



Adelaide Brighton Cement Ltd

Birkenhead

community news

Keeping in contact with our communities | February 2016

Welcome to Birkenhead Community News

Our regular community newsletter is one of the ways we keep the local community up to date with what is happening at Adelaide Brighton Cement. In this edition, we update you on the development of our Environmental Improvement Plan.

If you want to find out more or to get in touch with us, you can visit our website at www.adelaidebrightoncommunity.com.au or email us at BirkenheadCommunity@adbri.com.au.

Retirement of Community Liaison Group Chairperson – Peter Bicknell

Peter Bicknell has guided the Community Liaison Group as Independent Chairperson for nearly ten years.

Peter's stewardship of the group has facilitated opportunities for numerous stakeholders to foster stronger more consultative relationships with Adelaide Brighton Cement. Peter was actively involved in the initial establishment of the Group and has been instrumental in its evolution. On behalf of Adelaide Brighton Cement, the Community Liaison Group and the local community we thank Peter for his valued contributions and we wish him all the very best in his future endeavours.

We are pleased to welcome Carol Vincent as our newly appointed Independent Chairperson. Carol has a wealth of experience in fostering positive relationships between industry and local communities and we are looking forward to working with her in the future.

Noise abatement projects Quarter 1 – 2016

In line with our ongoing noise improvement program and our Environmental Improvement Plan, four major noise abatement projects are planned for completion in the first quarter of 2016.

The projects are:

- Replacement of the operational chain assembly (400 metres) and associated infrastructure in the limestone reclaimer shed adjacent Victoria Road
- Installation of a quieter and more efficient motor assembly on the Cement Mill 1 dust collector main operational fan – completed Jan 2016 shutdown
- Installation of an upgraded noise abatement silencer in main Stack (4B)
- Design, manufacture and installation of a noise abatement solution for Cement Mill 1 compressor

The above four projects total a capital investment in excess of \$1 million and are expected to significantly reduce noise levels.

Development of New Environmental Improvement Program (EIP)

In 2015, Adelaide Brighton Cement worked closely with the Environmental Protection Agency (EPA), a community nominated residents committee and the existing Community Liaison Group process to develop our latest Environmental Improvement Program.

The major focus of the EIP was to produce a targeted, measurable and outcome based program aimed at further enhancing our environmental performance and continually improving our local environment. You can find further details on our EIP on page 2 of this newsletter.

Significant stack emission improvements

Initial work in November 2015 on the EIP project of optimising 4A and 4B stack emission control equipment has achieved positive results with a greater than 20% improvement in stack filter collecting efficiency.



Cement Mill 1 upgrade



Cement Mill 1 upgrade

Environmental Improvement Plan – 1st Jan 2016 to October 2017

Activity	Description/Action to be undertaken	Benefits	Completion dates
Stack Emissions			
Stack Emission Improvement Study	A 'Stack Emission Improvement Study' of all 4A and 4B Stack emission control equipment – to be undertaken by FLS (global cement industry technical experts). The study will include a desk top analysis, industry benchmarking assessment of the best available emissions reduction techniques and a review of the current process both during operational and shutdown phases (planned shutdown March 2016).	List of options and expected reductions in particulate emissions for the EPA to assess. Options will be for both annualised total mass emissions and short term variability.	Sept 2016
Stack Emission Study Outcome	Implementation of the agreed options contained in the above will commence.	Reduction in stack emissions during normal and unstable conditions.	Dec 2016 onwards
Cooler Bag filter (4A stack stream)	Trial of new type of filter bag technology in the Cooler Bag filtering process. Trial new Cooler Bag filter controller technology. The intent is to optimise bag life and Cooler Bag performance.	Reduction in 4A stack particle emissions at all times.	March 2016 June 2016
Install suitable back-up power supply for stack emission monitors	Determine and install a suitable back up power supply for stack particle emission monitors during power outages.	Enable stack particle emissions to be measured during power outages or to drive improvements.	June 2016
Improve performance of stack emission equipment	Implementation, investigation and optimisation of the Electrostatic Precipitators (stack emission control equipment) technology to improve the performance of the electrostatic precipitators (emission control equipment).	Reduction in stack emissions during normal and unstable conditions.	April 2017
Ambient Dust			
Stockpile storage bunker	Construction of new five metre high, three sided slag stockpile storage bunker and a reduction in the limestone inventory stockpile height.	Reduce fugitive dust by minimising traffic movements, contain dust and allow for the reduction in the height of major site limestone stockpile.	March 2016
Dedicated water truck/cart	Effectively add dust suppressant/sealing agents (typically green) in real time as stockpiles are being worked. Apply road stabilisation polymer via water truck on all site unsealed surfaces – hardens surfaces.	Minimise fugitive dust emissions from active stockpiles. Reduce fugitive dust from unsealed surfaces.	June 2016 Jan 2016 – Oct 2017
Cladding/sealing program	Implement inspection, cladding and sealing program for main clinker storage gantry adjacent Victoria Road.	Reduce fugitive dust emissions from the clinker storage gantry.	Jan 2016 – Oct 2017
Bitumen roadway sealing	Seal the roadway for raw material deliveries at the southern end of Cement Mill 1 – heavy traffic movements.	Reduce fugitive dust emissions from truck movements in this area.	Jan 2017
Eliminate internal truck clinker movements on site	Install a new conveyor system to allow site clinker movements to occur without the use of trucks.	Reduce fugitive dust from truck movements and opening/closing of doors on clinker sheds.	Feb 2017
Noise			
Reduce noise emissions through noise mapping	Develop noise impact mapping model (on site and in adjacent areas) and implement a subsequent noise monitoring and reduction program.	Identify and reduce noise emissions from the site.	Jan 2016 – Oct 2017
Reduce noise emissions through construction projects	Undertake the following noise abatement works already identified as being necessary through existing noise monitoring program. <ul style="list-style-type: none"> Replace operational chain assembly, limestone reclaiming, Install quieter and efficient motor on Cement Mill 1 dust collector Install an upgraded noise abatement silencer in Stack 4B Design, manufacture and install a noise abatement solution for Cement Mill 1 compressor. 	Reduce noise emissions from the site.	April 2016 Jan 2016 April 2016 March 2016
Site personal access (PA) doors	Site wide replacement of all relevant personal access (PA) doors – doors to be self closing and self sealing.	Reduce dust escaping from buildings and reduce the activation of site alarms triggered by excess dust in load centers.	Oct 2017
Vibration			
Conduct a vibration study in community	Conduct a vibration study and impact assessment in the adjacent residential community to determine affected areas and produce an action plan to address issues.	Determine and address vibration impacts in the community.	Dec 2016
Earthcare / greening			
Site greening/earth-care program	Planting in areas to include: <ul style="list-style-type: none"> South of site (river side of train line), Schroder Park extension, Victoria Road adjacent to the limestone reclaiming shed and west of limestone stockpile. 	Improve site aesthetics and reduce fugitive dust emissions.	Jan 2016 – October 2017
Monitoring			
Investigate particle emission composition and quantities	Implement a particle deposition tray program in the adjacent community to capture area fallout.	Analyse and determine the nature and extent of particulate material originating from the plant.	March 2017

Next Community Liaison Group meeting

The next meeting is scheduled for
Monday, 7th March 2016 at 7:00pm
Venue: Port Adelaide Enfield Town Hall, Nile Street, Port Adelaide.



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