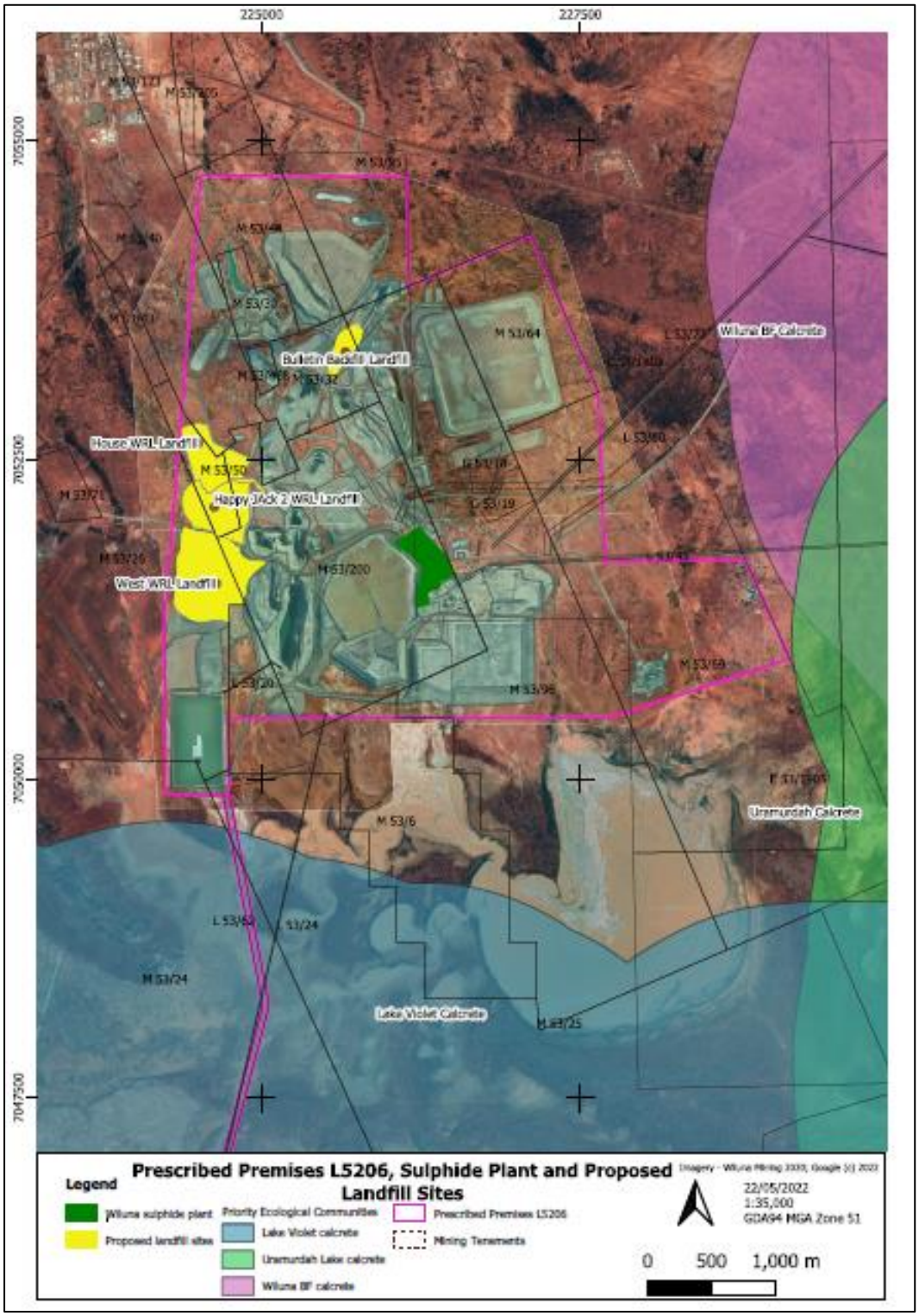

Figure 1: Map of the boundary of the prescribed premises

Containment Infrastructure and Stormwater Management Infrastructure map

The stormwater management infrastructure proposed to be constructed at the Premises is shown in the map below (Figure 2).

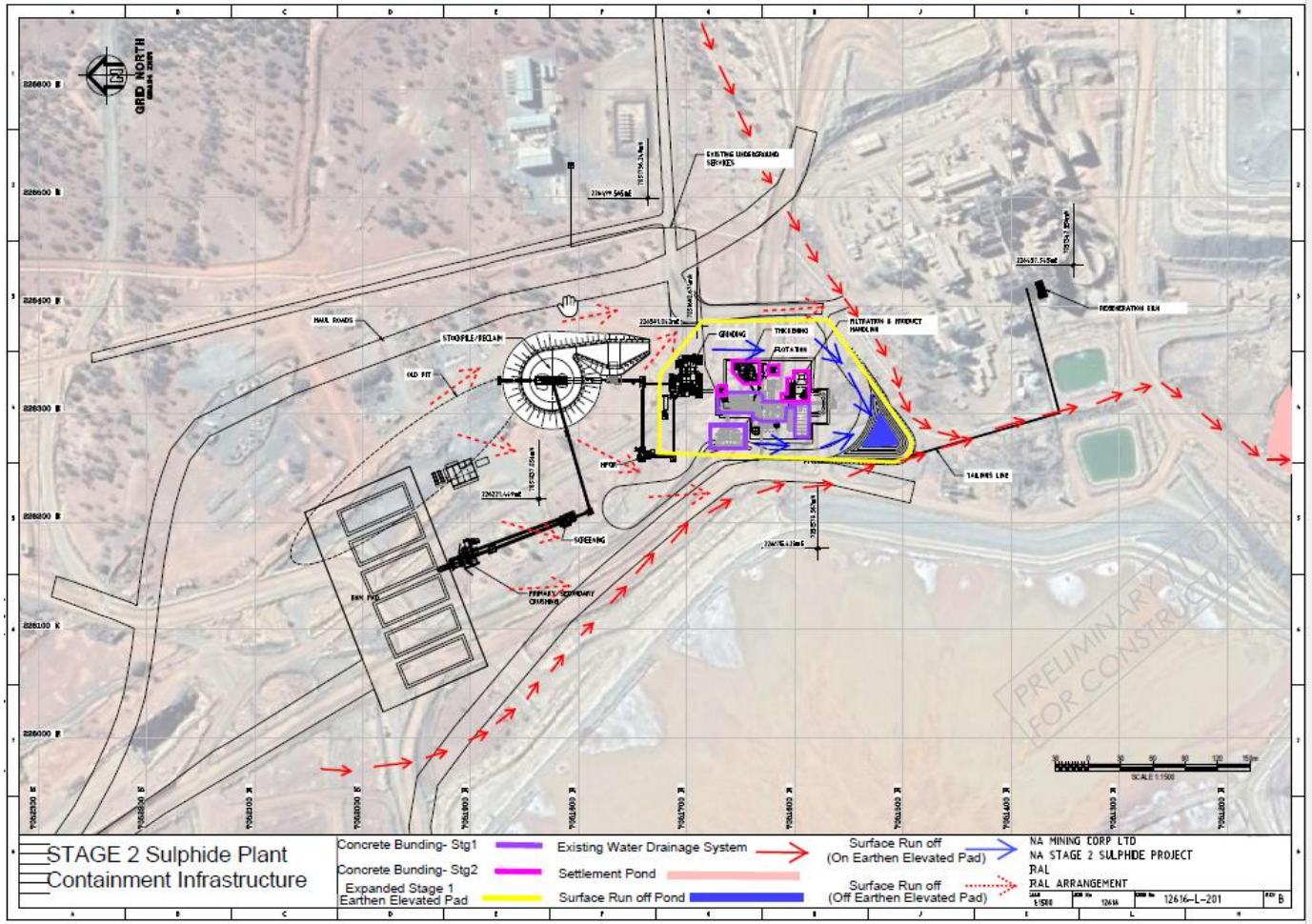

Figure 2: Containment Infrastructure and Storm Water Management Plan

Schedule 2: Design drawings

Sulphide Processing Plant (Stage 2) general arrangement

The general layout of the Sulphide Processing Plant infrastructure proposed to be constructed for Stage 2 at the Premises is shown in the map below (Figure 3).

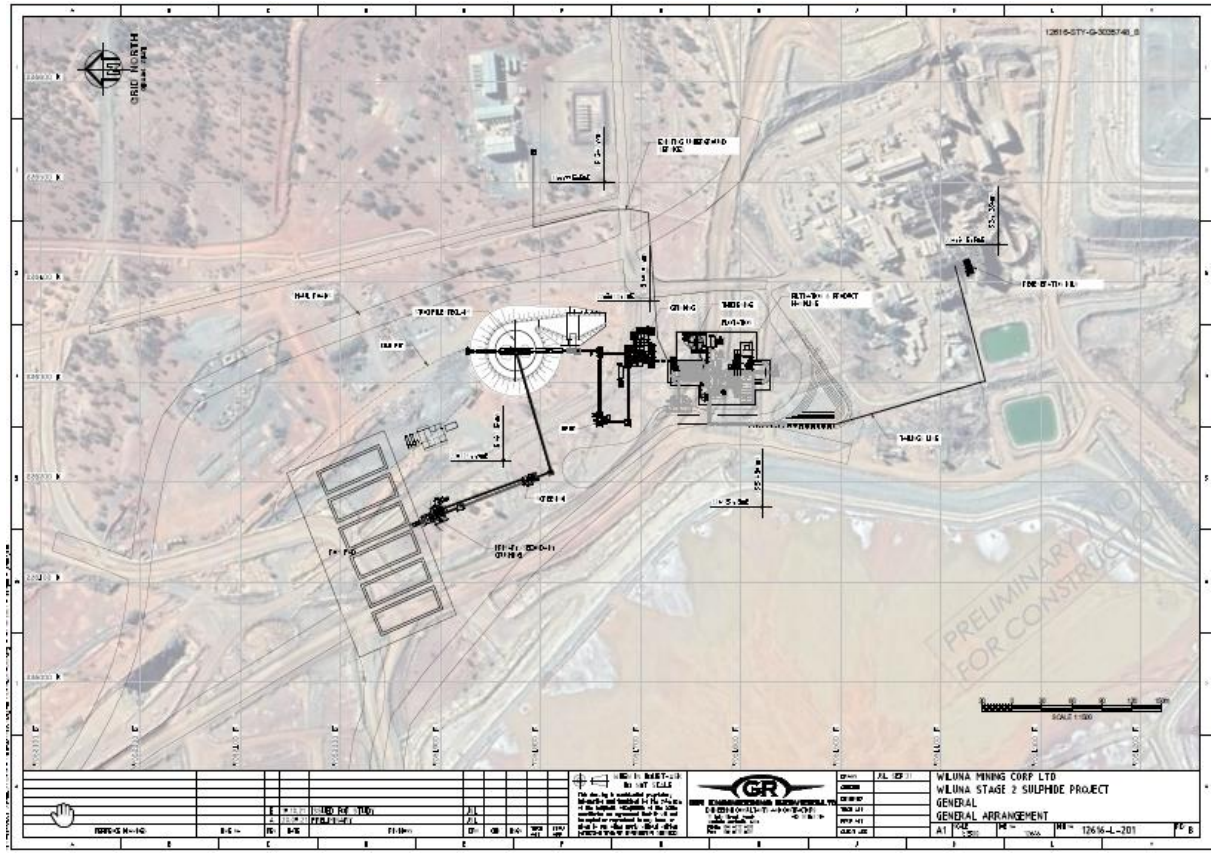

Figure 3: General Arrangement Layout of Sulphate Ore Processing Facility (Stage 2)

Sulphide Processing Plant (Stage 2) process flow

A process flow diagram of the Sulphide Processing Plant (Stage 2) operation is shown in the map below (Figure 4).

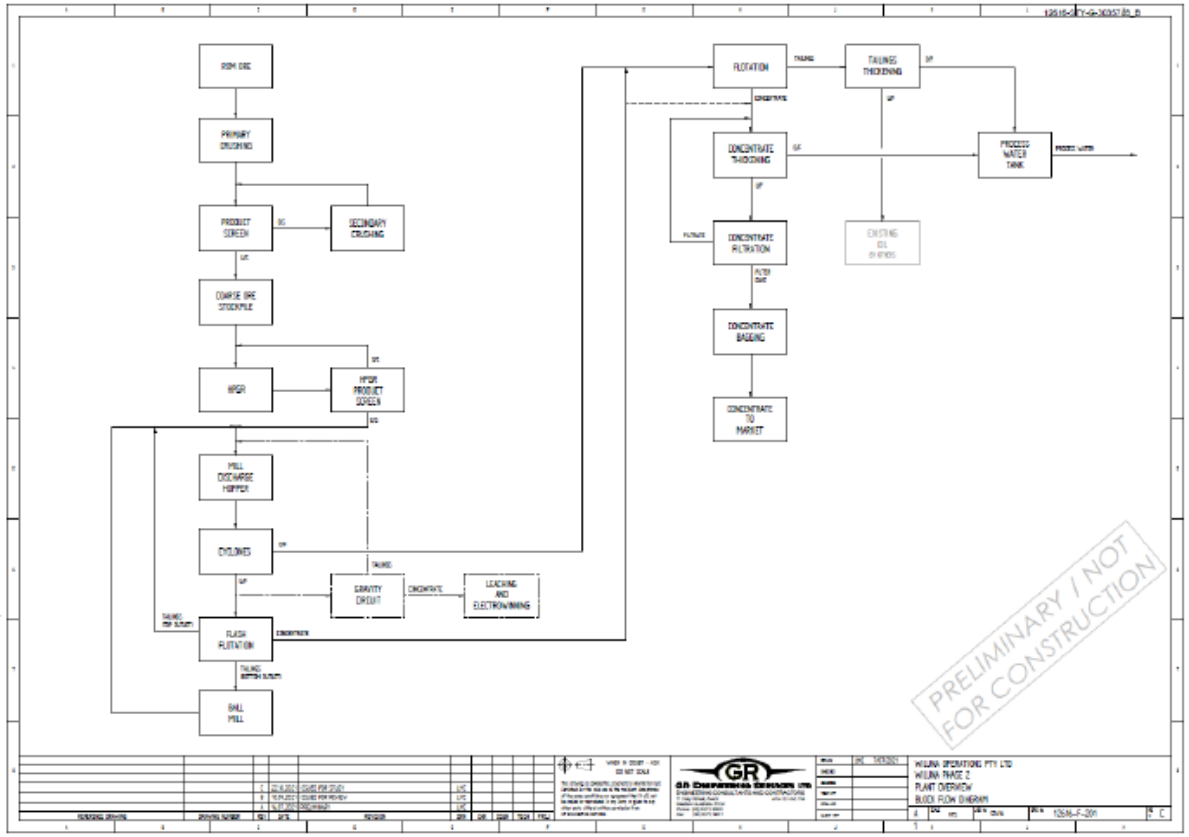

Figure 4: SPP (Stage 2) Process Flow Diagram