St Peters Concrete Plant and Rail Terminal Annual Review

November 2021 - October 2022

Lot 1 DP 866946

23-25 Burrows Road South

St Peters, NSW, 2044

DA 14/96 MOD 11 and 12

Version	Prepared by	Reviewed by	Date	Distribution
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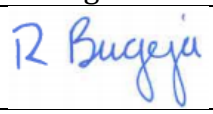
Name of operation	Boral St Peters Concrete Plant and Rail Terminal
Name of operator	Boral Resources (NSW) Pty Ltd
Development consent	DA 14/96
Name of holder of development consent	Boral Resources (NSW) Pty Ltd
Annual Review start date	1st November 2021
Annual Review end date	31st October 2022
I, Richard Bugeja certify that this audit is a true and accurate record of the compliance statues of the Boral St Peters Concrete Plant and Rail Terminal Project for the period of the 202 Reporting Period and that I am authorised to make this statement on behalf of Boral Resources (NSW) Pty Ltd. Note The annual review is an 'environmental audit' for the purposes of section 122B(2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, $1 million and for an individual $250,000.	
Name of authorised reporting officer	Richard Bugeja
Title of authorised reporting officer	Sydney East Concrete Production Manager
Signature	
Date	31/07/2023

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1 Introduction

1.1 Background

Boral Resources (NSW) Pty Ltd (Boral) operates a concrete batching plant and a materials handling facility at 23 - 25 Burrows Road South, St Peters, NSW ("the Site"). The concrete plant produces ready mix concrete, while the materials handling facility receives via rail, raw materials such as sand, aggregates and cement for use in the on-site concrete batching plant, as well as for distribution to Boral's network of asphalt and concrete plants in the Sydney metropolitan region.

On 6th September 1996, the then NSW Minister for Urban Affairs and Planning granted development consent to Boral for the construction and operation of a concrete plant and materials handling facility. The development consent also included approval for an asphalt plant which was subsequently constructed but decommissioned in 2002.

The site's development consent has been modified twelve times to increase the production limits of the facility, upgrade and decommission plant and site infrastructure, and amend operating hours.

On the 31st January 2019, modification 11 of DA14/96 was approved by the NSW Department of Planning, Industry and Environment (DPIE). This approval updated the development consent through administrative modifications and set production limits for the concrete plant (750,000m^3) and throughput limits for the handling facility (1,000,000 tonnes per annum (tpa)). Modification 11 of DA14/96 has since been replaced by Modification 12 on the 28th August 2020 which changed consent conditions A5 and A6. For condition A5, this change increased the throughput at the construction materials handling facility to be increased to 1.75 million tonnes per annum subject to:

> *a) the maximum annual production of the concrete batching plant not exceeding 400,000 cubic metres, or*
>
> *b) the maximum annual production of the concrete batching plant not exceeding the limit of 650,000 cubic metres subject to the Applicant providing evidence to the satisfaction of the Planning Secretary that the upgrade works and all air quality management and mitigation measures approved under MOD 11 and MOD 12 for the site have been constructed and are operational.*

For condition A6, the hourly two-way movements were increased from 88 between 7am - 9am and 4pm - 6pm to 124 for the same periods.

This Annual Review assesses performance against the Consolidated Conditions of Consent Modification 12.

1.2 Purpose/Scope

This report has been prepared to address Annual Review requirements as per Schedule 2, condition C9 of Development Consent DA-14/96. Condition C9 is quoted below, with bold text showing where

an Annual Review requirement has been addressed in this document. This Annual Review covers the 12-month period between November 1st, 2021 and October 31st 2022 (the 'reporting period').

C9. Within 12 months of the approval of MOD 10, and each subsequent year, the Applicant shall review the environmental performance of the development to the satisfaction of the Planning Secretary. This review must:

- *a) describe the development that was carried out in the previous calendar year, and the development that is proposed to be carried out over the next year; (Section 2)*
- *b) include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the:*
  - *(i) the relevant statutory requirements, limits or performance measures/criteria (Section 3);*
  - *(ii) requirements of any plan or program required under this consent (Section 3.2);*
  - *(iii) the monitoring results of previous years (Section 3.1); and*
  - *(iv) the relevant predictions in the EIS and/or subsequent modifications (Section 5);*
- *c) identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance (Section 6);*
- *d) identify any trends in the monitoring data over the life of the development (Section 7);*
- *e) identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies (Section 3.1.1 and 3.1.2); and*
- *f) describe what measures will be implemented over the next year to improve the environmental performance of the development (Section 8).*

2 Development Overview

2.1 Development in 2021-2022

Below is a list of developments made throughout the last 12 months:

- Automated Fixed Plant Water Sprayers
- Installed additional dust suppression systems on inbound haul road - Automated
- Upgraded HD - Camera Integrated System
- Upgraded and installed new Stockpile Dust Suppression sprinklers
- Replaced damaged fences along the stockpile
- Replaced Shade Cloth around the Stockpile fence (ALL)
- Installed Waste Material Catchment on Sales Conveyor belt
- Increase frequency rate of Drain inspections
- Reviewed and Updated Site Dust Management plan
- Implement personal Dust Awareness training as part of induction prior to attending site
- Carried out Personal Dust & Noise monitoring in relation to all activities undertaken on site
- Increased Scope of Road Sweeper on site
- Improved Vehicle and Pedestrian Traffic Management Plan - Removed Walkway in operational area
- Installation of CO2 dosing plant in first flush pit for pH control if water discharge is required
- Replace high pressure water pump for slump stand
- Installation of sediment control in SACL parking area perimeter
- Upgrade of spill response equipment on site
- Changes to slump stand water hose timers reducing freshwater usage leading to less wastewater capture in water management pits
- Reduction in freshwater usage to clean conveyor drip trays to reduce wastewater capture in water management pits
- Change to pit level top up operational water to enhance capacity to capture water during rainfall events
- Replacement of load bay dust extraction ducting
- Installation of drip trays to avoid admixture spillage out bunds
- Upgraded scraper on CV05 reducing material spillage
- Increased frequency in the use of the plant water cart to improve dust suppression

The site has also continued monitoring environmental compliance through the use of the Environmental Permit Planner (EPP) (See Appendix 1) for both the concrete and rail terminal sites, as well as completing the monthly Boral HSEQ Environmental Inspection Checklist (See appendix 2).

2.2 Proposed developments for 2022 - 2023

The proposed developments for the next reporting period include:

- Further review of Site Surface Water management plan

- Scope up requirement to attach cannon to water cart
- Review Dust Management processes during tipping operation
- Review feasibility of Weighbridge operator assisting with watercart duties
- Install Rail Wagon Depressurisation and dust catchment filter on Cement Discharge System
- HME Cabin seal integrity check
- Installation of sediment control at rear of site as part of handover on completion of Gateway bridge construction work
- Review of water management area in the "dirty water zone" to reduce clean water capture
- Installation of upgraded scraper to CV01 and CV02
- Review of wind control on CV01 avoiding material blown off the conveyor during the loading process

3 Environmental monitoring results and complaints records

3.1 Relevant statutory requirements and performance criteria

3.1.1 Noise

Best practice techniques are used to minimise unnecessary noise on site including:

- Limiting on site vehicle speeds to between 10-20 km/hr.
- Regular plant and equipment maintenance to ensure that operational noise is minimised.
- Conduct the majority of operational works between the hours of 5:00 a.m. and 6:00 p.m. Monday to Sunday to minimise noise disturbance to sensitive receptors; and
- Where practicable, low tone broadband reversing alarms are used on mobile plant.

No noise complaints related to the site operations have been received during the reporting period.

Site and equipment noise monitoring was conducted by EMM Consulting (EMM) in July 2018 as part of an environmental assessment for modification 11. Based on the modelling results, the noise impacts resulting from modification 11 were found to satisfy the project specific noise levels (PSNLs) at all assessment locations and would increase site noise levels by no greater than 1 decibel (dB) compared to existing operations. Changes in noise levels by 1-2 dB are imperceptible to humans, therefore, the discrepancy between the predicted and actual impacts of the development is negligible.

A new round of noise monitoring was conducted in 2022, to assess ongoing performance to the noise criteria contained in the Conditions of Consent. Noise measurements were undertaken by Muller Acoustic Consulting, on Wednesday 26 October and Thursday 27 October at two monitoring locations to determine site noise contribution. The assessment identified that noise emissions by the site satisfied the relevant noise criteria at all assessed receivers.

3.1.2 Dust

The site undertakes monthly monitoring of dust emissions through three dust deposition gauges and two directional dust gauges, which have been placed in the following locations.

- **Site 1:** Dust gauge (1): At the eastern corner of the site adjacent to the adjoining bus depot.
- **Site 1A:** A directional dust gauge at the same location as dust gauge (1).
- **Site 3:** Dust gauge (3): At the western corner of the site adjacent to the rail line.
- **Site 3A:** A directional dust gauge at the same location as dust gauge (3); and
- **Site 4:** Dust gauge (4): At the northern corner of the site, adjacent to a vacant SACL owned lot.

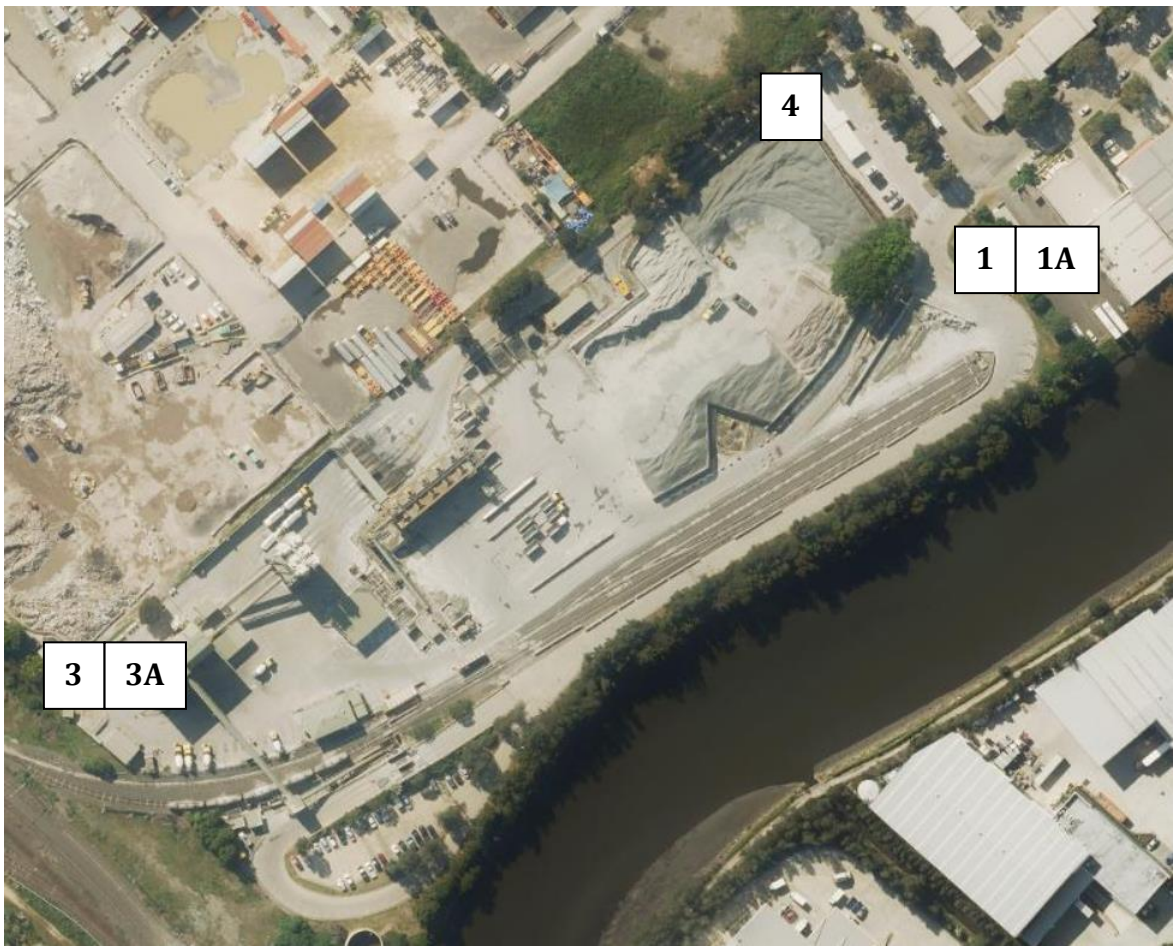
Dust monitoring is undertaken in accordance with the requirements of section 36a) and 36b) of the development consent, which refers to the site's Environmental Management and Monitoring Plan (EMMP).

Dust deposition monitoring is conducted on a monthly basis in accordance with NSW EPA *Approved Method 19 – AS 3580.10.1 Methods of sampling and analysis of ambient air: Determination of particulate Deposited Matter – Gravimetric Method.*

Dust samples are collected every 30 ± 2 days and sent to Boral Materials Technical Services, which is a NATA Accredited Laboratory (No: 9968). The samples are analysed for the following parameters:

- Insoluble solids – relating to the filterable material in the sample;
- Ash content – relating to the residue remaining following sample combustion by the laboratory; and
- Combustible material – sample content that is lost in sample combustion.

Figure 1: Boral Terminal/CBP St Peters – Dust Deposition Monitoring Locations November 2021– October 2022.



The annual average concentrations for ash and insoluble solids at the current monitoring sites (1, 3 and 4) are listed in Table 1 below.

Table 1: Boral St Peters Dust Deposition Results

Monitoring Points Test Method AM 19 Insoluble Solids	Nov 2015 – Oct 2016 Av ($g/m^2/mth$) Insoluble Solids	Nov 2016 – Oct 2017 Av ($g/m^2/mth$) Insoluble Solids	Nov 2017 – Oct 2018 Av ($g/m^2/mth$) Insoluble Solids	Nov 2018 – Oct 2019 Av ($g/m^2/mth$) Insoluble Solids	Nov 2019 – Oct 2020 Av ($g/m^2/mth$) Insoluble Solids	Nov 2020 – Oct 2021 Av ($g/m^2/mth$) Insoluble Solids	Nov 2021 – Oct 2022 Av ($g/m^2/mth$) Insoluble Solids
Site 1: Eastern Corner	9.48	9.00	9.56	9.38	5.74	4.18	2.41
Site 3: Rear of Site	8.92	8.35	9.53	7.59	5.41	3.65	2.93
Site 4: Northern Corner near site exit	12.33	7.47	10.92	5.65	11.58	24.99	12.15
Site 1A[1]: North	3.78	13.56	3.13	2.17	8.23	0.96	0.82
Site 1A[1]: East	4.71	4.52	2.68	3.42	4.11	1.63	2.41
Site 1A[1]: South	12.44	6.40	3.91	5.7	2.81	2.91	1.65
Site 1A[1]: West	5.61	9.76	6.88	12.24	8.59	8.54	3.24
Site 3A[1]: North	13.59	14.02	22.11	18.24	7.52	5.05	3.93
Site 3A[1]: East	11.06	11.52	7.67	7.45	4.15	2.45	4.52
Site 3A[1]: South	5.85	5.92	8.64	6.72	2.26	2.13	3.00
Site 3A[1]: West	13.96	10.74	7.69	7.41	4.61	1.63	2.13
Monitoring Points Test Method AM 19 Ash	**Nov 2015 – Oct 2016 Av ($g/m^2/mth$) Ash**	**Nov 2016 – Oct 2017 Av ($g/m^2/mth$) Ash**	**Nov 2017 – Oct 2018 Av ($g/m^2/mth$) Ash**	**Nov 2018 – Oct 2019 Av ($g/m^2/mth$) Ash**	**Nov 2019 – Oct 2020 Av ($g/m^2/mth$) Ash**	**Nov 2020 – Oct 2021 Av ($g/m^2/mth$) Ash**	**Nov 2021 – Oct 2022 Av ($g/m^2/mth$) Ash**
Site 1: Eastern Corner	6.67	5.51	6.7	6.78	3.78	2.90	1.74
Site 3: Rear of Site	7.72	6.98	8.25	6.34	4.74	2.95	2.93
Site 4: Northern Corner near site exit	10.48	6.77	9.39	4.56	9.55	20.90	9.04
Site 1A[1]: North	2.83	11.49	2.57	1.56	7.16	0.73	0.46
Site 1A[1]: East	4.06	3.68	2.05	2.42	3.59	1.14	1.74
Site 1A[1]: South	10.52	5.24	3.20	4.7	2.51	2.57	1.21
Site 1A[1]: West	4.93	8.56	5.84	10.62	7.55	7.64	2.39
Site 3A[1]: North	11.51	11.95	19.18	15.91	6.86	4.60	3.14
Site 3A[1]: East	9.66	6.99	6.97	6.29	3.60	2.14	3.61
Site 3A[1]: South	5.08	4.37	7.36	5.13	1.78	1.69	2.30
Site 3A[1]: West	12.04	4.43	6.75	6.5	4.05	1.35	1.52

[1] = Directional dust gauge

To interpret the results, it is necessary to refer to the *NSW EPA Approved Methods and Guidance – For the Modelling and Assessment of Air Pollutants in NSW*. The impact assessment criteria for dust are listed with the maximum annual average of 4g/m^2/mth for insoluble solids. These criteria are intended for application to offsite sensitive receptors.

Throughout the reporting period, the gauges have recorded insoluble solids above the goal of 4g/m^2/month and the average monthly deposition was greater than 4g/m^2/mth for one of the three dust gauges (Site 4). These gauges are located on the operating site and are exposed to regular, but localized dust generating activities. To that extent, the recorded fallout rates are not necessarily representative of off-site dust concentrations.

Boral was required to establish one offsite dust gauge to determine the potential offsite impacts of dust on sensitive receptors on Burrows Road South as per Condition 36a of DA 14/96. However, there are limitations to the type of dust monitoring devices that can be installed in the area, due to surrounding land-use. This was discussed in the Annual Review submitted to the Department of Planning and Environment in December 2017.To address this issue, Boral as a part of Modification 11, have installed real-time monitors to be used in line with the current dust gauges.

The dust data from the previous 12 months prior to the modified consent being granted (November 1st 2015 – October 31st 2016) indicates a decrease in the insoluble solids concentrations at all three dust gauge Sites 1, 3 and 4. There has also been a decrease in insoluble solids concentrations when compared to the previous reporting period in Sites 1 and 3 (November 2018 – October 2019). This trend has continued for the 2019 to 2020 period, 2020 to 2021 period and the 2021 to 2022 period. Site 4 also showed a decrease in insoluble concentrations for the reporting period (12.15 g/m^2/mth) but an overall increase from the modified consent being granted in 2016. The increase in insoluble solids is believed to be associated with offsite operations adjoining the Boral St Peters operations such as Transfleet container terminal, Visy recycling Centre, and a carpark for Sydney Airport Corporation Limited (SACL) staff members to the west of the site.

The directional dust gauge 3A located directly adjacent to Site 3 indicated a higher level of the deposited dust during the reporting period came from a easterly (4.52 g/m^2/mth), southernly (3.00 g/m^2/mth) and westerly (2.13g/m^2/mth) direction where there are several offsite dust generating activities including Transfleet container terminal, Visy recycling Centre, and a carpark for Sydney Airport Corporation Limited (SACL) staff members to the west of the site. The dust deposition results from the north (3.93g/m^2/mth were lower, facing the site operations, indicating a high potential of impact from offsite dust generating activities.

The directional dust gauge 1A located directly adjacent to Site 1 indicated a lower level of deposited dust during the reporting period (3.24 g/m^2/mth) a decrease from last years (8.54 g/m^2/mth) coming from a westerly direction associated with the site's operations. Operation of the real time monitor at this location will give the site a better understanding of dust generating activities and the opportunity to manage these in real time.

Condition B19 requires the installation and use of three real time dust monitors prior to the operation of any new infrastructure approved under MOD 11.

The real time dust monitors have been installed on site and are operational, however no infrastructure has been built on site under MOD 11, therefore these results have not been included in this review.

3.2 Requirements of plans / programs under this consent

The requirements of plan/programs under this consent requires a review of the environmental management and monitoring plan (EMMP) following the preparation of the Annual review. This considers the environmental monitoring results and processes measured and performed on site between 1 November 2021 – 31 October 2022. An independent review of the EMMP was undertaken in 2022.

3.2.1 Dust Management

Existing dust controls

The site currently reviews the potential for dust impacts and the management of its pollution controls via the site specific EPP (Appendix 1) and the monthly HSEQ Environmental Inspection Checklist (Appendix 2).

The existing pollution controls in place throughout the site to manage and reduce dust generation., include:

- Watering all roads within the facility with a water cart multiple times per day.
- Use of water sprays and sprinklers on stockpiles, loading areas, sales area, and on fixed plant.
- Cessation or reduction of dust generating activities during unfavourable meteorological conditions e.g. high winds.
- Wheel washing in place at the slump stand at the western site exit.
- Primary feed bin water sprays.
- All vehicles entering or exiting the site have their loads appropriately covered (e.g. tarpaulins).
- Maintaining a clean and tidy workspace.
- Enclosed aggregate and sand storage silos.
- Pneumatic loading of cement silos with dust filters.
- Dust extraction systems in the CBP.
- Fully enclosed conveyors and storage bins.
- Closing doors in the loading bays during agitator loading.
- Use of a street sweeper daily for onsite and offsite roads.
- travel speeds have been limited to 10-20 km/hr within the facility, minimising dust generation.
- A wheel wash has been installed at the weighbridge for outgoing tipper trucks.
- A trigger action response plan (TARP) has been created for the site to outline the relevant actions for varying levels of dust incidents based on real time dust measurements

- High Definition (HD) camera system with 20 cameras to enable visual monitoring of any on site dust impacts in real time.

Any complaints received regarding dust on site will be acted on within 24-hours and submitted into the online incident and hazard information management systems (SEQuence). Details of any dust -related complaint will be logged into the online public complaints register, with investigation findings and actions noted.

According to the Ramboll assessment in 2016, the modelled increase of annual dust deposition at two commercial / industrial receptors on Burrows Road was predicted to exceed the EPA criterion. Subsequently, section 36b of the modified consent required Boral to establish an offsite dust gauge in the vicinity of R3 or R4 on Burrows Road South. Boral staff engaged neighbours at a bus depot directly to the north of the site to discuss the possibility of establishing a dust gauge on their site. While the neighbours were willing to allow a dust gauge on their site, the only available areas were within 5 metres of a building, 1 metre of a fence line and within the shadow of an overhanging tree with less than 120° sky visibility, which were not aligned with the requirements of the relevant Australian standard criteria. After an assessment of the remaining surrounding areas, no suitable locations could be found to establish an offsite dust gauge that met the criteria for AS/NZS 3580.1.1 for establishing depositional dust gauges. Therefore, as stated previously, and as required under Condition B19, Boral has installed real-time monitors in the locations of the existing dust gauges on site.

Future proposals

Further dust management controls proposed include the following:

- Scope up requirement to attach cannon to water cart
- Review Dust Management processes during tipping operation
- Review feasibility of Weighbridge operator assisting with watercart duties
- Install Rail Wagon Depressurisation and dust catchment filter on Cement Discharge System

3.2.2 Water management

Surface water run-off from the site is largely captured and contained by a series of retention pits located to the west of the concrete plant and the first flush system located in the eastern portion of the concrete plant. Captured water is recycled and used in the concrete batching process.

Water captured in the first flush system flows through a system of wedge pits, stirrer pits and settling pits to enable suspended solids to fall out prior to discharging into the storm water drainage to the south of the site. Water is only discharged into the storm water system during high rainfall events that exceed the design capacity. The first flush system and retention pits are regularly cleaned to remove sediment from the base of the pits to reduce the sediment load in captured water.

For Modification 11, there are various water management plans that are to be implemented on site for the construction of the upgrade. These include an Erosion and Sediment Control plan, a Surface Water Management Plan, and a Flood Emergency Response Plan. These form part of the EMMP.

3.2.3 Complaints register

An environmental complaints register is available online https://www.boral.com.au/locations/boral-st-peters-operations), however all hazards or incidents are also recorded in Boral's online SEQuence tool.

The purpose of the complaints register is to:

- Ensure that complaints/concerns received regarding the facility are documented; and
- An appropriate response to complaints is initiated (this may include changing management practices/monitoring procedures or adopting new practices/monitoring procedures).

Complaints must be reported to the Production Supervisor within 24 hours of receipt. The Production Supervisor will log the complaint in SEQuence and retain a copy on site.
Where possible, the following information will be sought from the complainant and followed up by the site Manager:

- Date of the complaint.
- Name of the person making the complaint.
- Telephone number of the person making the complaint.
- Reason for the complaint; and
- Follow up with the complainant after actions have been taken in response to the complaint.

Upon being informed of a complaint, the Manager must determine:

- Whether any further response actions are required; and
- Whether changes to site management procedures/monitoring programs are required.

No community complaints pertaining to the site were received during the reporting period.

3.2.4 Review

The Boral GRP-HSEQ-3-01 Monitoring and Review standard describes the obligations of all Boral sites to monitor and record the key performance characteristics of their operations, which have or may have a significant impact on the environment.

The site's EMMP will continue to be reviewed at a minimum of every three years, or where there are significant changes to legislation or site operations. Reviews are to be conducted by the Environmental Manager in consultation with the Site Managers to ensure suitability and adequacy of the EMMP and associated compliances tools.

The site undertakes regular environmental inspections, audits and reviews of the site operations including:

- The monthly environmental inspection checklist ensuring a range of environmental tasks and inspections are completed throughout the month and actioned appropriately. Non-conformances are uploaded onto SEQuence for corrective actions to be implemented.

- Compliance and environmental management system (EMS) audits are conducted every three years by the HSE team to ensure compliance with company standards and regulatory requirements.

In 2016, Boral introduced EPPs to both the materials handling facility and the concrete batch plant to ensure that both operations are compliant with the most recent consent conditions. The EPPs outline all the consent conditions, and standard environmental tasks pertaining to environmental issues and provide instructions to verify that each item is signed off at the appropriate frequency each year. Copies of the materials handling facility and concrete plant EPPs are attached in **Appendix 1.**

4 Compliance with conditions of consent

Table 2 summarises all the conditions of consent, indicates compliance (if relevant) and provides comments if required.

Table 2: Compliance with Conditions of Consent – Concrete Batching Plant and Quarry Terminal, St Peters, NSW. (DA -14/96 Mod 12)

Condition No.	Condition Summary	Complied with Y/N	Comments
General			
Obligation to Minimise Harm to the Environment.			
A1	This consent is granted under section 91 (1) of the Environmental Planning and Assessment Act, 1979 for the operation of a concrete batching plant and associated materials handling facilities at Burrows Road South, St Peters.	Y	Operations are carried out in accordance with the described activities.
A2	The development shall be carried out in accordance with: (items a) to n)).	Y	Operations are carried out in accordance with the associated documents.
A3	If there is any inconsistency between the plans and documentation listed under condition 2 above, the most recent document shall prevail to the extent of the inconsistency. However, conditions of this consent prevail to the extent of any inconsistency.	Y	Operations are carried out in accordance with DA 14/96 Mod 12 which is the most recent of the associated documents.
A4	The applicant shall ensure that employees, contractors and sub-contractors are aware of, and comply with, the conditions of this consent, relevant to their respective activities.	Y	Site inductions, regular internal audits, and the site's EPP ensure that employees and site visitors are aware of the respective consent conditions that relate to their site.
Limits of Consent			
A5	The annual production of the concrete batching plant must not exceed 750,000 cubic metres and the annual throughput of the materials handling facility must not exceed one million tonnes.	Y	The concrete batching plant produced around 229699m^3 of concrete during the reporting period. The annual tonnage at the quarry terminal was 916,593 tonnes (or 26,959 truckloads assuming a 34-tonne truck capacity).
B5A	Notwithstanding the limits in Condition A5 above, the throughput at the construction materials handling facility may be increased to 1.75 million tonnes per annum subject to: a) the maximum annual production of the concrete batching plant not exceeding 400,000 cubic metres, or b) the maximum annual production of the concrete batching plant not exceeding the limit of 650,000 cubic metres subject to the Applicant providing evidence to the satisfaction of the Planning	Y	No construction in association with Modification 11 has commenced on site., resulting in increases to tonnages

	Secretary that the upgrade works and all air quality management and mitigation measures approved under MOD 11 and MOD 12 for the site have been constructed and are operational.		
A6	The Applicant must: a) ensure the maximum hourly truck movements during the morning peak (7 am to 9 am) and afternoon peak (4 pm to 6 pm) do not exceed the limits outlined in Table 1 below; and Table 1: Maximum hourly heavy vehicle movements from concrete batching plant 7am-9am: 124 hourly 2 way movements 4pm-6pm: 124 hourly 2 way movements b) prepare and submit a quarterly report on heavy vehicle truck movements during the morning and afternoon peak periods to Council and the Planning Secretary until the completion of WestConnex Stage 3, unless otherwise agreed to by the Planning Secretary.	Y	a) Maximum truck movements during the morning and afternoon peak were below the 124 hourly 2 way movements. b) A quarterly report on the heavy truck movements during the morning and afternoon peak periods was submitted to Council and the Planning Secretary. Appendix 3 has the total truck movements for the reporting period.
A7	Within 12 months after the determination of MOD 11, a positive covenant under section 88E of the Conveyancing Act 1919 must be registered on the title of the site that provides for the ongoing management and maintenance of the on-site water management system. The covenant must name Council as the prescribed authority, and can only be revoked, varied or modified with the consent of the Council.	Y	Positive covenant (s88E) has been provided to InnerWest Council for approval before being registered on title. Once Council has approved the instrument, the covenant will be registered.
A8	Enter into a planning agreement with Council, setting out the cost division for the upgrade to Burrows Rd South. In accordance with Boral's letter of offer to Council.	Y	Negotiations have occurred with Council on timing of road works. Council and Boral have agreed on costs, and the Planning Agreement will reflect this.
A9	Where Conditions of this consent require consultation with an identified party, the Applicant must: a) consult with the relevant party prior to submitting the subject document to the Planning Secretary for approval; and b) provide details of the consultation undertaken including: (i) the outcome of that consultation, matters resolved and unresolved; and	Y	Noted – Council and RMs consultation has been undertaken as required

	(ii) details of any disagreement remaining between the party consulted and the Applicant and how the Applicant has addressed the matters not resolved.		
A10	All demolition must be carried out in accordance with Australian Standard AS 2601-2001 The Demolition of Structures (Standards Australia, 2001).	Y	No demolition has commenced on site.
A11	All new buildings and structures, and any new alterations or additions to existing buildings and structures, that are part of the development, must be constructed in accordance with the relevant requirements of the BCA.	Y	No construction has commenced on site.
A12	The Applicant must ensure that all of its employees, contractors (and their sub-contractors) are made aware of, and are instructed to comply with, the Conditions of this consent relevant to activities they carry out in respect of the development	Y	No construction has commenced on site. These will be included in the relevant Inductions and SWMS.
A13	All plant and equipment used on site, or to monitor the performance of the development, must be: a) maintained in a proper and efficient Condition; and b) operated in a proper and efficient manner.	Y	Systems are in place for operating equipment and its maintenance. Standard operating procedures and associated training ensures plant and equipment is operated in a proper and efficient manner. Automated regular maintenance/ work orders ensure plant and equipment is maintained in a proper and efficient condition.
A14	References in the Conditions of this consent to any guideline, protocol, Australian Standard or policy are to such guidelines, protocols, Standards or policies in the form they are in as at the date of this consent	N/A	Noted
A15	However, consistent with the Conditions of this consent and without altering any limits or criteria in this consent, the Planning Secretary may, when issuing directions under this consent in respect of ongoing monitoring and management obligations, require compliance with an updated or revised version of such a guideline, protocol, Standard or policy, or a replacement of them.	N/A	Noted
B1	Prior to the commencement of construction of MOD 11 works, the Applicant must prepare a Construction Traffic Management Plan for the development to the satisfaction of the Planning Secretary. The plan must form part of the CEMP required by Condition C2 and must: (a) Be prepared by a suitably qualified and experienced person(s)	Y	The Construction Traffic Management Plan has been completed as part of the Construction Environmental Management Plan for the site.

	(b) Be prepared in consultation with Council (c) Detail the measures that are to be implemented to ensure road safety and network efficiency during construction; (d) Detail heavy vehicle routes, access and parking arrangements; (e) Include a Driver Code of Conduct to: (i) Minimise the impacts of earthworks and construction on the local and regional road network; (ii) Minimise conflicts with other road users; (iii) Minimise road traffic noise; and (iv) Ensure truck drivers use specified routes (f) Include a program to monitor the effectiveness of these measures; and (g) If necessary, detail procedures for notifying residents and the community (including local schools). Of any potential disruptions to routes		
B2	The Applicant must: a) not commence construction until the Construction Traffic Management Plan required by Condition B1 is approved by the Planning Secretary; and b) Implement the most recent version of the Construction Traffic Management Plan approved by the Planning Secretary for the duration of construction.	Y	The Construction Traffic Management Plan has been completed as part of the Construction Environmental Management Plan for the site.
B3	Heavy vehicles travelling inbound or outbound from the site must not utilise Mary Street, St Peters.	Y	Implemented into the Driver's Code of Conduct
B4	The Applicant must comply with the requirements of the RMS and Council regarding the use and any routes of 'B-Double' trucks.	N/A	Noted
B5	The Applicant must meet the full cost of any works required to be carried out by Council, DPI, Sydney Water or the RMS in connection with drainage, crossing, alterations to kerb and guttering, footpaths and roads that may be needed as a result of the development in addition to any such works specified in other Conditions.	N/A	Noted
B6	Prior to the commencement of operation of any of the new infrastructure approved under MOD 11 the Applicant must update	Y	No construction has commenced on site. However, the updated Traffic Management Plan has been incorporated into the EMMP .

	the existing Traffic Management Plan for the development. The plan must be incorporated into the updated EMMP required by Condition C5 of this consent and must: (a) be prepared by a suitably qualified and experienced person(s); (b) be prepared in consultation with Council and the RMS; (c) detail vehicle routes, access and parking arrangements; (d) include details of driver training awareness to minimise noise, in particular from reversing alarms and compression braking; (e) include as Driver Code of Conduct to: (i) minimise conflicts with other road users; (ii) minimise road traffic noise; (iii) ensure truck drivers use specified routes; (iv) ensure no queuing or parking on the local road or footpaths; (v) ensure adherence to all on-site and off-site speed limits; (vi) require all loading and unloading to be undertaken on site; and (vii) require all vehicles to enter and exit the site in a forward direction; (f) include a Heavy Vehicle Management Plan to the satisfaction of Council; and (g) include a program to monitor the effectiveness of these measures.		
B7	The Applicant must: a) not commence operation of any new infrastructure approved under MOD 11 until the operational Traffic Management Plan required by Condition B6 is approved by the Planning Secretary; and b) implement the most recent version of the operational Traffic Management Plan approved by the Planning Secretary for the duration of the development	Y	No construction has commenced on site. However, the updated Traffic Management Plan has been incorporated into the EMMP.
B8	The Applicant must provide sufficient parking facilities on-site, including for heavy vehicles and for site personnel, to ensure that traffic associated with the development does not utilise public and residential streets or public parking facilities	Y	No construction has commenced on site. Parking facilities are in place for all required vehicles onsite.
B9	For all new works approved under MOD 11, the Applicant must ensure: a) internal roads, driveways and parking (including grades, turn paths, sight distance requirements, aisle widths, aisle lengths and	Y	No construction has commenced on site.

	parking bay dimensions) associated with the development are constructed and maintained in accordance with the latest version of AS 2890.1:2004 Parking facilities Off-street car parking (Standards Australia, 2004) and AS 2890.2:2002 Parking facilities Off-street commercial vehicle facilities (Standards Australia, 2002); b) the swept path of the longest vehicle entering and exiting the site, as well as manoeuvrability through the site, is in accordance with the relevant AUSTROADS guidelines; c) the development does not result in any vehicles queuing on the public road network; d) heavy vehicles associated with the development are not parked on local roads or footpaths in the vicinity of the site; e) all vehicles are wholly contained on site before being required to stop; f) all loading and unloading of materials is carried out on-site; g) all trucks entering or leaving the site with loads have their loads covered and do not track dirt onto the public road network.		
B10	All vehicles exiting the site must pass through an operational and efficient wheel wash and/or vibration grid	Y	A wheel wash has been installed on the weighbridge.
B11	Within three months of the determination of MOD 11, the Applicant must investigate and submit a proposal to the Bayside Traffic Committee that recommends the extension of the 'No Stopping' zone along Burrows Road South from the intersection of Burrows Road South and Canal Road toward the development. Evidence of this must be provided to the Planning Secretary within four months of the determination of MOD 11.	Y	Investigations (as a part of Mod 12) found that the existing setback of the "No Stopping" zone was sufficient for the proposed queue lengths, and hence the zone did not require extending.
B11A	Unless the Applicant and Council agree otherwise, the Applicant must pay the full costs associated with works undertaken by Inner West Council to mitigate the impacts of the development on the Burrows Road South / Burrows Road / Ricketty Street / Canal Road intersection. For the purposes of this condition, relevant works include the relocation or removal of parking, line marking and signage. The works must only be related to relieving traffic pressures on the Burrows Road South approach to the intersection with Canal Road.	Y	Noted.

B12	The Applicant must take all reasonable steps to minimise dust generated during all works authorised by this consent.	Y	Refer to Section 3.2.1
B13	During construction, the Applicant must ensure that: a) exposed surfaces and stockpiles are suppressed by regular watering; b) all trucks entering or leaving the site with loads have their loads covered; c) trucks associated with the development do not track dirt onto the public road network; d) public roads used by these trucks are kept clean; and e) land stabilisation works are carried out progressively on site to minimise exposed surfaces.	Y	No construction has commenced on site.
B14	Within three months of the determination of MOD 11, the Applicant must prepare an Air Quality Management Plan (AQMP) to the satisfaction of the Planning Secretary. The AQMP must form part of the updated EMMP required by Condition C5. The AQMP must: (a) be prepared by a suitably qualified and experienced person(s); (b) detail and rank all emissions from all sources of the development, including particulate emissions; (c) identify the control measures that that will be implemented for each emission source; (d) describe a program that can evaluate the performance of the operation and determine compliance with key performance indicators; (e) identify trigger levels for particulates for the real-time off-site dust monitors and response procedures; (f) include all existing dust deposition monitoring and criteria as described in the 'Environmental Management and Monitoring Plan' prepared by EMM dated 28 November 2017 for the site; (g) include historical data from existing dust monitoring gauges; (h) nominate the following for each of the proposed control measures for each emission source: (i) key performance indicator; (ii) monitoring method; (iii) location, frequency and duration of monitoring; (iv) record keeping;		The AQMP is part of the EMMP which has been submitted to the DPIE.

	(v) complaints register; (vi) response procedures; (vii) compliance monitoring; and (i) describe a program for reviewing dust management practices on site to ensure continual improvement in dust management practices and implementation of best practice dust management measures.		
B15	The Applicant must: a) not commence operation of any of the new infrastructure approved under MOD 11 until the Air Quality Management Plan required by Condition B14 is approved by the Planning Secretary; and b) implement the most recent version of the Air Quality Management Plan approved by the Planning Secretary for the duration of the development.	Y	No construction has commenced on site.
B16	Prior to any increase in production at the concrete batching plant (as approved under MOD 11 to this consent) the Applicant must review and improve existing dust control measures on the site to ensure: (a) the premises is maintained in a condition that minimizes the emission of dust and silt loading on paved surfaces; and (b) all reasonable and feasible best practice measures are implemented to minimise dust generated during operations. Evidence of this review and details of any improvements must be submitted to the Secretary for approval prior to any increase in production at the concrete batching plant (as approved under MOD 10 to this consent).	Y	Refer to Section 3.2.1
B17	No stockpile on site should exceed a height of 4m above ground level or the combined height of the concrete barrier and green mesh fencing, whichever is the lesser.	Y	Stockpile height is monitored visually on daily basis to manage stockpile heights below the green mesh fencing.
B18	Within six months of the determination of MOD 11, unless otherwise agreed to by the Planning Secretary, the Applicant must install a wheel wash system at the eastern site entrance.	Y	A wheel wash has been installed at the weighbridge following Mod 10 approval and continues to be operational
B19	Prior to the operation of any new infrastructure approved under MOD 11 the Applicant must establish up to three off-site real-time	Y	No construction has commenced on site, however 3 real time monitors have been installed and are operational on the site. Proactive management practices are being developed.

	dust monitors in the vicinity of sensitive receptors R3 and R4 (as identified in Figure 7.1 of the Environmental Assessment for MOD 11). The monitors must: (a) allow for upwind and downwind measurements; (b) monitor real-time particulate matter concentrations; and (c) be sited in a suitable location agreed to by the Planning Secretary. Monitoring requirements, response trigger criteria and response procedures must be incorporated into the AQMP required by Condition B13.		
B20	Within two months of the determination of MOD 11, the Applicant must submit all historical data from the existing depositional dust gauges to the EPA.	Y	Historical data for the existing depositional dust gauges were sent to the EPA on the 29/03/2019.
B21	The Applicant must comply with the hours detailed in Table 2, unless otherwise agreed in writing by the Planning Secretary. Earthworks & construction: Mon-Fri 7am to 6pm, Sat 8am to 1pm Operation: Mon-Sun 24 hour	N/A	Noted.
B22	Works outside of the hours identified in Condition B21 may be undertaken in the following circumstances: a) works that are inaudible at the nearest sensitive receivers; b) for the delivery of materials required outside these hours by the NSW Police Force or other authorities for safety reasons; or c) where it is required in an emergency to avoid the loss of lives, property or to prevent environmental harm.	Y	No construction has commenced on site.
B23	The development must be constructed to achieve the construction noise management levels detailed in the Interim Construction Noise Guideline (DECC, 2009) (as may be updated or replaced from time to time). All feasible and reasonable noise mitigation measures must be implemented throughout construction.	Y	No construction has commenced on site.
B24	The Applicant must ensure that operational noise from the development does not exceed the noise limits presented in Table 3. Bellevue St: 42dB(A) LAeq(15min) Yelverton St: 44dB(A) LAeq(15min)	Y	No excessive noise has been generated by site operations in the previous year. No noise complaints have been received at the site for the previous reporting year.
B25	Vibration caused by construction at any residence or structure outside the site must be limited to:	Y	No construction has commenced on site.

	a) for structural damage, the latest version of DIN 4150-3 (1992-02) Structural vibration - Effects of vibration on structures (German Institute for Standardisation, 1999); and b) for human exposure, the acceptable vibration values set out in the Environmental Noise Management Assessing Vibration: a technical guideline (DEC, 2006) (as may be updated or replaced from time to time).		
B26	The Applicant must maximise the use of rail freight for quarry product delivery wherever reasonably practicable.	Y	Train deliveries have continued at 3 or 4 trains per day during the reporting period.
B27	The Department may require, at the Applicant's expense, an independent audit of rail use for quarry product delivery if it considers that rail use has not been used wherever reasonably practicable.	N/A	Noted
B28	The Applicant must ensure that the rail siding and ancillary works are maintained to a standard which facilitates their use for materials handling and transport at all times.	N/A	Noted. Regular inspections and maintenance work orders are in place.
B29	Install, maintain suitable erosion and sediment control measures on-site.	N/A	No construction has commenced on site.
B30	The Applicant must ensure all roof and surface storm water from the site and any catchment external to the site that presently drains into the site is collected in a system of pits and pipelines/channels and major storm event surface flow paths and discharged to a Sydney Water controlled storm water drainage system.	Y	Covered in the Surface Water Management Plan, which forms part of the EMMP. Will be addressed for Stage 2 works.
B31	Prior to the commencement of operation of MOD 11 works the Applicant must design, install and operate the upgraded stormwater management system for the development. The system must: (a) be designed by a suitably qualified and experienced person(s); (b) be generally in accordance with the conceptual design in the MOD 11 EA; (c) be in accordance with applicable Australian Standards; and (d) ensure that the system capacity has been designed in accordance with Australian Rainfall and Runoff (Engineers Australia, 2016).	Y	Covered in the Surface Water Management Plan which forms part of the EMMP. Will be addressed for Stage 2 works.

B32	Prior to the commencement of operation of infrastructure works approved under MOD 11, the Applicant must prepare a Surface Water Management Plan to the satisfaction of the Planning Secretary. The Plan must form part of the updated EMMP required by Condition C5 and must: (a) be prepared by a suitably qualified and experienced person(s); (b) describe the surface water management system; (c) be consistent with the surface water management system described in the 'Surface Water Assessment' prepared by EMM on behalf of Boral Resources (NSW) Pty Ltd dated 28 June 2018 (Appendix G of the MOD 11 Environmental Assessment). (d) include a program to monitor: (i) surface water flows and quality; (ii) surface water storage and use; and (iii) sediment basin and bio retention system operation; (e) surface water impact assessment criteria, including trigger levels for investigating and potential adverse surface water impacts; and (f) a protocol for the investigation and mitigation of identified exceedances of the surface water impact assessment criteria; and (g) a maintenance program for all surface water management infrastructure.	Y	Covered in the Surface Water Management Plan which forms part of the EMMP. Will be addressed for Stage 2 works.
B33	Prior to the commencement of operation of infrastructure works approved under MOD 11, the Applicant must update the Flood Emergency Response Plan to the satisfaction of the Planning Secretary. The Plan must form part of the updated EMMP required by Condition C5 and must: (a) be prepared by a suitably qualified and experienced person(s); (b) address the provisions of the Floodplain Risk Management Guideline (OEH, 2007); (c) include details of:	Y	A Flood Emergency Response Plan has been created as part of the EMMP.

	(i) the flood emergency responses for both construction and operation phases of the development; (ii) predicted flood levels; (iii) flood warning time and flood notification; (iv) assembly points and evacuation routes; (v) evacuation and refuge protocols; and (vi) awareness training for employees and contractors.		
B34	The Applicant must: a) not commence operation until the Flood Emergency Response Plan required by Condition B33 is approved by the Planning Secretary; and b) implement the most recent version of the Flood Emergency Response Plan approved by the Planning Secretary for the duration of the development.	Y	A Flood Emergency Response Plan has been created as part of the EMMP.
B35	Buildings, plant, and equipment including material storage areas must be set at a minimum height of 500mm above the 1 % Annual Exceedance Probability (AEP) flood event for Alexandra Canal. Details of existing and proposed site levels and means of providing 500mm freeboard above the 1% AEP flood event must be submitted to Council with the Building Application. Variations below 500mm must only be with the written agreement of Council's Director, Technical Services.	Y	All buildings and plant are as per the conditions.
B36	Prepare a Dewatering Report for the development. The plan must detail the volume of groundwater taken and include details of any impacts (and associated mitigation measures) that have occurred as a result of groundwater take. The report must be submitted to the DoI Lands and Water Division.	Y	Noted. No construction has commenced on site.
B37	Any new works, including additional car parks, within 40 metres of the top of the bank of Alexandra Canal, must consider the requirements of the Guidelines for Riparian Corridors on Waterfront Land (DPI, 2018).	Y	Noted. No construction has commenced on site.
B38	Garbage must be stored in a location approved by Council and be disposed of in an approved manner. All liquid wastes (other than stormwater) must be discharged to the sewer in accordance with the requirements of the Sydney Water Corporation.	Y	All garbage and liquid waste on site are appropriately stored and disposed of in accordance with the consent conditions.

B39	All waste materials associated with the operation of the proposal must be stored in suitably constructed and enclosed containers or similar facilities on the premises in a neat and tidy manner and at all times.	Y	All garbage and liquid waste on site are appropriately stored and disposed of in accordance with the consent conditions.
B40	Prior to the commencement of construction, the Applicant must prepare a Construction and Demolition Waste Management Plan for the development to the satisfaction of the Planning Secretary. The Plan must form part of a CEMP in accordance with Condition C2 and must: (a) detail the quantities of each waste type generated during construction and the proposed reuse, recycling and disposal locations; and (b) be implemented for the duration of construction works.	Y	A Construction and Demolition Waste Management Plan has been created for the development and forms part of the CEMP. However, no construction has commenced on site.
B41	The Applicant must: a) not commence construction until the Construction and Demolition Waste Management Plan is approved by the Planning Secretary. b) implement the most recent version of the Construction and Demolition Waste Management Plan approved by the Planning Secretary.	Y	No construction has commenced on site.
B42	All wash down areas, the truck washing facility and all other areas likely to be contaminated must be isolated from the stormwater drainage system in accordance with the 'Surface Water Assessment' prepared by EMM for Boral Resources (NSW) Pty Ltd dated 28 June 2018 (Appendix G of the MOD 11 Environmental Assessment).	Y	All areas likely to be contaminated are contained for reuse within the concrete batching process.
B43	Prior to any increase in production at the concrete batching plant (as approved under MOD 10 to this consent) the Applicant must submit to the Secretary for approval evidence of best practice refuelling procedures for the refuelling of site-based mobile plant to ensure appropriate containment and management of spills.	N/A	As production on the site has not increased yet, this condition does not yet apply. However, best practice refuelling has been included into the EMMP.
B44	The Applicant must ensure that the quantities of Dangerous Goods present on-site or transported to and from the development are below the screening threshold quantities listed in the Department of Planning's Applying SEPP 33 Guidelines (2011) at all times.	Y	Covered in the sites EPP. See Appendix 1

B45	The Applicant must store all chemicals, fuels and oils used on-site in accordance with: a) the requirements of all relevant Australian Standards; and b) the NSW EPA's Storing and Handling of Liquids: Environmental Protection – Participants Handbook if the chemicals are liquids. In the event of an inconsistency between the requirements listed from (a) to (b) above, the most stringent requirement prevails to the extent of the inconsistency.	Y	Covered in the sites EPP. See Appendix 1
B46	The landscaping of the site must be maintained at all times, to the satisfaction of Council. This includes suitable perimeter landscaping adjacent to Burrows Road South and a 10 metre wide landscaped buffer strip adjacent to the Alexandra Canal.	Y	Quarterly maintenance of landscaped areas along Burrows Road South and Alexandra Canal is conducted by external contractors.
B47	Lighting at the site must not cause hazard to aircraft using Sydney Kingsford Smith airport. Any change in lighting at the site must be undertaken in consultation with and to the approval of Sydney Airport Corporation Limited.		No changes to the lighting on site have occurred in the previous year.
C1	Management plans required under this consent must be prepared in accordance with relevant guidelines, and include: (a) Details of: (i) The relevant statutory requirements (including any relevant approval, licence or lease Conditions); (ii) Any relevant limits of performance measures and criteria; and (iii) The specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of, the development or any management measures (b) A description of the measures to be implemented to comply with the relevant statutory requirements, limits or performance measures and criteria; (c) A program to monitor and report on the: (i) Impacts and environmental performance of the development; and (ii) Effectiveness of the management measures set out pursuant to paragraph (c) above;	N/A	Noted.

	(d) A contingency plan to manage any unpredicted impacts and their consequences and to ensure that ongoing impacts reduce to levels below relevant impact assessment criteria as quickly possible; (e) A program to investigate and implement ways to improve the environmental performance of the development over time; (f) A protocol for managing and reporting any: (i) Incident and any non-compliance (specifically including any exceedance of the impact assessment criteria and performance criteria): (ii) Complaint; (iii) Failure to comply with statutory requirements; and (g) A protocol for periodic review of the plan		
C2	The applicant must prepare a Construction Environmental Management Plan (CEMP) in accordance with the requirements of Condition C1 and to the satisfaction of the Planning Secretary	Y	A Construction Environmental Management Plan has been prepared in accordance with Condition C1.
C3	As part of the CEMP required under Condition C2 of this consent, the Applicant must include the following: 1) Construction Traffic Management Plan 2) Erosion and Sediment Control Plan 3) The Vibration Monitoring Plan, Modification 11, Boral St Peters, prepared by EMM, dated 27 November 2018 4) Construction and Demolition Waste Management Plan 5) Noise Management 6) Dewatering Management; and 7) Community Consultation and Complaints Handling	Y	A Construction Environmental Management Plan has been prepared; however, construction has not commenced on site.
C4	The Applicant must: a) not commence construction of the new infrastructure approved under MOD 11 until the CEMP is approved by the Planning Secretary; and b) carry out the construction of the development in accordance with the CEMP approved by the Planning Secretary and as revised and approved by the Planning Secretary from time to time.	Y	No construction has commenced on site.

C5	Prior to the commencement of operation of any infrastructure works approved under MOD 11, the Applicant must update the existing Environment Management and Monitoring Plan (EMMP) for the site. The updated Plan must show how dust, noise, vibration, traffic and water quality impacts will be measured, monitored, managed and mitigated. The Plan is to include, but not be limited to, the following: (a) A description of the role, responsibility, authority and accountability of key personnel involved in the environmental management of the development; (b) A description of the procedures that would be implemented to: i) Keep the local community and relevant agencies informed about the operation and environmental performance of the development; ii) Receive, handle, respond to and record complaints; iii) Resolve any disputes that may arise; iv) Respond to any non-compliance v) Respond to emergencies; and (c) Baseline background dust, noise and water quality data; (d) A contingency plan to manage any unpredicted impacts and their consequences (e) Refuelling procedures for site-based mobile plant; and (f) The following management plans: (i) Traffic Management Plan (ii) Air Quality Management Plan (iii) Surface Water Management Plan (iv) Flood Emergency Response Plan	Y	The EMMP has been finalised and submitted to the DPIE on 30/04/2019. No construction has commenced on site.
C6	The Applicant must: a) not commence operation of any MOD 11 infrastructure works until the updated EMMP is approved by the Planning Secretary; and b) Operate the development in accordance with the updated EMMP approved by the Planning Secretary (and as revised and approved by the Planning Secretary from time to time).	Y	No construction has commenced on site.

C7	Within three months of: (a) The submission of an Annual Review under Condition xx; (b) The submission of an incident report under Condition xx; (c) The approval of any modification of the conditions of this consent or (d) The issue of a direction of the Planning Secretary, the strategies, plans and programs required under this consent must be reviewed.	Y	The EMMP was reviewed following the submission of the annual review 2020- 2021., and will be reviewed again following submission of the 2022 review.
C8	If necessary, to either improve the environmental performance of the development, cater for a modification or comply with a direction, the strategies, plans and programs required under this consent must be revised, to the satisfaction of the Planning Secretary. Where revisions are required, the revised document must be submitted to the Planning Secretary for approval within six weeks of the review.	N/A	Noted
C9	Within 12 months of the approval of MOD 10, and each subsequent calendar year, the Applicant must review the environmental performance of the development to the satisfaction of the Planning Secretary. This review must: (a) Describe the development that was carried out in the previous calendar year and the development that is proposed to be carried out over the next year; (b) Include a comprehensive review of the monitoring results and complaints records of the development over the previous calendar year, which includes a comparison of these results against the: i. The relevant statutory requirements, limits or performance measures/criteria; ii. Requirements of any plan or program required under this consent; iii. The monitoring results of previous years; and iv. The relevant predictions in the EIS and/subsequent modifications; (c) Identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	Y	This Annual Review satisfies the items of the condition.

	(d) Identify any trends in the monitoring data over the life of the development; (e) Identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and (f) Describe what measures will be implemented over the next year to improve the environmental performance of the development.		
C10	The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. The notification must identify the development (including the development application number and the name of the development if it has one) and set out the location and nature of the incident. Subsequent notification requirements must be given and reports submitted in accordance with the requirements set out in Appendix 2	N/A	Noted. No incidents required reporting for the 2020-2021 period.
C11	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance.	Y	Noted.
C12	A non-compliance notification must identify the development and the application number for it, set out the Condition of consent that the development is non-compliant with, the way in which it does not comply and the reasons for the non-compliance (if known) and what actions have been, or will be, undertaken to address the non-compliance.	Y	Noted.
C13	A non-compliance which has been notified as an incident does not need to also be notified as a noncompliance.	N/A	Noted.
C14	At least 48 hours before the commencement of construction until the completion of all works under this consent the Applicant must: (a) Make the following information and documents (as they are obtained or approved) publically available on its website: (i) All current statutory approvals for the development; (ii) All approved strategies, plans and programs required under the Conditions of this consent;	Y	No construction has commenced on site, however some information is available on the Boral St Peters website.

	(iii) Regular reporting on the environmental performance of the development in accordance with the reporting requirements in any plans or programs approved under the Conditions of this consent (iv) A comprehensive summary of the monitoring results of the development, reported in accordance with the specifications in any Conditions of this consent, or any approved plans and programs; (v) Contact details to enquire about the development or to make a complaint; (vi) A complaints register, updated monthly; (vii) The Compliance Report of the development; (viii) Audit reports prepared as part of any Independent Audit of the development and the Applicant's response to the recommendations in any audit report; (ix) Any other matter required by the Planning Secretary; and (b) Keep such information up to date, to the satisfaction of the Planning Secretary		

5 Comparison of impacts and performance against environmental assessment predictions

Table 3: Boral St Peters concrete plant and materials handling facility performance against EA predictions

Impact	EA Prediction	Performance During Reporting Period November 2020 – October 2021
Air Quality	Annual average increase of particulate matter deposition at sensitive receptors R3 and R4 of 3.0-3.7 g/m^2/month due to the modification of consent conditions.	The mean results during the reporting period for Site 1, Site 3 and Site 4 were 2.41 g/m^2/mth, 3.64 g/m^2/mth and 12.15 g/m^2/mth, respectively, for insoluble solids. In comparison with the calendar year prior to the consent approval, this indicates a decrease in dust concentrations at Sites 1,3 and 4 when compared to the previous 12 months (Nov 2020 – Oct 2021) Mean dust deposition results are above the EPA Guidelines of 4 g/m^2/mth for one of the three locations; however, the predictions of the EA conducted by EMM in June 2016 indicated a predicted increase in deposited particulate matter of 3.0 – 3.7 g/m^2/mth near sensitive receptors R3 and R4 due to the consent modification and the surrounding environment. The directional dust gauge 3A located directly adjacent to Site 3 indicated that the majority of the deposited dust during the reporting period came from an easterly (4.52 g/m^2/mth) direction where there are several offsite dust generating activities including Transfleet container terminal, Visy recycling centre and a carpark for Sydney Airport Corporation Limited (SACL) staff members to the west of the site. The dust deposition results from the north (3.93 g/m^2/mth) were slightly lower. The dust deposition results from the west (2.13 g/m2/mth) and south (3.00 g/m2/mth) were slightly higher than the previous year. These results however do show a decrease over the last several reporting years.
Water	• The modification is not anticipated to affect the sites surface water management system and its performance. • The increase in concrete production from the CBP would result in a minor increase in water demand, which would be met by either recycled water from the site or potable water.	The surface water management system has not been affected as there has not been an increase to production during this reporting period.

6 Non-compliance and corrective actions

No non-compliances against the Conditions of Consent were observed during the reporting period.

7 Monitoring data trends

The only ongoing monitoring data trends available for the project are those for gravimetric dust deposition at monitoring Sites 1, 3 and 4, as outlined below.

7.1 Air Quality

During the reporting period the annual average for insoluble solids at the deposited dust monitoring site 4 was above the NSW EPA criteria of 4 g/m^2/month. It is noted that this criterion is intended to be applied to offsite sensitive receptors, however this gauge is located on the operating site and is on occasions influenced by very localised dust generating activities. There is also the potential for the onsite dust gauge results to be influenced by offsite dust generating activities.

Gauges at site 4 are in close proximity to Burrows Road South where there is potential for exposure to dust generated by industrial activities and vehicle movements not associated with the concrete plant or materials handling facility. Dust gauges at site 4 are located along the western site boundary with the potential for exposure to dust generating activities and truck movements associated with the Visy recycling centre, and the Transfleet container terminal. To that extent, the recorded fallout rates are not necessarily representative of off-site dust levels or even widespread dust concentrations on the site.

A wheel wash on the weighbridge assists with fugitive dust along Burrows Road South. Combined with this, an increased number of sprinklers have also been installed on the site to help mitigate dust. However, even though there was a reduced level of dust during the reporting period, it was not enough to be below the NSW EPA criteria of 4 g/m^2/month, for all sites.

The implementation of the site EPP for the concrete plant and materials handling facility has increased the awareness and accountability for Boral staff and Managers to implement dust mitigation strategies in line with the current consent conditions. This increased awareness has been proven with the increase of dust mitigation activities on site, and the subsequent decrease of dust recorded in the dust gauges for the reporting period. Dust mitigation tasks incorporated in the EPPs include:

- All vehicles carrying materials to or from sites must have their loads covered.
- Ensure the site is maintained in a condition that minimises the emission of dust and silt loading on paved surfaces.
- Dust generation on paved surfaces should be controlled through regular sweeping, water flushing and water sprays; and
- Inspection of dust controls including checking water sprays, water cart and raw material storage.

Modification 11 proposes an additional two alleys on the existing concrete plant, as well as return conveyors to the terminal stockpiles. As a result, on site vehicles movements will decrease and hence Boral is expecting a further decrease in dust generation.

Figures 2, 3 and 4 provide a graphical representation of Sites 1, 3 and 4 gravimetric dust monitoring results in the current reporting period and previous calendar years in its entirety. The current reporting period saw a decrease in dust concentrations compared to the previous period, at two dust gauge locations (Sites 1 and 3). Both sites have shown a decreasing trend, indicating that the current dust mitigation measures on site are effective. Dust levels have increased at Site 4 in association with works occurring on adjacent land not owned and operated by Boral. Real time monitoring will assist in understanding the nature of dust emissions.

Overall, a further decreasing trend is expected for all 3 sites next reporting period. ,

Figure 2 – St Peters Deposited Dust Results March 2016 – October 2022 – Site 1

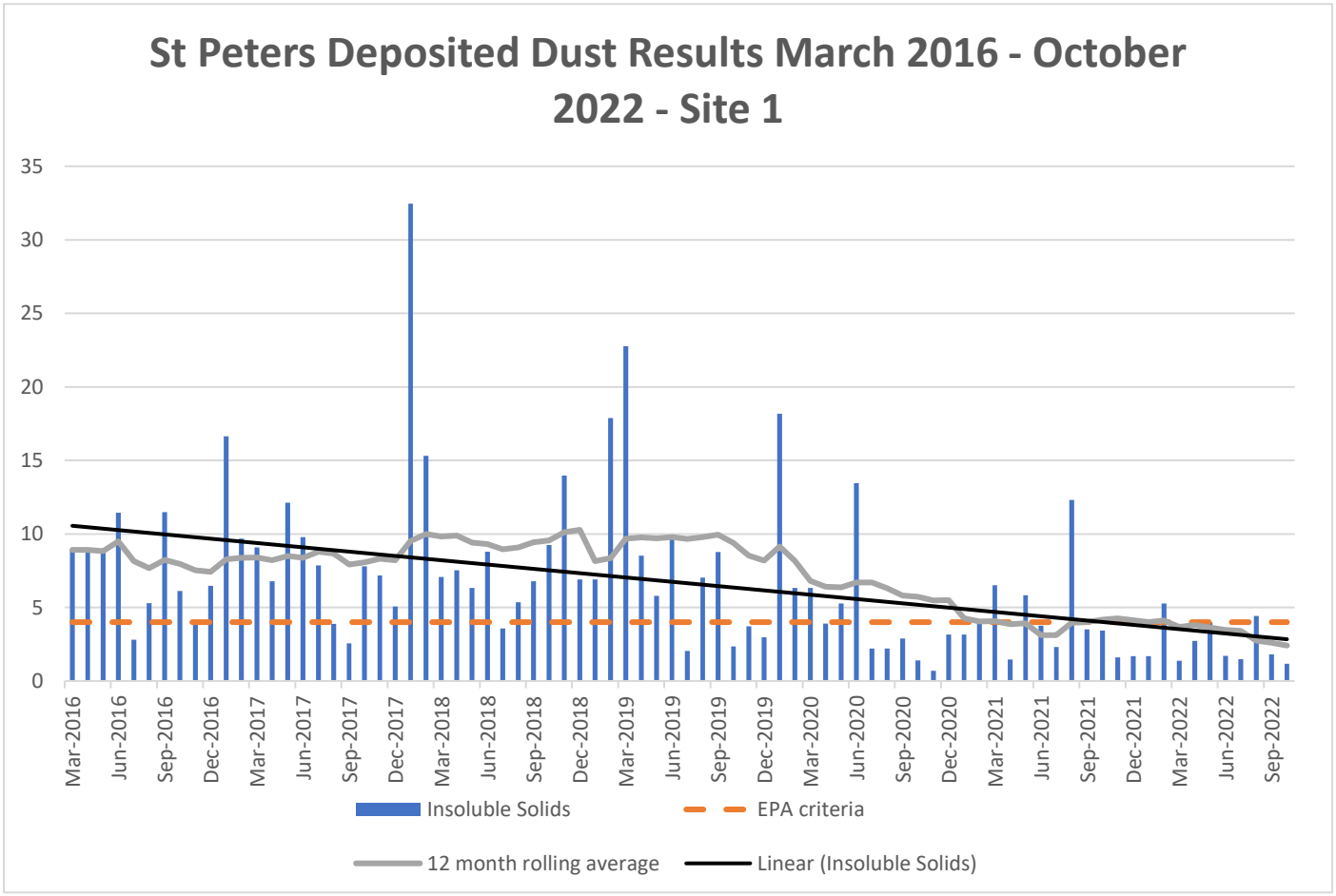


Figure 3 - St Peters Deposited Dust Results March 2016 – October 2022 – Site 3

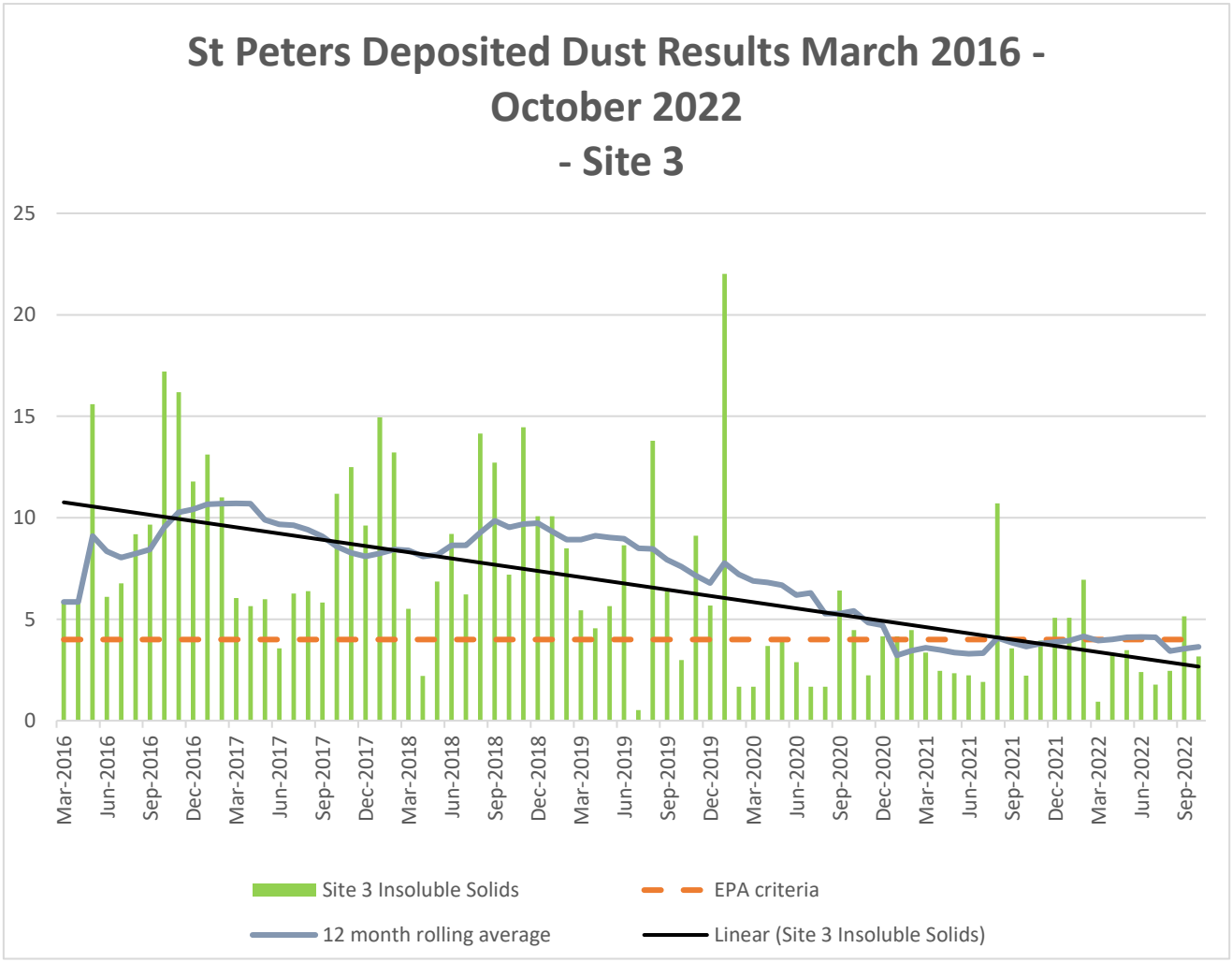
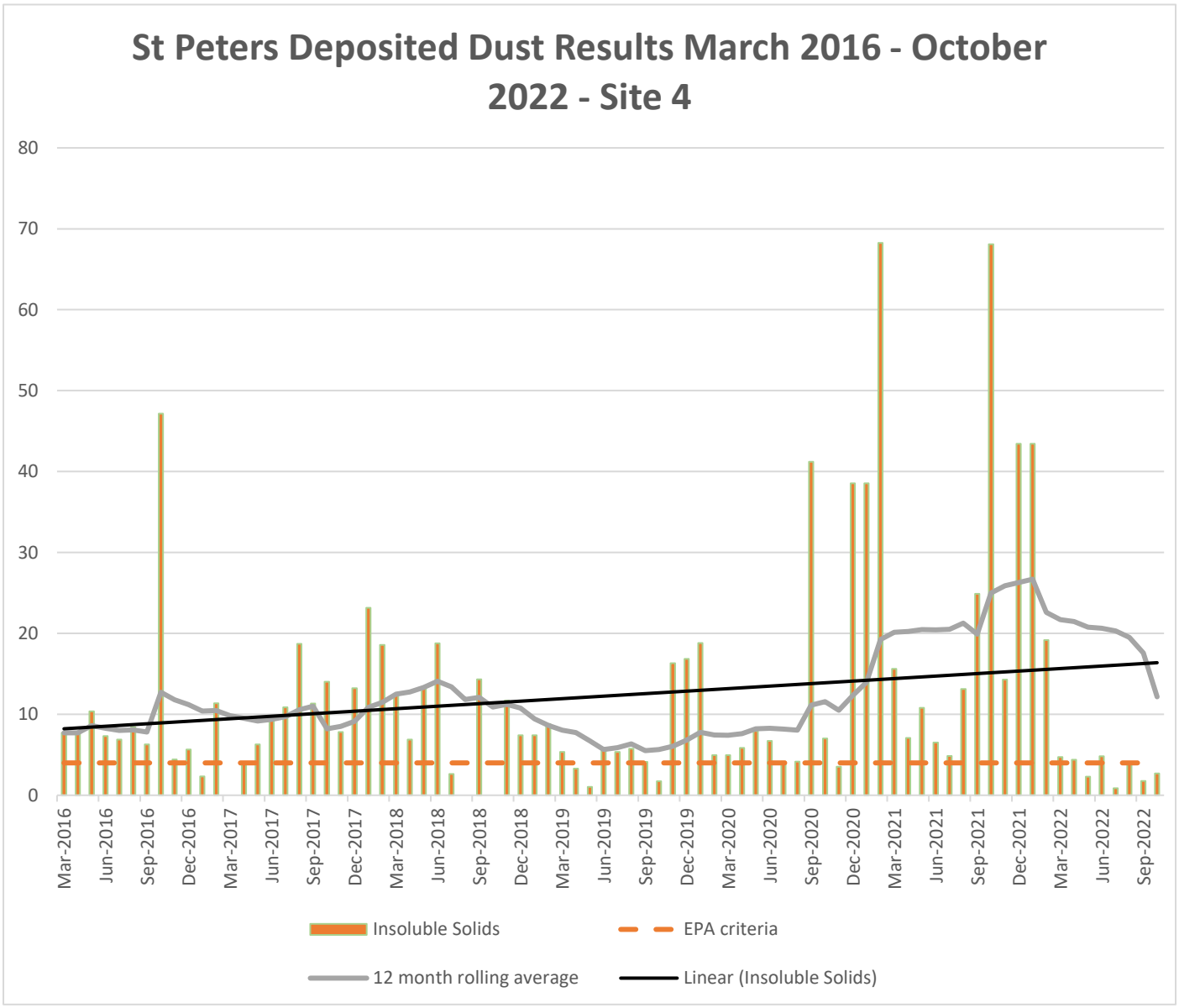


Figure 4 - St Peters Deposited Dust Results March 2016 – October 2022 – Site 4



8 Environmental management targets and strategies for the following 12 months

8.1 Dust minimisation

The site has implemented reasonable and feasible strategies to minimise dust on the site. This includes sprays on stockpiles, daily water cart use on internal sealed roads, material handling and loading in underground or enclosed conveyors and load bays, manual cleaning of the site by way of shovelling, sweeping or hosing and the implementation of traffic controls such as speed limits to reduce the suspension of dust particles.

A wheel wash has been installed near the eastern site entrance / exit to reduce fugitive dust emissions from the site in recognition of the requirements in condition B10 of the consent.

Upgrades to the site as presented in Modification 11 aim to reduce fugitive dust generation through the reduction of onsite truck movements in the materials handling facility area.

Real time dust monitoring protocols will be implemented and trialled over the current reporting period.

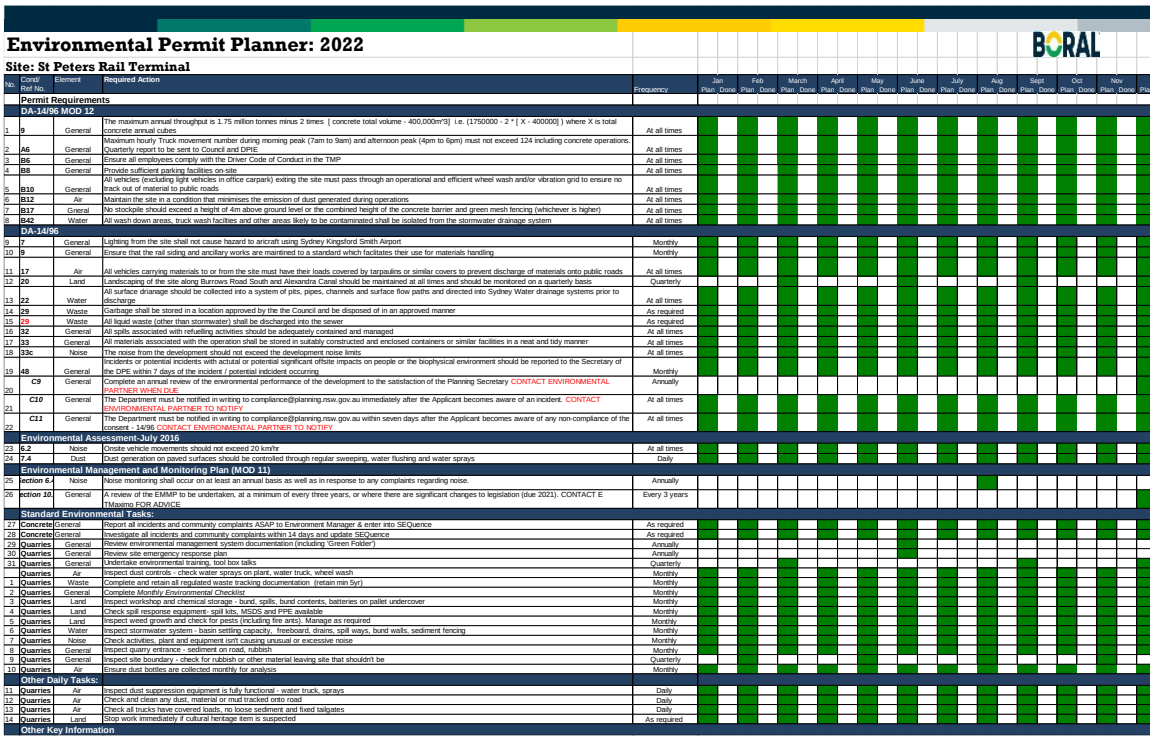
8.2 Water management

The water detention basins will be managed to maximise freeboard capacity in preparation for storm events. Water will continue to be treated and used where possible for dust suppression around site.

8.3 Future development applications

In accordance with the approval of Modification 11, the site is to install 2 additional load alleys at the existing concrete plant as well as various other site upgrades that will assist with the increase of concrete being produced, as well as minimise the impact to the surrounding environment. The timing of the modification works is yet to be determined.

Appendix 1: St Peters concrete plant and terminal EPP



Environmental Permit Planner: 2022

Site: St Peters Rail Terminal

No.	Cond/ Ref No.	Element	Required Action	Frequency	Jan Plan	Jan Done	Feb Plan	Feb Done	March Plan	March Done	April Plan	April Done	May Plan	May Done	June Plan	June Done	July Plan	July Done	Aug Plan	Aug Done	Sept Plan	Sept Done	Oct Plan	Oct Done	Nov Plan	Nov Done	Pla
	Permit Requirements																										
	DA-14/96 MOD 12																										
1	**9**	General	The maximum annual throughput is 1.75 million tonnes minus 2 times [concrete total volume - 400,000m^3] i.e. (1750000 - 2 * [X - 400000]) where X is total concrete annual cubes	At all times																							
2	**A6**	General	Maximum hourly Truck movement number during morning peak (7am to 9am) and afternoon peak (4pm to 6pm) must not exceed 124 including concrete operations. Quarterly report to be sent to Council and DPIE	At all times																							
3	**B6**	General	Ensure all employees comply with the Driver Code of Conduct in the TMP	At all times																							
4	**B8**	General	Provide sufficient parking facilities on-site	At all times																							
5	**B10**	General	All vehicles (excluding light vehicles in office carpark) exiting the site must pass through an operational and efficient wheel wash and/or vibration grid to ensure no track out of material to public roads	At all times																							
6	**B12**	Air	Maintain the site in a condition that minimises the emission of dust generated during operations	At all times																							
7	**B17**	Gneral	No stockpile should exceed a height of 4m above ground level or the combined height of the concrete barrier and green mesh fencing (whichever is higher)	At all times																							
8	**B42**	Water	All wash down areas, truck wash facilities and other areas likely to be contaminated shall be isolated from the stormwater drainage system	At all times																							
	DA-14/96																										
9	**7**	General	Lighting from the site shall not cause hazard to aircraft using Sydney Kingsford Smith Airport	Monthly																							
10	**9**	General	Ensure that the rail siding and ancillary works are maintined to a standard which facilitates their use for materials handling	Monthly																							
11	**17**	Air	All vehicles carrying materials to or from the site must have their loads covered by tarpaulins or similar covers to prevent discharge of materials onto public roads	At all times																							
12	**20**	Land	Landscaping of the site along Burrows Road South and Alexandra Canal should be maintained at all times and should be monitored on a quarterly basis	Quarterly																							
13	**22**	Water	All surface drianage should be collected into a system of pits, pipes, channels and surface flow paths and directed into Sydney Water drainage systems prior to discharge	At all times																							
14	**29**	Waste	Garbage shall be stored in a location approved by the the Council and be disposed of in an approved manner	As required																							
15	29	Waste	All liquid waste (other than stormwater) shall be discharged into the sewer	As required																							
16	**32**	General	All spills associated with refuelling activities should be adequately contained and managed	At all times																							
17	**33**	General	All materials associated with the operation shall be stored in suitably constructed and enclosed containers or similar facilities in a neat and tidy manner	At all times																							
18	**33c**	Noise	The noise from the development should not exceed the development noise limits	At all times																							
19	**48**	General	Incidents or potential incidents with actutal or potential significant offsite impacts on people or the biophysical environment should be reported to the Secretary of the DPE within 7 days of the incident / potential indicident occurring	Monthly																							
20	***C9***	General	Complete an annual review of the environmental performance of the development to the satisfaction of the Planning Secretary CONTACT ENVIRONMENTAL PARTNER WHEN DUE	Annually																							
21	***C10***	General	The Department must be notified in writing to compliance@planning.nsw.gov.au immediately after the Applicant becomes aware of an incident. CONTACT ENVIRONMENTAL PARTNER TO NOTIFY	At all times																							
22	***C11***	General	The Department must be notified in writing to compliance@planning.nsw.gov.au within seven days after the Applicant becomes aware of any non-compliance of the consent - 14/96 CONTACT ENVIRONMENTAL PARTNER TO NOTIFY	At all times																							
	Environmental Assessment-July 2016																										
23	**6.2**	Noise	Onsite vehicle movements should not exceed 20 km/hr	At all times																							
24	**7.4**	Dust	Dust generation on paved surfaces should be controlled through regular sweeping, water flushing and water sprays	Daily																							
	Environmental Management and Monitoring Plan (MOD 11)																										
25	***ection 6.4***	Noise	Noise monitoring shall occur on at least an annual basis as well as in response to any complaints regarding noise.	Annually																							
26	***ection 10***	General	A review of the EMMP to be undertaken, at a minimum of every three years, or where there are significant changes to legislation (due 2021). CONTACT E TMaximo FOR ADVICE	Every 3 years																							
	Standard Environmental Tasks:																										
27	**Concrete**	General	Report all incidents and community complaints ASAP to Environment Manager & enter into SEQuence	As required																							
28	**Concrete**	General	Investigate all incidents and community complaints within 14 days and update SEQuence	As required																							
29	**Quarries**	General	Review environmental management system documentation (including 'Green Folder')	Annually																							
30	**Quarries**	General	Review site emergency response plan	Annually																							
31	**Quarries**	General	Undertake environmental training, tool box talks	Quarterly																							
	Quarries	Air	Inspect dust controls - check water sprays on plant, water truck, wheel wash	Monthly																							
1	**Quarries**	Waste	Complete and retain all regulated waste tracking documentation (retain min 5yr)	Monthly																							
2	**Quarries**	General	Complete *Monthly Environmental Checklist*	Monthly																							
3	**Quarries**	Land	Inspect workshop and chemical storage - bund, spills, bund contents, batteries on pallet undercover	Monthly																							
4	**Quarries**	Land	Check spill response equipment- spill kits, MSDS and PPE available	Monthly																							
5	**Quarries**	Land	Inspect weed growth and check for pests (including fire ants). Manage as required	Monthly																							
6	**Quarries**	Water	Inspect stormwater system - basin settling capacity, freeboard, drains, spill ways, bund walls, sediment fencing	Monthly																							
7	**Quarries**	Noise	Check activities, plant and equipment isn't causing unusual or excessive noise	Monthly																							
8	**Quarries**	General	Inspect quarry entrance - sediment on road, rubbish	Monthly																							
9	**Quarries**	General	Inspect site boundary - check for rubbish or other material leaving site that shouldn't be	Quarterly																							
10	**Quarries**	Air	Ensure dust bottles are collected monthly for analysis	Monthly																							
	Other Daily Tasks:																										
11	**Quarries**	Air	Inspect dust suppression equipment is fully functional - water truck, sprays	Daily																							
12	**Quarries**	Air	Check and clean any dust, material or mud tracked onto road	Daily																							
13	**Quarries**	Air	Check all trucks have covered loads, no loose sediment and fixed tailgates	Daily																							
14	**Quarries**	Land	Stop work immediately if cultural heritage item is suspected	As required																							
	Other Key Information																										

Appendix 2: Boral HSEQ environment inspection checklist

Environment Inspection Checklist GRP-HSEQ-3-03-F04

This checklist must be completed once a month, by an allocated person as decided by the Site Management. Actions arising from the inspection are to be listed in the spaces provided below, uploaded to SIMs and tracked by Site Managers. All completed checklists showing signed-off actions must be kept on file.

Division: *(BCM, BBP, Cement)*		**Business Unit:** *(Quarries)*		**Date of Inspection:**	
Site:					
Inspector Name:			**Signature:**		

Item	Checklist Item	Status			Comments
		C	NC	N/A	
GENERAL REQUIREMENTS					
1.	Inspect site entrance - *document sediment on road, rubbish, drag out – action clean up*				
2.	Inspect site boundary, *fence un-broken, fire tracks cleared as required etc.*				
3.	Check extraction boundaries are marked out and intact *(select N/A if not required)*				
4.	Emergency Response Plan (or PIRMP) up to date, tested and staff trained in the plan.				
WATER MANAGEMENT					
5.	Is there any water being discharged from the site, is it 'clear', has it been sampled? – *pH recorded, any exceedances (less than 6.5 more than 8.5 entered into SIMs as an environmental incident*				
6.	Inspect stormwater system - *basin settling capacity, drains, spill ways, bund walls, and are they clear from litter and sediment? Are they leaking?*				
7.	Are site wedge pits and first flush pits maintained, and free from sediment build up				
8.	No evidence of leaks (from taps/water lines and tanks)				
LAND MANAGEMENT					
9.	Any spills added to the site Contaminated Land Register				
10.	No vegetation cleared without approval as per GRP-HSEQ-8-03 Land Management				
WASTE MANAGEMENT					
11.	Designated Waste areas/bins available and labelled - *Recyclables (Cans, bottles, paper, steel and copper)* - *Oily waste (Rags, filters, empty containers)* - *General waste / Other*				
12.	Waste Register/ Records maintained and up to date detailing; *Waste Sources Quantities, Disposal Methods, Disposal Routes, location facility.*				
13.	No evidence of illegal dumping and stockpiling of waste on site – *report any to HSE*				
14.	Area tidy – good general housekeeping and no evidence of littering and rubbish.				
NOISE MANAGEMENT					
15.	Check activities, plant and equipment isn't causing un-usual or excessive noise				
16.	All noise complaints discussed at toolbox/pre start meetings recorded in SIMs. *Include SIMS numbers.*				
AIR MANAGEMENT					

Item	Checklist Item	Status			Comments
		C	NC	N/A	
17.	Dust / Odour complaints managed & brought up at next day's pre-start meetings and uploaded to SIMs. *Include SIMs number*				
18.	Air impacts included in recent SWMs				
19.	Dust controls in place and in working order such as – *Water Sprays, Water Carts, Bag Filters, Enclosed Equipment etc. record any broken, unworking systems or areas that require maintenance*				
20.	No Air Emission from broken down plant and machinery				
HYDROCARBON / SPILL MANAGEMENT					
21.	Spill response equipment available and full - *spill kits, MSDS, PPE*				
22.	Bunds used for the storage of Dangerous Goods *Able to capture 110% of stored liquid.*				
23.	Are bunds clean and free of liquids? *Bund not filled with rain water and able to hold storage within tanks*				
24.	Bund drain valves (if fitted) are closed and locked				
25.	Flammable liquids stored in designated area fitted with dry chemical or carbon dioxide extinguisher				
26.	Hydrocarbons (including waste containers) are clearly labelled, sealed and returned to bund/cabinet after use. *No fuel containers/paint tins lying around site.*				
27.	Batteries are stored on pallet above ground				
28.	Storage areas are appropriately signed				
29.	No evidence of spills/ contamination that have not been cleaned up				
30.	Any spills entered into SIMS *include SIMS number in comments.*				
31.	Underground Storage Tanks (USTs) – *Leak tested in the past 12 months, include date of last test, visually inspect integrity (no leaks)*				
32.	Above Ground Storage Tanks (ASTs) – *No visible leaks include in comments condition of valves, pumps, lines, and correct signage.*				
FLORA AND FAUNA MANAGEMENT					
33.	No major infestations of Weeds and Feral animals.				
34.	No evidence of animal interaction on site, No animals being fed on site. Any wildlife found on site communicated to site supervisor and wildlife hotline contacted for injured wildlife.				
HERITAGE MANAGEMENT					
35.	Any known heritage sites documented to staff, flagged on site and included in induction.				

Environment Inspection Checklist GRP-HSEQ-3-03-F04

Detail any items that require attention and/or remedial action. Actions are to be uploaded to SIMS as incident type 'Environmental'. The Site Manager must monitor progress and completion of actions.

Finding/Actions Required					
Item No.	Comment	Action Taken	By Who	By When	SIMs No.

Appendix 3: Heavy truck Movements

Heavy Truck Movements Boral St Peters Concrete Batching Plant & Materials Handling Facility November 2021 – October 2022				
For the requirement of DA 14/96 Mod 12 – Condition A6				
Maximum hourly Heavy Vehicle Movements from Concrete Batching Plant (one way only)				
Period		**Hourly Two-way Movements**		
7 am - 9 am		**124**		
4pm – 6pm		**124**		
Date	**7am-8am**	**8am-9am**	**4pm-5pm**	**5pm-6pm**
1-Nov	50	50	36	38
2-Nov	60	54	16	14
3-Nov	46	64	16	2
4-Nov	70	58	2	0
5-Nov	36	46	0	0
6-Nov	48	32	2	0
7-Nov	0	0	0	0
8-Nov	44	74	2	0
9-Nov	82	50	36	22
10-Nov	66	64	0	2
11-Nov	60	38	6	2
12-Nov	16	16	10	4
13-Nov	24	42	0	0
14-Nov	4	2	0	0
15-Nov	42	54	30	14
16-Nov	42	44	20	22
17-Nov	70	56	26	8
18-Nov	72	54	20	20
19-Nov	74	38	44	18
20-Nov	48	54	0	0
21-Nov	2	0	0	0
22-Nov	64	66	26	16
23-Nov	58	30	26	10
24-Nov	60	44	26	18
25-Nov	58	56	22	6
26-Nov	28	18	6	2
27-Nov	10	16	4	4
28-Nov	0	0	0	0
29-Nov	32	54	18	0
30-Nov	62	42	4	2
1-Dec	48	48	32	18

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
2-Dec	70	52	16	18
3-Dec	68	60	6	4
4-Dec	54	42	0	0
5-Dec	0	0	0	0
6-Dec	30	22	4	2
7-Dec	8	20	6	0
8-Dec	18	36	2	4
9-Dec	24	48	14	6
10-Dec	56	62	12	8
11-Dec	58	50	2	0
12-Dec	2	0	2	0
13-Dec	58	46	22	8
14-Dec	62	48	16	8
15-Dec	52	66	32	4
16-Dec	56	52	32	8
17-Dec	80	64	30	12
18-Dec	72	54	2	0
19-Dec	4	8	0	0
20-Dec	56	60	36	16
21-Dec	44	60	28	12
22-Dec	68	38	20	2
23-Dec	44	56	0	0
24-Dec	18	16	0	0
25-Dec	0	0	0	0
26-Dec	0	0	0	0
27-Dec	0	0	0	0
28-Dec	0	0	0	0
29-Dec	0	4	0	0
30-Dec	14	14	0	0
31-Dec	24	16	0	0
1-Jan	0	0	0	0
2-Jan	0	0	0	0
3-Jan	0	0	0	0
4-Jan	16	20	4	0
5-Jan	6	6	0	0
6-Jan	16	22	2	0
7-Jan	10	24	0	0
8-Jan	10	12	0	0
9-Jan	2	2	0	0
10-Jan	42	40	6	6
11-Jan	40	42	12	0
12-Jan	30	40	8	10
13-Jan	22	28	0	6
14-Jan	32	34	26	10
15-Jan	28	38	0	0

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
16-Jan	0	0	0	0
17-Jan	48	54	0	0
18-Jan	62	50	8	4
19-Jan	26	24	0	0
20-Jan	48	52	12	2
21-Jan	76	84	4	4
22-Jan	66	72	0	0
23-Jan	0	0	0	0
24-Jan	74	64	20	4
25-Jan	74	68	32	8
26-Jan	0	0	0	0
27-Jan	40	32	0	0
28-Jan	46	46	6	0
29-Jan	36	34	0	0
30-Jan	0	0	0	0
31-Jan	20	36	10	2
1-Feb	62	48	6	6
2-Feb	54	32	4	0
3-Feb	34	60	14	2
4-Feb	62	42	20	6
5-Feb	46	46	6	8
6-Feb	4	0	4	2
7-Feb	46	68	38	2
8-Feb	53	50	14	4
9-Feb	66	58	22	4
10-Feb	68	54	22	6
11-Feb	78	84	14	12
12-Feb	44	46	0	0
13-Feb	0	0	0	0
14-Feb	58	66	4	6
15-Feb	56	62	38	6
16-Feb	68	44	30	4
17-Feb	64	74	30	2
18-Feb	68	70	6	0
19-Feb	58	62	0	0
20-Feb	0	0	0	0
21-Feb	56	40	16	0
22-Feb	34	40	0	0
23-Feb	18	24	2	0
24-Feb	32	32	0	0
25-Feb	22	16	0	0
26-Feb	14	20	0	0
27-Feb	6	4	0	0
28-Feb	28	3	0	0
1-March	24	20	0	0

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
2-March	4	6	0	0
3-March	12	10	0	0
4-March	20	28	2	0
5-March	20	46	0	0
6-March	2	4	0	0
7-March	22	20	2	0
8-March	10	4	0	0
9-March	22	42	16	0
10-March	58	64	12	6
11-March	52	42	20	6
12-March	60	46	0	0
13-March	0	0	0	0
14-March	42	46	16	16
15-March	24	40	10	2
16-March	34	34	2	0
17-March	24	30	14	6
18-March	42	42	16	4
19-March	48	48	6	0
20-March	0	0	0	0
21-March	26	42	10	0
22-March	36	42	20	0
23-March	52	42	10	0
24-March	50	42	4	2
25-March	34	24	8	0
26-March	40	60	4	0
27-March	0	0	0	0
28-March	36	46	10	0
29-March	28	30	2	0
30-March	22	34	18	2
31-March	32	48	4	0
1-April	36	26	2	0
2-April	34	42	2	2
3-April	0	0	2	2
4-April	78	38	34	14
5-April	50	50	50	8
6-April	48	56	4	0
7-April	12	4	0	0
8-April	18	16	6	2
9-April	32	32	0	0
10-April	0	0	0	0
11-April	56	52	4	0
12-April	53	44	38	20
13-April	44	34	14	6
14-April	48	54	4	2
Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*

15-April	0	0	0	0
16-April	0	0	0	0
17-April	0	0	0	0
18-April	0	0	0	0
19-April	30	46	0	0
20-April	42	60	10	6
21-April	52	64	18	6
22-April	34	44	4	0
23-April	28	24	0	0
24-April	0	0	0	0
25-April	0	0	0	0
26-April	24	20	6	0
27-April	50	38	0	0
28-April	50	32	16	0
29-April	38	40	16	6
30-April	30	36	0	2
1-May	0	0	0	0
2-May	62	62	12	6
3-May	42	52	12	0
4-May	42	40	28	6
5-May	42	46	6	6
6-May	38	46	20	4
7-May	64	40	0	0
8-May	8	6	6	2
9-May	50	36	14	0
10-May	50	48	4	0
11-May	48	50	2	12
12 -May	24	48	6	2
13 -May	22	38	22	6
14-May	44	42	0	0
15-May	0	0	0	0
16-May	38	42	24	4
17-May	38	36	8	0
18-May	44	32	34	22
19-May	50	38	48	30
20-May	34	40	0	6
21-May	46	48	0	2
22-May	0	0	0	0
23-May	38	48	6	6
24-May	36	50	32	10
25-May	36	28	30	22
26-May	50	52	10	4
27-May	58	44	24	4
28-May	42	46	0	0
29-May	0	4	0	0
30-May	44	40	46	24

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
31 -May	46	54	22	2
1- June	40	46	6	2
2 -June	44	48	26	12
3-June	40	82	14	0
4 -June	50	60	2	0
5 -June	4	4	0	2
6 -June	32	50	0	0
7 -June	34	62	32	14
8- June	44	50	22	2
9 -June	38	40	30	10
10- June	46	44	8	0
11 -June	26	28	0	0
12 -June	0	0	0	0
13 -June	0	0	0	0
14 -June	38	36	4	0
15 -June	52	54	22	12
16 -June	30	38	40	16
17 -June	68	38	4	4
18 -June	60	48	0	0
19 -June	4	4	2	0
20 -June	40	48	4	2
21 -June	62	54	22	14
22 -June	28	66	6	4
23 -June	48	54	20	8
24 -June	60	46	34	10
25 -June	40	38	0	0
26 -June	4	2	0	0
27 -June	46	56	24	6
28 -June	60	38	30	6
29 -June	44	46	18	0
30 -June	52	48	22	2
1 -July	22	40	0	0
2 -July	6	6	0	0
3 -July	0	4	0	0
4 -July	4	4	0	2
5 -July	10	18	2	2
6 -July	8	10	8	0
7 -July	20	44	10	2
8 -July	52	52	12	2
9 -July	32	34	0	0
10- July	0	0	0	0
11 -July	46	42	4	0
12 -July	44	52	26	2
13- July	56	46	8	0
14 -July	32	32	12	0

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
15 -July	48	32	10	6
16 -July	42	54	0	0
17 -July	0	2	2	2
18 -July	56	44	22	4
19 -July	50	48	6	2
20 -July	14	26	0	0
21 -July	38	48	10	2
22 -July	26	46	0	2
23 -July	30	20	0	0
24 -July	2	0	0	0
25 -July	36	48	28	2
26 -July	30	40	12	0
27 -July	56	50	18	0
28 -July	36	50	7	4
29 -July	56	64	12	8
30 -July	38	60	0	0
31 -July	2	0	0	0
1-August	28	18	8	4
2-August	56	54	26	14
3-August	56	58	56	16
4-August	62	48	12	0
5-August	62	56	14	0
6-August	60	46	2	0
7-August	0	0	0	0
8-August	58	70	22	6
9-August	22	12	0	2
10-August	24	20	4	0
11-August	18	18	4	0
12-August	16	18	2	0
13-August	48	46	0	0
14-August	0	0	0	0
15-August	46	72	20	4
16-August	60	46	24	2
17-August	42	60	24	12
18-August	54	54	16	6
19-August	48	62	10	2
20-August	54	48	0	0
21-August	4	2	0	0
22-August	60	50	18	6
23-August	30	46	12	2
24-August	46	56	24	10
25-August	38	38	6	4
26-August	52	48	26	20
27-August	52	42	0	0
28-August	0	0	0	0

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
29-August	42	52	6	4
30-August	50	52	16	2
31-August	60	54	12	2
1- Sept	50	36	10	8
2- Sept	50	54	6	4
3- Sept	34	32	0	0
4- Sept	0	0	0	0
5- Sept	36	42	20	6
6- Sept	20	28	16	4
7- Sept	30	32	12	10
8- Sept	34	58	20	4
9- Sept	24	14	0	0
10- Sept	14	16	0	0
11- Sept	0	0	0	0
12- Sept	14	18	0	0
13- Sept	50	46	30	16
14- Sept	54	60	14	20
15- Sept	42	50	4	2
16- Sept	52	62	6	0
17- Sept	54	74	4	0
18- Sept	0	0	0	0
19- Sept	52	44	24	2
20- Sept	62	38	34	26
21- Sept	64	46	0	2
22- Sept	0	2	0	0
23- Sept	40	74	10	4
24- Sept	48	54	0	2
25- Sept	0	0	0	0
26- Sept	40	46	16	4
27- Sept	80	62	16	0
28- Sept	42	54	4	6
29- Sept	46	72	20	6
30- Sept	44	46	10	6
1 -Oct	26	22	0	0
2 -Oct	0	0	0	0
3 -Oct	0	0	0	0
4 -Oct	46	42	18	4
5 -Oct	66	80	8	2
6 -Oct	14	20	14	4
7 -Oct	16	32	0	2
8 -Oct	10	28	0	0
9 -Oct	46	38	0	0
10 -Oct	52	70	14	0
11-Oct	22	32	6	0
12 -Oct	16	24	8	2

Date	7am-8am*	8am-9am*	4pm-5pm*	5pm-6pm*
13 -Oct	52	40	4	4
14 -Oct	46	54	4	6
15 -Oct	56	48	0	0
16 -Oct	0	0	0	0
17 -Oct	22	26	6	2
18 -Oct	58	58	18	16
19 -Oct	32	58	38	6
20 -Oct	44	46	18	8
21 -Oct	18	54	6	4
22 -Oct	54	36	2	0
23 -Oct	0	0	0	0
24 -Oct	20	24	0	0
25 -Oct	40	60	10	0
26 -Oct	16	14	2	0
27 -Oct	54	48	22	8
28 -Oct	62	74	6	6
29 -Oct	38	76	4	0
30 -Oct	0	0	0	0
31 -Oct	50	50	12	2