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Published on: 28 August 2025

Statement No. 1252

STATEMENT THAT A PROPOSAL MAY BE IMPLEMENTED
(*Environmental Protection Act 1986*)

ARROWSMITH NORTH SILICA SAND PROJECT

Proposal: The proposal is to develop a silica sand mine approximately 270 km north of Perth. The proposal includes the development of a mine feed plant, moveable surface conveyor, pipeline, processing plant, stockpiles, freshwater supply bore, access corridor, laydown, administration, water storage and associated infrastructure.

Proponent: VRX Silica Limited
Australian Company Number 59 142 014 873

Proponent address: Ground Floor, 52 Kings Park Road
WEST PERTH WA 6005

Assessment number: 2291

Report of the Environmental Protection Authority: 1778

Introduction: Pursuant to section 45 of the *Environmental Protection Act 1986*, it has been agreed that the proposal entitled Arrowsmith North Silica Sand Project described in the 'Proposal Content Document' attachment of the referral of 17 March 2021, as amended by the change to proposal approved under s. 43A on 13 October 2021, 14 June 2022 and 25 October 2024 may be implemented and that the implementation of the proposal is subject to the following implementation conditions and procedures.

Conditions and procedures

Part A: Proposal extent

Part B: Environmental outcomes, prescriptions and objectives

Part C: Environmental management plans and monitoring

Part D: Compliance and other conditions

PART A: PROPOSAL EXTENT

A1 Limitations and Extent of Proposal

A1-1 The proponent must ensure that the proposal is implemented in such a manner that the following limitations or maximum extents / capacities / ranges are not exceeded:

Proposal element	Location	Maximum extent
Physical elements		
Mine development envelope	Figure 2	No more than 292.6 ha
Access development envelope	Figure 2	No more than 60.4 ha
Disturbance footprint within the mine development envelope	Figure 2	No more than 292.6 ha
Disturbance footprint within the access development envelope	Figure 2	No more than 6.5 ha
Direct disturbance of native vegetation	Within the development envelopes shown in Figure 2	Clearing of no more than 299.1 ha of native vegetation in total and no more than 11 ha in any one year for stages 2, 3 and 4.
Progressive rehabilitation	Within the development envelopes shown in Figure 2	No less than 299.1 ha
Operational elements		
Groundwater abstraction	NA	No more than 0.9 GL/a
Power supply	NA	Up to 5 MW of energy production
Mining within the mine development envelope	Figure 2	Mining to occur above the water table only
Timing elements		
Project life	NA	Up to 30 years from commencement of ground disturbing activities
Clearing	NA	In accordance with stages as set out in condition A2-1

Proposal element	Location	Maximum extent
Progressive rehabilitation	NA	In accordance with condition A2-1, to progressively follow mining at a minimum rate of 5 ha per year

A2 Proposal Staging

A2-1 The proponent must implement the proposal in the following **stages** and in accordance with the following requirements within the **disturbance** footprints as identified in condition A1-1:

Table 1: Proposal stages

Proposal Stage	Year	Maximum area cleared	Minimum area for progressive rehabilitation
Stage 1	1	17 ha	NA
Stage 2	2-10	65 ha	65 ha
Stage 3	11-20	108 ha	108 ha
Stage 4	21-30	109.1 ha	109.1 ha
Stage 5 (Closure)	31-33	NA	17 ha

A2-2 The proponent must not undertake **clearing** of more than 11 ha in any year during **stages** 2, 3 and 4 of the proposal.

A2-3 The proponent must implement the following offset measures and achieve the minimum offset amount for each proposal **stage**:

Table 2: Staging of offset measures

Stage and maximum amount of clearing	Offset measure to be undertaken	Minimum offset amount
Stages 1 and 2 – 82 ha of clearing	Land acquisition of the Offset Conservation Area identified in condition B5-2(2)	958.2 ha
	Restoration and on-ground management of the Offset Conservation Area identified in condition B5-2(2)	74 ha
Stage 3 – 108 ha of clearing	Land acquisition , restoration and on-ground management of the Offset Conservation Area identified in condition B5-2(3)	64 ha

Stage and maximum amount of clearing	Offset measure to be undertaken	Minimum offset amount
Stages 4 and 5 – 109.1 ha of clearing	Ongoing on-ground management of all Offset Conservation Areas as required per completion criteria in the Offset Strategy Environmental Management Plan	NA

- A2-4 Within one (1) month of commencing **ground disturbing activities** the proponent must give notice in writing to the **CEO** specifying the date on which **ground disturbing activities** commenced.
- A2-5 Within six (6) months after the end of each proposal **stage**, the proponent must provide a report to the **CEO** for the purpose of determining whether the proponent has:
- (1) complied with the maximum area **cleared** limits and **progressive rehabilitation** requirements for the specific proposal **stage** set out in Table 1 under condition A2-1; and
 - (2) undertaken the offset measures set out in Table 2 under condition A2-3 for that **stage**.
- A2-6 For **stages 3, 4 and 5**, the proponent may only implement the proposal **stage** after receiving notice in writing from the **CEO** confirming that the proponent has completed the offset measures required for the previous implementation **stage** in accordance with condition A2-3.

PART B – ENVIRONMENTAL OUTCOMES, PRESCRIPTIONS AND OBJECTIVES

B1 Flora and Vegetation

B1-1 The proponent must ensure the implementation of the proposal achieves the following environmental **outcomes**:

- (1) no impact to any identified *Paracaleana dixonii* within the **mine** or **access development envelopes**;
- (2) **disturb** no more than the **known populations** of priority flora species as described in Table 3:

Table 3: Disturbance of known priority flora records

Species	Disturbance
<i>Schoenus</i> sp. Eneabba (F. Obbens & C. Godden I154) (Priority 2)	Up to 167 individuals
<i>Comesperma rhadinocarpum</i> (Priority 3)	Up to 10 individuals
<i>Hemiandra</i> sp. Eneabba (H. Demarz 3687) (Priority 3)	Up to 60 individuals
<i>Banksia elegans</i> (Priority 4)	Up to 1,068 individuals
<i>Stawellia dimorphantha</i> (Priority 4)	Up to 83 individuals

B1-2 Prior to **ground disturbing activities**, the proponent must undertake the following actions:

- (1) complete targeted surveys for *Paracaleana dixonii* in accordance with **flora and vegetation technical guidance** to confirm the presence of the species and, if present, the number of plants within the disturbance footprints;
- (2) where individuals of *Paracaleana dixonii* are recorded under condition B1-2(1), **ground disturbing activities** shall not commence until a one hundred (100) metre **exclusion zone** is established around the identified individuals or other measures are in place to ensure the individuals are likely to remain part of a sustainable population; and
- (3) submit the findings of the surveys and measures required under condition B1-2(1) in the form of a report to the **CEO** for confirmation that conditions B1-2(1) and B1-2(2) are satisfied.

B1-3 The proponent must ensure the implementation of the proposal achieves the following environmental **objectives**:

- (1) avoid, and where unavoidable, minimise impacts to native vegetation, including threatened flora and priority flora, from **dust emissions**, or spread of **environmental weeds**, slurry spills, fire, altered hydrological regimes and contamination;
 - (2) no **adverse impacts** to flora and vegetation occurring directly adjacent to the **disturbance** footprints; and
 - (3) prevent the introduction and spread of **dieback**, with no **adverse impacts** to flora and vegetation occurring within and surrounding the development envelopes.
- B1-4 The proponent must implement management and **contingency measures** to ensure the **objectives** for indirect impacts in condition B1-3 are achieved during construction activities and operations to prevent the introduction or spread of **environmental weeds** in the development envelopes and in surrounding areas as a result of the proposal.
- B1-5 The proponent must include, in any Mining Proposal and Mine Closure Plan required under the *Mining Act 1978* and licence application required under the *Rights in Water and Irrigation Act 1914*, measurable environmental **outcomes** and management measures with the **objective** to maintain hydrological regimes and the quality and quantity of groundwater and surface water.
- B1-6 The proponent must review and revise the Arrowsmith North Silica Sand Project Phytophthora Dieback Management Plan (Version 1.0, September 2022) environmental management plan with the purpose of ensuring the flora and vegetation environmental **objectives** in condition B1-3(3) and the rehabilitation outcomes of condition B4-1 are achieved. The environmental management plan must:
- (1) address **contingency measures** if **dieback** occurrence is detected, such that the **objectives** and **outcomes** of condition B1-3(3) and condition B4-1 can be achieved.
- B1-7 The proponent shall prepare a research program (environmental management plan) for *Schoenus* sp. Eneabba (F. Obbens & C. Godden 1154), *Comesperma rhadinocarpum*, *Hemiandra* sp. Eneabba (H. Demarz 3687), *Banksia elegans* and *Stawellia dimorphantha* within twelve (12) months of implementation of the proposal. The research program should:
- (1) identify the **objectives** and intended **outcomes**, including:
 - (a) to contribute to research on ecological restoration of the priority flora identified in this condition B1-7 to enable them to be introduced into the development envelopes; and

- (b) to address priority knowledge gaps for the improvement of on-ground management and protection of the priority flora identified in this condition B1-7 to achieve a positive conservation outcome.
- (2) specify the deliverables and completion criteria relevant to the **outcomes** and **objectives** in condition B1-7(1);
- (3) identify how the research will result in a positive conservation **outcome** and will address knowledge gaps that have been identified as a research priority needed to improve the management and protection for the species;
- (4) provide an implementation and reporting schedule, including an outline of key activities, all deliverables, stages of implementation, reporting of research results (including interim results), reporting on implementation status, and milestones towards completion criteria;
- (5) identify the governance arrangements including responsibilities for implementing, and oversight of, the research program, agreements with government agencies, agreements with any third parties, and **contingency measures**;
- (6) identify how a research program summary, and the results (including interim results) of the research program will be communicated and/or published in an open access format; and
- (7) identify the third party to carry out the work required to meet the **outcomes** of condition B1-6(1), who is satisfactory for the role to the **CEO**. In applying to the **CEO** for endorsement of the selected third parties, the proponent shall provide:
 - (a) demonstration of the track record, experience, qualifications and competencies of the proposed third party to carry out the work and achieve the **outcomes**.

B2 Terrestrial Fauna

- B2-1 The proponent must ensure the implementation of the proposal achieves the following environmental **outcomes**:
- (1) **disturb** no more than 299.1 **ha** of foraging habitat for Carnaby's black cockatoo (*Zanda latirostris*); and
 - (2) avoid fauna habitat type identified as **dense riparian thickets**.
- B2-2 The proponent must ensure the implementation of the proposal achieves the following environmental **objectives**:

- (1) avoid, and where unavoidable, minimise the risk of physical injury or mortality from **construction** or **operation activities** on native fauna;
- (2) minimise the risk of **adverse impacts** including behavioural changes and health impacts from **construction** or **operation activities** on native fauna; and
- (3) ensure there is no ongoing increase in population of introduced or feral fauna species.

B2-3 Prior to **ground disturbing activities**, the proponent must undertake the following actions:

- (1) within seven (7) days prior to **clearing**, using a licensed **fauna spotter**, undertake **pre-clearance surveys** to detect presence of:
 - (a) Malleefowl (*Leipoa ocellata*) individuals or mounds within the **mine** and **access development envelopes**; and
- (2) where individuals in B2-3(1) are identified, **ground disturbing activities** shall not commence until either:
 - (b) the individual has been relocated by a licensed **fauna handler**; or
 - (c) the individual has been observed by the **fauna spotter** to have moved on from the area to adjoining suitable habitat.
- (3) where **active Malleefowl (*Leipoa ocellata*) mounds** are detected under condition B2-3(1), **ground disturbing activities** shall not commence until a two hundred (200) metre **exclusion zone** is implemented around the active mound and other measures are in place to ensure the active mounds are likely to remain part of a sustainable population.

B2-4 During **ground disturbing activities**, the proponent must undertake the following actions:

- (1) visually inspect open **trenches** for the presence of vertebrate fauna and, where required, remove trapped vertebrate fauna from within open **trenches**, using a suitably trained or licensed **fauna handler**:
 - (a) at least twice daily, with the first daily clearing to be completed no later than three (3) hours after sunrise and the second clearing to be completed between the hours of 3:00 pm and 6:00 pm of that same day, unless otherwise agreed to by the **CEO**; and
 - (b) within one (1) hour prior to backfilling of **trenches**.
- (2) ensure open **trench** lengths shall not exceed a length capable of being inspected and cleared by the requirements set out in condition B2-4(1);

- (3) ensure ramps providing egress points and/or fauna refuges providing suitable shelter from the sun and predators for trapped vertebrate fauna are to be placed in the **trench** at intervals not exceeding fifty (50) metres;
- (4) in the event of rainfall that has the potential to result in the pooling of water within a **trench**, and following the inspection for the presence of vertebrate fauna within a **trench** as set out in accordance with B2-4(1), pump out any pooled water and discharge it to adjacent vegetated areas in a manner that does not cause erosion;

B2-5 The proponent shall produce and provide a report on fauna management no later than sixty (60) days after the completion of **ground disturbing activities** to the **CEO**. The report shall include the following:

- (1) details of fauna inspections;
- (2) the number and type of fauna cleared from **trenches** and actions taken;
- (3) **fauna spotter/fauna handler** details;
- (4) results of **pre-clearance surveys**;
- (5) measures that were implemented to minimise impacts on significant fauna, if the surveys required by condition B2-3 record significant fauna; and
- (6) vertebrate fauna mortalities.

B2-6 During operations, vehicle and machinery speed limits must not exceed:

- (1) 60 **km/hr** on all unsealed roads; and
- (2) 40 **km/hr** on unsealed or gravel roads and within one (1) kilometre of an **active Malleefowl (*Leipoa ocellata*) mound** identified by a licenced **fauna spotter** within the **mine** or **access development envelopes**.

B2-7 The proponent must review and revise the Rehabilitation Management Plan (Version 2, VRX-ARN-RMP-03, 20 September 2024) environmental management plan so that it satisfies the requirements of condition C4-1 and condition C5-1 and demonstrates the terrestrial fauna environmental **outcomes** in condition B2-1 and environmental **objectives** in condition B2-2 are achieved, and submit it to the **CEO**.

B2-8 The proponent shall prepare a research program (environmental management plan) for *Idiosoma kwongan* within twelve (12) months of implementation of the proposal. The research program should:

- (1) identify the **objectives** and intended **outcomes**, including to address priority knowledge gaps for the improvement of on-ground management

and protection of *Idiosoma kwongan* to achieve a positive conservation outcome;

- (2) specify the deliverables and completion criteria relevant to the **outcomes** and **objectives** in condition B2-8(1);
- (3) identify how the research will result in a positive conservation **outcome** and will address knowledge gaps that have been identified as a research priority needed to improve the management and protection for the species;
- (4) provide an implementation and reporting schedule, including an outline of key activities, all deliverables, stages of implementation, reporting of research results (including interim results), reporting on implementation status, and milestones towards completion criteria;
- (5) identify the governance arrangements including responsibilities for implementing, and oversight of, the research program, agreements with government agencies, agreements with any third parties, and **contingency measures**;
- (6) identify how a research program summary, and the results (including interim results) of the research program will be communicated and/or published in an open access format; and
- (7) identify the third party to carry out the work required to meet the **outcomes** of condition B2-8(1), who is satisfactory for the role to the **CEO**. In applying to the **CEO** for endorsement of the selected third parties, the proponent shall provide:
 - (a) demonstration of the track record, experience, qualifications and competencies of the proposed third party to carry out the work and achieve the **outcomes**.

B3 Social Surroundings – Aboriginal Heritage

B3-1 The proponent must implement the proposal to meet the following environmental **outcomes**:

- (1) no **disturbance** to **Aboriginal cultural heritage**, unless consent is granted to disturb that site under the *Aboriginal Heritage Act 1972*.
- (2) subject to reasonable health and safety requirements, no interruption of ongoing access to land utilised for traditional use or custom by the **relevant Traditional Owners**.

B3-2 The proponent must implement the proposal to meet the following environmental **objective**:

- (1) avoid, and where unavoidable, minimise **adverse impacts** to **Aboriginal cultural heritage**.
- B3-3 The proponent must **consult** with **relevant Traditional Owners** about the achievement of the **outcomes** in condition B3-1 and **objectives** in condition B3-2 for the life of the proposal.
- B3-4 The proponent must **consult** with **relevant Traditional Owners** about the Rehabilitation Management Plan required under condition B4-2.

B4 Rehabilitation

- B4-1 The proponent must implement the proposal to ensure the following environmental **outcomes** are achieved:
- (1) all **cleared** areas, with the exception of 14.5 **ha** which will remain **cleared** for permanent infrastructure for the life of the proposal, are to be **progressively rehabilitated** in accordance with the timing for each proposal **stage** set out in condition A2-1;
 - (2) rehabilitated vegetation is **self-sustaining**, including not **adversely impacted** by **environmental weeds**, **dieback**, increases in feral predation, hydrological changes or contamination;
 - (3) rehabilitated areas are consistent with the species diversity and abundance of native vegetation within comparative analogue or reference sites;
 - (4) rehabilitation includes the use of native seeds and propagated material collected from native vegetation within the **disturbance** footprints;
 - (5) rehabilitated landforms are stable and do not cause **pollution** or **environmental harm**;
 - (6) rehabilitated drainage lines are stable, not prone to erosion, and support ecological processes;
 - (7) rehabilitated areas achieve the **rehabilitation completion criteria** for impacted environmental values including Carnaby's black cockatoo (*Zanda latirostris*) and priority flora; and
 - (8) closure planning and rehabilitation are undertaken in a progressive manner consistent with achievement of the above **outcomes** during **operational activities**, where practicable, and as soon as practicable upon closure.
- B4-2 The proponent must review and revise the Rehabilitation Management Plan (Version 2, VRX-ARN-RMP-03, 20 September 2024) environmental management plan that demonstrates how achievement of the environmental

outcomes in condition B4-1 will be monitored, achieved and substantiated, and satisfies the requirements of condition C4. The Rehabilitation Management Plan can be prepared as an addendum or incorporated into the Mine Closure Plan required under the *Mining Act 1978* to be submitted for approval to the Department of Mines, Petroleum and Exploration.

- B4-3 The proponent must include the environmental **outcomes** of condition B4-1 in the Mine Closure Plan required under the *Mining Act 1978* and submitted for approval to the Department of Mines, Petroleum and Exploration.

B5 Environmental Offsets

- B5-1 The proponent must implement offsets to counterbalance the significant residual impacts of the proposal on the following **environmental values**:

(1) Carnaby's black cockatoo (*Zanda latirostris*) **foraging habitat**.

- B5-2 The proponent must ensure the implementation of the offsets achieves the following environmental **outcomes** and **objectives**:

- (1) counterbalance the significant residual impacts to the **environmental values** identified in condition B5-1;
- (2) prior to the commencement of **stage 2, land acquisition** of an **Offset Conservation Area**;
- (3) prior to the commencement of **stage 3, land acquisition** of an additional **Offset Conservation Area** within fifty (50) kilometres of the **mine development envelope**;
- (4) **on-ground management** offsets including threat abatement, **revegetation** and/or restoration activities within the **Offset Conservation Areas** to achieve a positive environmental benefit and provide **self-sustaining** moderate to high quality **foraging habitat** for Carnaby's black cockatoo (*Zanda latirostris*);
- (5) maintain and improve the resilience of Carnaby's black cockatoo (*Zanda latirostris*) **foraging habitat** in the **Offset Conservation Areas**;
- (6) environmental offsets are in place prior to commencement of the proposal **stage** they counterbalance; and
- (7) achievement of the minimum offset amount during each proposal **stage** identified in Table 2 under condition A2-3.

Offset Strategy (Environmental Management Plan)

- B5-3 The proponent must, in consultation with the Department of Biodiversity, Conservation and Attractions, review and revise the Offset Strategy

Environmental Management Plan (Version 2, VRX-ARN-OFF-02, 20 September 2024) so that it demonstrates how the environmental **outcomes** and **objectives** in condition B5-2 will be achieved, and how this achievement will be substantiated, and submit it to the **CEO**.

B5-4 The Offset Strategy (Environmental Management Plan) must:

- (1) demonstrate that the environmental **outcomes** and **objectives** in condition B5-2 will be met;
- (2) have regard to the **conservation advice, recovery plans** and **threat abatement plans** relevant to the species in condition B5-1;
- (3) spatially identify the **Offset Conservation Areas** to be **acquired** in accordance with condition B5-2(2) with **on-ground management** and/or for **on-ground management**, that contains the environmental values identified in condition B5-1;
- (4) demonstrate how the **environmental values** within the **Offset Conservation Areas** will be maintained, improved and/or managed in order to counterbalance the significant residual impact to the **environmental values** in condition B5-1 and achieve the environmental **outcomes** and **objectives** in condition B5-2;
- (5) demonstrate application of the principles of the WA Environmental Offsets Policy, the *WA Environmental Offsets Metric* and the WA Offsets Template, as described in the *WA Environmental Offsets Guidelines*, and the *Environment Protection and Biodiversity Conservation Act 1999 Environmental Offsets Policy Assessment Guide*, or any subsequent revisions of these documents;
- (6) identify how the ongoing performance of the offset measures, and whether they are achieving the **outcomes** and **objectives** in condition B5-2, will periodically be made publicly available;
- (7) identify how the **Offset Conservation Areas** will be protected, being either the sites are ceded to the Crown for the purpose of management for conservation, or the sites are managed under other suitable mechanism for the purpose of conservation as agreed by the **CEO** by notice in writing;
- (8) for offsets **acquired** specify:
 - (a) a timeframe and works associated with establishing the **Offset Conservation Areas**, including a contribution for maintaining the offset for at least twenty (20) years after completion of purchase; and

- (b) identify the **relevant management body** for the on-going management of the **Offset Conservation Areas**, including its role, and the role of the proponent, and confirmation in writing that the **relevant management body** accepts responsibility for its role.
- (9) where **on-ground management** is proposed:
 - (a) state the targets for each **environmental value** to be achieved by **on-ground management**, including completion criteria, which will result in a **tangible improvement** to the **environmental values** listed in condition B5-1.

 For **revegetation** offsets, this must include, but not be limited to:
 - (i) quantity of Carnaby's black cockatoo (*Zanda latirostris*) **foraging habitat** to be achieved;
 - (ii) completion criteria to measure (at a minimum) foraging habitat value, vegetation structure, species diversity and abundance, plant density and vegetation condition that is to be achieved to provide high-quality Carnaby's black cockatoo **foraging habitat**;
 - (iii) criteria to measure and demonstrate the **revegetation** is **self-sustaining**; and
 - (iv) adaptive management to ensure successful **revegetation**.
 - (b) demonstrate the consistency of the targets with the environmental **outcomes** and **objectives** in condition B5-2 and the objectives of any relevant guidance, including but not limited to, **recovery plans** or area management plans;
 - (c) detail the **on-ground management** actions, with associated timeframes for implementation and completion, to achieve the targets identified in condition B5-4(9)(a); and
 - (d) detail the monitoring, reporting and evaluation mechanisms for the targets and actions identified under condition B5-4(9)(a) and condition B5-4(9)(c).
- (10) Upon identification of a suitable **Offset Conservation Area** required under condition B5-2(3), the proponent must revise and resubmit to the **CEO** under condition C2-2 a copy of the Offset Strategy (Environmental Management Plan) that spatially identifies the proposed **Offset Conservation Area** to be **acquired** for **on-ground management** that contains the **environmental values** identified in condition B5-1.

Contingency offsets

- B5-5 If, after receiving the ongoing performance review of the offsets and monitoring, reporting and evaluation required by condition B5-4(9)(d), the **CEO** in consultation with the Department of Climate Change, Energy, the Environment and Water, determines that the proposal has not met the environmental **outcomes** and **objectives** in condition B5-2, and after notifying the proponent in writing, the proponent must undertake an additional offset to counterbalance the significant residual impact from the additional impact to Carnaby's black cockatoo (*Zanda latirostris*).
- B5-6 Within twelve (12) months of receiving notice in writing from the **CEO** that an additional offset is required under condition B5-5 the proponent must update the Offset Strategy Environmental Management Plan required by condition B5-3 to include additional offsets to counterbalance the significant residual impacts to Carnaby's black cockatoo (*Zanda latirostris*).
- B5-7 If **dieback** is introduced within the development envelopes and/or the surrounding vegetation due to operational elements of the proposal, the proponent must review and prepare a contingency offset to counterbalance the level and significance of impacts from **dieback** to the maintenance of biological diversity and ecological integrity of native vegetation.

PART C – ENVIRONMENTAL MANAGEMENT PLANS AND MONITORING

C1 Environmental Management Plans: Conditions Related to Commencement of Implementation of the Proposal

C1-1 The proponent must:

- (1) not undertake **ground disturbing activities** until the **CEO** has confirmed in writing that the environmental management plan required by condition B1-6, condition B2-7 and condition B4-2 meets the requirements of those conditions and conditions C4 and C5;
- (2) not undertake **ground disturbing activities** until the **CEO** has confirmed in writing that the Offset Strategy (Environmental Management Plan) required by condition B5-3 meets the requirements of that condition; and
- (3) submit the research programs (environmental management plans) required by condition B1-7 and condition B2-8 within twelve (12) months of implementation of the proposal and be confirmed by the **CEO**, in consultation with the Department of Biodiversity, Conservation and Attractions, in writing that they meet the requirements of those conditions.

C2 Environmental Management Plans: Conditions Relating to Approval, Implementation, Review and Publication

C2-1 Upon being required to implement an environmental management plan under Part B, or after receiving notice in writing from the **CEO** under condition C1-1 that the environmental management plan(s) required in Part B satisfies the relevant requirements, the proponent must:

- (1) implement the most recent version of the **confirmed** environmental management plan; and
- (2) continue to implement the **confirmed** environmental management plan referred to in condition C2-1(1), other than for any period which the **CEO** confirms by notice in writing that it has been demonstrated that the relevant requirements for the environmental management plan have been met, or are able to be met under another statutory decision-making process, in which case the implementation of the environmental management plan is no longer required for that period.

C2-2 The proponent:

- (1) may review and revise a **confirmed** environmental management plan provided it meets the relevant requirements of that environmental management plan, including any consultation that may be required when preparing the environmental management plan;

- (2) must review and revise a **confirmed** environmental management plan and ensure it meets the relevant requirements of that environmental management plan, including any consultation that may be required when preparing the environmental management plan, as and when directed by the **CEO**; and
- (3) must revise and submit to the **CEO** the **confirmed** environmental management plan if there is a material risk that the **outcomes** or **objectives** it is required to achieve will not be complied with, including but not limited to as a result of a change to the proposal.

C2-3 Despite condition C2-1, but subject to conditions C2-4 and C2-5, the proponent may implement minor revisions to an environmental management plan if the revisions will not result in new or increased **adverse impacts** to the environment or result in a risk to the achievement of the limits, **outcomes** or **objectives** which the environmental management plan is required to achieve.

C2-4 If the proponent is to implement minor revisions to an environmental management plan under condition C2-3, the proponent must provide the **CEO** with the following at least twenty (20) business days before it implements the revisions:

- (1) the revised environmental management plan clearly showing the minor revisions;
- (2) an explanation of and justification for the minor revisions; and
- (3) an explanation of why the minor revisions will not result in new or increased **adverse impacts** to the environment or result in a risk to the achievement of the limits, **outcomes** or **objectives** which the environmental management plan is required to achieve.

C2-5 The proponent must cease to implement any revisions which the **CEO** notifies the proponent (at any time) in writing may not be implemented.

C2-6 **Confirmed** environmental management plans, and any revised environmental management plans under condition C2-4(1), must be published on the proponent's website and provided to the **CEO** in electronic form suitable for on-line publication by the Department of Water and Environmental Regulation within twenty (20) business days of being implemented, or being required to be implemented (whichever is earlier).

C3 Conditions Related to Monitoring

C3-1 The proponent must undertake monitoring capable of:

- (1) substantiating whether the proposal limitations and extents in Part A are exceeded; and

- (2) **detecting** and substantiating whether the environmental outcomes identified in Part B are achieved (excluding any environmental outcomes in Part B where an environmental management plan is expressly required to monitor achievement of that outcome).

C3-2 The proponent must submit as part of the Compliance Assessment Report required by condition D2, a compliance monitoring report that:

- (1) outlines the monitoring that was undertaken during the implementation of the proposal;
- (2) identifies why the monitoring was capable of substantiating whether the proposal limitation and extents in Part A are exceeded;
- (3) for any environmental outcomes to which condition C3-1(2) applies, identifies why the monitoring was scientifically robust and capable of **detecting** whether the environmental outcomes in Part B are met;
- (4) outlines the results of the monitoring;
- (5) reports whether the proposal limitations and extents in Part A were exceeded and (for any environmental outcomes to which condition C3-1 (2) applies) whether the environmental outcomes in Part B were achieved, based on analysis of the results of the monitoring; and
- (6) reports any actions taken by the proponent to remediate any potential non-compliance.

C4 Environmental Management Plans: Conditions Relating to Monitoring and Adaptive Management for Outcomes Based Conditions

C4-1 The environmental management plans required under condition B2-7, condition B4-2 and condition B5-3 must contain provisions which enable the substantiation of whether the relevant outcomes of those conditions are met, and must include:

- (1) **threshold criteria** that provide a limit beyond which the environmental outcomes are not achieved;
- (2) **trigger criteria** that will provide an early warning that the environmental outcomes are not likely to be met;
- (3) monitoring parameters, sites, control/reference sites, methodology, timing and frequencies which will be used to measure **threshold criteria** and **trigger criteria**. Include methodology for determining alternate monitoring sites as a contingency if proposed sites are not suitable in the future;
- (4) baseline data;

- (5) data collection and analysis methodologies;
- (6) adaptive management methodology;
- (7) **contingency measures** which will be implemented if **threshold criteria** or **trigger criteria** are not met; and
- (8) reporting requirements.

C4-2 Without limiting condition C3-1, failure to achieve an environmental outcome, or the exceedance of a **threshold criteria**, regardless of whether threshold **contingency measures** have been or are being implemented, represents a non-compliance with these conditions.

C5 Environmental Management Plans: Conditions Related to Management Actions and Targets for Objective Based Conditions

C5-1 The environmental management plans required under condition B1-6, condition B2-7, condition B4-2 and condition B5-3 must contain provisions which enable the achievement of the relevant **objectives** of those conditions and substantiation of whether the **objectives** are reasonably likely to be met, and must include:

- (1) **management actions**;
- (2) **management targets**;
- (3) **contingency measures** if **management targets** are not met; and
- (4) reporting requirements.

C5-2 Without limiting condition C2-1, the failure to achieve an environmental objective, or implement a **management action**, regardless of whether **contingency measures** have been or are being implemented, represents a non-compliance with these conditions.

PART D – COMPLIANCE, TIME LIMITS, AUDITS AND OTHER CONDITIONS

D1 Non-compliance Reporting

D1-1 If the proponent becomes aware of a potential non-compliance, the proponent must:

- (1) report this to the **CEO** within seven (7) days;
- (2) implement **contingency measures**;
- (3) investigate the cause;
- (4) investigate environmental impacts;
- (5) advise rectification measures to be implemented;
- (6) advise any other measures to be implemented to ensure no further impact;
- (7) advise timeframe in which contingency, rectification and other measures have and/or will be implemented; and
- (8) provide a report to the **CEO** within twenty-one (21) days of being aware of the potential non-compliance, detailing the measures required in conditions D1-1(1) to D1-1(7) above.

D1-2 Failure to comply with the requirements of a condition, or with the content of an environmental management plan required under a condition, constitutes a non-compliance with these conditions, regardless of whether the **contingency measures**, rectification or other measures in condition D1-1 above have been or are being implemented.

D2 Compliance Reporting

D2-1 The proponent must provide an annual Compliance Assessment Report to the **CEO** for the purpose of determining whether the implementation conditions are being complied with.

D2-2 Unless a different date or frequency is approved by the **CEO**, the first annual Compliance Assessment Report must be submitted within fifteen (15) months of the date of this Statement, and subsequent reports must be submitted annually from that date.

D2-3 Each annual Compliance Assessment Report must be endorsed by the proponent's Chief Executive Officer, or a person approved by proponent's Chief Executive Officer to be delegated to sign on the Chief Executive Officer's behalf.

D2-4 Each annual Compliance Assessment Report must:

- (1) state whether each condition of this Statement has been complied with, including:
 - (a) exceedance of any proposal limits and extents;
 - (b) achievement of environmental **outcomes**;
 - (c) achievement of environmental **objectives**;
 - (d) requirements to implement the content of environmental management plans;
 - (e) monitoring requirements;
 - (f) implement **contingency measures**;
 - (g) requirements to implement adaptive management; and
 - (h) reporting requirements.
- (2) include the results of any monitoring (inclusive of any raw data) that has been required under Part C in order to demonstrate that the limits in Part A, and any outcomes or any **objectives** are being met;
- (3) provide evidence to substantiate statements of compliance, or details of where there has been a non-compliance;
- (4) include the corrective, remedial and preventative actions taken in response to any potential non-compliance;
- (5) be provided in a form suitable for publication on the proponent's website and online by the Department of Water and Environmental Regulation; and
- (6) be prepared and published consistent with the latest version of the Compliance Assessment Plan required by condition D2-5 which the **CEO** has confirmed by notice in writing satisfies the relevant requirements of Part C and Part D.

D2-5 The proponent must prepare a Compliance Assessment Plan which is submitted to the **CEO** at least six (6) months prior to the first Compliance Assessment Report required by condition D2-2, or prior to implementation of the proposal, whichever is sooner.

D2-6 The Compliance Assessment Plan must include:

- (1) what, when and how information will be collected and recorded to assess compliance;
- (2) the methods which will be used to assess compliance;

- (3) the methods which will be used to validate the adequacy of the compliance assessment to determine whether the implementation conditions are being complied with;
- (4) the retention of compliance assessments;
- (5) the table of contents of Compliance Assessment Reports, including audit tables; and
- (6) how and when Compliance Assessment Reports will be made publicly available, including usually being published on the proponent's website within sixty (60) days of being provided to the **CEO**.

D3 Contact Details

- D3-1 The proponent must notify the **CEO** of any change of its name, physical address or postal address for the serving of notices or other correspondence within twenty-eight (28) days of such change. Where the proponent is a corporation or an association of persons, whether incorporated or not, the postal address is that of the principal place of business or of the principal office in the State.

D4 Time Limit for Proposal Implementation

- D4-1 The proposal must be **substantially commenced** within five (5) years from the date of this Statement.
- D4-2 The proponent must provide to the **CEO** documentary evidence demonstrating that they have complied with condition D4-1 no later than thirty (30) days after the proposal has **substantially commenced**.
- D4-3 If the proposal has not been **substantially commenced** within the period specified in condition D4-1, implementation of the proposal must not be commenced or continued after the expiration of that period.

D5 Public Availability of Data

- D5-1 Subject to condition D5-2, within a reasonable time period approved by the **CEO** upon the issue of this Statement and for the remainder of the life of the proposal, the proponent must make publicly available, in a manner approved by the **CEO**, all validated environmental data collected before and after the date of this Statement relevant to the proposal (including sampling design, sampling methodologies, monitoring and other empirical data and derived information products (e.g. maps)), environmental management plans and reports relevant to the assessment of this proposal and implementation of this Statement.

D5-2 If:

- (1) any data referred to in condition D5-1 contains trade secrets; or

- (2) any data referred to in condition D5-1 contains particulars of confidential information (other than trade secrets) that has commercial value to a person that would be, or could reasonably be expected to be, destroyed or diminished if the confidential information were published,

the proponent may submit a request for approval from the **CEO** to not make this data publicly available and the **CEO** may agree to such a request if the **CEO** is satisfied that the data meets the above criteria.

D5-3 In making such a request the proponent must provide the **CEO** with an explanation and reasons why the data should not be made publicly available.

D6 Independent Audit

D6-1 The proponent must arrange for an independent audit of compliance with the conditions of this statement, including achievement of the environmental outcomes and/or the environmental objectives and/ or environmental performance with the conditions of this statement, as and when directed by the **CEO**.

D6-2 The independent audit must be carried out by a person with appropriate qualifications who is nominated or approved by the **CEO** to undertake the audit under condition D6-1.

D6-3 The proponent must submit the independent audit report with the Compliance Assessment Report required by condition D2, or at any time as and when directed in writing by the **CEO**. The audit report is to be supported by credible evidence to substantiate its findings.

D6-4 The independent audit report required by condition D6-1 is to be made publicly available in the same timeframe, manner and form as a Compliance Assessment Report, or as otherwise directed by the **CEO**.

[signed on 28 August 2025]

Hon. Matthew Swinbourn BA LLB MLC

MINISTER FOR THE ENVIRONMENT; COMMUNITY SERVICES; HOMELESSNESS

Key decision-making authorities consulted under section 45(2):
Minister for Aboriginal Affairs Minister for Lands Minister for Mines and Petroleum Minister for Water

Table 4: Abbreviations and definitions

Acronym or abbreviation	Definition or term
Aboriginal cultural heritage	Means the tangible and intangible elements that are important to the Aboriginal people of the state, and are recognised through social, spiritual, historical, scientific or aesthetic values, as part of Aboriginal tradition to the extent they directly affect or are affected by physical or biological surroundings.
Access development envelope	The area shown within Figure 2 and defined by geographic coordinates in Schedule 1.
Acquired/ land acquisition	The protection of environmental values on an area of initially unprotected land for the purpose of conservation through improved security of tenure or restricting the use of land (e.g. ceding land to the Crown or perpetual conservation covenants). This includes upfront costs of establishing the offset site and the on-going management of costs of maintaining the offset for the long term (20 years).
Active malleefowl (<i>Leipoa ocellata</i>) mound	As defined in the National Malleefowl Monitoring Manual (2020) or its updates.
Adverse impact/ adversely impacted	<p>Negative change that is neither trivial nor negligible that could result in a reduction in health, diversity or abundance of the receptor/s being impacted, or a reduction in environmental value. Adverse impacts can arise from direct or indirect impacts, or other impacts from the proposal.</p> <p>In relation to flora and vegetation, includes but is not limited to, a definable change in spatial coverage or a change in the health, species diversity, structure and plant density of vegetation, vegetation and flora mortality, spread or introduction of environmental weeds, introduction or spread of disease and edge effects.</p> <p>In relation to terrestrial fauna, includes but is not limited to, habitat fragmentation, vehicle strike, collision with fencing, artificial light and vibration, noise emissions and predation.</p> <p>In relation to Aboriginal cultural heritage, includes but is not limited to, hydrological change, structural damage, introduction or spread of non-indigenous flora and/or fauna, alteration of fauna behaviour, dust, light and noise emissions.</p>
CEO	The Chief Executive Officer of the Department of the Public Service of the State responsible for the administration of section 48 of the <i>Environmental Protection Act 1986</i> , or the CEO's delegate.

Acronym or abbreviation	Definition or term
Cleared/ Clearing	Has the same meaning as in section 51A of the <i>Environmental Protection Act 1986</i> .
Confirmed	<p>In relation to a plan required to be made and submitted to the CEO, means, at the relevant time, the plan that the CEO confirmed, by notice in writing, meets the requirements of the relevant condition.</p> <p>In relation to a plan required to be implemented without the need to be first submitted to the CEO, means that plan until it is revised, and then means, at the relevant time, the plan that the CEO confirmed, by notice in writing, meets the requirements of the relevant condition.</p>
Conservation advice	Conservation advice made or adopted by the Australian Government Minister for Environment under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> .
Consult	Enter into discussions and seek opinions and advice from, and keep a written record of any discussions, opinions and advice given, in relation to relevant outcomes and objectives of the proposal, and associated management plans.
Contaminated/ Contamination	Having a substance present at above background concentrations that presents, or has the potential to present, a risk or harm to human health, the environment or any environmental value.
Contingency measures	Planned actions for implementation if it is identified that an environmental outcome, environmental objective, threshold criteria, or management target are likely to be, or are being, exceeded. Contingency measures include changes to operations or reductions in disturbance or adverse impacts to reduce impacts and must be decisive actions that will quickly bring the impact to below any relevant threshold, management target and to ensure that the environmental outcome and/or objective can be met.
Construction activities	Activities that are associated with the substantial implementation of a proposal including but not limited to, earthmoving, vegetation clearing, grading or construction of right of way. Construction activities do not include Geotechnical investigations (including potholing for services and the installation of piezometers) and other preconstruction activities where no clearing of vegetation is required.
Dense riparian thickets	The habitat type as defined in the report 'Arrowsmith North Silica Sand Project – Environmental Review Document' (12 June 2023) and supporting spatial data.
Detecting/ Detectable	The smallest statistically discernible effect size that can be achieved with a monitoring strategy designed to achieve a statistical power value of at least 0.8 or an alternative value as determined by the CEO .

Acronym or abbreviation	Definition or term
Dieback	A plant disease of native ecosystems. The main species responsible, <i>Phytophthora cinnamomi</i> , is a microscopic and soil-borne organism that was introduced into Western Australia.
Disturb/ disturbance	<p>Means directly has or materially contributes to the disturbance effect on health, diversity or abundance of the receptor/s being impacted or on an environmental value.</p> <p>In relation to flora, vegetation or fauna habitat, includes to result in the death, destruction, removal, severing or doing substantial damage to an environmental value.</p> <p>In relation to fauna, includes to have the effect of altering the natural behaviour of fauna to its detriment.</p> <p>In relation to Aboriginal cultural heritage, includes direct physical or biological effects on the tangible and intangible elements that are important to Aboriginal people, and are recognised through social, spiritual, historical, scientific or aesthetic values, as part of Aboriginal tradition.</p>
Dust emissions	Airborne particulate matter from the erosion of soil, sand and rock.
Environmental value(s)	A beneficial use, or ecosystem health condition.
Environmental weeds	Any plant declared under section 22(2) of the <i>Biosecurity and Agriculture Management Act 2007</i> , any plant listed on the Weeds of National Significance List and any weeds listed on the Department of Biodiversity, Conservation and Attractions' Midwest Impact and Invasiveness Ratings list, as amended or replaced from time to time.
Environmental harm	Has the meaning provided by section 3A(2) of the <i>Environmental Protection Act 1986</i> .
Exclusion zone	A spatial area where ground-disturbing activities or any other proposal related activities are not permitted.
Fauna handler	A person who is qualified and has attained the appropriate licence/s and authorisation/s under section 40 of the <i>Biodiversity Conservation Act 2016</i> and the Biodiversity Conservation Regulations 2018.
Fauna spotter	A person who is suitably trained in species identification, who does not perform any handling of animals where a licence to do so is required.
Flora and vegetation technical guidance	The Technical Guidance – Flora and Vegetation Surveys for Environmental Impact Assessment (EPA 2016) or its revisions.
Foraging habitat	Vegetation and plant species known to support foraging within the range of the Carnaby's black cockatoo including proteaceous and myrtaceous plant species such as <i>Banksia</i> spp.

Acronym or abbreviation	Definition or term
GL/a	Gigalitres per annum
Ground disturbing activities	Any activity or activities undertaken in the implementation of the proposal, including any clearing, civil works or construction.
Ha	Hectare(s)
Km/hr	Kilometre(s) per hour
Known populations	Known population at the time of assessment as detailed in the 'Arrowsmith North Silica Sand Project – Environmental Review Document' (12 June 2023), Response to Submissions (20 September 2024) and supporting spatial data.
Management action(s)	The identified actions implemented with the intent of to achieving the environmental objective.
Management target(s)	A type of indicator to evaluate whether an environmental objective is being achieved.
Mine development envelope	The area shown within Figure 2 and defined by geographic coordinates in Schedule 1.
MW	Megawatt(s)
Objective(s)	An objective is the proposal-specific desired state for an environmental factor/s to be achieved from the implementation of management actions.
Offset Conservation Area(s)	The land(s) identified in condition B5-4 containing the environmental values identified in condition B5-1
On-ground management	This includes revegetation (re-establishment of native vegetation in degraded areas) and rehabilitation (repair of ecosystem processes and management of weeds, disease or feral animals) with the objective to achieve a tangible improvement to the environmental values in the offset area.
Operation activity/ operational activities	Operation of the plant infrastructure for the proposal and includes pre-commissioning, commissioning, start-up and operation of the plant infrastructure for the proposal.
Outcome(s)	A proposal-specific result to be achieved when implementing the proposal.
Pollution	Has the meaning provided by section 3A(1) of the <i>Environmental Protection Act 1986</i> .
Pre-clearance survey(s)	Surveys designed to identify the presence or evidence of threatened fauna listed under the <i>Biodiversity Conservation Act 2016</i> prior to ground disturbing activities .
Progressive rehabilitation/	Progressive rehabilitation is expected to be undertaken in stages as mining progresses, as identified in condition A2, with no more

Acronym or abbreviation	Definition or term
progressively rehabilitated	than 17 ha to be open/cleared at any given time. Rehabilitation should be undertaken in a manner that minimises requirements for rehandling of materials and to maximise retention of biological function in topsoil. Progressive rehabilitation includes characterisation of materials (including soils and mine waste), backfill, consolidation, topsoil placement, and rehabilitation measures and monitoring.
Recovery plans	Recovery plans made or adopted by the Australian Government Minister for Environment under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> .
Rehabilitation completion criteria	The criteria specified as management targets in the environmental management plan required by condition B4-2 and any subsequent confirmed version.
Relevant management body	A party or parties that has a role in the establishment and/or on-going management of the Offset Conservation Area(s) . Note: This includes the role of the proponent.
Relevant Traditional Owner(s)	In relation to the land subject to the proposal, means one or more of the following: <ul style="list-style-type: none"> - a registered native title body corporate for the land; or - a registered native title claimant for the land; or - a group of persons with Aboriginal traditional and cultural associations with the land.
Revegetate/revegetation	Re-establishment of native vegetation/habitat in degraded areas.
Self-sustaining	Refers to vegetation that can survive (continue indefinitely) without ongoing management actions such as watering, weed control or infill planting.
Stage(s)	A stage of the proposal identified in Table 1 under condition A2-1.
Substantially commenced	Substantial commencement is more than the preparatory works for a proposal and generally includes ground disturbance activities which are solely attributed to proposal elements described in the proposal content document, and a substantial portion of the total disturbance and infrastructure works physically commenced.
Tangible improvement	A perceptible, measurable and definable improvement that provides additional ecological benefit and/or value.
Threat abatement plans	Threat abatement plans made or adopted by the Australian Government Minister for Environment under the <i>Environment Protection and Biodiversity Conservation Act 1999</i> .
Threshold criteria	The indicators that have been selected to represent limits of impact beyond which the environmental outcome is not being met.
Trench/trenches	Any excavation that is of sufficient depth that would cause vertebrate fauna to be become trapped and unable to escape and would include, but not be limited to, trenches or pits for utilities, pipelines, dewatering pits or bell holes.

Acronym or abbreviation	Definition or term
Trigger criteria	Indicators that have been selected for monitoring to provide a warning that, if exceeded, the environmental outcome may not be achieved. They are intended to forewarn of the approach of the threshold criteria and trigger response actions.

Figures (attached)

Figure 1 Arrowsmith North Silica Sand Project proposal location (this figure is a representation of the co-ordinates referenced in Schedule 1)

Figure 2 Arrowsmith North Silica Sand Project development envelopes (this figure is a representation of the co-ordinates referenced in Schedule 1)

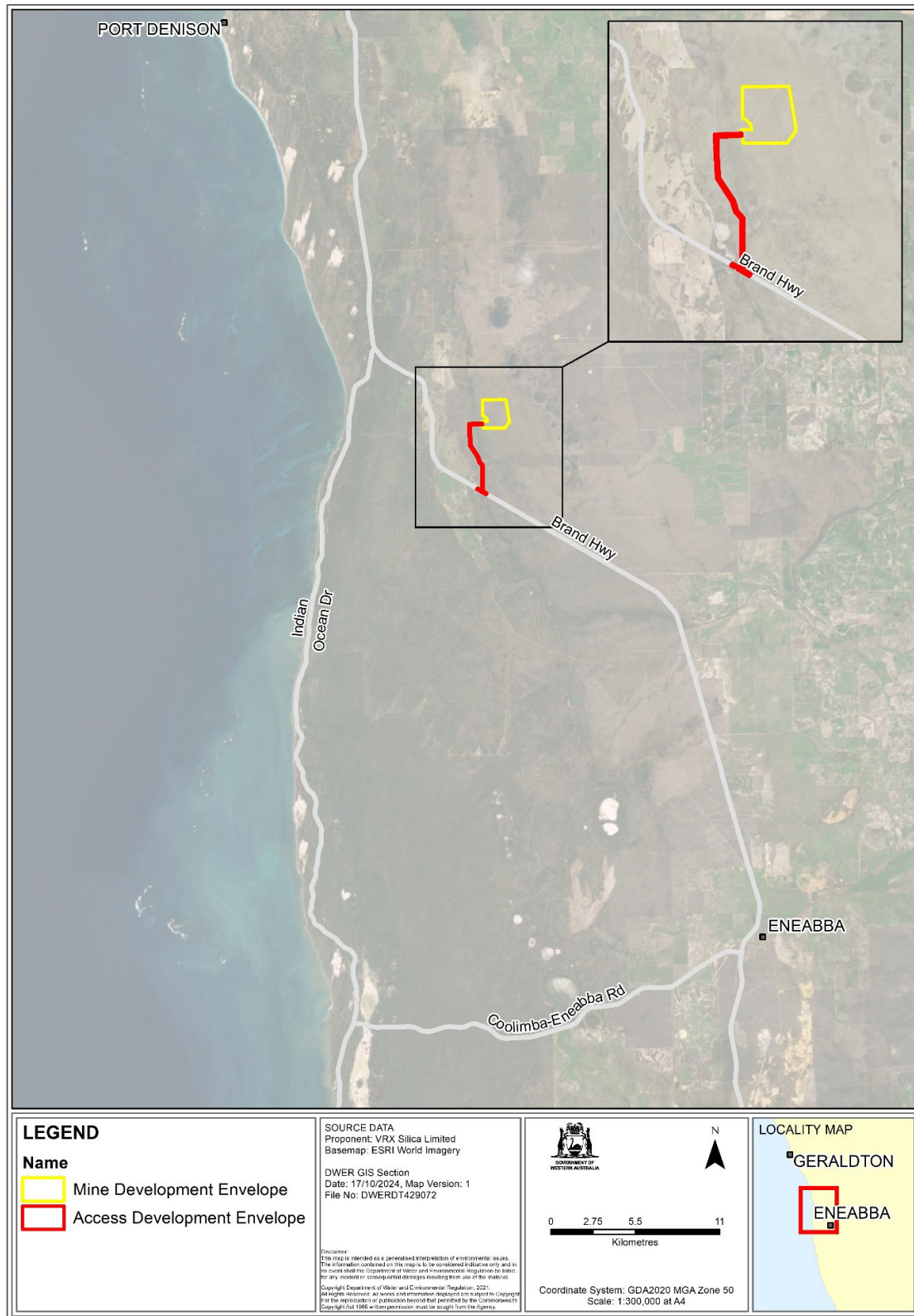


Figure 1 Arrowsmith North Silica Sand Project proposal location

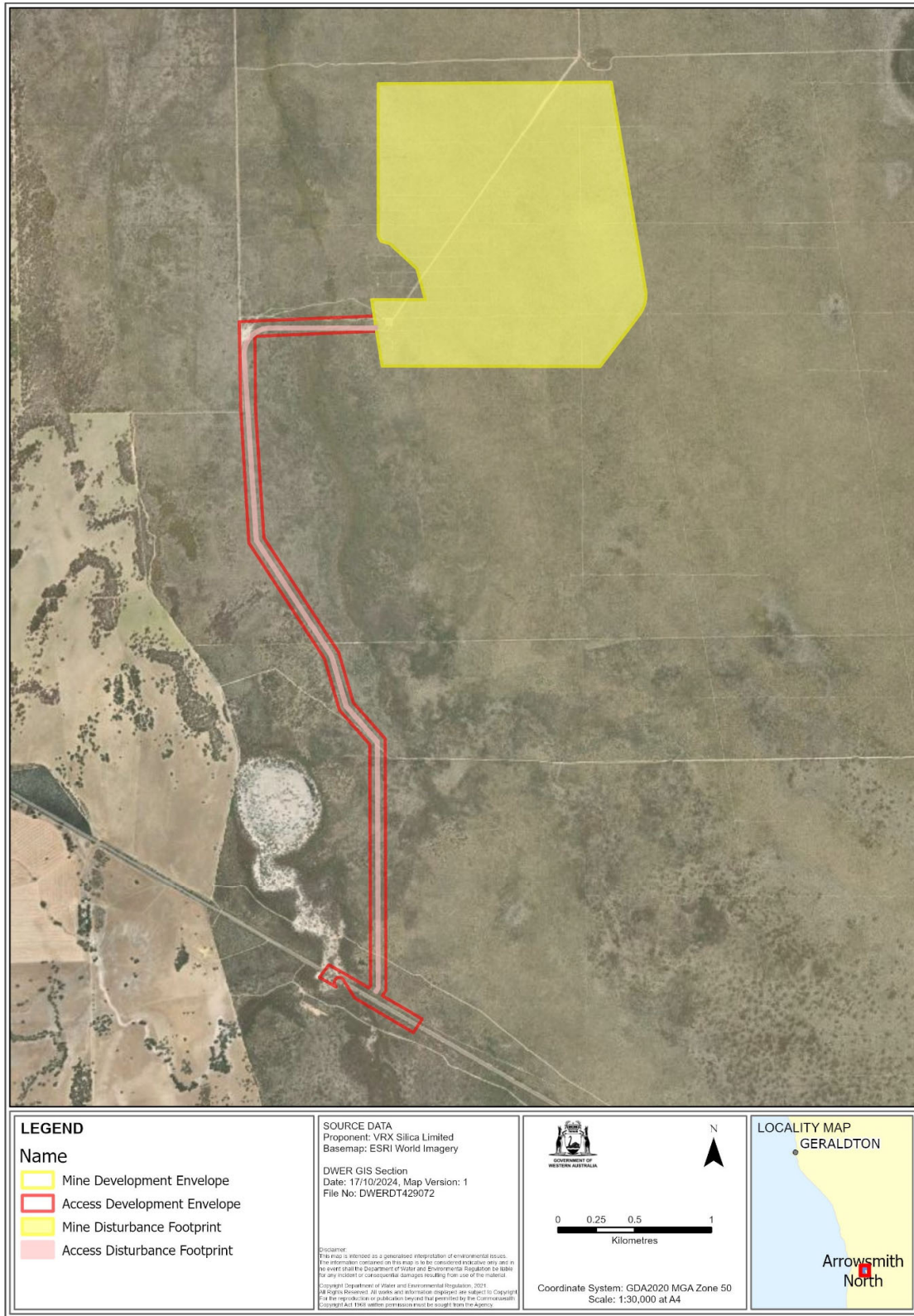


Figure 2 Arrowsmith North Silica Sand Project development envelopes

Schedule 1

All co-ordinates are in metres, listed in Map Grid of Australia Zone 50 (MGA Zone 50), datum of Geocentric Datum of Australia 2020 (GDA2020).

Spatial data depicting the figures are held by the Department of Water and Environmental regulation. Record no. DWER-801164602-350821.