

Wednesday, 4 May 2022

Sally Munk

Principal Planning Officer - Industry Assessments

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(By email to Sally.Munk@planning.nsw.gov.au)

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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 – Third 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 third 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. No further deliveries were received over the last month.

Trial Details (note: there was no tyre chips consumed over the month of April 2022.)

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 run 1 and 2 in January 2022



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 report was received on 28 March 2022 with all emissions in compliance with the sites licence conditions. This was submitted with the revised first monthly update.

Feedback has been received from the EPA (dated 11 April 2022) via the DPIE on the first two months of the trial. The EPA do not object to the remainder of the trial proceeding subject to compliance with conditions in the conditions of approval and the licence with specific reference to the following:

- That the storage of AKF5 should continue to comply with the NSW Fire and Rescue's Guideline for Bulk Storage of Rubber Tyres.
- The remainder of the trail should remain within the AKF5 feed-rate limits outlined in Condition O6.3 of the licence (a maximum feed rate of 4.5 tonnes per hour and a maximum total fuel mass percentage of 21%); and
- Following the conclusion of the trial that Boral will provide a report on the outcomes to the EPA and DPIE.

No tyre chips were used during the month of April. The remainder of the tyre chips will be consumed during May, commencing on 11 May 2022. An invitation has been made to the Community Liaison Group members and the EPA to view the storage, feeding and emissions when in use on 11 May. It is likely this will be the final run of the trial and consume the remainder of the tyre chips received to date.

If you have any questions regarding the trial, please feel free to contact the Berrima Cement Works Operations Manager Dean Beltrame – 0401 896 979 or myself on the number below.

Regards

Greg Johnson

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

Environmental Sustainability Manager – Boral Cement

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