

Tuesday, 8 March 2022

**Sally Munk**

Principal Planning Officer - Industry Assessments

Planning Services Division - NSW Department of Planning and Environment

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Dear Sally

**Boral Berrima Cement (DA 401-11-2002-i) – Condition 1.4CA Storage acceptance and Notification of chipped Tyre Trial – First Monthly Status Report**

Condition 1.4CA of the Kiln 6 development approval from the Department of Planning, Industry and Environment (DPIE) states that a single trial of chipped waste tyres is permitted to be undertaken following consultation and written approval from the EPA, notification to Fire and Rescue NSW prior to receipt of material, storage to the satisfaction of the Planning Secretary, notification to the Community Liaison Group, the EPA and the Planning Secretary prior to commencement of the trial.

Boral met with the EPA on 8 October 2021 to discuss the trial and subsequently received a letter of support from the EPA on 22 October 2021 to undertake the trial. The purpose of the trial is to determine if the tyres can be fed through our existing SWDF infrastructure into the calciner and if the tyre chips create blockages in the riser ducts.

Boral notified both the RFS and Fire and Rescue on the proposed trial and the storage and handling of the chipped tyres during the trial. On 21 December 2021, Boral notified the DPIE of our trial. The DPIE responded on 21 January 2022 and were satisfied with the proposed storage of chipped tyres during the trial. The letter also reminded Boral of its obligations under Conditions 1.4CA(d) and (i) of the consent to undertake the trial in full compliance with the environmental performance standards stipulated in the consent and the environment protection licence for the site and report the status and outcomes of the trial to the Planning Secretary and the EPA.

The following status report is the first monthly report into the progress of the trial to date as per condition 1.4CA(i).

**Trial Outcome Goal**

- Kiln operation will not change due to the use of alternative fuels (tyre chips AKF5) in pre-calciner
- The environmental performance will not change
- Conveyor CO75, screw conveyors FE67 and FE68, will handle the material at the set feed rates
- No steel accumulation is to be observed in the slopped section of the riser

#### Chipped Tyre Supplier

Molycop360 Turners Lane, Cootamundra NSW 2590 EPL 21294

#### Commencement Date

Molycop delivered their first load on the 25 January 2022. To date 102t of tyre chips of the approved 205t has been received.

#### Trial Details

Run 1: 27 January 2022 - 12:30pm @ 1t/hr for 24 hours

Total tonnes consumed: 24 tonnes

Run 2: 28 January 2022 – 12:30pm @ 2t/hr for 8.5 hours

Total tonnes consumed: 17 tonnes

Total amount fed into the pre-calciner: 41t

Material available onsite: 61t



Photo 1: Tyre chip storage



Photo 2. Tyre chip sample



Photo 3: Hopper and feeder used for trial



Photo 4: Feed location onto SWDF conveyor into calciner.



## Discussion

To date the site has undertaken 2 runs consuming a total of 41t of tyre chips. During these runs, material capabilities were demonstrated up to 2t/hr. Throughout the trial period the clinker production was stable without excursions. Tyre chip combustion was complete as indicated by steady levels of CO measured at the pre-heater exit.

A stack test was also undertaken by Ektimo, to measure emissions during the trial. The final results are still pending, however preliminary results indicate compliance against licence limits.

Further work is required to determine the risk of iron accumulation in the slopped section of the riser.

The kiln has been off since late January 2022 for its annual maintenance shut and only resumed operating in the past week. The remaining tyre chips will remain onsite, stored on the ground in suitable stockpiles as outlined in our notification. Further runs will be undertaken in either April or May.

If you have any questions regarding the trial please let myself or the Operations Manager Dean Beltrame – 0401 896 979 know.

Regards

Greg Johnson

A handwritten signature in blue ink, appearing to read "Greg Johnson", with a long horizontal flourish extending to the right.

Environmental Sustainability Manager – Boral Cement

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