



GENESIS EASTERN CREEK WASTE MANAGEMENT FACILITY MODIFICATION 6

Presentation to the Independent Planning Commission
Tuesday 17 March 2020

Agenda

What you'll see today:

- Overview of BINGO
- Modification 6 Overview
- Strategic Justification
- Key Issues
- Community and Stakeholder Engagement
- Conclusions

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Section 1

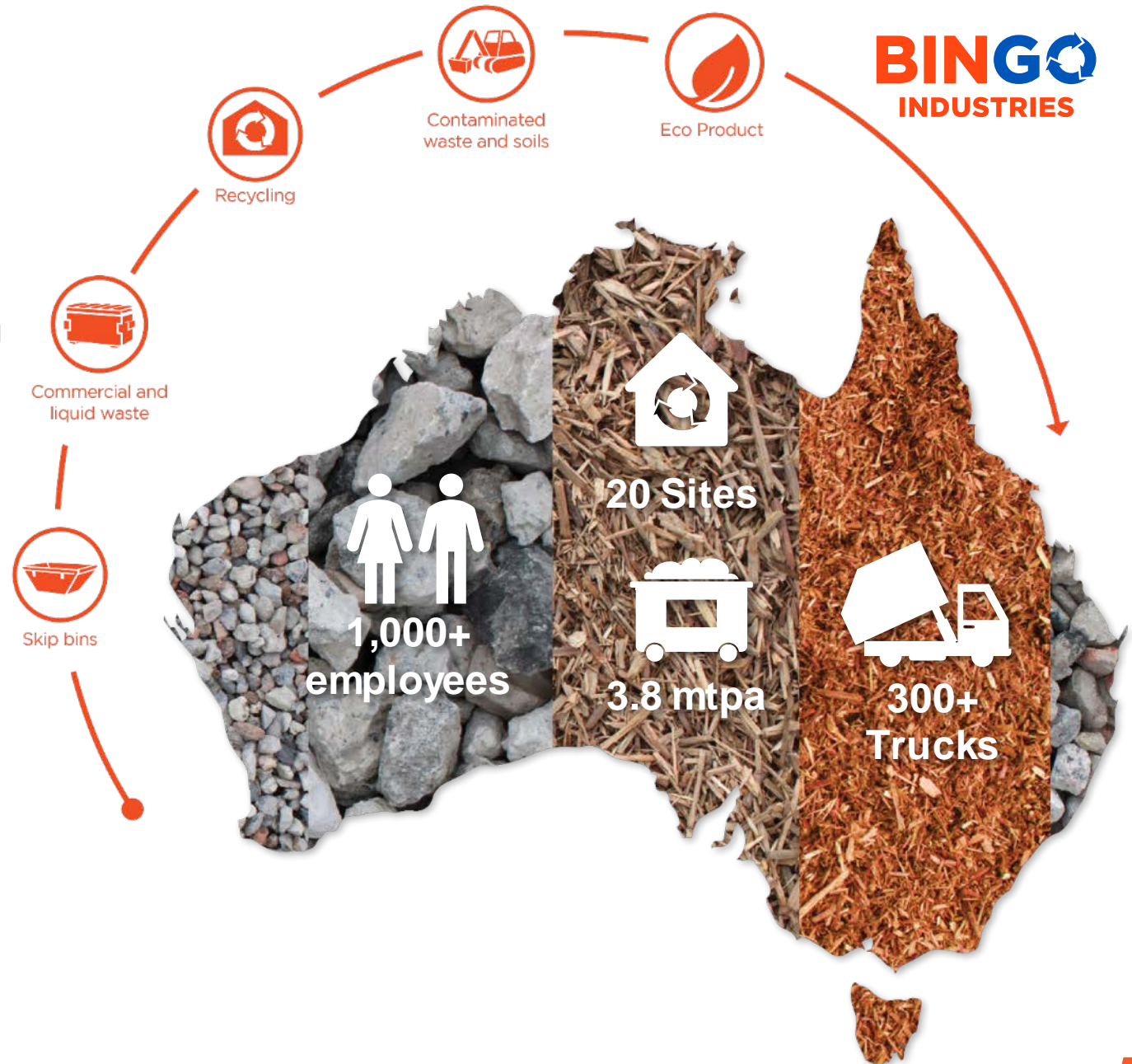
Introduction

1300 424 646

About BINGO

BINGO is an ASX-listed recycling and waste management company providing end-to-end solutions across the waste management supply chain including collections, processing, separation, recycled product manufacturing and disposal.

- BINGO is the leader in **Building and Demolition (B&D)** waste collection and processing. This includes demolition and construction of residential and commercial building projects, infrastructure projects and the DIY market throughout NSW and VIC
- BINGO has an expanding presence in the **Commercial and Industrial (C&I)** waste management sector. This is mostly from commercial businesses, individual sites and government and education facilities
- **We have invested ~\$1 billion on recycling and waste infrastructure over the past three years**
- We close the loop through our range of building and landscaping **recycled products**
- Currently servicing more than **18,000** customers annually



Our Sustainability Framework



- Sustainability is a priority for the Board, management and all BINGO employees
- Our objective is to operate at the highest standards in the industry
- **Our primary focus is on the diversion of waste from landfill**

	Our Environment		Our Communities		Our Business
	Energy and GHG Emissions Achieve energy self-sufficiency through the use of alternative fuel solutions		Customer Service Provide our customers with a superior customer experience		Governance Ensure regulatory compliance and effective risk management
	Climate Change Assess and prepare for climate-related risks and opportunities to minimise our contribution to climate change		Education Educate the next generation of recyclers and our customers to increase recovery rates		Sustainable Growth Achieve consistent, superior financial returns for our shareholders
	Environmental Management Minimise the impact of our operations on the environment		Social Responsibility Support community organisations and provide opportunities for disadvantaged community members		Innovation Aspire to operational best practice and industry leadership
	Resource Efficiency Achieve industry leading, independently audited diversion rate of >75%		Diversity and Inclusion Invest in the development of a diverse and inclusive workforce		Supply Chain Partner with suppliers and sub-contractors for sustainable outcomes
			Stakeholder Engagement Engage transparently and authentically with our stakeholders to develop enduring, mutually beneficial relationships		
			Health and Safety Ensure the health and safety of our people and those under our care		

BINGO acquisition of Dial a Dump

- ➔ BINGO Industries announced on 21 August 2018 that it had **entered into an agreement to acquire Dial A Dump Industries** (“DADI”), a fully integrated recycling and waste management services provider operating in the Greater Sydney region
- ➔ The acquisition provided BINGO with **significant complementary post-collections assets**, including the Genesis Waste Facility at Eastern Creek, a recycling and landfill asset with approved capacity of up to 2 million tonnes per annum and approximately 15 years’ useful remaining landfill life
- ➔ The acquisition **diversified BINGO’s product offering with a significant expansion of our processing capability** into timber shredding, brick & concrete crushing, scrap steel recycling, garden organics and contaminated soils in the Sydney market

Importantly, the proposed Next Generation Energy from Waste facility was not part of the acquisition, and BINGO has no association with this facility

Modification 6 Proposal Overview

Modification 6 does not seek to increase the current approved waste limit of 2 million tpa

Proposal to modify existing consent MP06_139 by:

- Increasing the landfill limit from 700,000 tpa to 1,000,000 tpa (excluding waste generated by recycling processes within the Materials Processing Centre (MPC) and the Pre-Sort Enclosure (PSE) approved under Modification 5)
- Updating the current noise limits to ones which are more representative given current background levels exceed site noise limit by 10 dB
- Extending the operating hours for the facility as follows:
 - MPC and PSE – 24 hours / 7 days per week
 - Segregated Materials Area (Receival) – 24 hours M-F / 8am – 4pm Sat/Sun/PH
 - Segregated Materials Area (Crushing / Screening) – 6am – 6pm M-F / 8am – 4pm Sat/Sun/PH
 - Landfill (Direct by Truck) – 5am to 9pm
 - Landfill (Via Chute) – 24 hours / 7 days per week

No changes to facility layout are proposed that would trigger construction impacts



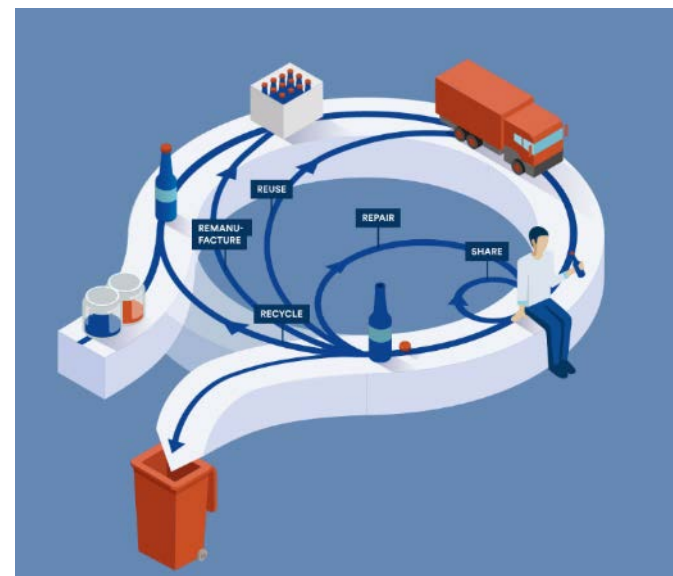
Section 2

Strategic Justification

Strategic justification

This project is supported by several compelling strategic drivers:

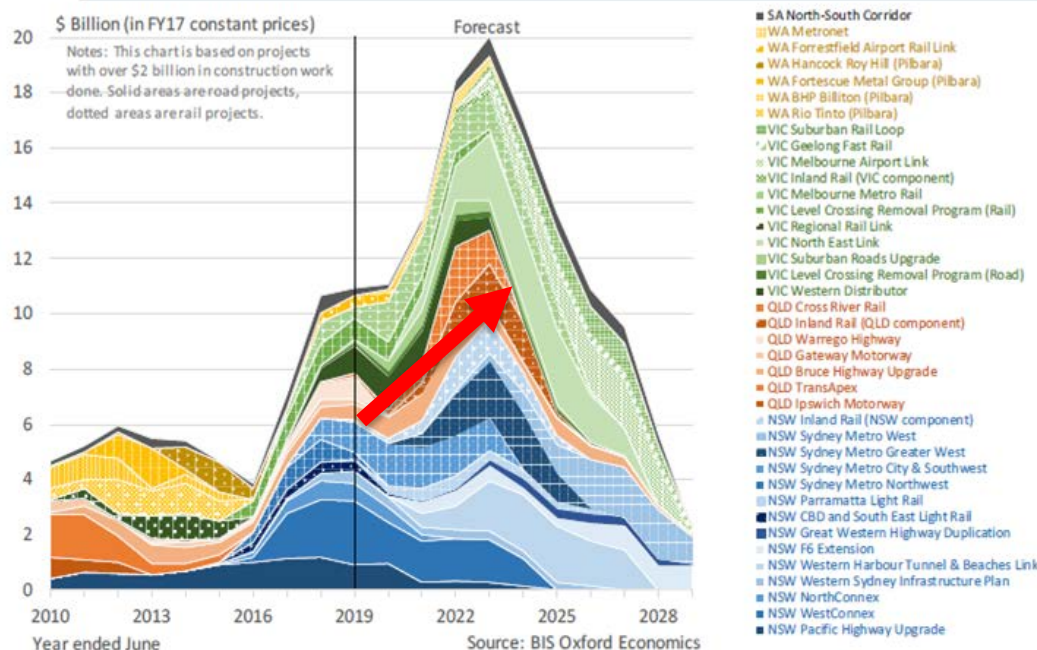
- BINGO is currently landfilling near the 700,000 tpa landfill cap
- The 700,000 tpa limit constrains the amount of recycling that can be achieved via the MPC and PSE (currently under construction) approved under Mod. 5
- Supports the 2021-22 targets of the Waste Avoidance and Resource Recovery Strategy for landfill diversion (75%) C&D (80%) and C&I (70%) resource recovery
- Provides a unique foundation to implement circular economy objectives and meet NSW & Commonwealth Gov't Policy
- Reintroduction of the Queensland levy in March 2019 has induced the retention of large volumes of waste in Sydney that had previously been transported to Queensland, increasing demand for recycling and landfill



Strategic justification (cont.)

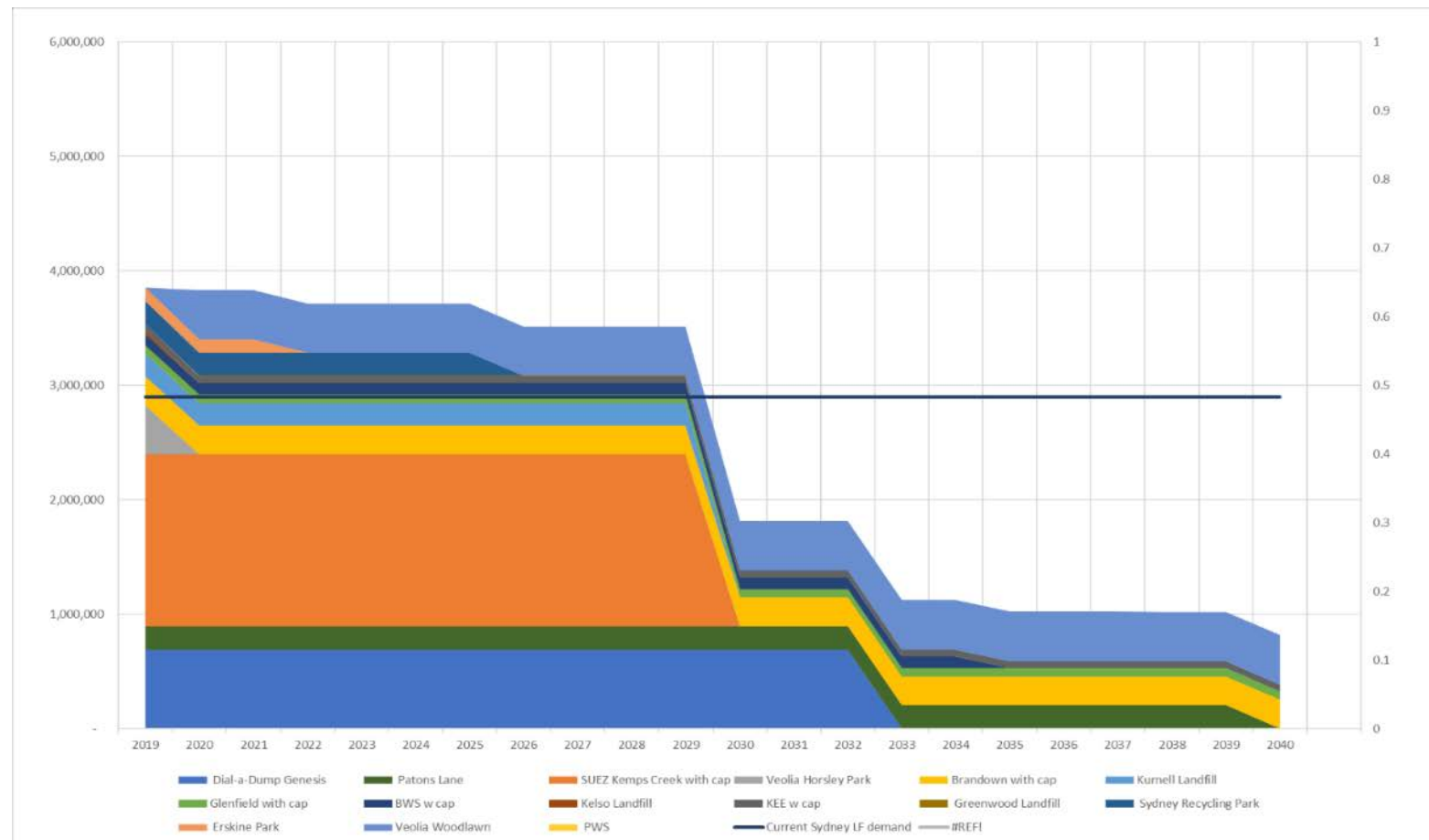
- The site is centrally located to serve the growth markets of western Sydney, both as a tipping point for growing waste volumes and a source of recovered materials to circulate back into the region's growing economy and infrastructure needs.
- Major sustained and ongoing transport and social infrastructure waste pipeline (e.g. Westconnex, Western Sydney Airport, Sydney Metro, Western Harbour Tunnel) that requires access to 24-hour mixed processing plants and landfill disposal
- Aligns with the objectives of Western Sydney Regional Waste Avoidance and Recovery Strategy & West District Plan
- One of the only landfills in the Sydney metro region capable of accepting bushfire-affected waste and asbestos contaminated material (ACM)

MAJOR TRANSPORT PROJECTS (OVER \$2 BILLION)



Strategic justification (cont.)

- There are a number of imminent landfill closures over the next 5 – 10 years and a resultant decline in landfill capacity





Section 3

Key Issues

- The original consent assessed traffic impacts at the maximum waste volume receivable of 2Mtpa. **No change to this maximum limit is proposed.**
- The site is currently operating at approximately two-thirds of the approved capacity of 2Mtpa (equating to an average 700 truck movements per day)
- Additional annual tonnages to landfill (relative to current rates) would be generally transported during the under utilised evening and night-time periods on weekdays (between 6pm and 7am).
- Further traffic impact assessment was completed through RTS in response to submissions on traffic movements, haul routes and parking.



Key Issue: Traffic (cont.)

Impacts

- Assuming a growth in demand to the maximum 2Mtpa gate limit for all waste types, the worst-case scenario equates to c.490 extra movements per day over the current level of operations
- Increasing landfill limit to 1Mtpa removes an unintended limit on traffic movements
- If the current limit is not increased, this will displace waste processing demand – and therefore truck movements – elsewhere within the traffic network (local, regional and interstate), with associated traffic impacts
- SIDRA analysis shows traffic generated by the proposed modification under a worst-case scenario is negligible and is not expected to compromise the safety and function of the surrounding road network.**

Mitigation

Parking would be prohibited for 50m along the approaches to the site access intersection to increase site distances (EA Commitment)

Intersection	Peak period	Level of Service	
		Existing	Future
Kangaroo Ave Site Access	AM Road Network (7:15am – 8:15am)	A	A
	PM Road Network (4:00pm – 5:00pm)	A	A
Honeycombe Drive Intersection	AM Road Network (7:15am – 8:15am)	A	A
	PM Road Network (4:00pm – 5:00pm)	A	A

Key Issue: Noise

Overview

- Ambient noise levels at the nearest receivers are more than 10 dB higher than the noise limits set in the project approval and relevant Environment Protection Licences. Current noise limits are not pragmatic for operations, residents or regulators

Impacts

- The NIA summarises the operational noise sources and associated sound power levels used in the noise model – supported by attended measurements completed in Oct 2019 as a response to submissions
- Operational noise levels associated with the proposed modification are not predicted to exceed the project specific noise levels i.e. operational noise levels are not predicted to generate intrusive noise impacts
- No noise impacts at surrounding residential receivers

Mitigation

- New operational noise limits **(Sch 3, Draft Condition 38)**
- Post commissioning noise report **(Sch 3, Draft Condition 38b)**



Key Issue: Air Quality

Overview

- Typical day (2740t), theoretical (4100t) and worst case (5400t) landfill deposition scenarios modelled
- PM10 and PM2.5 background monitoring data indicates that the local area typically experiences exceedances each year
- Representative peak day and theoretical worst-case day landfill disposal rates are only anticipated on five to ten days (peak day) and once (theoretical worst-case day) per year respectively
- Modelled scenario conservative as assumes 1M Tpa of waste sent direct to landfill

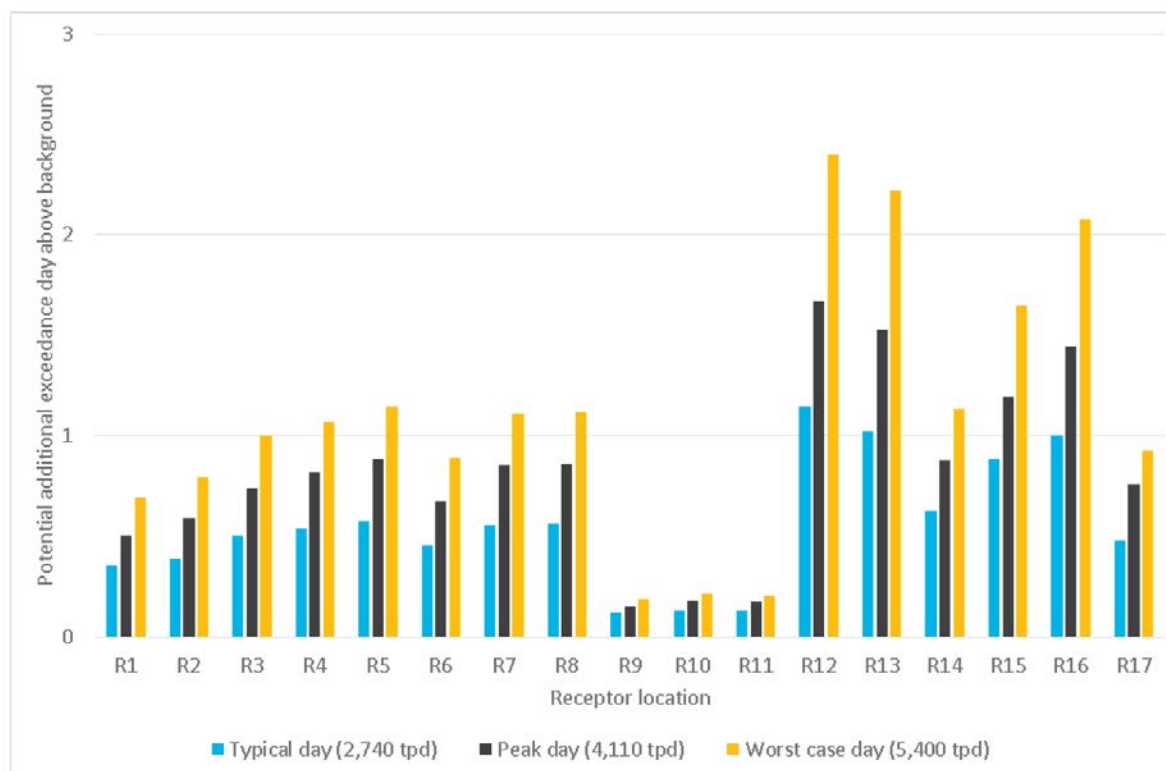
Impacts

- The predicted cumulative annual average PM10 concentrations comply with the relevant criterion at all receptor locations.
- Cumulative annual average TSP concentrations comply with the relevant criterion at all receptor locations. Similarly, predicted dust deposition levels comply with both the incremental and cumulative relevant criteria at all receptor locations.
- The proposed modification results in 1-2 days per annum of potential PM2.5 concentrations above the relevant criterion at all receptor locations under all scenarios, noting that the annual average background concentrations of PM2.5 are already exceeded.
- Disposal of waste to the landfill at a representative peak day or theoretical worst-case day rates **would not significantly alter the potential for exceedance of the 24-hour average PM10 or PM2.5 criterion** at any of the surrounding receptors, relative to the modelling results for the typical day landfill disposal rates.

Key Issue: Air Quality

Mitigation

- Prepare site wide air quality audit (**Schedule 3, Draft Condition 37(a)**)
- Existing Air Quality, Odour and Greenhouse Gas Management to be updated (**Schedule 3, Draft Condition 38**)
- Use of reactive management measures (trigger response alarms, real time monitoring, additional dust suppression measure etc) to assist with minimising potential cumulative exceedance days



Key Issue: Chute Operating Profile

- The main change to the operating profile of the chute will be the amount of waste transferred from the processing facilities (combined MPC and PSE) and the operating hours.
- As per the EA, the amount of waste expected to be transferred via the chute is approximately 240,000 tonnes per annum, based on a recovery rate of 70%. This is a conservative resource recovery rate. At higher recovery rates there will be less waste transferred from the chute to landfill.
- The ultimate throughput capacity of the chute is governed by the automatic weighing system. The automatic weighing system currently processes 30 tonnes of residual waste per hour.
- Based on 24 hour / 7 days per week operation, and allowing for maintenance downtime of 5% per annum, this equates to 249,660 tonnes per annum.
- The chute and weighing system therefore has sufficient capacity for this modification



Section 4

Community Engagement Summary

Community and Stakeholder Engagement

Extensive consultation undertaken on the proposed modification for the period Mid 2018 – late 2019

Consultation during Environmental Assessment preparation (Pre-exhibition)

- Department of Planning, Industry and Environment (DPIE)
- NSW Environment Protection Authority (EPA)
- Blacktown City Council

Consultation during public exhibition

- Public exhibition of Environmental Assessment from 3-17 October 2018
- Met with Blacktown City Council during the exhibition period (2 October 2018) and provided an email response direct to Blacktown City Council (15 October 2018). Total of 70 submissions received, 59 submissions were received from community members and a total of 13 submissions were received from public authorities, including State and local government.

Consultation post exhibition

- Further meetings held with Blacktown City Council following the acquisition of Dial a Dump Industries.
- Extensive engagement with DPIE and EPA during May - October 2019 to respond to technical matters including noise, air quality, landfill limits and lighting. This was supported by additional technical assessment (where applicable)
- All public authorities have provided commentary and input to proposed conditions of consent

Community Complaints Register

- A complaints register is publicly available on the Dial a Dump Industries website and is updated monthly
- Since reporting commenced in January 2010, a very small number of complaints have been received in relation to noise / air quality:
 - Noise – 2, the last occurring February 2011
 - Odour – 5, the last received in August 2016 and all to be found not originating from the site
- No complaints have been received about air quality



Section 5

Conclusions

Conclusion

- Environmental Assessment, Response to Submissions and additional assessment information prepared for the Proposal (SSD) in accordance with the EP&A Act
- Potential environmental, social and economic impacts, both direct and cumulative, have been identified and thoroughly assessed
- No substantial environmental impacts have been identified
- BINGO has consulted extensively with the community and key agencies, and worked collaboratively with key agencies to respond to issues raised
- The minimal environmental impacts that are predicted through conservative modelling would be mitigated through implementation of measures for operation of the Proposal
- BINGO agrees to the draft DPIE consent Conditions

BINGO

The logo for BINGO Industries features the word "BINGO" in a bold, sans-serif font. The letters "BIN" are white, while "GO" is blue. The letter "O" is replaced by a blue circular arrow icon, consisting of three arrows forming a continuous loop. Below "BINGO" is the word "INDUSTRIES" in a bold, white, sans-serif font.

INDUSTRIES

Thank you