

Works Approval

| Works approval number | W6284/2019/1 |
|------------------------------|---|
| Works approval holder ACN | Robe River Mining Co. Pty Ltd 008 694 246 |
| Registered business address | Level 18, Central Park 152-158 St Georges Terrace PERTH WA 6000 |
| DWER file number | DER2019/000437 |
| Duration | 09/09/2020 to 08/09/2025 |
| Date of issue | 08/09/2020 |
| Date of amendment | 04/12/2023 |
| Premises details | Mesa A/ Warramboo Iron Ore Mine ML248SA, G08/82, G08/85, G08/90, L08/166, L08/178 and L08/177 as depicted in Schedule 1. |

| Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>) | Assessed production capacity |
|---|---|
| Category 5: Processing or beneficiation of metallic or non-metallic ore | 35,000,000 tonnes per annual period |
| Category 6: Mine dewatering | 7,000,000 tonnes per annual period |
| Category 64: Class II or Class III putrescible landfill site | 1,000 tonnes per annual period |
| Category 73: Bulk storage of chemicals etc. | 620 m ³ in aggregate (below threshold currently) |

This revised works approval is granted to the works approval holder, subject to the attached conditions, on 04 December 2023, by:

A/MANAGER, RESOURCE INDUSTRIES

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

Works approval history

| Date | Reference number | Summary of changes |
|------------|------------------|--|
| 09/09/2020 | W6284/2019/1 | Works Approval issued |
| 26/08/2022 | W6284/2019/1 | Amendment to extend time limited operations in condition 20 |
| 24/07/2023 | W6284/2019/1 | Amendment to extend the works approval expiration date from 08/09/2023 to 08/09/2025 |
| 04/12/2023 | W6284/2019/1 | Amendment to change the location of the landfill from the Mesa A waste dump to the Mesa C waste dump. Alternative location will meet all requirements for the design, construction, and operation of a landfill under the Works Approval. |

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 means the version of the standard, guideline or code of practice in force at the time of granting of this works approval and includes any amendments to the standard, guideline or code of practice which may occur from time to time during the course of the works approval;
- (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; and
 - (d) within the corresponding timeframe,

as set out in Table 1.

Table 1: Design and construction / installation requirements

| | Infrastructure | Design and construction / installation requirements | Infrastructure location |
|----|---|--|---|
| 1. | Ore Processing Facility (OPF) | Two ore transfer points: one to divert ore from the existing TLO feed conveyor; return wet material to the TLO feed conveyor; Surge bin equipped with an insertable type dust collector at the top of the bin structure; Load points from the surge bin onto each conveyor installed with skirts and covers to reduce spillage Wet scrubbing and screening; Conveyors for transportation of ore between facilities; Flocculant mixing plant including a flocculant silo, a mixing tank, a storage tank and flocculant dosing pumps; Dust suppression sprays on surge bin load points; Hydrocarbon facilities designed in accordance with <i>Australian Standard 1940- 2004: Storage and handling of flammable and combustible liquids;</i> and Waste fines thickener | ML248SA As per Figure 2 |
| 2. | Ore Processing Facility - Spill/ drainage controls | Concrete hardstand bunding at the flocculant dosing pumps; Concrete hardstand bunding located by grey shaded areas in Figure 2 of Schedule 1 Earthen pad outside bunded compounds graded to direct stormwater flow to the south west of the pad where sediment is contained by the adjacent access road; Access roads bunded to direct uncontaminated stormwater around the perimeter of the OPF; Drive- in sumps with concrete lined drying pads and water recycled to sumps, to be designed as per Figure 3 and Figure 4 in Schedule 1; and Emergency dump pond with a capacity of 5.9 ML located as per Figure 2 of Schedule 1. | ML248SA OPF general layout as per Figure 2 Indicative drive-in sump locations as shown in Figure 5 of Schedule 1 |
| 3. | Waste fine delivery pipeline from Mesa A to Warramboo WFSF | Secondary containment for tailings distribution pipeline located on mine access roads bunded with a windrow on one side; Pressure/flow gauges to be included on the tailings distribution pipeline to identify loss of flow; Scour valves and sumps to be installed at low points of the tailings distribution pipeline within the bunded corridor to allow for draining of the pipeline prior to inspection; | As per Figure 6 and Figure 8 in Schedule 1 Figure 6 |

| | Infrastructure | Design and construction / installation requirements | Infrastructure location |
|----|---|--|---|
| | | Drains to be located at low points along the pipeline (approximately every 1 km); Scour pits sized for 15 minutes of the design flow (515m³/hr) with some additional storage capacity; and Flowmeters installed at the discharge point of the wet plant pumps and the booster station pumps. The line will be fitted with pressure transmitters at both pump stations and at the burst disc locations. Pumps to be interlocked with these instruments. Bolted connections will be included in the pipeline to allow for disconnection and internal inspection. | |
| 4. | Dewatering pipeline and discharge point | Secondary containment provided for dewatering pipeline via windrow on outside of pipeline route. The pipelines to be located alongside access roads; Flow meter to be installed at the discharge point; Rip rap apron installed at the discharge point in accord with design as shown in Figure 10 of Schedule 1; and Rip rap protection to be installed within the portion of the creek bed deemed susceptible to erosion as per design in Figure 10 of Schedule 1. | L08/177 (pending) As per Figure 9 and Figure 10 in Schedule 1 |
| 5. | Landfill facilities | Landfill facilities maximum capacity of <1,000 tonnes per annum with the following location requirements: Located within Prescribed Premises boundary; Located at least 100 m from any permanent or perennial watercourse; and Located so that vertical distance between the waste and the highest seasonal and expected post mining ground water level is no less than 3 m (waste dump landfill) or 10 m (putrescible landfill). Landfill facilities will have the following requirements: Establishment of windrows to delineate the tipping area and allow access for authorised vehicles and personnel; Installation of fencing with gates to the Putrescible landfills to restrict unauthorised access; Signage will also be installed to indicate types of waste accepted for burial; and Areas cleared only as required to reduce open areas. | ML248SA Location as per Figure 11 of Schedule 1 |
| 6. | Heavy Vehicle Refueling Facility (HVRF) | Areas cleared only as required to reduce open areas. Heavy vehicle refuelling bays with delivery pump and fuel arm to suit the HV fleet and associated bunds as per Australian Standard 1940-2004 (AS 1940-2004): The storage and handling of flammable and combustible liquids; Drainage from pad directed to an oily water separator (OWS) which discharges to a HDPE lined evaporation pond; 2 x 220 kL above ground self bunded fuel storage tanks; Concrete hardstand installed at the heavy vehicle refuelling facility road tanker unloading pad, heavy vehicle refuelling bay, light vehicle refuelling bay and the pump station bunded areas; Potentially contaminated surface water to be collected in sumps and directed to the OWS. The OWS to be able to treat hydrocarbon wastewater to achieve a concentration of TRH (total recoverable hydrocarbons) of <15mg/L | As per Figure 12 and Figure 13 in Schedule 1 |

- 2. The works approval holder must:
 - (a) construct the critical containment infrastructure;
 - (b) in accordance with the corresponding design and construction requirements;
 - (c) at the corresponding infrastructure location; and
 - (d) within the corresponding timeframe

as set out in Table 2.

Table 2: Critical containment infrastructure design and construction requirements

| | Infrastructure | Design and construction requirements | Infrastructure location | Timeframe |
|----|----------------|--|--|--|
| 1. | WFSF Pit 1/2 | WFSF Pit 1/2 emergency spillway located at the north- western end of Pit 1/2 Emergency spillway invert level will be at 54.5m RL; Spigot deposition points to be located as per Figure 8 in Schedule 1; Supernatant (decant) pond pontoon- mounted pump system; | Schedule 1; Maps, Premises Map Figure 6 and Figure 7 Schedule 1: Maps, Figure 11 | Prior to the submittal of the Environmental Compliance Report required by condition 8 |
| 2. | WFSF Pit 3 | | Schedule 1; Maps. Premises Map Figure 6 and Figure 7 | Prior to the submittal of the Environmental Compliance Report required by condition 8 |

3. The works approval holder must design, construct and install 4 new groundwater monitoring bores in accordance with the requirements specified in Table 3.

Table 3: Installation of groundwater monitoring bores

| Infrastructure | Design, construction and installation requirements | Monitoring bore location | Timeframe |
|------------------------------------|---|---|--|
| Groundwater monitoring bores | Four new groundwater monitoring bores to be installed to monitor for SWLs and water quality: Well screens must target the part, or parts, of the aquifer most likely to be affected by contamination1. Where temporary/seasonal perched features are present, wells must be nested, and the perched features individually screened; Designed and constructed in accordance with ASTM D5092/D5092M-16: Standard practice for design and installation of groundwater monitoring bores; and A bore location map (using aerial image overlay) must be prepared and include the location of all monitoring bores in the monitoring network and their respective identification numbers. | Schedule 1: Maps, Premises map, Figure 15 | Must be constructed, developed (purged) and determined to be operational no later than 60 calendar days prior to the commencement of the environmental commissioning under condition 8 |

Note 1: Refer to Section 8 of Schedule B2 of the Assessment of Site Contamination NEPM for guidance on well screen depth and length.

4. The works approval holder must, within 60 calendar days of the monitoring bores in Table 3 being constructed, submit to the CEO a bore construction report evidencing compliance with the requirements of condition 3 and depicting the bore locations.

5. The works approval holder must within 60 days of the monitoring bores in Table 3 being constructed, conduct baseline sampling in accordance with Section 8.2.3.5 of *National Environment Protection (Assessment of Site Contamination) Measure* 1999 (NEPM, 1999) for parameters outlined in Schedule 2: Monitoring.

Improvement condition

- **6.** The works approval holder must submit to the CEO, a Perimeter Bund Design Report of the infrastructure identified in Table 4, by 30 September 2021;
- 7. The Perimeter Bund Design Report required by condition 6 must include as a minimum the following:
 - (a) revised water balance modelling;
 - (b) revised flood risk review;
 - (c) final design and construction schedule for the infrastructure identified in Table
 4, considering findings from condition 7(a)(b);

Table 4: Perimeter bund requirements

| Infrastructure | Design and construction requirements | Infrastructure location |
|--|---|---|
| Perimeter bund around:WFSF Pit 1/2WFSF Pit 3 | Perimeter bund to be installed around the WFSF to divert stormwater away from the facility as per the detail in Figure 14 in Schedule 1. | Schedule 1; Maps, Figure 14 in Schedule 1. |

Compliance reporting

- Subject to condition 1, within 28 days of the completion of the works specified in Table
 1, the works approval holder must submit to the CEO an Environmental Compliance
 Report certified by a suitably qualified professional engineer that:
 - (a) lists and describes the completed works and any associated items of infrastructure and equipment listed in Table 1;
 - (b) certifies whether or not each item of infrastructure or component of infrastructure specified in Table 1 has been constructed with no material defects and to the requirements specified in Table 1;
 - (c) contains 'as constructed' plans for each item of infrastructure or component of infrastructure specified in Table 1; and
 - (d) is signed by a person authorised by the works approval holder and contains the printed name and position of that person within the company.
- **9.** Subject to condition 8, where an item of infrastructure or component of infrastructure has been certified as not being constructed, or does not comply with the corresponding requirements, or contains material defects, the works approval holder must:
 - (a) correct the non-compliant or defective works, prior to re-certifying in accordance with condition 8(b); or
 - (b) provide to the CEO a description of, and explanation for, any departures from the requirements specified in Table 1 that do not require rectification and do not constitute a material defect along with the report required by condition 8.

- **10.** Subject to condition 2, within 30 days of the completion of the works specified in Table 2, the works approval holder must submit to the CEO a Critical Containment Infrastructure Report certified by the Tailings Design Engineer or their delegate that:
 - (a) lists and describes the completed works and any associated items of infrastructure and equipment listed in Table 2;
 - (b) certifies whether or not each item of infrastructure or component of infrastructure specified in Table 2 has been constructed with no material defects and to the requirements specified in Table 2;
 - (c) contains 'as constructed' plans for each item of infrastructure or component of infrastructure specified in Table 2; and
 - (d) is signed by a person authorised by the works approval holder and contains the printed name and position of that person within the company.
- **11.** Subject to condition 10, where an item of infrastructure or component of infrastructure has been certified as not being constructed, or does not comply with the corresponding requirements, or contains material defects, the works approval holder must:
 - (a) correct the non-compliant or defective works, prior to re-certifying in accordance with condition 10(b); or
 - (b) provide to the CEO a description of, and explanation for, any departures from the requirements specified in Table 2 that do not require rectification and do not constitute a material defect along with the report required by condition 10.

Ambient groundwater monitoring

12. The ambient groundwater monitoring required under condition 5 must be undertaken in accordance with condition 20.

Environmental commissioning phase

Environmental commissioning requirements

- **13.** Table 5 once the Environmental Compliance Report has been submitted for that item of infrastructure in accordance with condition 8 of this works approval.
- **14.** The works approval holder may only commence environmental commissioning of an item of infrastructure identified in condition 2:
 - (a) once the Environmental Compliance Critical Containment Infrastructure Report has been submitted for that item of infrastructure in accordance with condition 10 of this works approval; and
 - (b) the CEO has notified the works approval holder that the Critical Containment Infrastructure Report required by condition 10 meets the requirements of the works approval within 45 days.
- **15.** Table 5 may only be carried out:
 - (a) in accordance with the corresponding commissioning requirements; and
 - (b) for the corresponding authorised commissioning duration.

| Infrastructure | Commissioning requirements | Authorised commissioning duration |
|---|---|--|
| Ore Processing Facility | Subject to completing the requirements of conditions 8 and 9 | Stages 1 to 3: 180 calendar days Stages 4 to 6 (commissioning with ore): 120 calendar days |
| WFSF | Subject to completing the requirements of conditions 8, 10 and 11 | 14 calendar days |
| Tailings and decant water discharge pipelines | Subject to completing the requirements of conditions 8, 10 and 11 | 14 calendar days |
| Dewatering pipeline and discharge point for pit water discharge direct to Waramboo Creek (no tailings present) | Commissioning not required | Commissioning not required |
| Landfill facility | Commissioning not required | Commissioning not required |
| Heavy Vehicle Refueling facility | Commissioning not required | Commissioning not required |

Table 5: Environmental commissioning requirements

16. During environmental commissioning and time limited operations, the works approval holder must ensure that the emission(s) specified in Table 6, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 6: Authorised discharge points during commissioning and time limited operations

| | Emission | Discharge point | Discharge point location |
|----|---|--|-------------------------------|
| 1. | Waste fines to WFSF Pit 1/2 and Pit 3 | Pit 1/2 via one or more discharge points from spigots located around the pit perimeter | As per Figure 8 in Schedule 1 |
| | | Pit 3 via one or more discharge points from spigots located around the pit perimeter | |

Environmental commissioning reporting

- **17.** 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 5.
- **18.** The works approval holder must ensure the Environmental Commissioning Report required by condition 15 of this works approval includes the following:
 - (a) a summary of the environmental commissioning activities undertaken, including timeframes;
 - (b) a summary of the environmental performance of each item of infrastructure as constructed or installed;

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

- **19.** The works approval holder may conduct time limited operations for an item of infrastructure specified in condition 1:
 - (a) where the item of infrastructure does not require environmental commissioning, the Environmental Compliance Report as required by conditions 6 and 8 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 11, the Environmental Commissioning Report for that item of infrastructure as required by condition 15 has been submitted by the works approval holder.
- **20.** The works approval holder may conduct time limited operations for an item of infrastructure specified in conditions 1 and 2:
 - (a) for a period specified in Table 7 from the day the works approval holder meets the requirements of conditions 1 and 2 (as applicable) 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*, if one is granted before the end of the period specified in condition 20(a).

| Infrastructure | Authorised time limited operation duration |
|--|--|
| Ore Processing Facility | 208 calendar days |
| WFSF Pit 1/2 and Pit 3, including tailings deposition pipeline | 208 calendar days |
| Dewatering pipeline and discharge point | 275 calendar days |
| Landfill facility | 180 calendar days |
| Heavy Vehicle Refueling facility | 180 calendar days |

Table 7: Duration of time limited operations

21. During time limited operations, the works approval holder must ensure that the premises infrastructure and equipment listed in Table 8 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 8.

Table 8: Infrastructure and equipment requirements during time limited operations

| | Site infrastructure and equipment | Operational requirement | Infrastructure location |
|----|--|---|--|
| 1. | Ore Processing Facility | Operate dust controls on transfer points to manage dust emissions; Maintain and operate the oily water collection and treatment system; and Capacity in sedimentation ponds/sumps/silt traps to be maintained; Sumps, emergency dump pond to be inspected within 24 hours of rainfall event. Record volume of ore processed. | Schedule 1: Maps, Premises map, Figure 1 and Figure 2 |
| 2. | WFSF Pit 1/2 and Pit 3 | Freeboard adequate to store the 1:100 year 72-hour rainfall event (freeboard of 1.5 m to the emergency spillway level (54.5mRL)); and Decant pumping system in pit 1/2 Continuous volume of tailings discharged recorded and to location, while discharging. | Schedule 1: Maps, Premises map, Figure 6, Figure 7 and Figure 8 |
| 4. | Dewatering pipeline and discharge point | Inspect the mine dewatering water pipeline daily, when discharging, to Warramboo Creek; Inspect the discharge outlet daily, when discharging, for excessive scouring and make good repairs within 14 days of recording the maintenance request; and Only discharge pit water from operational pit, no tailings decant is to be discharged to Warramboo Creek. Continuous volume of dewatering discharge recorded and to location, while discharging. | Schedule 1: Maps, Premises map, Figure 9 and Figure 10 |
| 5. | Landfill facilities | Waste disposed of to landfill facilities to be recorded; Fencing at the putrescible landfill facilities will be regularly inspected for damage and cleared of waste; Signage maintained which clearly defines what waste is accepted; Surface water management structures (i.e. bunding) will be maintained to divert surface water flows away from landfill facilities; Bunding or sumps will collect any surface water that has come into contact with waste; The tipping area of putrescible landfill facilities will not be greater than 30 m in length and 2 m above ground level height; Waste in waste dump landfill facilities will be covered when required, to at least 200mm at final landform design; Use of water trucks, control of vehicle movements / restricted speeds; and weather forecasts will be monitored, with activities that have the potential to generate high dust levels restricted if adverse weather. | Schedule 1: Maps, Premises map, Figure 11 |

| | Site infrastructure and equipment | Operational requirement | Infrastructure location |
|----|-----------------------------------|--|---|
| | | and Putrescible waste (wooden packaging and pallets only). Putrescible Landfill Facilities acceptance criteria: Clean fill Inert Type 1 waste; Inert Type 2 waste; Putrescible waste; | |
| | | Special Type 1 waste; and Other wastes that comply with the Class II criteria as defined in the Landfill Definitions. | |
| 6. | Heavy Vehicle Refueling facility | Vehicle refuelling to occur over concrete hardstand; Potentially contaminated surface water to be collected in sumps and directed to the OWS and TRH concentrations of <15mg/L to be achieved for dust suppression; and Spill response equipment available. | Schedule 1: Maps, Premises map, Figure 12 and Figure 13 |

Monitoring during environmental commissioning and time limited operations

22. The works approval holder must monitor emissions during environmental commissioning and time limited operations in accordance with Table 9.

Table 9: Emissions monitoring during commissioning and time limited operation

| Discharge | | | Parameter Frequency | Averaging | Unit | Method | |
|---------------------------|--|--|--|----------------|--|---------------------------------------|--|
| point | location | | | Period | | Sampling | Analysis |
| WFSF: Pit 1/2 Pit 3 | MB13WARR003 MB13WARR012 MB13WARR013 MB13WARR016 MB17WARR0008 | Surface water level | Monthly during time limited operations | Spot sample | Metres below ground level (mbgl) | AS/NZS 5667.1 AS/NZS 5667.11 | In field non- NATA accredited analysis permitted |
| | MB19WARR0001 | рН | | | pH units | | |
| | + 4 new monitoring bores (Figure 15) | Electrical Conductivity (EC) | | | µS/cm | | |
| | | Dissolved Oxygen (DO) Total | | | mg/L | | By a NATA accredited laboratory |
| | | Hardness (CaCO₃) Total | | | | | |
| | | Dissolved Solids (TDS) | | | | | |
| | | Major lons: Calcium Chloride | | | | | |
| | | Fluoride Potassium Magnesium | | | | | |
| | | Sodium Sulphate Nutrients: | | | | | |
| | | Total Phosphorus Total Nitrogen Nitrogen as | | | | | |
| | | NO ₂ | | | | | |

| Dewatering water discharged to | As per Figure 9 | pH EC | Once during commissioning Monthly during | Spot sample | pH units µS/cm | 5667.1 AS/NZS | NATA accredited |
|--|------------------------------------|--|---|----------------|-------------------|---------------------------------------|--|
| | | Chromium Copper Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrate Potassium Selenium Sodium Sulfate Zinc | | | | AS/NZS | In field non- |
| | | TDS Acrylamide Aluminium Arsenic Barium Boron Calcium Carbonate Cadmium Calcium Chloride | | | mg/L | | By a NATA accredited laboratory |
| Tailings (supernatant and fines) | New Processing Plant (Figure 1) | pH EC ¹ | Quarterly during time limited operations | Spot sample | pH units µS/cm | AS/NZS 5667.1 AS/NZS 5667.11 | In field non- NATA accredited analysis permitted |
| | | Nitrogen as NO ₃ Nitrogen as NH4 Metals/ metalloids: Aluminium Antimony Arsenic Boron Barium Cadmium Chromium Cobalt Copper Iron Lead Mercury Manganese Molybdenum Nickel Selenium Silicon Silver Tin Uranium Zinc Organic compound: Acrylamide | | | | | |

| Warramboo Creek | | | operations (if discharge is occurring). | | | | analysis permitted |
|--|-----------------|---|---|----------------|------|---------------------------------------|---------------------------------------|
| Dewatering water discharged to Warramboo Creek | As per Figure 9 | TDS Acrylamide Aluminium Arsenic Barium Boron Carbonate Cadmium Calcium Chloride Chromium Copper Fluoride Iron Lead Magnesium Manganese Mercury Molybdenum Nickel Nitrate Potassium Selenium Sodium Sulfate Zinc | Once during commissioning Monthly during time limited operations (if discharge is occurring). | Spot sample | mg/L | AS/NZS 5667.1 AS/NZS 5667.11 | By a NATA accredited laboratory |

Specified Actions

- **23.** The works approval holder must conduct leach testing of two saturated columns of representative waste fine/waste rock from the receiving Pit samples for a minimum period of 13 weeks during time limited operations. The leaching test methodology shall be representative of the anoxic conditions likely to be present at the WFSF and follow the protocol outlined in Watson *et al* 2016. The works approval holder shall analyse the concentrations of contaminants in the leachate and detail the methodology used, source of the samples and the results in a report.
- **24.** Within 60 days of the preparation of the report required by condition 23 the works approval holder must submit the report to the CEO.

Inspections

25. The works approval holder must conduct visual inspections of the infrastructure during commissioning and time limited operations at the frequency specified in Table 10.

Table 10: Inspections of infrastructure

| Infrastructure (refer to Schedule 1 Premises Plan) | Type of inspection | Frequency |
|---|---|-----------|
| Waste fines delivery pipelines | Integrity check/ loss of containment | daily |
| Waste fines decant water discharge pipelines | containment | daily |
| WFSF Pit 1/2 embankment freeboard | To confirm required freeboard capacity is available | daily |
| Pit 3 Process Water Dam | To confirm required freeboard capacity is available | daily |

Compliance reporting

- **26.** The works approval holder must submit to the CEO a report on the time limited operations within 90 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.
- **27.** The works approval holder must ensure the report required by condition 26 includes the following:
 - (a) A summary of the time limited operations, including timeframes and amount of iron ore processed;
 - (b) product produced;
 - (c) waste fines deposited;
 - (d) waste fines density (solid vs water content);
 - (e) water balance over the WFSF including any dewatering volume discharged and calculated seepage;
 - (f) Monitoring results recorded in accordance with conditions 12 and 20;
 - (g) Comparison of the data from conditions 12 and 22 with the ANZECC water quality default guideline values for 95% protection of freshwater aquatic ecosystems;
 - (h) a summary of the environmental performance of all plant and equipment as installed, which at minimum includes records detailing the:
 - (i) operations of the infrastructure; and
 - (ii) testing the infrastructure.
 - (i) a review of performance against the works approval; and
 - (j) where they have not been met, measures proposed to meet the manufacturer's design specification and conditions of this works approval, together with timescales for implementing the proposed measures.

Records and reporting (general)

28. 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.
- **29.** 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 conditions 1 and 2;
 - (b) any maintenance of infrastructure that is performed in the course of complying with conditions of this works approval;
 - (c) monitoring programmes undertaken in accordance with condition 22;
 - (d) visual inspections undertaken in accordance with condition 25; and
 - (e) complaints received under condition 28.
- **30.** The books specified under condition 29 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 11 have the meanings defined.

Table 11: Definitions

| Term | Definition | | | | | |
|---|--|--|--|--|--|--|
| annual period | a 12 month period commencing from 1 January until 31 December of the immediately following year. | | | | | |
| AS/NZS 5667.1 | Australian/ New Zealand Standard 5667.1:1998 Water Quality- Sampling. Part 1: Guidance on the design of sampling programs, sampling techniques and the preservation and handling of samples | | | | | |
| AS/NZS 5667.11 | Australian/ New Zealand Standard 5667.11:1998 Water Quality- Sampling. Part 11: Guidance on sampling of groundwaters | | | | | |
| AS1940- 2004 | Australian Standard 1940- 2004. The Storage and Handling of flammable and combustible liquids | | | | | |
| books | has the same meaning given to that term under the EP Act. | | | | | |
| | means Chief Executive Officer. | | | | | |
| | CEO for the purposes of notification means: | | | | | |
| CEO | Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 | | | | | |
| | info@dwer.wa.gov.au | | | | | |
| Clean Fill | has the meaning defined in Landfill Definitions | | | | | |
| critical containment infrastructure | means the items of infrastructure listed in condition 0. | | | | | |
| Critical Containment Infrastructure Report | means a report to satisfy the CEO that works of critical containment infrastructure have been constructed in accordance with the works approval. | | | | | |
| Department | means the department established under section 35 of the <i>Public Sector</i> <i>Management Act 1994</i> 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. | | | | | |
| 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. | | | | | |

| Term | Definition | | | | |
|-------------------------|---|--|--|--|--|
| EP Act | Environmental Protection Act 1986 (WA). | | | | |
| GL | gigalitre | | | | |
| HVRF | Heavy Vehicle Refuelling Facility | | | | |
| Hyporheic | Means the region of sediment beneath and adjacent to a stream containing a mixture of local and regional groundwater and stream water | | | | |
| Inert Waste Type 1 | has the meaning defined in Landfill Definitions | | | | |
| Inert Waste Type 2 | has the meaning defined in Landfill Definitions | | | | |
| Landfill Definitions | means the document titled "Landfill Waste Classification and Waste Definitions 1996" published by the Chief Executive Officer of the Department of Environment and Conservation as amended from time to time | | | | |
| mg/L | Means milligrams per litre | | | | |
| OWS | Oily Water Collection and Treatment System | | | | |
| рН | pH unit | | | | |
| prescribed premises | has the same meaning given to that term under the EP Act. | | | | |
| Putrescible Waste | has the meaning defined in Landfill Definitions | | | | |
| RL | Reference level | | | | |
| Special Waste Type 1 | has the meaning defined in Landfill Definitions | | | | |
| SWL | Standing Water Level | | | | |
| tipping area | means the area of a landfill where waste is currently being disposed | | | | |
| 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. | | | | |
| µS/cm | Means microseimens per centimetre | | | | |
| waste | has the same meaning given to that term under the EP Act. | | | | |
| Watson et al. (2016) | Watson, A., Linklater, C. and Chapman, J., 2016. Backfilled pits - laboratory-scale tests for assessing impacts on groundwater quality. <i>Proceedings of the AusIMM Life of Mine Conference, Brisbane 28-30 September 2016.</i> The paper is available from web site https://www.srk.cn/sites/default/files/file/AWatson_BackfilledPits_2016_0.pdf . | | | | |
| WFSF | Waste fines storage facility, which is made up to Pit 1/2 and Pit 3 | | | | |
| 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).



Figure 1: Map of the boundary of the prescribed premises at Mesa A/ Warramboo - proposed processing plant, dewatering discharge point and tailings sampling location.



Figure 2: Site layout of the proposed ore processing facility (OPF) at Mesa A (concrete bunds and footings shown by grey shaded areas)



Figure 3: OPF Sump Design Detail (1 of 2)



Figure 4: OPF Sump Design Detail (2 of 2)



Figure 5: OPF Sump locations (indicated by red circles)



Figure 6: Location of the proposed WFSF at Warramboo



Figure 7: Site plan of the WFSF at Warramboo



Figure 8: WFSF and spigot layout at Warramboo



Figure 9: Location of the proposed mine dewatering discharge point into Warramboo Creek from Mesa A/ Warramboo



Figure 10: Design of the proposed discharge point at Warramboo



Figure 11: Location of the proposed waste dump landfill facility at Mesa A/Warramboo



Figure 12: Location of the proposed heavy vehicle refueling facility at Mesa A/Warramboo



Figure 13: Design of the proposed heavy vehicle refueling facility at Mesa A/ Warramboo



Figure 14: Location of the WFSF Pit 1/2 and Pit 3 Perimeter bund



Figure 15: WFSF groundwater monitoring bores to be installed at Mesa A/Warramboo.

Schedule 2: Monitoring

| Monitoring | Parameter | Unit | Averaging | | Method | |
|---|--|----------|----------------|---------------------------------|---|--|
| location | r ai ainetei | onit | period | Sampling | Analysis | |
| | SWL (standing water level) | mbgl | Spot sample | AS/NZS 5667.1 AS/NZS 5667.11 | In field | |
| | рН | pH units | | | In field non NATA sampling permitted | |
| | Electrical Conductivity (EC) | µS/cm | | | · | |
| | Dissolved Oxygen (DO) | | | | | |
| | Total Hardness (CaCO ₃) | | | | | |
| | Total Dissolved Solids (TDS) | | | | | |
| 4 new Bores as per Figure 15 in Schedule 1 | Major Ions: Calcium Chloride Fluoride Potassium Magnesium Sodium Sulfate | | | | | |
| | Organic compound: Acrylamide | | | | | |
| | Nutrients: Total Phosphorus Total Nitrogen Nitrogen as NO ₂ Nitrogen as NO ₃ Nitrogen as NH ₄ | mg/L | Spot sample | AS/NZS 5667.1 AS/NZS 5667.11 | By a NATA accredited laboratory | |
| 4 new Bores as per Figure 15 in Schedule 1 | Metals/metalloids: Aluminium Arsenic Antimony Boron Cadmium Cobalt Chromium Copper Iron Mercury Manganese Molybdenum Nickel Lead Selenium Tin Uranium Zinc | | | | | |