COMMUNITY INFORMATION DAY – 10 December 2022

Summary of feedback

BINGO invited residents around the Eastern Creek Recycling Ecology Park (REP) to visit the facility and meet project leads to discuss the various projects being undertaken at the REP and two development proposals: the Throughput Increase proposal and Western Operational Area (Modification 9).

Two community information days were offered – Saturday 3 December and Saturday 10 December both at 10:30am-12pm. The session on 3 December was cancelled due to lack of uptake. The two people who had RSVP'd for 3 December were contacted and offered private tours of the site.

Seven people attended the Community Information Day on 10 December. The majority of people who attended are residents of either Minchinbury, Rooty Hill, or Erskine Park. Participants were provided with an overview of the BINGO Eastern Creek site and the two development proposals. Participants were then given the opportunity to tour BINGO's newest recycling facility, Materials Processing Centre 2 (MPC 2), one of Australia's largest and most advanced recycling centres.

The table below outlines the questions that were asked at the Community Information Day.

Attendees were given the opportunity to ask questions about the site and the various projects. These questions, and BINGO's responses, are outlined below.

Question	Response
Odour management and air quality	
1. What is the volume of methane produced at the site?	We are currently extracting approximately 2700m/3 per hour of landfill gas at methane levels between 45% - 52%.
2. Is burning methane better than letting it go?	Yes. Methane is estimated to have more than 80 times the warming power of carbon dioxide over the first 20 years after it reaches the atmosphere. Combusting methane through the flares significantly reduces the carbon impact of landfilling. Additionally, methane is only one component of landfill gas. Another reason to combust landfill gas through flaring is treat the hydrogen sulfide which can create odour issues from landfill gas. This process also helps improves safety and management of landfill by reducing fire risk.
3. The original odour issue at the site was caused by hydrogen sulfide. Does the new temporary and permanent flare system deal with this too?	Yes. Please also refer to answer to Question 2.

4. When there was high odour in 2021, could the workers smell it?	Yes. It should be noted that many workers are on site each day, many of them were not initially aware of it as they had become accustomed to it.
5. Given stormwater management was a key driver for the odour event in 2021 and early 2022 what have you done to get rid of the water coming into the site? **6.** What do you do in relation to water management / What groundwater monitoring do you do? How often is it done?	Runoff at the Eastern Creek Recycling Ecology Park (REP) is managed through a Soil, Water and Leachate Management Plan. Surface water on the site is captured through the site's water management infrastructure and directed away from the landfill void. Additional measures were taken to divert and collect as much surface water runoff from outside the landfill as possible. All bunding around the lip/top of the void was assessed and repaired as required. This was done routinely pre and post heavy rainfall. The area near the new weighbridges was upgraded through the addition of curb and gutters to direct water away from the landfill. These bunds and curbs prevent surface water running over the top of the landfill and down the walls. An additional dam was added at the bottom of the landfill access road to catch surface water runoff from the landfill road before entering the landfill. This water was removed by pump to the recycling centre surface drainage system. The Filling Plan was updated to reflect a further catchment around the leachate riser where two additional high-pressure pumps were located to pump water to the leachate treatment plant. The surface of the landfill was graded to ensure surface flows were directed to these catchments. There a few if any areas where surface water comes onto site from outside the site. The majority of stormwater that had to be managed was rainfall that fell directly on site. Surface water across the site outside of the landfill is directed via a series of drains, swales, screening / treatment devices to dams at the back of the site for reuse on site or discharge from site. Water from the landfill is pumped to the leachate treatment plant. To manage odour, BINGO has implemented a range of measures such as installation of temporary flares and gas collection network, capping and odour monitoring. In late December 2022, two permanent gas flares were commissioned to replace the temporary flare system. The temporary flare system continues to operate effectively. The permanent flare system will provide long term sustainable ongoing odour management for landfill gas capture and treatment.
7. My family and I live close by and members of my family have asthma. I am concerned about health	The site has an approved air quality, odour, and greenhouse gas management plan. The plan includes a range of controls for management of air quality impacts potentially associated with site operations such as dust, vehicle emissions and landfill gas.

impacts to my family because of contamination to the air and pollution of the water. How is this being addressed?	This and other management plans are available for download on BINGO's website (https://www.bingoindustries.com.au/Policies/eastern-creek-policies-and-reporting). Any future development proposals at the site involving potential impacts to air quality typically involve detailed assessment of air quality impacts to ensure there are no unacceptable impacts on residential areas such as Erskine Park, Rooty Hill, and Minchinbury.
8. You mentioned there is an air quality monitoring station at Minchinbury, why isn't there one at Erskine Park?	Minchinbury was identified as the most appropriate monitoring location for residential areas given it is located approximately 450m from the site northern boundary. Erskine Park is situated approximately 950m to the south-west of the Eastern Creek REP site boundary. We are currently reviewing options for additional air quality monitoring stations south-west of the site.
9. What is the temperature of the burn of the flares?	Over 800 degrees celsius.
10. How often will you see the flames from the flares?	You will not be able to see the flames from the permanent flares. The flames are contained within the structure of the flare.
11. Do you see smoke from the flares?	There is no smoke from the flares.
12. How often will the flares be inspected to ensure they are safe?	They will be regularly inspected by our provider in line with best practice and the terms of our contract with them.
13. How are you measuring the effectiveness of the flares?	Our new flares have calibrated instruments to measure flow, methane, and temperature. The flares are designed with a methane destruction efficiency greater than 99% and greater than 800 degree celsius with a methane range of 40 - 60%, and minimum residence time of 0.6 seconds.
14. Were you using deodoriser earlier in the week? There was a deodoriser smell detected by community members at Erskine Park.	Deodoriser was in use on Thursday (8 December) when connection work commenced on installation of Flare A.
Access to the site	
15. There will be an increase in truck movements because of the Throughput Increase proposal. How many truck movements will there be?	The increase in throughput will result in additional vehicle movements at the Eastern Creek REP. To assess the potential impact of these movements a detailed Traffic Impact Assessment has been prepared by a traffic and transport specialist. The assessment identified that during peak operations, the throughput increase would result in an additional 283 vehicles accessing the

	Eastern Creek REP per day – around 13 additional vehicles per hour. This number includes light vehicles (e.g., staff) and heavy vehicles (e.g., trucks transporting waste). The assessment modelled these additional movements in the context of existing site movements, the local road network and included consideration of background traffic growth. The assessment found that the proposal would not reduce intersection performance (level of service) at key intersections surrounding the site. Note that all vehicles travelling to and from the site would access via Wonderland Drive and Wallgrove Road with connections directly to the arterial road network (e.g., the M7 and M4). Vehicle movements associated with the site would not transit through local residential areas.
16. Will the trucks have a preferred pathway they need to come in on?	Yes. The Eastern Creek REP is strategically located adjacent to the arterial road network including key roads such as the M4 Western Motorway and the Westlink M7 Motorway. Vehicles access the site via Honeycomb Drive and Wonderland Drive as the only primary access roads within the broader industrial precinct. BINGO has direct control over a considerable proportion of vehicles that access the site and has the ability to schedule vehicle access outside of peak traffic periods. Under the Throughput Increase Proposal, BINGO is proposing a new access point to the Eastern Creek REP site from Honeycomb Drive. The Honeycomb Drive extension project was approved by Blacktown City Council in August 2022 and is currently under initial stages of construction.
Site operations	
17. Does the site operate at night?	The recycling operations at Material Processing Centre 1 and 2 are permitted to operate 24 hours while the landfill is permitted to operate from 5am to 9pm. While the recycling operations are approved to operate for 24 hours per day, they currently only process material up until 10pm in the evening. Maintenance and cleaning activities are undertaken on the recycling plant when the recycling facility is not operational.
18. What studies have you done to ensure that there are no impacts on residential communities through the site operations?	Ongoing monitoring is undertaken during operations in accordance with the site's Environmental Management Strategy and supporting environmental management plans and relevant conditions of consent for each of the approvals to ensure the Eastern Creek REP continues to operate in a way that manages potential impacts to the community and the environment.

	For the Throughput Increase Proposal there have been a comprehensive range of technical assessment studies that have been undertaken in accordance with the Secretaries Environmental Assessment Requirements (SEARs) issued for the project such as air, noise, soil, water, traffic, and fire. A human health risk assessment was also commissioned to ensure there were no material health impacts on industrial and residential areas.
19. Is the MPC2 a state-of-the-art operation? Are there examples around the world where it has been used elsewhere?	MPC 2 is one of Australia's largest and most advanced recycling facilities capable of processing up to 7,000 tonnes of brick, concrete, timber, metal, and other recycled inert materials a day and is a key enabler in diverting waste from landfill. BINGO has invested over $150 million in MPC 2 and it is fitted with some of the world's most advanced resource recovery and manufacturing technology. The plant has also been fitted with the latest in safety, environment and fire management technology and rainwater catchment tanks. MPC 2 will also be fitted with rooftop solar in 2023, as part of BINGO's RE100 commitment to achieve 100% renewable electricity across all its sites by 2025.
20. Do you deal with asbestos?	Asbestos waste or asbestos contaminated soil is only permitted to enter the Recycling Ecology Park (REP) when it is correctly stored and is only to be landfilled and then covered in accordance with NSW Environment Protection Authority (EPA) regulations. Note, acceptance of asbestos waste for MPC 2 facility is zero. Mixed construction and demolition waste accepted on our site is inspected multiple times to identify potential asbestos as per NSW EPA regulations. Please click here for NSW EPA regulations.
21. What is the threshold for acceptance of materials going into the MPC 2?	MPC 2 is included in the threshold for waste acceptance limited by Environment Protection Licence (EPL) 20121 and the development consent as modified. EPL 20121 encompasses MPC 1, MPC 2, the timber yard and the crushing yard - all activities exclusive of the landfill.
22. Do you have a backup system in place for the computers used at the MPC 2? Is this Back up electrical?	Yes, our computers are backed by Network Servers.

23. How many staff work at the MPC 2?	150 staff. Staff work on a roster basis at the MPC 2.
24. How much of the landfill have you filled since BINGO took over operations in 2019?	Since BINGO's acquisition of the Eastern Creek REP in 2019, BINGO has invested heavily in the infrastructure at the site to support its broader vision of a Recycling Ecology Park to maximise diversion of waste from landfill. The Eastern Creek REP is approved to landfill up to 1 million tonnes per annum. Since acquisition of the landfill in 2019 BINGO have landfilled approximately 850,000 tonnes per annum. During this time BINGO has recovered more than 2 million tonnes of material in NSW through Eastern Creek as our centralised recycling hub. BINGO continues to invest in technology and innovation to lead the industry in diversion of waste from landfill aligning with our vision of a waste free Australia. We anticipate that as we expand our recycling capacity on site at Eastern Creek, we will reduce our volumes to landfill over time. However, based on current fill rates we anticipate the landfill has a remaining life of up to 10 years.
25. How many more years will the site take landfill / When will the landfill be full / How much life is left in the landfill? / How do you monitor when it is full?	We anticipate the landfill could last up to another 10 years.
26. What is the ration of material that you accept that is going to landfill?	Approximately 80% of the material that we receive can be recycled. Around 20% currently goes to landfill. BINGO are looking to further increase resource recovery rates in the future and are currently developing a 10-year innovation roadmap to support our vision being zero waste to landfill. The Eastern Creek landfill accepts inert, non-putrescible waste typically derived from construction and demolition and commercial and industrial sources and does not accept putrescible waste (such as waste in domestic red bins and food waste).
27. What is the total volume of material that has been brought to the site?	The site is approved to receive up to 2 million tonnes of building and demolition waste per annum. Within the 2 million tonnes limit the site is authorised to landfill up to 1 million tonnes of residual material (excluding residual chute waste) from the material recycling centres.
28. How long will BINGO be running the site?	BINGO has operated the site since 2019 and plans to continue to operate the site over the long term.
29. What was at the site before it was a recycling centre/landfill?	A quarry.

Recycled material use	
30. You mentioned that many of the materials that are produced by MPC 2 are being used in major infrastructure projects like WestConnex. With these projects slowing in the future where do you see your products being used?	We anticipate the demand for recycled building products will continue across both commercial and residential uses. Infrastructure Australia recently published its Replacement Material report (please click here for details) which noted the five-year pipeline of major public infrastructure projects is valued at $237 billion. It also noted that based on current technology and standards, around 27% of conventional materials for road projects could be replaced with range of recycled materials. BINGO is at the forefront of producing high quality and competitively priced ECO product range, including 100% recycled sand and road base products that have a wide range of applications, including paving roads, cark parks and driveways. The increased use of recycled materials in infrastructure projects can also create additional jobs and help divert waste from our landfills. Infrastructure Australia estimates that adopting greater quantities of recycled materials would create 9.2 jobs for every 10,000 tonnes of recycled waste, compared with only 2.8 for sending waste to landfill.
Community engagement	
31. Will you send a link to the Community Portal that provides information about the site operations?	Please click here to follow BINGO's updates on its site operations. For more information, please contact our Head of Public Affairs, Rommel Varghese on 0460 822 310 or email at rommel.varghese@bingoindustries.com.au
32. Could we have a summary of the question and answers from today's session?	Yes. We will email the summary to the residents who attended.
33. I appreciated the community update newsletter. Will you do more of these?	Yes. BINGO will continue providing regular updates in 2023 through our website and community newsletters. Additionally, we are looking at establishing an Eastern Creek Community Reference Group in 2023.
34. The information day was useful. Will you do these again in the future?	Yes, we will look at organising further community information days in 2023. We will look at hosting another information day in early 2023 for residents who were unable to attend the Community Information Day on 10 December 2022.