



Licence number	L6744/1996/12
Licence holder	Southern Ports Authority
Registered business address	Level 4 679 Murray Street West Perth WA 6005
File number	DER2016/001589-1 INS-0001336
Duration	30/09/2015 to 29/09/2031
Date of amendment	29/01/2026
Premises details	Southern Ports Authority Lot 963 on Plan 220558 and Lot 962 on Plan 219848 Inner Harbour Berth 5 and 8 BUNBURY WA 6230 As defined in Schedule 1

Prescribed premises category description (Schedule 1, <i>Environmental Protection Regulations 1987</i>)	Assessed production / design capacity
Category 58: Premises on which clinker, coal, ore, ore concentrate or any other bulk granular material (other than salt) is loaded onto or unloaded from vessels by an open materials loading system.	Not more than 75,000 tonnes per day
Category 58A: Premises on which salt is loaded onto or unloaded from vessels by an open materials loading system.	

This licence amendment is granted to the licence holder, subject to the following conditions, on 29 January 2026, by:

Fiona Roser
A/MANAGER, HEAVY INDUSTRIES
Officer delegated under section 20 of the *Environmental Protection Act 1986*

Licence history

The licences issued for the premises since September 2015:

Instrument	Issued	Description
L6744/1996/12	25/09/2015	Licence re-issue.
L6744/1996/12	29/04/2016	Department initiated amendment in accordance with section 59(1)(k) of the <i>Environmental Protection Act 1986</i> to amend the duration of the licence date month year.
L6744/1996/12	28/09/2016	Amendment Notice 1: on 25 July 2016 the licence holder applied for licence amendment for the following mobile infrastructure at Berth 5 at the Port of Bunbury (the premises): <ul style="list-style-type: none"> • TS850 ship loader; • Radial telescopic shiploading conveyor; and • 48" superior RazerTail truck unloader.
L6744/1996/12	15/12/2016	Amendment Notice 2: on 28 September 2016 the licence holder allowing for the use of mobile equipment for the loading of mineral sands on a trial basis at Berth 5 of the Port of Bunbury until the end of the 2016 calendar year.
L6744/1996/12	7/07/2017	Amendment Notice 3: on 18 April 2017 the licence holder to authorise the bulk loading of approximately 1.2 million tonnes per annum of bauxite ore from Berth 8 at the premises.
L6744/1996/12	18/12/2017	Amendment Notice 4: on 19 May 2017 applied for bulk loading of up to 100,000 tonnes of alumina hydrate in a one-off shipment from Berth 8 at the Port of Bunbury (the premises). No storage of Material will occur at the premises.
L6744/1996/12	15/05/2018	Amendment Notice 5: on 2 May 2018 the licence holder applied for licence amendment for further shipments of alumina hydrate following a rapid increase in the demand for the Material.
L6744/1996/12	19/02/2019	Amendment Notice 6: on 27 November 2018 an application was received for the construction of a 50,000 tonne capacity shed for the storage of spodumene concentrate at Berth 8 at the premises. This amendment also included trial conditions which allows Southern Ports Authority to handle new bulk granular materials not currently handled at the premises, in a test scenario. Port Authorities are increasingly diversifying the type of materials handled at their premises.
L6744/1996/12	05/02/2020	DWER initiated licence amendment to amalgamate/ consolidate separately issued amendment notices (listed above) for the licence.
L6744/1996/12	29/01/2026	On 29 October 2025, the licence holder applied for a licence amendment for ongoing shipments of washed silica sand following a trial of the material. This amendment also included administrative amendments to align with the current licence format.

Interpretation

In this licence:

- (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 licence:
 - (i) if dated, refers to that particular version; and
 - (ii) if not dated, refers to the latest version and therefore may be subject to change over time;
- (e) unless specified otherwise, any reference to a section of an Act refers to that section of the EP Act; and
- (f) unless specified otherwise, all definitions are in accordance with the EP Act.

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

Licence conditions

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

Infrastructure and equipment

1. The licence holder must ensure that the site infrastructure and equipment listed in Table 1 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in Table 1.
2. Where a departure from the requirements specified in Table 1 occurs, the licence holder must provide to the CEO a description of, and explanation for the departure.

Table 1: Infrastructure and equipment requirements

Item	Site infrastructure and equipment	Operational requirement	Infrastructure location
1	Berth 5 - Mobile shiploading infrastructure and truck unloader	<ul style="list-style-type: none"> (a) The mobile ship loading infrastructure must only be used for the loading of mineral sands products at the premises. (b) Interconnections on all belt-to-belt transfer points, belt scrapers and mobile shiploading infrastructure must be maintained to prevent spillage of materials. (c) Rubber baffles must be attached to the end of the boom of the mobile shiploader. (d) A fan forced dust suppression and extraction system capable of creating vacuum pressure and directing dust emissions to a transportable bag house must be continuously operated at all times during truck unloading at the truck unloader. (e) Sealed transfer points between the truck unloader, the link conveyor and mobile shiploader must be maintained. (f) Dust suppression fogging sprays must be continuously operated on the end of the shiploader boom during loading activities. (g) Spill trays must be positioned under the boom of the mobile shiploader. (h) Spill deflectors and dust trays must be used on the outer and incline mobile conveyors at Berth 5. 	Figure 3 – Berth 5
2	Berth 5 - Closed handling infrastructure including rotator tipping frame and containers (also known as rotainer boxes or rota-boxes)	<ul style="list-style-type: none"> (a) Containers must remain closed at all times when outside the vessel's hold, until it is below the level of the deck, unless for the purpose of carrying out material sampling or verifying the lifter is connected. (b) Containers must not be removed from the vessel hold until it has been fully rotated and the material has completely discharged. 	Figure 3– Berth 5
3	Conveyors	<ul style="list-style-type: none"> (a) Reverse pulse bag dust collection systems must be used at all conveyor transfer points. 	Figure 2– Conveyor CV04 and

		(b) All particulate material from the reverse pulse bag dust collection system must be collected in bulka bags for reuse as raw material or disposed to a licensed landfill facility. (c) The licence holder must maintain side, top and bottom covers on conveyor CV04.	Figure 3
4	Berths 5 and 8 – General requirements	(a) All spillage of bulk granular materials onto the berth must be collected in a manner and at a frequency which prevents the discharge of this material into the marine environment. (b) The chute must be positioned as close to the bottom of the ship's hold when commencing shiploading. (c) The chute must be positioned close to the deposited material during shiploading.	Figure 3– Berth 5 and 8
5	Baghouse dust collector (Berth 8)	(a) Must be operated at all times when trucks are tipping bauxite ore and alumina hydrate into the Berth 8 road hopper.	Figure 3 – Berth 8
6	Spodumene storage shed (Berth 8)	(a) The storage shed must continue to function: (i) such that all spodumene concentrate stockpiled within the shed will be protected from wind; (ii) with a partially enclosed annex; and (iii) with a below ground hopper and grizzly within the partially enclosed annex, for the purpose of reducing the exposure of the spodumene concentrate to the wind. (b) Covers and skirts must be present at: (i) the in-loading grizzly; and (ii) in-loading hoppers and transfer chutes, for the prevention of spillage and the risk of dust generated through the handling of spodumene concentrate at the shed.	Figure 2

General

3. The licence holder must only accept alumina hydrate, spodumene concentrate and washed silica sand that contains a moisture content above the DEM derived from application of AS4156.6-2000.

Ambient air quality monitoring

4. The licence holder must monitor the air for concentrations of the parameters listed in Table 2:
 - (a) At the corresponding monitoring location
 - (b) In the corresponding unit;
 - (c) At no less that the corresponding frequency
 - (d) For the corresponding averaging period; and
 - (e) Using the corresponding method,
 as set out in Table 2.

Table 2: Ambient air quality monitoring

Parameter	Location	Unit	Frequency	Averaging Period	Method
Particulates as PM ₁₀	TEOM samplers at Estuary Dr, Stirling St, Workshop and Navel Cadets	µg/m ³	Continuous	24 hours	AS 3580.9.8
Dust as TSP	HVAS sampler at Stirling St	µg/m ³	Continuous	24 hours	AS 3580.9.3

Records and reporting conditions

Records

5. The licence holder must record the following information in relation to complaints received by the licence 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 licence holder to investigate or respond to any complaint.
6. The licence holder must maintain accurate and auditable books including the following records, information, reports, and data required by this licence:
 - (a) the calculation of fees payable in respect of this licence;
 - (b) any maintenance of infrastructure that is performed in the course of complying with the conditions of this licence;
 - (c) moisture content records received in the course of complying with condition 3 of this licence;
 - (d) monitoring programmes undertaken in accordance with condition 4 of this licence; and
 - (e) complaints received under condition 5 of this licence.
7. The books specified under condition 6 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 licence holder for the duration of the licence; and
 - (d) be available to be produced to an inspector or the CEO as required.

Reporting

8. The licence holder shall provide a report to the CEO specifying the moisture content data demonstrating compliance with condition 3 and the data of monitoring undertaken in condition 4 quarterly on the following dates: the last day of December, March, June and September in any year.
9. The licence holder must:

- (a) undertake an audit of their compliance with the conditions of this licence during the preceding annual period, and
- (b) prepare and submit to the CEO an Annual Audit Compliance Report in the approved form by 30 August each year.

Trial conditions

Notification of a trial

- 10.** The licence holder must notify the CEO of a trial and such notification (which the CEO will make publicly available) must:
- (a) be in writing;
 - (b) be made 30 calendar days or more prior to that trial commencing;
 - (c) include details of the extent of the trial, including:
 - (i) the duration and frequency of any loading or unloading activities;
 - (ii) method for materials storage and handling including any changes to infrastructure and equipment used at the premises; and
 - (iii) all controls to be implemented for the management of emissions and discharges;
 - (d) include details of the nature of bulk granular material, including:
 - (i) all public health and ecosystem hazards;
 - (ii) the chemical and geochemical composition;
 - (iii) particle size distribution of bulk granular material including inhalable and respirable fractions;
 - (iv) the representative DEM level, where determination of DEM is possible for that material; and
 - (v) leachate testing conducted on materials that may present a toxicological or eco toxicological risk;
 - (e) include an analysis of risks to the environment, public health and amenity from potential discharges, dust, odour and noise emissions associated with the trial;
 - (f) include a monitoring plan that includes, but is not limited to:
 - (i) the indicator parameter/s to be monitored;
 - (ii) monitoring locations, equipment used and proximity to sensitive receptors;
 - (iii) monitoring frequencies;
 - (iv) monitoring averaging periods; and
 - (v) any meteorological monitoring to be undertaken; and
 - (g) only when a CEO notification to cease a trial has been issued in accordance with condition 11, and in the event that the licence holder is submitting a trial amendment notification, then the licence holder must:
 - (i) resubmit the requirements of conditions 10(a) – (f);
 - (ii) address the issues that resulted in the notification to cease the trial on the initial (or any subsequent) trial for the same material; and

- (iii) include a new trial end date calculated 12 months from the commencement of the first shipment of the ceased trial, not including time elapsed between the CEO notification to cease that trial and the trial amendment notification.

CEO notification to cease a trial (prior to commencement or during)

- 11.** The licence holder must cease a trial in the manner and at the time, when:
- (a) the CEO forms the view, acting reasonably:
 - (i) that following an assessment of the information provided as part of condition 10, it is determined that the proposed trial will result in unacceptable impact on public health, amenity or the environment; or
 - (ii) that following a review of any data received in accordance with condition 14, it is determined that the trial is having an unacceptable impact on public health, amenity or the environment; or
 - (iii) that the trial being undertaken is different in any manner from that described in the notification provided by the licence holder through condition 8, when that difference is resulting in, or is likely to result in, an unacceptable impact on public health, amenity or the environment; and
 - (b) the CEO has provided written notice to cease the trial (which the CEO will make publicly available) to the licence holder specifying the grounds for the CEO's views.

Nothing in this condition prevents the licence holder subsequently submitting an amendment in relation to the trial. Any trial amendment proposed by the licence holder must follow the notification requirements as per condition 10 (g).

Trial restrictions

- 12.** The trial must cease:
- (a) 12 months from the date of the commencement of the first shipment; or
 - (b) immediately after the shipment where the cumulative throughput amounts exceed 1,000,000 tonnes; or
 - (c) immediately upon receipt of a CEO notification to cease a trial in accordance with condition 11,
- whichever occurs first.

A trial may only recommence upon notification of a trial amendment, in accordance with condition 10 (g).

- 13.** The licence holder must not trial the bulk handling of materials that:
- (a) Contain asbestos in concentrations equal to or greater than 0.01% w/w for non-friable asbestos or 0.01% w/w for fibrous asbestos;
 - (b) Contain respirable silica equal to or greater than 1% w/w;
 - (c) Exceed the radiation transport limit of 10 Bq/g for uranium-238 and thorium-232 combined;
 - (d) Exceed rubidium-87 concentrations of 30 Bq/g; or
 - (e) Are a waste or waste-derived by-material (except clean fill).

Trial reporting

- 14.** The licence holder must submit a report to the CEO which includes the results of monitoring required by condition 10(f), and includes:
- (a) the 15-minute averaged, raw data in tabulated format;
 - (b) a graphical representation of the monitoring results for each trial shipment with a comparison against 15-minute averaged meteorological (wind speed and direction) monitoring data;
 - (c) moisture content data averaged over each trial shipment and showing a comparison against the representative DEM level, where the DEM level can be determined; and
 - (d) a summary of the effectiveness of the controls implemented for the management of emissions and discharges,
 - (e) within 30 days of the completion of the first trial shipment; at four, seven and ten months from the first trial shipment; and a final closeout report within 30 days following the cessation of the trial.

Ongoing shipments

- 15.** In the event that approval for the ongoing shipments of the trial material is sought, the licence holder must provide an application for licence amendment, along with a report fulfilling the requirements of condition 14, at least three months prior to the completion of the trial period.

Definitions

In this licence, the terms in Table 3 have the meanings defined.

Table 3: Definitions

Term	Definition
Annual Audit Compliance Report (AACR)	means a report submitted in a format approved by the CEO (relevant guidelines and templates are available on the Department's website).
annual period	a 12-month period commencing from 1 July until 30 June of the immediately following year.
AS 1289.2.1.1	means the <i>Australian Standard AS 1289: Methods of testing soils for engineering purposes, Method 2.1.1: Soil moisture content tests</i> .
AS 3580	means the <i>Australian Standard AS 3580: Methods for sampling and analysis of ambient air</i> .
AS 4156.6-2000	means the <i>Australian Standard AS 4156. Coal preparation, Part 6: determination of dust/moisture relationship to coal</i> .
CEO	means Chief Executive Officer of the department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the <i>Environmental Protection Act 1986</i> Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
clean fill	means as defined by the <i>Landfill Waste Classification and Waste Definitions 1996</i> (as amended April 2018).
DEM	means the dust extinction moisture which is the moisture content expressed as a percentage of the Material at which the dust number is 10 derived from the Australian Standard AS4156.6-2000.
department; DWER	means the department established under section 35 of the <i>Public Sector Management Act 1994 (WA)</i> and designated as responsible for the administration of the EP Act, which includes Part V Division 3.
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.
EP Act	means <i>Environmental Protection Act 1986 (WA)</i>
washed silica sand	means the product loaded and exported from Berth 5 at the Port of Bunbury.
licence	refers to this document, which evidences the grant of a licence by the

Term	Definition
	CEO under section 57 of the EP Act, subject to the specified conditions contained within.
licence holder	refers to the occupier of the premises, being the person specified on the front of the licence as the person to whom this licence has been granted.
moisture content'	means the ratio of the mass of water in a sample to the mass of solids in the sample, expressed as a percentage. In equation form: $w = \frac{m_1 - m_2}{m_1} \times 100$ Where: w = moisture content of sample; m ₁ = initial mass, in grams, of the test portion; and m ₂ = mass, in grams, of the test portion after drying
PM	means Particulate Matter.
PM ₁₀	used to describe particulate matter that is smaller than 10 microns (µm) in diameter.
premises	refers to the premises to which this licence applies, as specified at the front of this licence and as shown on the premises map in Schedule 1 to this licence.
prescribed premises	has the same meaning given to that term under the EP Act.
TEOM	means tampered element oscillating microbalance.
tpa	means tonnes per annum
waste	has the same meaning given to that term under the EP Act.

END OF CONDITIONS

Schedule 1: Maps

Premises map

The boundary of the prescribed premises is shown in orange in the map below (Figure 1).



Southern Ports - Bunbury Prescribed Premises Boundary

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Legend

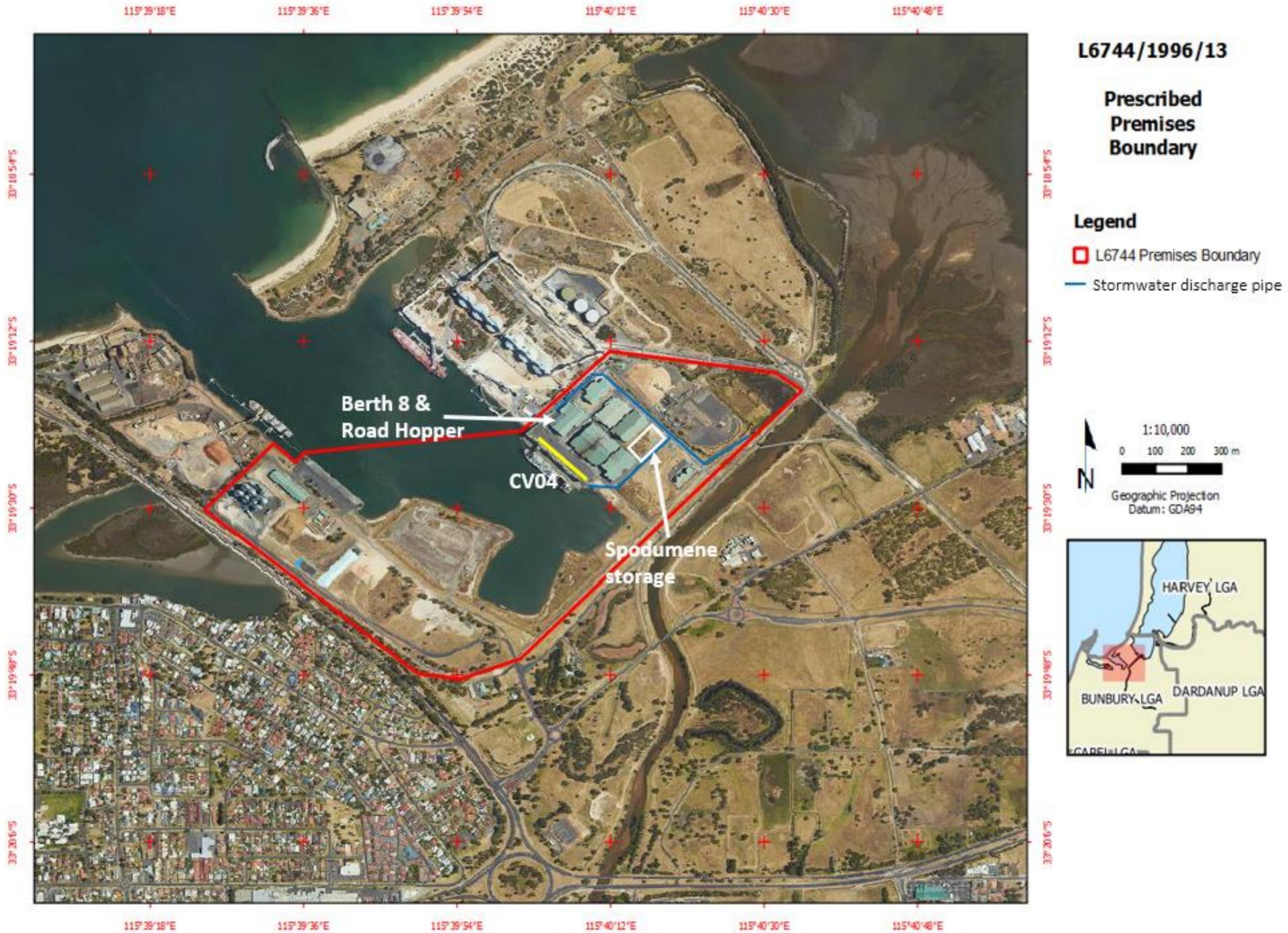
-  Prescribed Premises Boundary
-  1 Berth 5
-  2 Preston River Channel
-  3 Old Leightons Yard
-  4 East Bunbury Residential Area - Approx. 450m from Berth 5
-  5 Public Amenities - Park Owned & Managed by Port
Approx. 1050m from Berth 5



0 100 200 300 400 500
Metres
GDA 2020 PCG 2020
Drawn: SPA GIS Team
Scale: 1:14,648@ A3
Map File Ref: BUN_DWER_PrescribedPremisesBoundary_Licence
Revision: 1



Figure 1: Map of the boundary of the prescribed premises.



The Department of Environment Regulation does not guarantee that this map is without flaw of any kind and disclaims all liability for any errors, loss or other consequence which may arise from relying on any information depicted. Roads and tracks on land managed by DER may contain unmarked hazards and their surface condition is variable. Exercise caution and drive to conditions on all roads.

Figure 2: Spodumene concrete storage shed location



Southern Ports - Bunbury
Site Layout & Air Monitoring Locations



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Legend

- Prescribed Premises Boundary
- Unsealed Laydown Areas
- Air Monitoring Sites
- 1 Mineral Sand Processing & Storage Site
- 2 Woodchip / Log Processing & Storage Site
- 3 Grain Storage Silos
- 4 Mineral Sands
- 5 Alumina Storage Bins
- 6 Alcoa & South 32 Shared Caustic Storage & Out Load Facility
- 7 Woodchip / Log Processing & Storage Site
- 8 Sheds : Multi Commodities Storage Sheds - Mineral Sand, Silica Sand, Copper Concentrate & Spodumene
- 9 Oil Tank Storage
- 10 Stockpile Area

0 100 200 300 400 500 Metres

GDA 2020 PCG 2020
 Drawn: SPA GIS Team
 Scale: 1:11,500@ A3
 Map File Ref: BUN_DWER_PrescribedPremisesBoundary_Licence
 Revision: 1



Figure 3: Site layout and dust monitoring locations.

Schedule 2: Bulk materials loaded and unloaded

The licence holder operates ship unloading/loading and materials loading systems the following bulk materials as specified in Table 4.

Table 4: Bulk materials imported/exported at Berth 5 and 8.

Material	Description	Berth location	Import/export material loading/unloading equipment	Imported (tpa)	Exported (tpa)
Coal	N/A	Berth 5	Import - Grab buckets in combination with hoppers loading to truck	360 000	N/A
Copper concentrate	N/A	Berth 8	Export - Hopper to telescopic chute system	N/A	360 000
Iron concentrate	N/A	Berth 5	Export - Rotainers emptied into vessels using rotating tipping frames	N/A	250 000
Mineral sands	Heavy mineral sand concentrate (HMC) Ilmenite Medium zircon feedstock (MZF)	Berth 5	Import - Grab buckets in combination with hoppers loading to truck	460 000	N/A
	Heavy mineral sand concentrate (HMC) Ilmenite Mixed non-magnetic heavy mineral sands Monazite concentrate Staurolite concentrate Synthetic rutile/natural	Berth 5	Export - Rotainers emptied into vessels using rotating tipping frames or loaded onto the ship using mobile shiploading infrastructure	N/A	1.3 million

Material	Description	Berth location	Import/export material loading/unloading equipment	Imported (tpa)	Exported (tpa)
	rutile/rutile muddlings Medium zircon feedstock (MZF)				
	Ilmenite Leucoxene 70 and 80 Synthetic rutile/natural rutile/rutile muddlings	Berth 8	Export - Hopper to cascade chute system		
Petroleum coke	N/A	Berth 5	Import - Grab buckets in combination with hoppers loading to truck	100 000	N/A
Silica sands/washed silica sands	N/A	Berth 5	Export - Rotainers emptied into vessels using rotating tipping frames	N/A	850 000
		Berth 8	Export - Hopper to telescopic chute system		
Spodumene	Spodumene concentrate SC4, SC5, SC6, SC 5.5, SC6.5, SC7, SC7.3, SC7.2, SC7.5	Berth 5	Export - Rotainers emptied into vessels using rotating tipping frames	N/A	2.5 million
		Berth 8	Export - Hopper to telescopic chute (if product is damp) or cascade chute (if product is dry)		
Fertiliser	Urea, DAP (Di-Ammonium Phosphate), MOP (Muriate of Potash/Sylvite), MAP (Monoammonium Phosphate), MAPZSC (Mono-Ammonium	Berth 5	Import - Grab buckets in combination with hoppers loading to truck	40 000	N/A

Material	Description	Berth location	Import/export material loading/unloading equipment	Imported (tpa)	Exported (tpa)
	Phosphate (MAP) with added Zinc), DAPZSC, Allrich, Gusto, Phosphate, super phosphate)				
Alumina hydrate	N/A	Berth 8	Export – Hopper to telescopic chute system	N/A	80 000
Bauxite ore	N/A	Berth 8	Export - Hopper to telescopic chute system	N/A	150 000