Boral Chinderah Concrete Batching Plant

Annual Environmental Management Report

2024-2025

Document Control			
Version	Prepared by	Date	Distribution
1	Carlo Dela Cruz Environment Business Partner - QLD Boral Australia	30/07/2025	NSW Department of Planning and Environment

Table 1. Annual Review

Name of Operations:	Boral Concrete Chinderah Batching Plant
Name of Operator:	Boral Resources (QLD) Pty Ltd
Development Number:	DA 76-02-2003-i
Name of Holder of Development Number:	Boral Resources (QLD) Pty Ltd
Annual Review start date:	01 July 2024
Annual Review end date:	30 June 2025
I, **Adrian Vaida**, certify that this audit report is a true and accurate record of the compliance status of **the Boral Concrete Tweed (Chinderah) Batching Plant** for the period of **1st of July 2024** to the **30th June 2025** and that I am authorised to make this statement on behalf of **Boral Resources (QLD) Pty Ltd.**	
Name of authorised reporting officer	Andrian Vaida
Title of authorised reporting officer	Operations Manager Concrete SEQ
Signature of authorised officer	
Date	30/07/2025

Contents

1. Statement of compliance

This section of the annual report incorporates a statement of compliance in relation to conditions prescribed in the DA 76-02-2003-i.

Table 2. Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	
DA 76-02-2003	Yes

Compliance status key for table 3.

Risk level	**Colour code**	**Description**
High	**Non-compliant**	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence.
Medium	**Non-compliant**	Non-compliance with: • Potential for serious environmental consequences, but is unlikely to occur; or • Potential for moderate environmental consequences, but is unlikely to occur.
Low	**Non-compliant**	Non-compliance with: • Potential moderate environmental consequences, but is unlikely to occur; or • Potential for low environmental consequences, but is unlikely to occur.
Administrative non-compliance	**Non-compliant**	Only to be applied where the non-compliance does not results in any risk of environmental harm.

2. Introduction

Boral Resources (Qld) Pty Ltd (**Boral**) operate a concrete batching plant at Lot 16 on DP249122 located on Ozone Street, Chinderah, New South Wales (**refer to Figure 1 – Site Location Plan**). The site operates under the Development No. 76-2-2003-I that was lodged with the NSW Department of Planning on 11 March 2003.

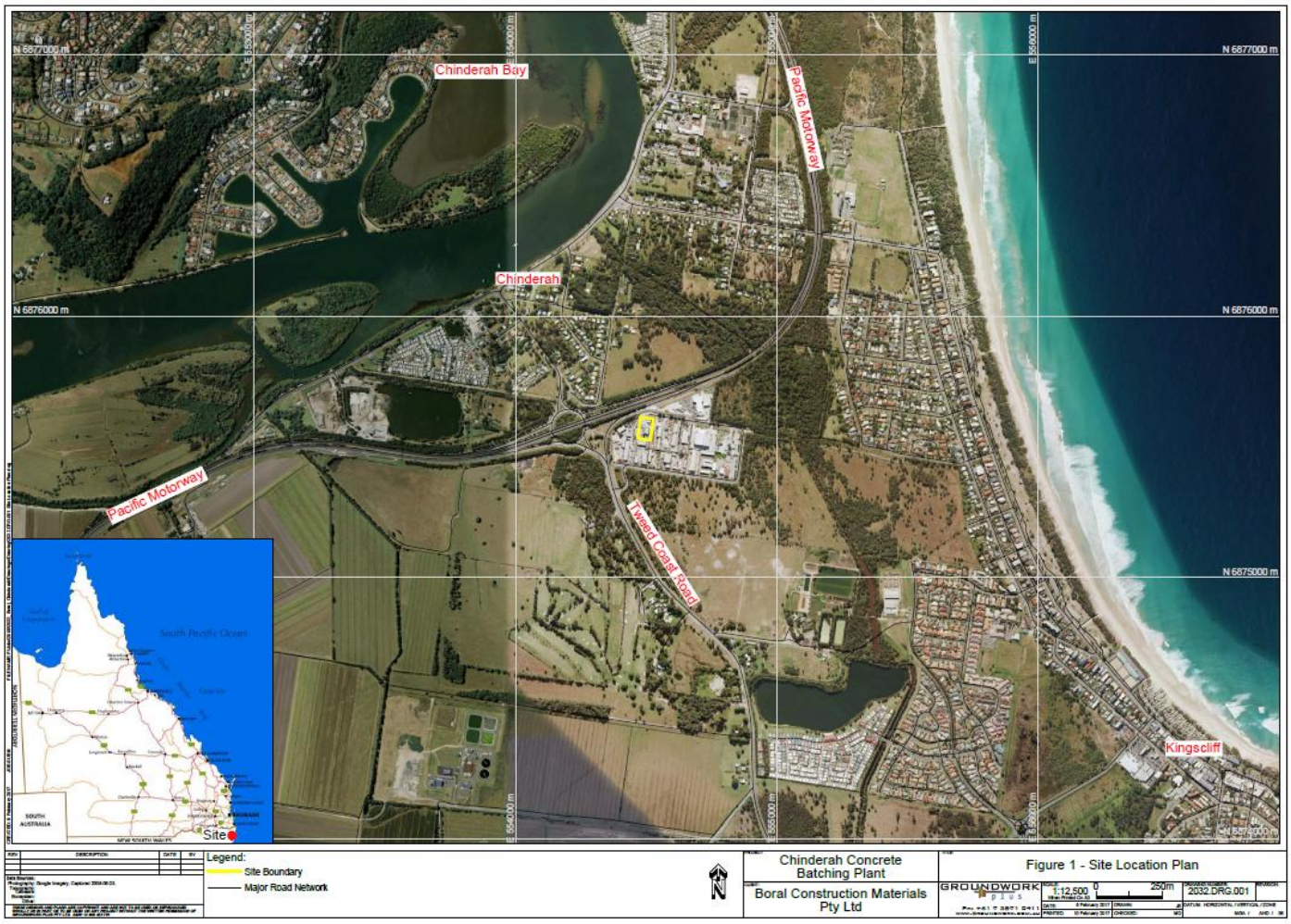


Figure 1 – *Chinderah Concrete site Location Plan*

The concrete batch plant operations are limited to a maximum of 50,000 tonnes of concrete per annum in accordance with condition 1.4 of the Development Consent. Refer to **Figure 2 – Site Layout Plan** for an overview of the layout of the concrete batch plant.

Figure 2 – *Site Layout Plan*

The approved operations hours are 6am to 6pm Monday to Friday and 6am to 2pm on Saturdays in accordance with condition 2.9 of the Development Consent.

The plant is described as a front-end loader facility where aggregates (gravel and sand) are transferred from holding bins via a front-end loader and deposited into weigh bins. The weigh bins measure the material and transfer it to the truck mounted agitator via a conveyor system. No crushing or grinding of aggregates occurs on site.

Cement and fly ash components are weighed directly into a three (3) tonne capacity cement weigh bin located directly below the storage silo discharge points.

The loading process begins with approximately 90% of the batch water and the additives being dispensed into the truck mounted agitator via a discharge pipe in the load hopper (at the end of the load conveyor). As the aggregate and sand on the belt feed into the agitator, cement and fly ash are uniformly fed into the load hopper.

The entire discharge process is computer controlled and is set up so that approximately 5% of the aggregate and sand is fed into the agitator before cement discharge begins and cement discharge ends with 5% of the aggregates and sand still to be discharged. This process minimises dust generation and the dust extraction shroud, which surrounds the load hopper and rear of the agitator bowl, captures any dust that does escape. On completion of the discharge of aggregates, sands and cementitious material, the final 10% of batch water is added to achieve the desired consistency and moisture 'slump' which also serves the purpose of washing in any material on the rear fins.

On completion of loading, the agitator truck pulls out from under the loading sock and proceeds to the slump stand.

Delivery trucks containing cement and aggregates will enter the site from Ozone Street. Aggregate deliveries will proceed to the aggregate storage and loading area that accepts reverse delivery of materials directly into the storage bins. Cement and fly ash deliveries will proceed around the site to a position adjacent to the loading area and pneumatically deliver material into the silos.

Agitators on return from a delivery will proceed to the active drying bay (one (1) of three (3)) for cleaning of residual material in the drum. If a truck is already in the drying bay agitators will park and wait in the truck parking spaces provided. Once cleaned, the agitators proceed to the loading area where concrete is loaded and the product is dispatched off-site.

This report has been provided in accordance with Schedule 2, Condition 3.3 of DA 76-02-2003-i issued by the NSW Department of Planning on 18 June 2003, for the period 1 July 2023 to 30 June 2024. Condition 3.3 states:

Within 12 months of operation of the development, and after each subsequent year, the applicant shall submit an ***Annual Environmental Management Report*** *which:*

a) *Includes a detailed summary of all complaints received during the past year;*
b) *Includes a detailed summary of monitoring results for the past year and an assessment of these monitoring results against the relevant impact assessment criteria;*
c) *Identify any non-compliances during the previous year; and*
d) *Describe what actions are being taken to ensure compliance.*

3. Approvals

Currently, the Chinderah Concrete plant operates under the following approvals.

Table 5. Chinderah Approvals.

Approval	Date
DA 76-2-2003-i	2003
Environmental Management Plan	March 2020

No changes to approvals or management plans have occurred during this annual period.

4. Operations Summary

Concrete Operations

Table 6 below provides the production volumes for the period between July 2024 and June 2025. In total, the batching plant produced 1,879 tonnes of concrete which is below the anticipated production volume of 31,200 tonnes.

Table 6 Annual Production totals

Material	Approved Limit (DA 76-02-2003-i)	Previous reporting period (01/07/23–30/06/24)	This reporting period (01/07/24–30/06/25)	Next reporting period (01/07/25-30/06/26)
Concrete	50,000 Tonnes	3,154 tonnes	1,879 tonnes	1,880 tonnes

The next 12 months (July 2025 – June 2026) forecasted volume is expected to be around 1,880 tonnes. However, this would be subject to change based on market and customer demand.

Next Reporting Period

No significant changes are expected in the next reporting period. No infrastructure upgrades are currently planned.

5. Actions required from previous Annual Review

Previous AEMR has been made publicly available through Boral's website. A copy of the 2024-2025 AEMR can be accessed at https://www.boral.com.au/locations/boral-concrete-chinderah.

6. Environmental Performance

The site continues to complete its Environmental Permit Planner (an environmental checklist) monthly to ensure all environmental controls are being implemented effectively and to identify any issues that were not previously picked up. Any environmental hazards, incidents or community complaints are tracked via Boral's incident management system, which includes investigation, corrective actions and an escalation process to ensure timely close out of actions.

Water Management

The site continues to operate its water management infrastructure as designed. Upgrades to the water management systems in previous years has allowed the site to capture a higher design capacity resulting in fewer releases from site. A revised management plan implemented in the 2019-2020 period has allowed the site to manage water effectively. However, due to poor planning and execution of water sampling and release process, a non-compliance result was recorded during this reporting period. This event has been reported to the NSW Department of Planning and Environment and was rectified. Water results for the period have been provided in table 7.

Air Management

No changes to air management controls have been made during the reporting period. Directional sprayers are currently installed and adjusted as required.

Noise Management

During the annual period, there was limited operation. However, the site continues to utilise the sites EPP to achieve compliance with all environmental aspects including noise.

Waste Management

No changes to waste management have occurred during the reporting period.

Environmental Monitoring

Environmental monitoring required by the approved Environmental Management Plan includes:

- Water , Section 4.1
- Air (dust and odour), Section 4.2 and;
- Noise, Section 4.3

No air (dust and odour) or noise monitoring was undertaken during the period as there were no community complaints or requests from the Department to undertake monitoring.

Water monitoring was required during the reporting period and is summarised below, as per section 4.1 *Table 2 – Surface Water Release Limits*.

Table 2 – Surface Water Release Limits

Release Location	Quality Characteristic	Limit	Limit Type	Minimum Monitoring Frequency
Release point R1 and R2	pH	6.5 – 9.0	Range	Monthly upon discharge
	Suspended solids	50mg/L	Maximum	Once every three (3) months during discharge
	Oil, grease and hydrocarbons	No visible sheen in the discharge (<10mg/L)	Maximum	Monthly upon discharge
	Solid litter	No observable litter discharged	Maximum	Monthly Upon discharge

Release points locations are inspected by Boral staff following significant rainfall across the region and sampled if discharge occurs. During this period, water discharge was reported to have occurred through the approved release locations, with results presented in table 7 below. This monitoring is discussed in section 9.

Table 7. Discharge water monitoring results.

Discharge Location	Date	pH	TSS (<50mg/L)	Visible oil or grease	Visible Litter
R1	16/07/2024	7.55	2	Nil	Nil
R1	22/08/2024	10	110	Nil	Nil
R1	09/06/2025	7.5	3	Nil	Nil

On comparing previous year results, site water infrastructure upgrades, improved environmental monitoring, and changes to water management processes has significantly improve water discharge quality. Changes to infrastructure have increased the overall water holding capacity of site resulting in reduced discharge events. The large storage capacity enables the site to conduct controlled releases of excess what to ensure water quality limits are met prior to any discharge offsite.

Figure 3 and 4 compares the monitoring results undertaken over a 5-year period at site.

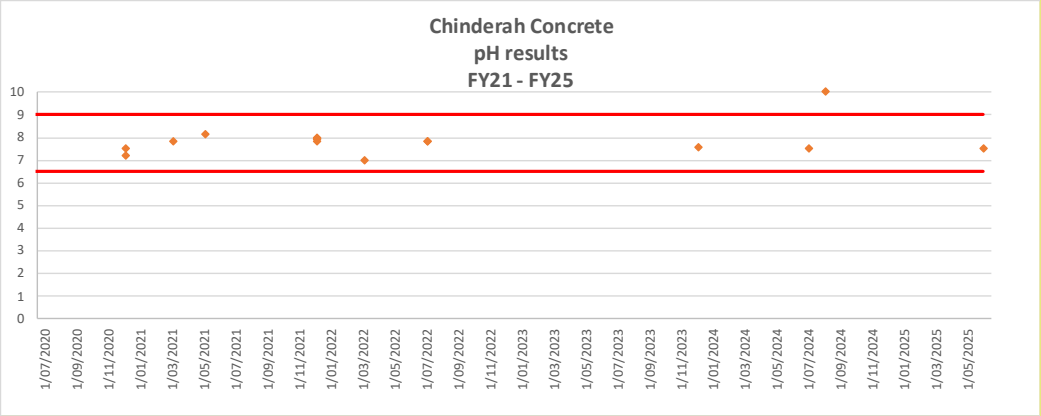


Figure 3. Chinderah Concrete pH monitoring results July 2020 - June 2025

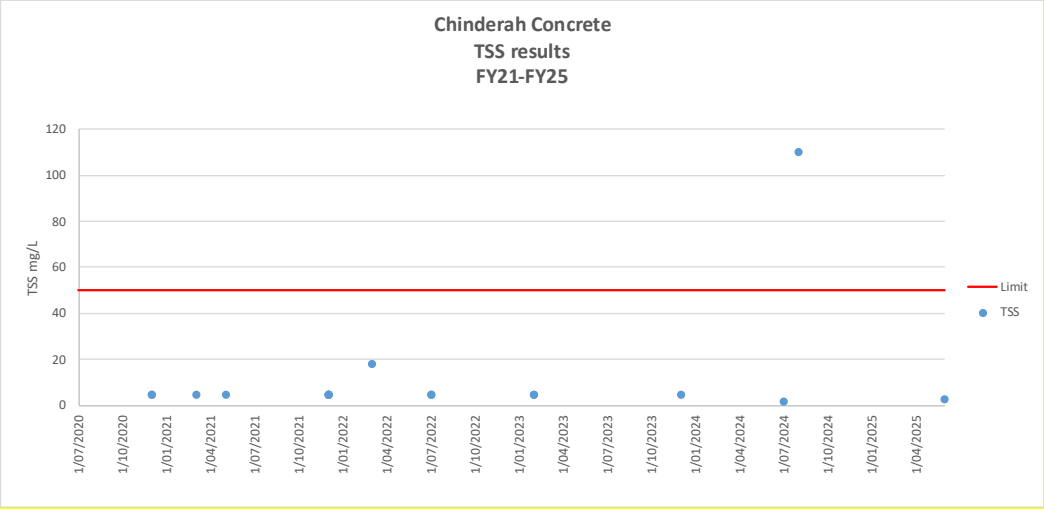


Figure 4. Chinderah Concrete TSS monitoring results July 2020 - June 2025

Assessing results from previous years, suspended solid results have dramatically decreased to less than the limit of reporting which is <5mg/L. This is attributed to changes in infrastructure and process which has allowed the site to store more water within pits and water tanks.

pH results over the previous years have also decreased and are more consistent. The pH results are averaging 7.8, and the reduction of pH over the previous years can be attributed to reducing the contaminated area through site reconfiguration and infrastructure upgrades,

resulting in most of the water being captured within the site storages as fresh surface water runoff and less contaminated water.

7. Community

Environmental incidents and associated complaints for Boral's Chinderah Concrete Plant are reported and tracked in Boral's incident management system. All complaints received, and/or any employee becoming aware of an incident with actual or potential environmental implications, are reported to the Production Manager immediately in accordance with Boral's HSEQ incident management procedures. Throughout the period no community complaints have been received.

8. Independent Audit

During the period no independent party audit was undertaken nor was one requested by the Director-General as per condition 3.4 of DA 76-2-2003-i.

9. Incidents, Non-compliances and Reporting

Water monitoring exceedance:

On 22 August 2024, a non-compliant result was reported to the NSW Department of Planning and Environment. This incident was classified as a record breach due to the exceedance. Boral promptly undertook corrective actions, including retraining site personnel on the planning and execution of water sampling and release procedures, cleaning of first flush pits, and reinstatement of the site's CO_2 system. No further exceedances have been recorded following this event.

Incidents and Reporting

There were no incidents recorded during this reporting period.

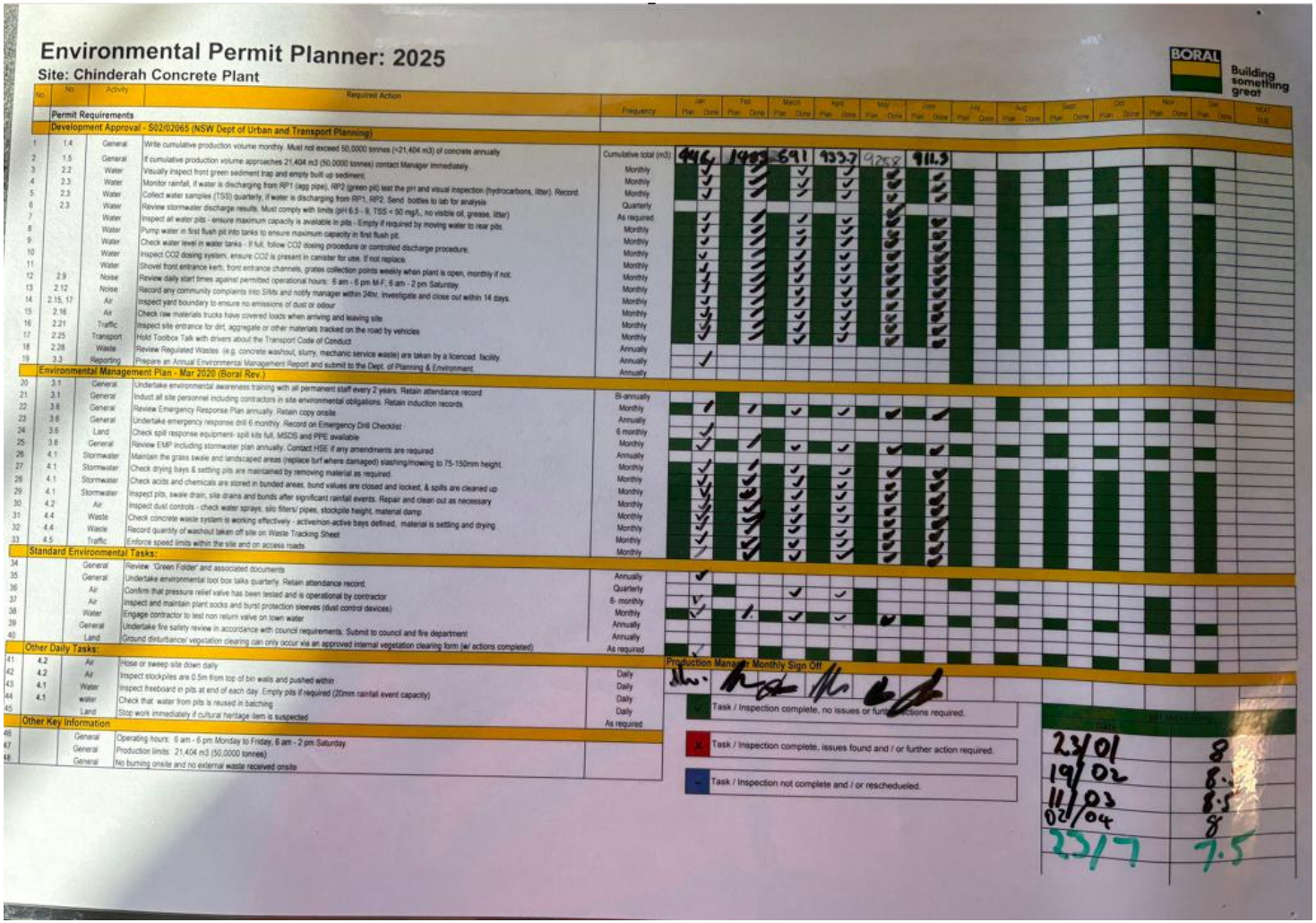
10. Activities to be completed in the next reporting period

Boral will continue to inspect and monitor the environmental performance. Environmental monitoring of water discharge will continue to measure the effectiveness of the controls that have been implemented.

The site will continue to complete its Environmental Permit Planner (an environmental checklist) monthly to ensure all environmental controls are being implemented effectively and to identify any issues that were not previously picked up. Any environmental hazards, incidents or community complaints are tracked via Boral's incident management system,

which includes investigation, corrective actions, and an escalation process to ensure timely close out of actions.

Appendix 1.
Environmental Permit Planner 2025



Environmental Permit Planner: 2025

Site: Chinderah Concrete Plant

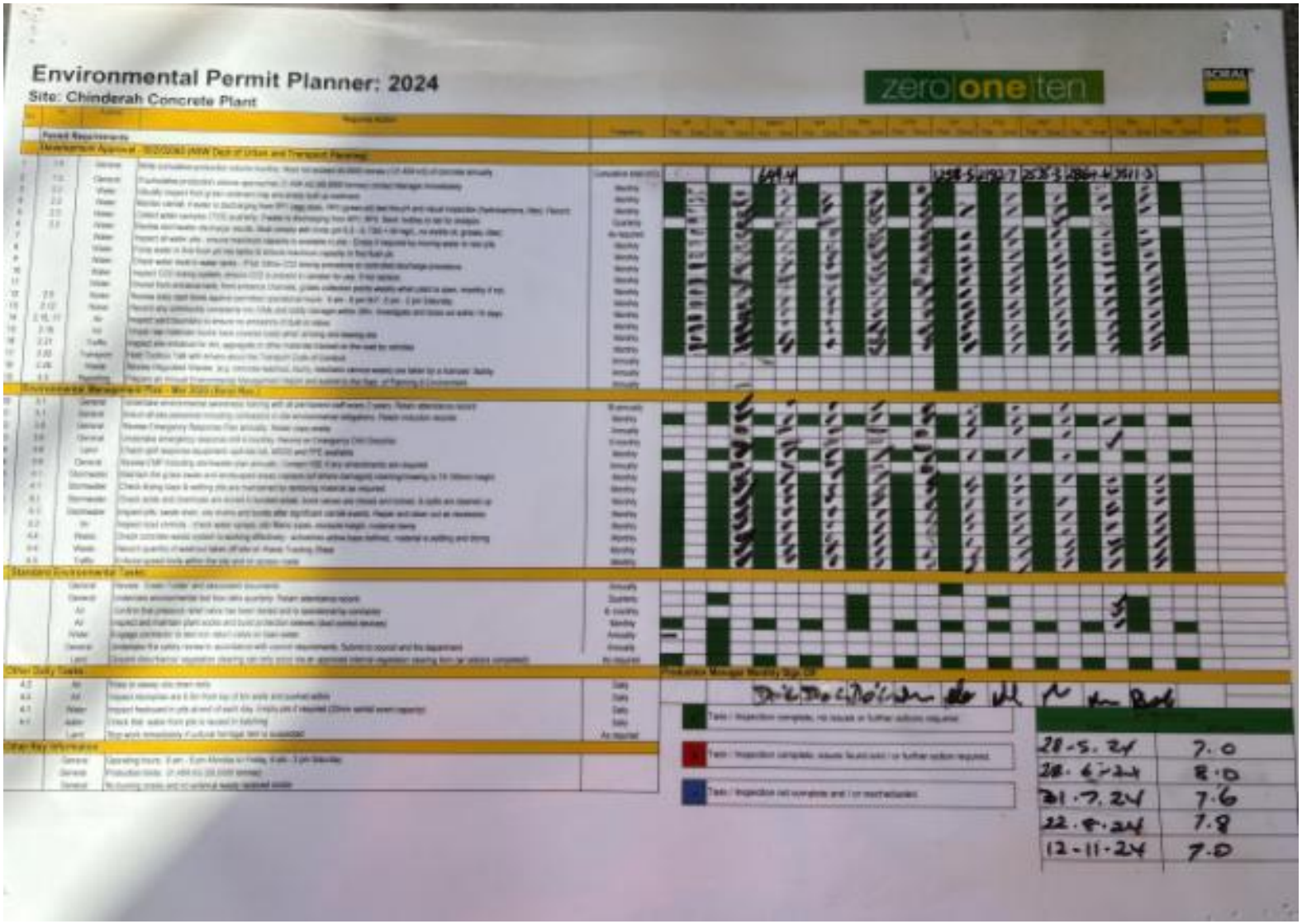
No.	Activity	Required Action	Frequency
		Permit Requirements	
		Development Approval - S02/02065 (NSW Dept of Urban and Transport Planning)	
1	1.4	General	Write cumulative production volume monthly. Must not exceed 50,0000 tonnes (=21,404 m3) of concrete annually	Cumulative total (m3)
2	1.5	General	If cumulative production volume approaches 21,404 m3 (50,0000 tonnes) contact Manager immediately.	
3	2.2	Water	Visually inspect front green sediment trap and empty built up sediment.	Monthly
4	2.3	Water	Monitor rainfall. If water is discharging from RP1 (agg pipe), RP2 (green pit) test the pH and visual inspection (hydrocarbons, litter). Record.	Monthly
5	2.3	Water	Collect water samples (TSS) quarterly. If water is discharging from RP1, RP2. Send bottles to lab for analysis	Monthly
6	2.3	Water	Review stormwater discharge results. Must comply with limits (pH 6.5 - 9, TSS < 50 mg/L, no visible oil, grease, litter)	Quarterly
7		Water	Inspect all water pits - ensure maximum capacity is available in pits - Empty if required by moving water to rear pits.	As required
8		Water	Pump water in first flush pit into tanks to ensure maximum capacity in first flush pit.	Monthly
9		Water	Check water level in water tanks - If full, follow CO2 dosing procedure or controlled discharge procedure.	Monthly
10		Water	Inspect CO2 dosing system, ensure CO2 is present in canister for use. If not replace.	Monthly
11		Water	Shovel front entrance kerb, front entrance channels, grates collection points weekly when plant is open, monthly if not.	Monthly
12	2.9	Noise	Review daily start times against permitted operational hours: 6 am - 6 pm M-F, 6 am - 2 pm Saturday.	Monthly
13	2.12	Noise	Record any community complaints into SIMs and notify manager within 24hr. Investigate and close out within 14 days.	Monthly
14	2.15, 17	Air	Inspect yard boundary to ensure no emissions of dust or odour	Monthly
15	2.16	Air	Check raw materials trucks have covered loads when arriving and leaving site	Monthly
16	2.21	Traffic	Inspect site entrance for dirt, aggregate or other materials tracked on the road by vehicles	Monthly
17	2.25	Transport	Hold Toolbox Talk with drivers about the Transport Code of Conduct	Monthly
18	2.28	Waste	Review Regulated Wastes (e.g. concrete washout, slurry, mechanic service waste) are taken by a licenced facility.	Annually
19	3.3	Reporting	Prepare an Annual Environmental Management Report and submit to the Dept. of Planning & Environment	Annually
		Environmental Management Plan - Mar 2020 (Boral Rev.)		Annually
20	3.1	General	Undertake environmental awareness training with all permanent staff every 2 years. Retain attendance record	Bi-annually
21	3.1	General	Induct all site personnel including contractors in site environmental obligations. Retain induction records	Monthly
22	3.6	General	Review Emergency Response Plan annually. Retain copy onsite	Annually
23	3.6	General	Undertake emergency response drill 6 monthly. Record on Emergency Drill Checklist	6 monthly
24	3.6	Land	Check spill response equipment- spill kits full, MSDS and PPE available	Monthly
25	3.8	General	Review EMP including stormwater plan annually. Contact HSE if any amendments are required	Annually
26	4.1	Stormwater	Maintain the grass swale and landscaped areas (replace turf where damaged) slashing/mowing to 75-150mm height.	Monthly
27	4.1	Stormwater	Check drying bays & settling pits are maintained by removing material as required.	Monthly
28	4.1	Stormwater	Check acids and chemicals are stored in bunded areas, bund values are closed and locked, & spills are cleaned up	Monthly
29	4.1	Stormwater	Inspect pits, swale drain, site drains and bunds after significant raintall events. Repair and clean out as necessary	Monthly
30	4.2	Air	Inspect dust controls - check water sprays, silo filters/ pipes, stockpile height, material damp	Monthly
31	4.4	Waste	Check concrete waste system is working effectively - active/non-active bays defined, material is setting and drying	Monthly
32	4.4	Waste	Record quantity of washout taken off site on Waste Tracking Sheet	Monthly
33	4.5	Traffic	Enforce speed limits within the site and on access roads	Monthly
		Standard Environmental Tasks:		
34		General	Review 'Green Folder' and associated documents	Annually
35		General	Undertake environmental tool box talks quarterly. Retain attendance record.	Quarterly
36		Air	Confirm that pressure relief valve has been tested and is operational by contractor	6- monthly
37		Air	Inspect and maintain plant socks and burst protection sleeves (dust control devices)	Monthly
38		Water	Engage contractor to test non return valve on town water	Annually
39		General	Undertake fire safety review in accordance with council requirements. Submit to council and fire department	Annually
40		Land	Ground disturbance/ vegetation clearing can only occur via an approved internal vegetation clearing form (w/ actions completed)	As required
		Other Daily Tasks:		
41	4.2	Air	Hose or sweep site down daily	Daily
42	4.2	Air	Inspect stockpiles are 0.5m from top of bin walls and pushed within	Daily
43	4.1	Water	Inspect freeboard in pits at end of each day. Empty pits if required (20mm rainfall event capacity)	Daily
44	4.1	water	Check that water from pits is reused in batching	Daily
45		Land	Stop work immediately if cultural heritage item is suspected	As required
		Other Key Information		
46		General	Operating hours: 6 am - 6 pm Monday to Friday, 6 am - 2 pm Saturday.	
47		General	Production limits: 21,404 m3 (50,0000 tonnes)	
48		General	No burning onsite and no external waste received onsite	

Cumulative total (m3): 416 | 1983 | 691 | 932.7 | 925.8 | 911.3

Production Manager Monthly Sign Off

- ✓ Task / Inspection complete, no issues or further actions required.
- ✗ Task / Inspection complete, issues found and / or further action required.
- – Task / Inspection not complete and / or rescheduelled.

23/01	8
19/02	8
11/03	8.5
02/04	8
23/7	7.5


Environmental Permit Planner: 2024
Site: Chinderah Concrete Plant
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28-5-24 7.0
28-6-24 8.0
31-7-24 7.6
22-9-24 7.8
12-11-24 7.0