Government of Western Australia
Department of Water and Environmental Regulation

Licence

Licence number	L8121/2003/2
Licence holder	BGC (Australia) Pty Ltd
ACN	005 736 005
Registered business address	Ground Floor 67 Walters Drive OSBORNE PARK WA 6017
Duration	01/12/2011 to 30/11/2032
Date of amendment	05/08/2025
Premises details	BGC Naval Base 24 Beard Street NAVAL BASE WA 6165 Legal description - Lot 32 on Diagram 44929, Lot 33 on Diagram 55120, Lot 144 on Plan 3638 and Lot 145 on Plan 3638 As depicted in Schedule 1 – Figure 1

Prescribed premises category description (Schedule 1, Environmental Protection Regulations 1987)	Assessed design capacity
Category 43: Cement or lime manufacturing	1,401,600 tonnes per annum
Category 77: Concrete batching or cement products manufacturing: premises on which cement products or concrete are manufactured for use at places or premises other than those premises.	2,015,000 tonnes per annum

This amendment is granted to the licence holder, subject to the attached conditions, on 5 August 2025, by:

Daniel Hartnup

Digitally signed by Daniel Hartnup
Date: 2025.08.05 15:10:09 +08'00'

MANAGER, PROCESS INDUSTRIES
STATE-WIDE DELIVERY (ENVIRONMENTAL REGULATION)
an officer delegated under section 20 of the *Environmental Protection Act 1986* (WA)

Licence history

Date	Ref number	Summary of changes
30/11//2003	L8121/2003/1	Licence granted
1/12/2011	L8121/2003/2	Renewed for five years
29/04/2016	L8121/2003/2	Expiry date amended to 30/11/2022
25/01/2021	L8121/2003/2	Amended to current licence format and to add blending plant and HE silo
28/07/2021	L8121/2003/2	Amendment to authorise construction and operation of bulk bagging plant and white cement silos
05/08/2025	L8121/2003/2	Amendment to authorise construction and operation of an 80 tonne Single Pass Slag Drum Dryer to replace the existing 60 tonne Triple Pass Slag Drum Dryer

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 construct and /or install the infrastructure listed in Table 1 in accordance with:

(a) the corresponding design and construction requirements / installation requirement; and

(b) at the corresponding location.

as set out in that table.

Table 1: Design and construction requirements / installation requirements.

Infrastructure	Design and construction/installation requirement	Infrastructure location
80 tonne Single Pass Slag Drum Dryer comprising: • one fully enclosed 200-250 tonne buffer silo • one enclosed overhead conveyor • two dust collectors • one combustion chamber with an associated gas burner • one single pass drum • draught fan • one fabric filter baghouse • one exhaust stack	(a) The overhead conveyor and buffer silo must be fitted with dust collectors capable of reducing particulate emissions below 50 mg/m^3. (b) The overhead conveyor and buffer silo must be fully enclosed. (c) Must install an ultra-low NOx Weishaupt gas burner capable of achieving a NOx concentration of <80mg/m^3. (d) The baghouse must be: i. connected to the dryer drum; ii. capable of reducing particulate emissions below 50 mg/m^3; iii. fitted with an automatic cleaning system; iv. connected to the Process Control System which must be programmed to monitor and alarm for faults or malfunctions; and v. capable of returning collected dust to the dryer. (e) An exhaust fan must be installed that directs exhaust gases from the dryer drum via the baghouse to the exhaust stack. (f) Exhaust stack must have a minimum height of 15 metres above ground and a minimum diameter of 1 metre. (g) The exhaust stack must be fitted with a sampling port that meets the requirements of AS 4323.1 for the purpose of emission monitoring. (h) The draught fan must be fitted with a silencer capable of limiting noise emission to 75db at 1m.	Shown in Schedule 1 – Figure 2 as “F” (with the red boundary line)

2. The licence holder must ensure that the site infrastructure and equipment listed in Table 2 and located at the corresponding infrastructure location is maintained and operated in accordance with the corresponding operational requirement set out in that table.

Table 2: Infrastructure and equipment requirements

Site infrastructure and equipment	Operational requirement	Infrastructure location
100 t/hr Blending Plant comprising: • 2 x 100 tonne silos (cement and slag) • 1x blender and associated enclosed screw conveyors and bucket elevators • 2x 300 tonne silos (blended product)	Dust collectors must be in operation whenever loading or unloading occurs.	Shown as “A” in Schedule 1 – Figure 2
1x 500 tonne high-early cement silo	Dust collectors must be in operation whenever loading or unloading occurs.	Shown as “B” in Schedule 1 – Figure 2

Site infrastructure and equipment	Operational requirement	Infrastructure location
Bulk Bagging Plant comprising: • 4 x 100 tonne silos • 4 x 20 tonnes silos	All doors and openings of the building must remain closed when the bagging plant is in operation.	Shown as "C" in Schedule 1 – Figure 2
White Cement silos • 2 x 750 tonne silos • 1 x 100 tonne silo	Dust collectors must be in operation whenever loading or unloading occurs.	Shown as "D" and "E" in Schedule 1 – Figure 2 (near discharge points 27 and 29)
80 tonne Single Pass Slag Drum Dryer comprising: • 1 x fully enclosed drum • 1 x combustion chamber with gas burner • 1 x 200-250 tonne buffer silo • 1 x fabric filter baghouse and stack • 1 x enclosed overhead conveyor	(a) Must not be operated prior to the submission of the Environmental Compliance Report required by condition 10. (b) Dust collectors must be in operation whenever loading or unloading occurs. (c) The baghouse must be in operation whenever the dryer is operating. (d) Exhaust gases from the dryer must be directed to the baghouse for treatment and discharged via the exhaust stack. (e) The baghouse must be monitored by a Process Control System programmed to alarm when faults or malfunctions are detected. (f) The baghouse must be inspected in response to a Process Control System alarm. (g) Baghouse filters must be inspected no less than once per month. (h) Blocked, broken or leaking filters must be immediately replaced. (i) Dust captured within baghouse must be recycled back into the dryer.	Shown as "F" in Schedule 1 – Figure 2
All dust collectors as per Table 3	(a) All dust collectors must be monitored by a Process Control System programmed to alarm when faults or malfunctions are detected. (b) Dust collectors must be inspected in response to a Process Control System alarm. (c) Dust collector filters must be inspected no less than once per month. (d) Blocked, broken or leaking filters must be immediately replaced. (e) Dust captured within dust collectors must be recycled back into the associated silos/plant.	Schedule 1 – Figure 2

Emissions and discharges

Emissions to air

3. The licence holder must ensure that the emission(s) specified in Table 3, are discharged only from the corresponding discharge point(s) and only at the corresponding discharge point location(s).

Table 3: Authorised discharge points

Emission	Discharge point	Discharge point location
Particulate matter	Two dust collectors atop of Shed 1	1 and 2, as shown in Schedule 1 – Figure 2
	Dust collector atop existing slag dryer, shed 2	3, as shown in Schedule 1 – Figure 2
	Dust collector atop Shed 3, white cement clinker feed silo	4, as shown in Schedule 1 – Figure 2
	Four dust collectors atop batch plant	5, 6, 7 and 8, as shown in Schedule 1 – Figure 2
	Dust collector atop silo 1	9, as shown in Schedule 1 – Figure 2
	Dust collector to side/bottom of silo 1	10, as shown in Schedule 1 – Figure 2
	Dust collector atop silo 2	11, as shown in Schedule 1 – Figure 2
	Dust collector to side/bottom of silo 2	12, as shown in Schedule 1 – Figure 2
	Dust collector atop silo 3	13, as shown in Schedule 1 – Figure 2
	Dust collector to side/bottom of silo 3	14, as shown in Schedule 1 – Figure 2
	Dust collector atop silo 4	15, as shown in Schedule 1 – Figure 2
	Dust collector to side/bottom of silo 4	16, as shown in Schedule 1 – Figure 2
	Mill dust collectors	17, 18, 19, and 20, as shown in Schedule 1 - Figure 2
	Dust collector atop silo	21, as shown in Schedule 1 – Figure 2
	Dust collector atop silo	22, as shown in Schedule 1 – Figure 2
	Dust Collectors atop Blender silos (4 in total)	23, 24, 25, and 26 and, as shown in Schedule 1 – Figure 2
	Dust collector atop White Cement changeover silo (100T)	27, as shown in Schedule 1 – Figure 2
	Dust collector atop HE Cement silo (500T)	28, as shown in Schedule 1 – Figure 2
	Dust Collector atop White Cement Silos (1 servicing two 750T silos)	29, as shown in Schedule 1 – Figure 2
	Dust collector atop Slag Drum Dry overhead conveyor	31, as shown in schedule 1 – Figure 2
	Dust collector atop Slag Drum Dry buffer silo	32, as shown in schedule 1 – Figure 2
NOx and particulate matter	Dryer Stack	31, as shown in schedule 1 – Figure 2
Wastewater	Concrete batching plant settling pond wastewater discharge point	W1, as shown in Schedule 1 – Figure 2

Monitoring of emissions

4. The licence holder shall undertake monitoring in Table 4 according to the specifications in that table.

Table 4: Monitoring of air emissions

Discharge Point	Parameter	Units	Frequency	Averaging Period	Sampling and analysis method[3]
Dryer Stack	NO_x	mg/m^3 and g/s[1]	Annually	> 30 minutes	USEPA Method 7E[2]
	Volumetric flow rate and velocity	m^3/s and m/s[1]			USEPA Method 2[2]

Note 1: Units are referenced to STP dry and 15% O2.
Note 2: Monitoring shall be undertaken to reflect normal operating conditions.
Note 3: Where any USEPA method refers to USEPA Method 1 for the sampling plane, this must be read as referral to AS 4323.1:2021.

5. The licence holder shall ensure that the sampling required under condition 4 of the licence is undertaken at sampling locations in compliance with AS4323.1.

6. The licence holder shall ensure that the non-continuous sampling and analysis undertaken pursuant to condition 4 is undertaken by a holder of NATA accreditation for the relevant methods of sampling and analysis.

Records and reporting

7. 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.

8. 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) the works conducted in accordance with condition 1 of this licence;
(c) any maintenance of infrastructure that is performed in the course of complying with condition 2 of this licence;
(d) monitoring programmes undertaken in accordance with condition 4 of this licence; and
(e) complaints received under condition 7 of this licence.

9. The books specified under condition 8 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

10. The licence holder must within 30 calendar days of all items of infrastructure required by condition 1 being constructed:

(a) undertake an audit of their compliance with the requirements of condition 1; and
(b) prepare and submit to the CEO an Environmental Compliance Report on that compliance.

11. The Environmental Compliance Report required by condition 10, must include as a minimum the following:

(a) certification by the licence holder that the items of infrastructure or component(s) thereof, as specified in condition 10, have been constructed in accordance with the relevant requirements specified in condition 10;
(b) as constructed plans and a detailed site plan for each item of infrastructure or component of infrastructure specified in condition 10; and
(c) be signed by a person authorised to represent the licence holder and contains the printed name and position of that person.

12. 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 by no later than 60 days after the end of that annual period an Annual Audit Compliance Report in the approved form.

13. The licence holder must:

(a) prepare an Environmental Report that provides information in accordance with Table 5 for the preceding two annual periods, and
(b) submit that Environmental Report to the CEO by 1 March 2027 and biennially thereafter.

Table 5: Environmental reporting requirements

Condition	Requirement
3	• Emissions to air monitoring results for the reporting period together with any relevant process, production or operational data. • An interpretation of the monitoring data including comparison to historical trends and emission limits. • Copies of original monitoring, laboratory and analysis reports submitted by third parties.
6	• Summary of complaints received during the reporting period

Definitions

In this licence, the terms in Table 6 have the meanings defined.

Table 6: Definitions

Term	Definition
ACN	Australian Company Number
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 January until 31 December of the same year
AS4323.1	means the most recent version and relevant parts of the Australian Standard *AS4323.1 Stationary source emissions, Method 1: Selection of sampling positions and measurement of velocity in stacks*
averaging period	means the time over which a limit is measured or a monitoring result is obtained
biennially	means every two years
CEO	means Chief Executive Officer of the department. "submit to / notify the CEO" (or similar), means either: Director General Department administering the *Environmental Protection Act 1986* Locked Bag 10 Joondalup DC WA 6919 or: info@dwer.wa.gov.au
department; DWER	means the department established under section 35 of the *Public Sector Management Act 1994* (WA) and designated as responsible for the administration of the EP Act, which includes Part V Division 3
Environmental Compliance Report	means a report to satisfy the CEO that that conditions infrastructure and/or equipment has been constructed and/or installed in accordance with the works approval
EP Act	*Environmental Protection Act 1986* (WA)
EP Regulations	Environmental Protection Regulations 1987 (WA)
licence	refers to this document, which evidences the grant of a licence by the 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
NATA	means the National Association of Testing Authorities, Australia
NOx	means oxides of nitrogen
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 (Figure 1) in Schedule 1 to this licence
PTFE	Polytetrafluoroethylene
USEPA	means United States (of America) Environmental Protection Agency

Term	Definition
USEPA Method 2	means *USEPA Method 2 Determination of Stack Gas Velocity and Volumetric Flow Rate (Type S Pitot Tube)*
USEPA Method 7E	means *USEPA Method 7E Determination of Nitrogen Oxides Emissions from Stationary Sources (Instrumental Analyzer Procedure)*

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

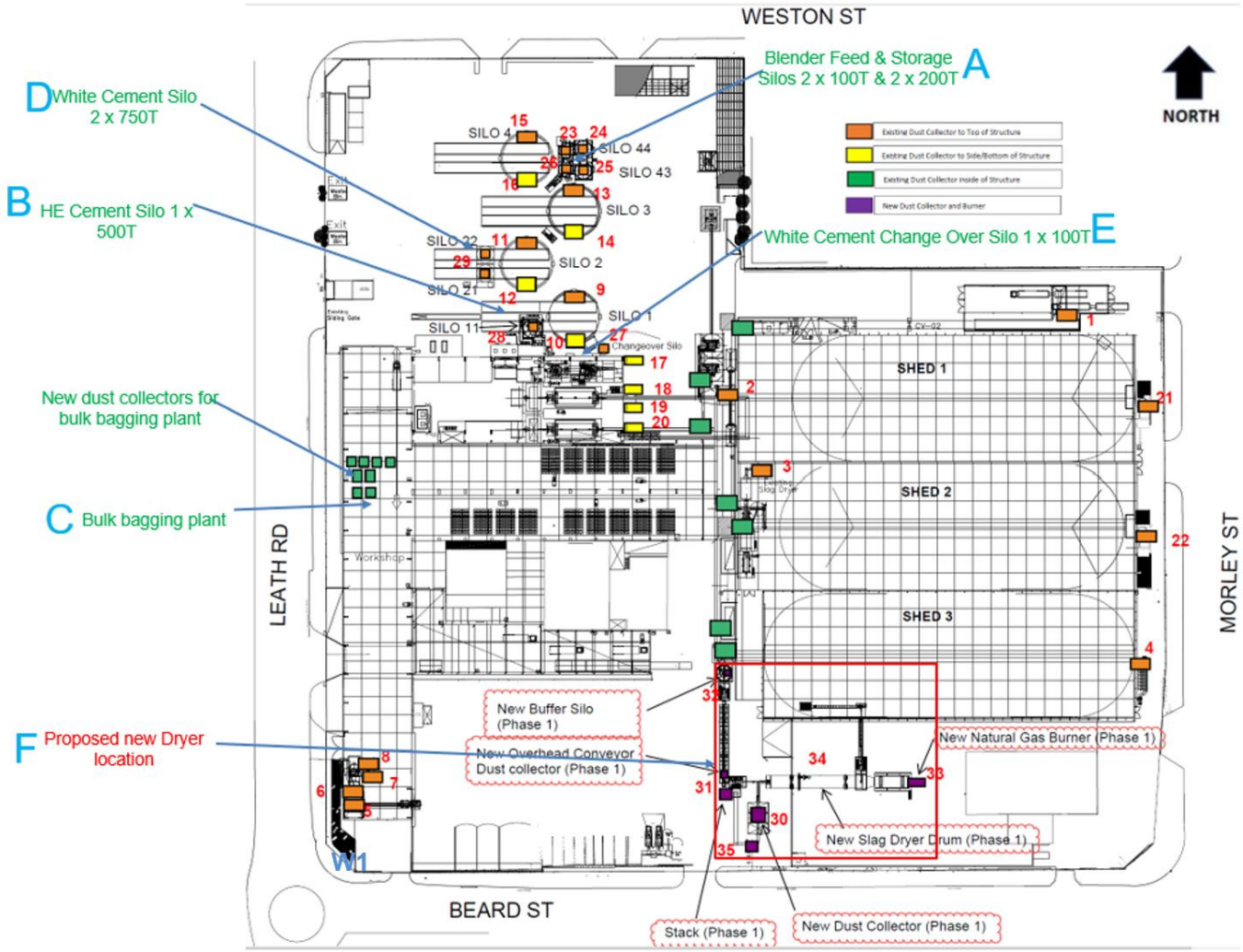

Figure 2: Site layout and authorised emission points