

## BCRG COMMUNITY FORUM 1/2012, Meeting Notes

Date: 15 February, 2012

Time: 6:00 for 6:30 – 8:55 pm

Where: Brooklyn Community Centre, Cypress Avenue Brooklyn

### Meeting Purpose:

- To provide an update on progress towards resolution of dust, noise and odour issues

Convenor: Jen Lilburn

<b>6:00</b>	<b>Light Refreshments</b>
<b>6:30</b>	<b>1. Welcome</b> Apologies Confirm draft meeting notes – 24 November, 2012 Confirm meeting purpose and agenda
<b>6:40</b>	<b>2. Bert Boere, Brooklyn Residents Action Group</b> Group update
<b>6.50</b>	<b>3. Bruce Light, Yarraville On the Nose</b> Group update
<b>7:00</b>	<b>4. Susan Fitton, Brooklyn Industrial Precinct Strategy Committee</b> Stage 2, Brooklyn Industrial Precinct Strategy.
<b>7.10</b>	<b>5. Questions</b>
<b>7:20</b>	<b>Break</b>
<b>7:40</b>	<b>6. EPA Victoria, Richard Marks, Manager Pollution Response</b> <b>- Update on dust, noise and odour program</b>  No questions at this time
<b>8:00</b>	<b>7. Olga Ghiri, Stakeholder and Community Liaison Officer, Transpacific Industries Group Ltd</b>  No questions at this time
<b>8:10</b>	<b>8. Sean Carroll, Brooklyn Plant Manager, JBS Australia Pty Limited</b>  No questions at this time
<b>8:20</b>	<b>9. Nicholas Fisher, Vicroads, Manager Program Development Metropolitan North West Region</b> Francis St/Cemetery Rd Update  No questions at this time
<b>8:25</b>	<b>10. Panel Discussion and Questions</b> <ul style="list-style-type: none"> <li>• EPA - Richard Marks</li> <li>• Brimbank CC - Carey Patterson</li> <li>• Maribyrnong CC – Foti Beratis</li> <li>• Hobsons Bay CC – Malcolm Ramsay</li> <li>• VicRoads – Nick Fisher</li> <li>• Transpacific Industries Group – Olga Ghiri</li> <li>• JBS Australia – Sean Carroll</li> </ul>
<b>8:55</b>	<b>Close</b>

Please note that the notes from this meeting will be posted on EPA Victoria's website and the Brooklyn Industrial Precinct website and will be available to the general public. Meeting participants should advise Andrea Mason or Jen Lilburn if they would like their name removed from this public document.

### **Item 1. Welcome, Jen Lilburn, Convenor**

Jen introduced herself as the independent Convenor of the forum and explained the purpose of the BCRG forum and the commitment of the EPA and Brimbank City Council who have given reciprocal commitments of support to BCRG. She extended a warm welcome to everyone and invited suggestions for speakers that people would like to hear from this year.

Several apologies were noted (see attendee list at the end of these notes).

The meeting was informed that Josie Scarf from Brimbank City Council was standing in for Stephen Sully in the role of Manager of Regulation and Compliance. Paul Rataczyk from EPA has now moved away and Chris Bydder is returning to taking his place. Jen acknowledged Nadia Verga from Transpacific who has had a long association with BCRG but who has moved on. Margot Harrison was welcomed back as note taker in Andrea's absence.

The draft meeting notes from the previous meeting on the 24th November 2011 were then confirmed as accurate.

### **Item 2. Bert Boere and Geoff Mitchelmore, Brooklyn Residents Action Group (BRAG)**

Bert reported that BRAG attended a meeting late last year with City West Water regarding the proposed resources recovery centre. BRAG has some concerns with such an operation in their back yard. All the permits were successfully achieved for the Federation Trail project. BRAG's next meeting is Wednesday 22nd February and the group will meet on the fourth Wednesday of every month thereafter.

In 2011 community members met with VicRoads to review Francis Street and Cemetery Rd. As of last week \$130,000 has been made available in the Hobsons Bay City Council budget to contribute to repair of the asphalt in Cemetery Road and screen road edges. It is also to trial the cleaning of the verges along Francis St similar to that done in Jones and Bunting Rds. Hopefully this will reduce the dust and mud issues which have been a major concern to residents.

Geoff provided an update on the Federation Trail project. A community day will be held on Sunday, 19th February to move some mulch. Supporters of the trail were acknowledged and thanked. They are now looking to community members to help finish the trail. The planting areas have been poisoned, ripped and mulched in readiness for planting of 10,000 trees and shrubs in May 2012. A big celebration will take place in June to open the trail. It will be a fantastic asset for the community.

### **Item 3. Bruce Light, Yarraville On The Nose (OTN)**

Bruce provided a reflection on the last years' activities. \$50,000 was provided through EPA's 'Inspiring Environmental Solutions' program. Planted 300 established trees in 9 streets with MCC assistance. Newsletters were produced by 'On the Nose' and Council informing the community of the project. Bruce thanked everyone for their support adding that the odour problems experienced in West Yarraville have been addressed. Bruce noted that the air quality is very acceptable however dust is still a major problem. Noise from reverse beepers, particularly from the container yards, continues to be a problem. He acknowledged that the current beepers comply with OH&S regulations, but still cause sleeping problems for surrounding residents. Bruce estimated that the cost for broadband beepers is approximately \$350. He questioned why industry won't make the small investment to install the broadband reversing beepers. The focus for OTN this year will be on noise and dust and to support BRAG in their efforts to address odour.

#### **Item 4. Susan Fitton, Strategic Sites Officer, Brimbank City Council, Brooklyn Industrial Precinct Strategy Committee**

Susan explained the purpose of the strategy which is to look at the future for Brooklyn.

Representatives from the Department of Planning & Community Development (DPCD) came to the last BIP Strategy Committee meeting and discussed an application to the Suburban Jobs Program for funding. This a collaborative bid between Brimbank, Hobsons Bay, Maribyrnong and Wyndham City Councils, VicRoads and other state agencies to improve North-South access for the Brooklyn/Tottenham area around Paramount Rd.

Stage 2 of the Brooklyn Strategy focussing on precinct planning and future direction community consultation will take place 15 - 30 March. (NB: These dates were changed from the 3 – 23 March after the meeting). Two hour sessions will be held to provide opportunities for people to have their say. Other opportunities for feedback will be provided through social media and a web based forum. Dates and venues are to be confirmed and will be sent out through the BCRG update and the Brooklyn website.

A draft Precinct Plan will be developed following this consultation. The draft will be available for public comment before the final plan is adopted.

Brimbank CC, together with Maribyrnong CC is convening a series of 6 monthly breakfast meetings with local manufacturers in the Brooklyn/Tottenham area. These meetings will be discussing topics such as legal, finance and changing environments and will enable an exchange of views. This series is currently in the planning stage.

An update on the Australian Tallow application for an anaerobic waste lagoon: Council is waiting on further information to be provided before the application can be advertised. Notification will be sent through the BCRG updates. (Please make sure we have your email addresses to ensure you receive updates). The documents that form part of the application are too large to put on the web page, but can be inspected at the Brimbank City Council Keilor office, 704B Old Calder Highway, Keilor and also at Sunshine Harvester Centre 310 Hampshire Road Sunshine. (NB: This was confirmed after the meeting)

A fact sheet containing important information on advertising requirements was made available to meeting participants. This Fact sheet is available at <http://www.brooklynip.com.au/councils/brimbank-city-council/>.

#### **Item 5. Questions**

**Question: Is there anything to add to the enforcement activity in relation to the Kororoit Creek landfill as mentioned at the last meeting?**

Answer: (Carey Patterson) There is a Brimbank City Council update available (see **Attachment 3**). Council has been out with the EPA to look at the operation of the landfill and the operator has been instructed to come back with some more information regarding the embankment on the side of the creek.

**Q: Has there been any follow up on the industry intrusion onto government land between Geelong Rd and VicRail on the Brimbank side?**

A: (Carey Patterson) Council has inspected the site, further discussions are taking place and the owner of the site is required to make a planning application for the landfill to ensure the issues such as contours, setback from the creek alignment and vegetation requirements are addressed. In addition we are looking at whether the road is now redundant as part of the new Brooklyn Strategy.

**Q: Is there any update on a number of other uses on the Wyndham side of Kororoit Creek?**

A: (Carey Patterson) No feedback from Wyndham at this stage. Discussions have been held with the owners of the site with regard to their practises, but nothing more to report at this stage.

**Statement: 20 – 30 truckloads of rubbish have been dumped on the other side of the creek opposite the tip site in the last 3 weeks and the situation it is 'out of control'.**

**Action 1:** Carey Patterson and Richard Marks undertook to follow this matter up.

**Q: Can the Australian Tallow application be put on the website?**

A: (Susan Fitton) There is one part of the plans that can be put on the Brooklyn website – an overall site layout plan – <http://www.brooklynip.com.au/councils/brimbank-city-council/> and you will be notified through the BCRG update. The rest of the plans are very large to put on Council's web site. Plans and documents can be copied for anyone who comes in to the Keilor office to look at them. There will be a small fee charged for the copy of the larger plans. The application will also be available to view at the Sunshine Harvester Centre – 301 Hampshire Road Sunshine. (NB: This was confirmed after the meeting)

**Q: Can the Australian Tallow application be approved while a court case is pending?**

A: (Susan Fitton) The application still has to be advertised and any objections will be taken into account by Council, so it is too early to say whether the application will be approved or not. This is not influenced by any court cases pending.

**Q: At the gates near 455 Somerville Rd is being surveyed and soil samples taken – what is happening?**

A: (Carey Patterson) advised he is not aware of any application there.

**Action 2:** This will be followed up for inclusion in the meeting notes.

**Response provided after the meeting:** As above there is no record of a planning application being made at this stage.

**Q: Is the Brooklyn Evolution Precinct Plan just a follow up from the last one?**

A: (Susan Fitton) The previous plan was a background study setting the scene for past and existing uses. The Precinct Plan will look at issues, constraints and opportunities for the area. The background work is on the website. <http://www.brooklynip.com.au/councils/brimbank-city-council/>.

**Q: In relation to the industry breakfasts – will you be inviting all local companies?**

A: (Susan Fitton) These will be targeting manufacturing industries and are still in the planning stages. More details will be provided once the planning stage is completed.

**Action 3:** More details will be provided when these meeting notes are distributed.

Meredith Sussex advised that the contract has been let for the extension of the bike path from West Sunshine down Kororoit Creek to the Federation trail. This will get underway soon and is due for completion in July 2012.

**Item 6. Richard Marks, Manager Pollution Response, EPA Victoria - Update on dust, noise and odour program**

Richard noted that the EPA is aware of some frustrations around odour reporting. He apologised on behalf of the EPA and said that processes are being improved.

Despite improvements, offensive odours are tracking above target. In terms of dust the trend is downwards – showing significant improvement, but still above target. The update included work with the Councils to minimise impacts on predicted poor air quality days. Roads modelling results showed some interesting results around road conditions and the dust generated by roads.

**Slide 2 Offensive odours & EPA actions**

FEBRUARY 7 ODOUR INCIDENT ALTONA NORTH/BROOKLYN

- Suspected discharge of ethyl acrylate on 7 February 2012 from container cleaning operations
- Over 30 reports received from community in Altona North, Brooklyn, Sunshine and Braybrook.
- Attendance of incident by 3 EPA officers and MFB
- Investigation continues.

**Slide3 Enforcement actions**

- Charges served on Hyde Park for incident in June 2010
- Investigation continues for Australia Tallow Producers incident in June 2011
- Investigation commenced for incident on February 7 2012 with a view to sanction.

**Slides 4 & 5 Pollution Reporting**

**COMPLIANCE**

- Companies are on track to comply with notices

**NEXT STEPS**

- Statutory tools in place on Australian Tallow, Swift, Cargill, Brooklyn Meats
- Odour surveillance program to commence in Autumn
- Looking at second tier odour sites (Note supplied after the meeting: In the first round of odour surveillance from 2008-2009 5 sites were identified as emitting 75% of odour in Brooklyn – Swift, Tallow, Sita, Cargill. These sites are more or less under control. A further round will reveal how much things have improved and who to target next.)
- Thanks for continuing to report pollution
- It is vital in supporting enforcement actions and tracking progress
- EPA endeavours to call back all reporters within 3 days but due to volumes of reports this is not always possible
- If you haven't heard from EPA after 3 days you can call to get an update from our customer service team.

**Slide 6 Offensive Odours – Results**

Results are tracking above the target and had hoped to be half the yearly target. EPA is confident targets will be met as further controls such as new buildings, venting and other infrastructure come on line at Australian Tallow and Cargill. These reports are for the Brooklyn, Tottenham, Yarraville and Altona North areas.

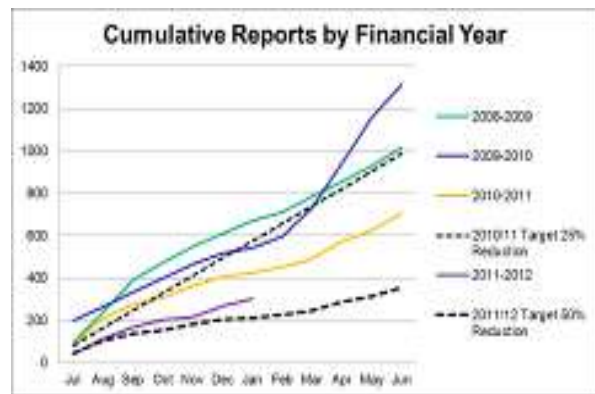


Fig 1

**Slide 7 Veolia Works Approval**

- Veolia have an application at EPA to install a thermal desorption unit at their Brooklyn plant
- Community had been canvassed
- Veolia will be invited to present the proposal to BCRG
- The proposal should not have any adverse impact to odour in the area.



Fig 2

**Slides 8 & 9 Monthly PM<sub>10</sub> data for Brooklyn**

- PM10 (10 microns or larger) exceedences per month have dropped, due to weather and actions implemented by industries. We are not currently on target for 10 or less exceedences this year. EPA has conducted analysis and will take additional action to target roads and industry found to be non compliant. January had 50% the average rainfall but only recorded one exceedence. We had 5 times the rainfall last January when we had 2 exceedences.
- Over target at this stage, data includes extreme weather event on Sunday 5th February.

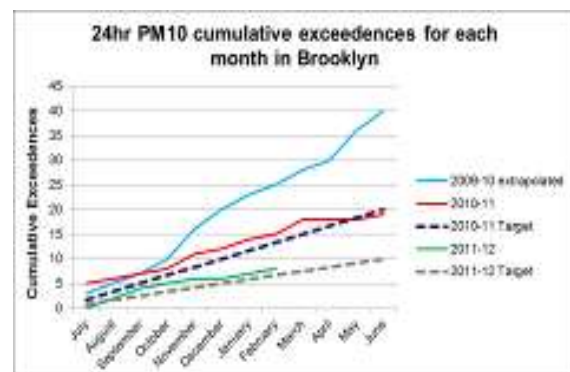


Fig 3

### **Slides 10, 11 & 12 Particles (Dust) – Update**

**For the latest EPA Summary of Air Monitoring at Brooklyn see Attachment 1.**

- Significant improvement but more work required
- Poor air quality is much more likely to occur in Brooklyn on weekdays
- Dust event on Sunday 5 February 1st weekend exceedence
  - by 5 ug/m<sup>3</sup> despite 100 km/h winds
- Levels of PM<sub>2.5</sub> in Brooklyn are consistent with other locations in Melbourne
- Improved dust management practices by local industries has had an impact on reducing dust.
- Analysis of meteorological data indicates about a 23% reduction in average PM<sub>10</sub> levels during 2010-11 and about 32% for 2011-12 so far (up to the end of October), were due to improved dust management practices even when taking into account changes in rainfall
- Surveillance of critical roads conducted by EPA officers December 2011. Identified dust generation at Old Geelong Rd, Jones Rd, Cemetery Road and Bunting Road
- Letters have been sent to councils and VicRoads by John Merritt
- Brimbank and VicRoads have already volunteered to clean roads prior to predicted poor air quality days
  - EPA provide notice
  - Brimbank commenced program 16-17 Jan
  - Significant reduction (1 minor breach)

### **Slide 13 Further Work**

- EPA to keep targeting industry for dust and odour.
- EPA sends officers out on all days predicted to cause dust exceedences.
- Dust work moving into the next phase, we are currently fingerprinting component analysis to try and trace PM<sub>10</sub> to sources.
- Targeting roads and road verges which are a source and a vector.
- 8 exceedences so far 2011/12, if we reduced PM<sub>10</sub> by 15% there would only be 3 so far.

### **Slides 14 & 15 Roads Modeling Results**

- EPA has received final report from consultancy NetBalance
- Jones Rd represents 14% of total mass of PM<sub>10</sub> emitted by Brooklyn Industrial Precinct
- Bunting Rd represents 19% of total mass of PM<sub>10</sub> emitted by Brooklyn Industrial Precinct
- Both roads account for 1/3 of emission overall.
- If all other sources were eliminated the roads alone would create 1 exceedence per year.
- Modeling and photographic evidence supports that roads are a significant contributor to particle levels in Brooklyn.
- If Bunting Road and Jones road were both paved and wheel washes installed at all sites utilising these roads, emissions from the roads would be cut by more than half.
- If Jones Road were paved and Bunting Road was closed to traffic with no other controls, emissions from the roads would increase by 35%
- EPA will release a full community bulletin on the modeling

### **Slide 16 Roads**

- EPA has considered the contribution of roads to the PM<sub>10</sub> issue in the area. Modeling shows potential contribution of 1/3 of PM<sub>10</sub> levels on high dust days
- Surveillance monitoring showed considerable dust being generated by traffic on these roads on a dry day with north winds.
- Areas of interest to achieve gains are: Jones and Bunting Roads, Cemetery Road and verge (Hobsons Bay side), Somerville Road and verges, McDonald Road, Old Geelong Road, Francis Street and Paramount Road.

Slides 17 - 20



**Question: What is the expectation about dust generation from sites?**

Answer: The expectation is that no dust leaves the premises. Some industries cease operations on extreme weather condition days eg Delta.

**Action 4:** The EPA will provide some examples of industries that do shut down on bad days in the meeting notes.

**Response provided after the meeting:** City Circle and on occasion Delta and Western Land Reclamation are all known to have ceased work on extreme weather days.

**Q. Were there exceedences at other monitoring locations on the extreme wind day in Feb?**

A. No, but other locations came close – it was an extraordinary day.

**Jen Lilburn - Community Satisfaction Survey**

Jen drew everyone's attention to the results from the survey conducted at the last meeting and also May 2010 and November 2010 indicating higher community satisfaction regarding processes to resolve odour and dust problems in the general Brooklyn area. Jen presented this at the last Brooklyn Interagency Strategic Partnership Group meeting and she hoped that it showed the senior managers of councils and state agencies that the actions of their organisations and their staff are making a difference in Brooklyn. These results are available again in **Attachment 2**.



**Item 7. Olga Ghiri, Stakeholder and Community Liaison Officer, Transpacific Industries Group Ltd.**

Olga gave an overview of the operations and plans for the Transpacific Industries Group Ltd plant based in Brooklyn. Her presentation provided an outline of remediation processes and rehabilitation for its sites. TPI also owns Cleanaway. Olga also outlined her role in connecting with the community.



Recover Recycle Reuse

www.transpacific.com.au

**Waste Management...a vital community Service**

**Slide 2 Brooklyn Operations**

**Old Geelong Road:**

- Waste Transfer Station and Resource Recovery
- Green Organics Mulch Facility
- Landfill (ceased in January 2010)

**Market Road:**

- Landfill (accepts solid inert waste)

Timber and hard greens are mulched. Metals, batteries, gas bottles, mattresses and cardboard waste accepted and recycled. Bricks, concrete and rubble accepted and used onsite to construct haul roads.



Fig 5 Transpacific

**Slide 3**



Fig 6 Slide 3 TPI Sites in Brooklyn

**Slide 4 Old Geelong Road Landfill**

- Landfill ceased operating January 2010.
- Capping commenced August 2010.
- Capping to be completed September 2013.



Fig 7

**Transpacific is responsible for the ongoing environmental management of all its sites, even after they close.**



## Slides 5 & 6 Old Geelong Road Transfer Station

Facilitates the disposal, recovery and recycling of various waste:

- Residential and hard waste.
- Commercial and industrial waste.
- Hard green waste and hard kermit kerbside collection waste.



Fig 8 TPI Sites in Brooklyn

- Accepts hard green waste and untreated timber received from the general public.
- Mulch is also produced at the site by shredding hard greens and curing the material in windrows.

## Slide 7 Market Road Landfill

- Accepts solid inert waste from commercial, industrial, building and demolition sectors.
- Estimated to reach capacity by mid 2012 (*based on current waste acceptance rates*).
- Aerial survey conducted every six months to examine airspace remaining.



Fig 9

## Slide 8 Remediation Remedies - Reducing the likelihood of landfill gas odour

- Gas extraction system installed at Old Geelong Road landfill.
- TPI also installing over 40 new gas extraction wells which will be hooked up to a flare at Market Road.



Fig 10

### Slide 9 Remediation Remedies - Reducing odour from mulch windrows

- Mulch is produced on site and stored in windrows (big piles).
- TPI only accepts hard greens (branches, twigs, leaves) and lawn clippings.
- Windrows are regularly monitored and turned every 7-10 days to allow material to break down in the presence of oxygen.
- An active enzyme “BioWish-Odor” is sprayed to suppress potential odour.



Fig 11

### Slide 10 Remediation Remedies - Litter

- Wind swept litter trapped by purpose built fences.
- Stray litter is collected by staff.



Fig 12

### Slide 11 Remediation Remedies - Dust

- Traffic speeds limited to 15km/h on all sites
- Internal and main access roads regularly sprayed with water
- Soil stockpiles are sprayed with dust suppressants or covered with clay



Fig 13

### Slide 12 Remediation Remedies – Road surface management

- Wheel wash and rumble bars installed.
- Regular use of street sweeper.
- Ongoing inspection and monitoring.



Fig 14



**Slides 13 & 14 Rehabilitation – Jones Rd**

- Part of TPI’s Stormwater Management Plan and capping works for the site.
- Bund wall
- Planting



**BEFORE – September 2010**



**NOW**

Fig 15 Jones Rd, Rehabilitation Works

**Slides 15 & 16 Connecting with the Brooklyn Community**

- Operator assisted 24/7
- All calls recorded and investigated
- 24 hour response time
- Fridge magnet produced
- It’s free!



**Slide 17 Stakeholder Newsletter**

- Issued February 2012
- Community and stakeholder distribution

**Slide 18 Community Updates**

- Local paper advertisements
- Update on remediation works
- Information i.e. fact sheets, Q&A



**Slide 19 Community Engagement**

- Attendance at BCRG
- Site visits
- Sponsorships / Community programs

**Slide 20 Supporting the Federation Trail project**

- 1000m3 of mulch donated
- The new trail links north-east and south-west Brooklyn
- BRAG is hosting a working bee **19 February**



Fig 16

**Item 8. Sean Carroll, Brooklyn Plant Manager, JBS Australia Pty Limited**



Sean was joined by Troy White, Group Environmental Manager and Hector Burton, Environmental Manager Brooklyn who were in the audience. Sean explained that JBS (often referred to as Swift's) is the largest meat producing and processing company in the world and in 2008 bought Tasman Meats in Brooklyn. Information was provided on the size and processes undertaken by the company. The presentation outlined details of environmental improvement works undertaken by JBS since taking over the site from Tasman Meats.

**Slide 2**

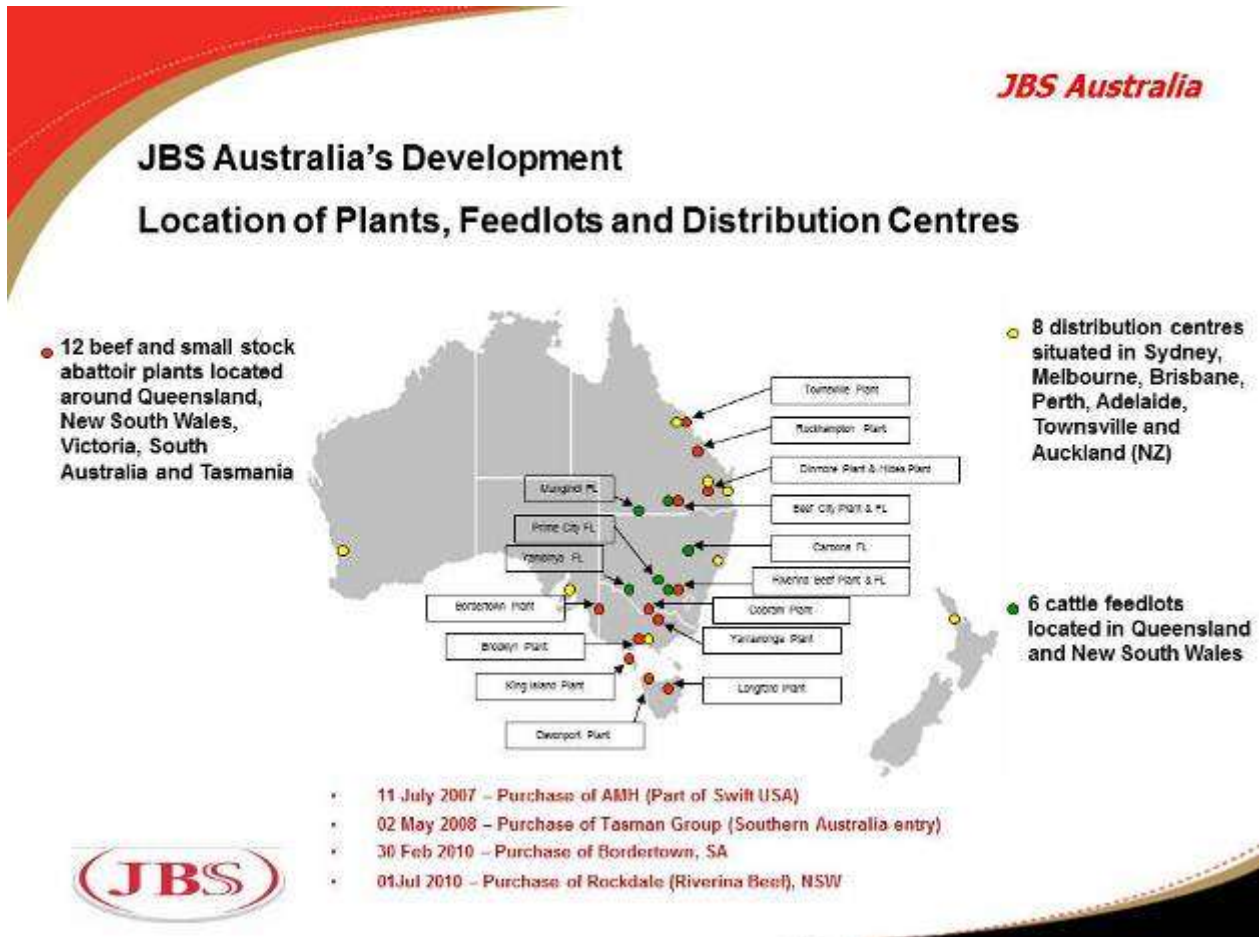


Fig 17

**Slide 3 JBS Brooklyn Processing Plant**



Fig 18

#### **Slides 4 & 5 JBS Brooklyn Processing Plant**

- Largest multi-species processing plant in Australia.
- 1400 Beef Kill capacity per day.
- 7600 Smalls Kill capacity (Lamb, Sheep, Goat, Calves) per day.
- Boning rooms
- Value adding room
- Rendering plant
- Skins salting
- Largest cold storage facility owned by JBS in Australia, with the capacity to store 280,000 cartons.
- Brooklyn is the main distribution facility for JBS's Victorian and Tasmanian plants.
- Brooklyn Plant Employees - over 60 different nationalities!
- When in full production we have approximately 1100 employees, employed over two shifts.

#### **Slides 6 & 7 The Brooklyn Environment**

- The facts at acquisition May 2008
  - Large export food business located in an industrial precinct with incompatible high impact neighbours – dust, projectiles
  - Nearby residents affected by the Brooklyn Precinct – odour and dust
  - Inherited a site with a history of poor environmental performance
  - Post acquisition fine and costs for Tasman (\$145,000) and previous Director Gilbert Cabral (\$80,000) based on pre JBS actions
  - January 2009 pump failure and impact to Stony Creek (\$60,000 plus costs)
- The issues after acquisition May 2008
  - At acquisition there were clear expectations of JBS by the EPA to resolve outstanding issues (odour and water quality) and deal with the expectations of the local community in relation to the impact of the Brooklyn Precinct.
  - There was a history of non compliance by the site as accepted practice.
  - JBS has a proven track record of environmental performance and industry leadership

#### **Slide 8 JBS Brooklyn Capital Works and Investment Since Acquisition**

	<b>TOTAL \$3,663,704</b>
• Construction of new biofilter	\$1,059,070
• Automated Bone Shed Doors	\$25,000
• New Dissolved Air Floatation Unit (DAF)	\$1,011,166
• Refurbishment of existing DAF	\$450,000
• New stormwater piping	\$112,000
• Stormwater Triple Interceptor	\$57,720
• Weather Monitoring Station	\$1,877
• Yard Cleaning and Maintenance Equipment	\$34,557
• Wastewater screening area upgrade (baleen)	\$886,314
• Refurbishment of new biofilter	\$26,000

#### **Slide 9 A new biofilter**

- It became clear quite quickly that the existing biofilters inherited from Tasman were not sufficient
- In 2009 JBS made the decision to spend \$1,059,070 on a new, professionally-designed biofilter
- Construction began in September 2009
- Final commissioning in early 2010 – excellent odour destruction of about 90%
- As the medium aged and some dry spots emerged in the biofilter it required a refurbishment – subject of EPA PAN NO 9748
- \$26,000 spent on refurbishing the biofilter and upgrading the irrigation system - biofilter currently performing excellently



### Slides 10, 11 & 12 A new biofilter



Biofilter foundation being laid  
October 2009

Using the longest-reach excavator in  
Victoria to mix and turn the biofilter  
during refurbishment in September 2011

The biofilter as it looks in 2012  
– **90% odour destruction**

Fig 19 A new biofilter

### Slide 13 Improvements in the waste water treatment plant

- In 2010 JBS made the decision to upgrade its waste water treatment plant pre-screening area
- Work began in October 2011 and is nearly complete
- The EPA issued a PAN (NO 9746) for this work on 31 October 2011
- Cost of the project was \$886,314
- We have enclosed some of the more odorous activities involved with our waste water treatment in a building
- The air from the building is now ducted to the biofilter where the odour is treated

### Slides 14 & 15 Improvements in the waste water treatment plant



New building housing the first  
part of our waste water treatment plant

Rear view of the building showing ducts to biofilter

Fig 20 Waste Water Management Plant

## Slide 16

Not all the projects are big  
– enclosing a waste water open drain to contain odour – completed early 2011



Fig 21 Enclosed drain

## Slide 17 Future vision for JBS Brooklyn

- No outstanding PANs for the site for either odour or dust – currently all have been revoked by the EPA
- Continue proactive communications with EPA and local residents – informing all of our continued environmental improvement plan
- JBS goal is zero odour complaints for 2012
- JBS is committed to continue business at our Brooklyn plant for many more years to come providing work for over 1000 people and high quality products for the world

## Item 9. Nicholas Fisher, VicRoads, Manager Program Development, Metropolitan North West Region

Nick explained that VicRoads manage and maintain freeways and arterials under the Road Management Act. On freeways management includes everything from fence to fence. On the arterial network everything inside the curb lines on arterials is the responsibility of Vic Roads including any centre mediums. Where there is no curb and channel eg in rural areas and Francis St the Road Management Act specifies Vic Roads is responsible for everything from the 'edge of the seal' and 3 metres beyond the seal. Beyond that is Council's responsibility.

Over the past two years, Vic Roads was part of an enforcement blitz along with EPA and Brimbank CC in 2010 involving Paramount Rd and Francis St targeting trucks. In 2011 Vic Roads undertook some verge trimming along Market Road area, which has proved effective. Also continued with normal enforcement of trucks on road. Vic Roads undertakes a maintenance program including an 8 weekly sweep of its roads. Additional sweeps are done at the request of the EPA especially along Francis St.

Nick met with Jen Lilburn in 2011 and saw firsthand the amount of dust generated on Francis St on a relatively normal day. Last year VicRoads installed wire rope safety barriers and *No standing* signs have been erected to prevent trucks from stopping on unsealed sections of road. A number of container parks are unsealed which leads to dust and mud being transferred onto arterial roads. New industries have to apply for a permit and VicRoads are one of the referral agencies. Unfortunately some of the yards have been there a lot longer than this requirement. JBS Australia have demonstrated some of their initiatives and this is terrific given there is not statutory requirement for that.

**Item 10. Panel Discussion and Questions** (relevant presentations can be seen at Items 4, 6, 7, 8 & 9)

**Panel members:**

- EPA - Richard Marks
- Brimbank CC - Carey Patterson
- Maribyrnong CC – Foti Beratis
- Hobsons Bay CC – Malcolm Ramsay
- Transpacific Industries – Olga Ghiri
- JBS Australia – Sean Carroll
- VicRoads – Nick Fisher

**Statement** - **Malcolm Ramsay** advised that Adamsteph have sealed their container yard in Francis St opposite Export Drive and Tasman Logistics have given an undertaking to seal their yard before Christmas.

**Question 1 – for Olga Ghiri (TPI)**

**The capping of the Geelong Rd site looks to be almost finished. When is TPI likely to plant this area out?**

**Response – Olga Ghiri**

Although it looks 90% complete, there is still quite a lot of work still to be undertaken. It is estimated that it may take a further 12-18 months before the area can be grassed. The planting will be done as soon as possible.

Planting of the perimeter bund wall along Jones Rd and the perimeter bund wall along the southern boundary was completed late last year. The area between the bund walls and the fence was mulched and the top of the bund walls were planted with drought resistant trees - She Oaks and Sugar Gums. The Sugar Gums were planted at 10 metre intervals and the She Oaks were planted at 2 to 3 metre intervals. Grassing of the capped area will take place as soon as all the layers of the cap are completed. This is expected to take another 12-18 months approximately weather dependent.

**Question 2 – for Olga Ghiri (TPI)**

**In the minutes from BCRG in 2008 TPI indicated much earlier closure than the four years that have passed. The community would like to see some action. Things have not progressed as expected – when will the sites, Geelong Rd and Market St, be finished?**

**Response – Olga Ghiri**

Olga indicated that she would be happy to investigate the 4 year delay in the site being closed and report back through the next meeting or meeting notes.

**Action 5:** Olga to follow up.

**Response provided after the meeting:** Old Geelong Rd landfill has not accepted waste since January 2010 – capping of the site is now underway. A transfer station and mulch processing area still operate at the site. Closure dates for Market Rd landfill is reviewed every six months. An aerial is used by a surveyor to determine the current contour level of the site and this is measured against the approved contour plan to determine the amount of airspace still available and the estimated closure date. These dates are estimates only, Transpacific has consistently said that these dates depend on future waste throughput at the site as well as the rate of settlement. The Market Rd landfill is 50 metres deep, hence there has been a lot of settlement in the past few years which means that filling has taken longer than expected. There has been no delay by Transpacific in filling the site. The Market Rd site is currently estimated to stop taking waste by the end of this financial year – June 2012.

### **Question 3 – for Olga Ghiri (TPI)**

**What is the long term intention for these sites? Will the organics and landfill operations continue in perpetuity?**

#### **Response – Olga Ghiri**

Olga is not aware of an end date for these operations.

**Action 6:** Olga to follow up and provide information for the meeting notes.

**Response provided after the meeting:** Old Geelong Rd landfill stopped accepting waste in January 2010. The transfer station and mulch processing areas are still operational, an end date is not yet known. Transpacific has a licence to process mulch at the site, however the transfer station is not a scheduled activity and does not require an EPA licence. Market Rd landfill is expected to cease taking waste by June 2012 and following this, the site will be capped. It is not yet known what the long term intentions are for the site. Transpacific must manage ongoing environmental liabilities at both sites such as leachate and gas, even after they stop accepting waste and the area is capped. This requires ongoing rehabilitation works and infrastructure to be in place such as gas wells, flares, leachate dams and leachate sumps.

### **Question 4.**

**Has anyone contacted VicTrack about their land?**

#### **Response – Carey Patterson**

Brimbank CC has had some discussions on the land and whether they can dispose of it. Some of the land is privately owned already.

### **Question 5 – for Richard Marks (EPA)**

**You said that the biofilters at JBS have reduced odours by 90% - what does this mean?**

#### **Response – Richard Marks**

This is about what a biofilter can achieve, whether this is enough is not known as yet. The most efficient Biofilters destroy 90% of odour, in most cases this is enough as the remaining odour is mostly due to the biofilter packing medium itself. The remaining odour would then disperse and be below 1 odour unit by the time it reaches residential areas. Modelling of the remaining emissions would confirm this.

Any medium used in the biofilter will still emit some odour, an earthy odour not the rendering type odours. EPA is required to monitor those levels to make sure they don't exceed regulations.

**Sean Carroll** advised that the process for cleaning waste water generates odours that are then captured and directed to the biofilter.

### **Question 6 – for Richard Marks (EPA)**

**grading the road verges, when concrete curbs were put in they were level with the soil. Unless we address the mud being brought onto the roads from trucks sites, the problems will continue.**

#### **Response - Richard Marks**

We agree and there are some industry owners who are sealing their sites at great expense (~\$3million) in an attempt to resolve this issue.

### **Question 6 – for Malcolm Ramsay HBCC**

**What spending will be directed at resolving problems on Cemetery Road?**

#### **Response - Malcolm Ramsay**

**Action 7:** Malcolm to report back via the notes and before the May meeting.

**Response provided after the meeting:** See the letter from Bill Jaboor, HBCC Chief Executive Officer to the EPA in **Attachment 3**.

**Question 7 – for Richard Marks (EPA)**

**It was mentioned before that there are problems with people dumping along Kororoit Creek – can EPA use cameras to identify dumpers?**

**Response – Richard Marks**

It seems there was a broken gate which is being replaced, but EPA is taking action. There is a difference in the law between dumping on open area or breaking into a closed site.

**Statement**

**If the EPA is having discussions with Melbourne Water can we suggest they get down along the northern side of Kororoit Creek where there is a big build up of rubbish just waiting to be washed down into the creek again with the next heavy rain?**

**Statement: Matt Ead from Veolia –**

Following our community consultation in May 2011, Veolia has lodged an EPA works approval and planning permit application which will be advertised shortly. Matt also introduced Dan Watts who is the new plant manager. Flyers were made available at the meeting.

**The meeting closed at 8.32pm.**





INFORMATION BULLETIN

## SUMMARY OF AIR MONITORING AT BROOKLYN YEAR 2: NOVEMBER 2010 TO OCTOBER 2011

Publication 443 February 2012

Authorised and published by EPA Victoria, 200 Victoria Street, Carlton.

### KEY MESSAGES

- Air quality in Brooklyn improved significantly during the second full year of air quality monitoring compared to the previous year. However, more improvements are required.
- A study analysing the composition of the particles found all compounds monitored were measured at levels below the human health guideline used for assessment.
- Particle emissions from the Brooklyn Industrial Precinct continue to impact on the surrounding residential area in Brooklyn. Particle levels measured in Brooklyn air are worse than at other monitoring locations around Melbourne.
- Poor air quality generally occurs in Brooklyn on weekdays, particularly mornings, during strong and persistent northerly winds.
- The recent air quality improvements in Brooklyn are due to increased rainfall and improved dust management practices by local industries.

### BACKGROUND

#### What is being monitored?

The monitoring program is measuring the quantity and impact of particles in the local region. Particles have been monitored as the mass of particles in the air smaller than 0.01 millimetres or 10 micrometres ( $PM_{10}$ ) and also fine particles smaller than 0.0025 millimetres or 2.5 micrometres ( $PM_{2.5}$ ).

Chemical analysis of  $PM_{10}$  collected in air at the Brooklyn site over a 12-month period was conducted to determine the composition of the particles. Sampling and analysis was also undertaken during the whole year for benzo (a) pyrene, a pollutant associated with motor vehicle emissions and other burning and combustion emissions, and  $PM_{10}$  respirable crystalline silica. Samples were also collected at Footscray to determine local background levels.

Sampling and analysis for asbestos took place over eight days during a two-month period. This included sampling on some high particle level days at Brooklyn to determine indicative levels for screening purposes. In all samples, asbestos was below detectable limits.

#### When did monitoring start?

Air monitoring stations have been continuously monitoring air quality from a residential area in Brooklyn since late October 2009.

#### Where is the monitoring happening?

As part of the monitoring program in Brooklyn a second site in nearby Sunshine West was installed in September 2010 to monitor for particles north-west of the local industrial estate, complementing the Brooklyn site (Figure 1).

EPA has a network of long-term air monitoring sites across the state, including stations measuring for particles elsewhere in Melbourne's western suburbs at Deer Park and Footscray.



Figure 1: Aerial image showing the location of air monitoring sites and the industrial estate.

### HOW DID EPA ASSESS THE MONITORING RESULTS?

$PM_{10}$  levels were compared against state and national air quality objectives and goals and  $PM_{2.5}$  against the state and national advisory reporting standards (Table 1). The objectives are set at levels that protect human health. The goals, expressed as a maximum number of high pollution days per year, are used to guide strategies for the management of activities affecting our air quality.

Compounds analysed for particle composition – benzo (a) pyrene and respirable crystalline silica – were



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**SUMMARY OF AIR MONITORING AT BROOKLYN  
YEAR 2: NOVEMBER 2010 TO OCTOBER 2011**

assessed and compared to Australian or US annual average human health guidelines. Indicative asbestos screening levels were compared against an eight-hour workplace human health exposure standard. References for the assessment criteria used are detailed at the end of this publication.

Table 1: PM<sub>10</sub> & PM<sub>2.5</sub> assessment criteria<sup>1</sup>

Pollutant	Averaging period	Objective	Goal
Particles as PM <sub>10</sub>	24 hours	50 µg/m <sup>3</sup>	No more than 5 days
Particles as PM <sub>2.5</sub>	24 hours	25 µg/m <sup>3</sup> *	n/a
Particles as PM <sub>2.5</sub>	annual	8 µg/m <sup>3</sup> *	n/a

\*-advisory reporting standard  
n/a - not applicable

**FINDINGS**

The key findings from the second year of air quality monitoring in Brooklyn is outlined below.

- Air quality in Brooklyn is getting better. The number of days when PM<sub>10</sub> levels were measured above the air quality objective during year 1 (November 2009 to October 2010) was 38, compared to 16 for year 2 (November 2010 to October 2011).
- Although the PM<sub>10</sub> levels met the air quality objectives on more than 95 per cent of days during the second year of air quality monitoring, further air quality improvements are still required in Brooklyn to meet air quality objectives and goals.
- The level of PM<sub>10</sub> in Brooklyn is worse than in other parts of Melbourne where air quality is monitored.
- Levels of fine particles (PM<sub>2.5</sub>) did not exceed the advisory reporting standards, and levels in Brooklyn are similar to other parts of Melbourne.
- Poor air quality is most likely to occur in Brooklyn on weekday mornings during northerly winds.
- The improvement in Brooklyn's air quality is linked to an increase in rainfall and improved dust management practices by local industries.
- A study analysing the composition of PM<sub>10</sub> found all compounds monitored were measured at levels below the human health guideline used for assessment (Table 2).
- The chemical elements chlorine and bromine were not measured as chlorine or bromine gas. The majority of the chlorine-containing particles were found to be naturally occurring sea salt – mainly sodium chloride. Consequently, sodium chloride was used to assess the levels of the particles containing elemental chlorine. There is no US

guideline for particles containing bromine; a guideline only exists for bromine gas (700ng/m<sup>3</sup>).

Table 2: Results for PM<sub>10</sub> composition analysis

Compound	Brooklyn Annual average (ng/m <sup>3</sup> )	Footscray Annual average (ng/m <sup>3</sup> )	Guideline annual average (ng/m <sup>3</sup> )
Elemental chlorine (not chlorine gas)	1,541	1,351	
Sodium chloride <sup>2</sup>			5,000
Silica <sup>2</sup>	1,491	825	5,000
Iron <sup>2</sup>	734	363	5,000
Calcium <sup>2</sup>	570	277	5,000
Sulphur <sup>2</sup>	446	388	5,000
Potassium <sup>2</sup>	467	324	2,000
Zinc <sup>2</sup>	71	36	5,000
Titanium <sup>2</sup>	60	33	5,000
Lead <sup>2</sup>	18	10	500
Manganese <sup>2</sup>	19	9.2	200
Phosphorus <sup>2</sup>	3.8	6.5	100
Strontium <sup>2</sup>	2.4	2.4	2,000
Copper <sup>2</sup>	81	5.3	1,000
Elemental bromine (not bromine gas) <sup>2</sup>	64	5.9	NA
Chromium <sup>2</sup>	2.7	1.7	4
Cobalt <sup>2</sup>	1.0	0.9	20
Mercury <sup>2</sup>	0.2	0.0	30
Nickel <sup>2</sup>	14	11	59
Vanadium <sup>2</sup>	0.8	1.4	50
Antimony <sup>2</sup>	0.5	0.4	3
Selenium <sup>2</sup>	0.2	0.3	200
Benz(a)pyrene	0.1	0.1	0.3
Respirable crystalline silica as PM <sub>10</sub>	below detectable limit (40)	below detectable limit (40)	3,000
Asbestos <sup>2</sup>	below detectable limit (0.01) <sup>2</sup>	below detectable limit (0.01) <sup>2</sup>	0.1 <sup>2</sup>

<sup>2</sup> - fib req/ml for 24-hour average sample

For more detailed findings and analysis, please refer to *Air monitoring in Brooklyn year 2: November 2010 to October 2011* (EPA publication 144.4).



## EPA ACTIONS TO MINIMISE PARTICLE LEVELS

To address the dust air quality issues being experienced in the Brooklyn area, EPA is undertaking the following actions:

- responding to community reports of dust, mud and odour impacts in the Brooklyn area
- issuing pollution abatement notices to control dust and mud emissions from industry
- undertaking licence and notice compliance inspections
- undertaking enforcement action where non-compliance is identified
- continuing to work with councils and VicRoads on the improvement of roads to reduce dust emissions (by sealing verges and unsealed roads)
- continued engagement with the community to address current and new pollution issues in the area
- continuing to undertake dust and odour assessments and surveys and using the results to drive compliance and enforcement activities in Brooklyn.

## WHAT ARE HEALTH IMPACTS?

The Department of Health provides the following information:

The members of our community most vulnerable to the effects of dust are infants and young children, the elderly, people with respiratory conditions (such as asthma, bronchitis and emphysema) and people with heart disease.

The most common symptoms experienced as a result of elevated dust levels are irritation to the eyes and upper airways. Elevated  $PM_{10}$  levels can increase the symptoms of existing heart and lung conditions, including asthma. For vulnerable populations, elevated  $PM_{10}$  may:

- worsen allergic reactions and asthma attacks in people with these pre-existing conditions
- worsen breathing-related problems in people with respiratory conditions
- increase the symptoms of existing heart problems.

These impacts may lead to increases in medication usage or the need for medical treatment at your GP or, in some cases, at a hospital.

## WHAT CAN I DO TO REDUCE EXPOSURE TO PARTICLES?

The Department of Health provides the following advice:

On predicted high dust days, the following precautions can help you protect yourself and your family against adverse effects of airborne dust:

- Avoid outdoor activity. If you must go outside, spend as little time outside as possible.
- Avoid vigorous exercise, especially if you have asthma or a breathing-related condition.
- Stay indoors, with windows and doors closed.
- Stay in air-conditioned premises if possible and ensure regular maintenance of air conditioner filters.
- If you are an asthmatic or have a respiratory condition and you develop symptoms such as shortness of breath, coughing, wheezing or chest pain, follow your prescribed treatment plan. If symptoms do not settle, seek medical advice.

## REFERENCES

The air quality objectives, advisory reporting standard and exposure guideline levels used to assess the air monitoring results were obtained from the following sources:

1. State Environment Protection Policy (Ambient Air Quality), Victoria Government, 1999.
2. Ambient Air Quality National Environment Protection Measure (AAQ NEPM), 1998.
3. National Environment Protection (Air Toxics) Measure, 2004.
4. Texas Commission on Environmental Quality (TCEQ), air monitoring comparison values.
5. Texas Commission on Environmental Quality (TCEQ), effects screening levels.
6. Office of Environmental Health Hazard Assessment (OEHA), California, Reference exposure levels.
7. Protocol for Environmental Management: Mining and Extractive Industries, State Environment Protection Policy (Air Quality Management), 2007.
8. Worksafe Victoria, Managing asbestos in workplaces – compliance code, 2008. Used for screening purposes.





**Attachment 2 Community satisfaction regarding processes to resolve odour and dust problems in the general Brooklyn area.**

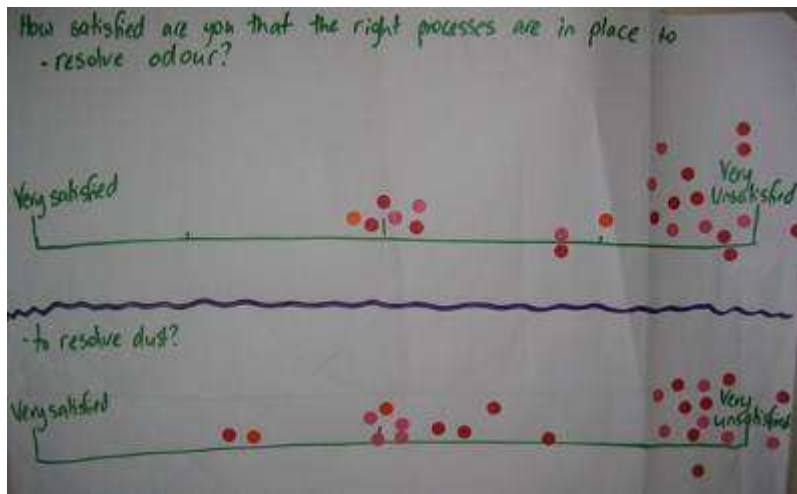


Fig 27 May 2010

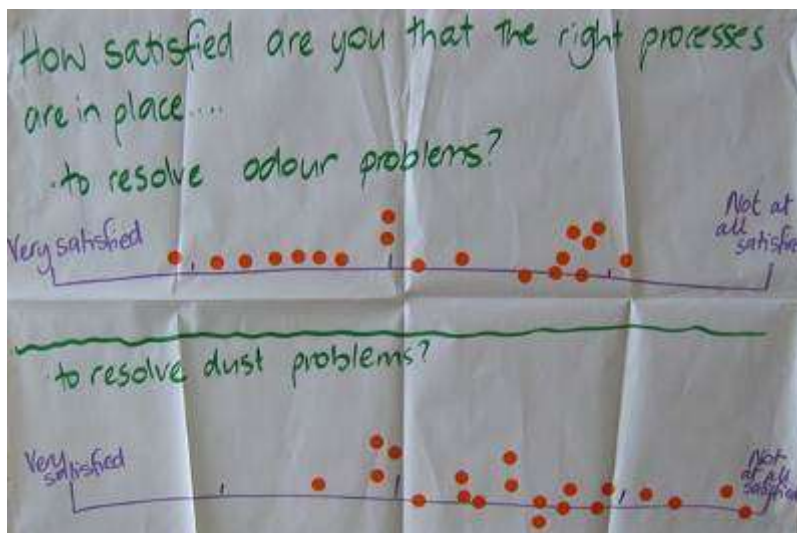


Fig 28 November 2010



Fig 29 November 2011



**Hobsons Bay**  
CITY COUNCIL

14 February 2012

Mr John Merrill  
Chief Executive Officer  
Environmental Protection Authority  
GPO Box 4395  
MELBOURNE VIC 3001

Ask for: Philip McDonald  
Telephone: (03) 9932 1190

Dear John

**REQUEST FOR ASSISTANCE IN ADDRESSING AIR POLLUTION (DUST, PM10) IN THE BROOKLYN AREA**

Reference is made to your letter dated 21 December, 2011 requesting assistance in addressing air pollution in the Brooklyn area by undertaking maintenance and upgrade works on Francis Street and Cemetery Road.

At the Ordinary Council Meeting on 7<sup>th</sup> February, 2012, the Council considered a report on dust emission issues in Francis Street and Cemetery Road, Brooklyn and resolved to advise the EPA that it will undertake the following works:

- Francis Street – work with VicRoads to undertake trial sweeping of the shoulder and verge areas and based on the outcomes of this trial, determine future action to reduce dust emissions;
- Cemetery Road – repair the failed areas of sealed road pavement, fill in potholes on the shoulder and verge with compacted crushed rock and place a guard rail/wire rope barrier to prevent trucks parking on the shoulder and verge.

I can advise that the trial sweeping of Francis Street has commenced and the results are being discussed with VicRoads. The specified works for Cemetery Road, estimated to cost \$130,000, will be undertaken in the next two months. Although these works were not specifically budgeted for the Council has been able to provide funding because of the urgent nature of the works.

It should be noted that during the on-site inspections the amount of dust emissions from adjoining industrial properties was very noticeable compared to those coming from Francis Street and Cemetery Road. I am aware that it is your intention to initiate action against these industries and the Council considers that this will result in a significant reduction in airborne dust particles.

Thank you for your assistance in addressing this issue.

Yours sincerely

  
Bill Jaboor  
CHIEF EXECUTIVE OFFICER



### **Attachment 3 The following report was distributed by Carey Patterson, Brimbank City Council.**

#### **Brooklyn Industrial Area Update – February 2012**

##### Summary

The Council & the EPA have continued to work together on enforcement activities in the Brooklyn Industrial Precinct in accordance with the Memorandum of Understanding (MOU) which acknowledged the joint responsibility Brimbank Council and the EPA have for the many local environmental issues within the municipality.

The Council has also met with the EPA in relation to the road maintenance of Jones and Buntings Roads in Brooklyn and the strategies that have been adopted to minimise the dust generation as a result of vehicle movement along the roads.

Under the MOU, EPA and Brimbank will jointly investigate and enforce complaints, collaborate on submissions and applications to VCAT, while EPA will provide technical support to help guide council in planning applications within buffer zones.

##### ***Enforcement Activity***

- A recent VCAT decision has occurred which requires the operators apply for a planning permit by March 5<sup>th</sup> or should they not get a permit approved by the Council by the 12<sup>th</sup> July, they will be required to vacate the land. The decision allows for the Council to extend the timeframe for the issue of the permit if they are satisfied the owner is making every effort to obtain the permit.
- 12 tenants of the land at 69 Bunting Road have been advised they had thirty days in which to apply for a permit or vacate. If they did not have a permit by 2<sup>nd</sup> July, then an enforcement order would be granted at VCAT requiring them to vacate.
- Site inspections have occurred with the EPA on the land adjacent to the Kororoit Creek in relation to the landfill which has occurred.
- Investigations are continuing in relation to the ongoing illegal occupation of a section of the Road Reserve at the end of Old Geelong Road.
- The One Steel site has been visited in relation to the material being stored on site and they have been advised a further inspection is being arranged to do a full compliance inspection of the property.
- We have referred a number of issues to the Planning enforcement team at Wyndham in relation to various uses occurring on the Wyndham side of the Kororoit Creek and the EPA is also assisting in having the operators of these sites address the operational activities.

##### ***Brooklyn Road Works Update***

- The drainage issues that are being experienced towards the northern end of Jones Road will soon be addressed by the construction of underground drainage in Jones Road, discharging to existing drainage at the end of Bunting Road.
- Tenders have closed for the \$500,000 (approx) project and works are expected to commence in late March as there has been agreement reached with the contractor on the site (Delta) to move a rock stockpile away from the line of the trench alignment through their land.
- At this stage it is on track to have the drains installed by the end of June 2012 (this financial year).
- The Council operations team will continue to undertake dust suppression treatments to the various road surfaces as and when required.

- The Council operations staff is continuing with interim arrangements associated with drainage works in Jones Road Brooklyn which also involves the pumping of storm water which is overflowing into Jones Road from the adjoining properties.
- The road sweeping program will continue on a programmed basis.
- The condition of Bunting Road continues to be monitored and grading and rolling is occurring as required.

Council is currently assessing 1 new application that has been received for works within the Brooklyn Industrial Precinct. It is anticipated that it will be advertised to the BCRG shortly.

**Planning Compliance Team  
February 2012**

**Meeting Attendance Record – 15 February, 2012**

36 people registered their attendance at the desk:

Name	Organisation	Name	Organisation
Adrian Masterman-Smith	Resident Altona North	Le Ha Le	Brooklyn Strategy Committee
Bert Boere	BRAG	Leighton Black	Australian Tallow Producers
Brian Long	BRAG	Lowen Clarke	Resident
Bruce Light	On The Nose	Malcolm Ramsay	Hobsons Bay City Council
Bridie Byrne	Leader Newspaper	Marg Renwick	EPA Victoria
Carey Patterson	Brimbank City Council	Margot Harrison	Note Taker
Chris Bydder	EPA Victoria	Marie Long	BRAG
Chris Webb	EPA Victoria	Martin Hermans	Resident
Dan Watts	Veolia	Matt Ead	Veolia
Foti Beratis	Maribyrnong City Council	Matthew Fisher	JBS Australia
Geoff Mitchelmore	Resident Altona North	Meredith Sussex AM	Brimbank City Council
Greg Hughes	Sims Metal Management	Nicholas Fisher	VicRoads
Hector Burton	Resident & JBS Employee	Olga Ghiri	Transpacific
James Downs	Sita	Richard Marks	EPA Victoria
Jen Lilburn	BCRG Chair	Sally White	EPA Victoria
Joe Coleiro	Cargill	Sean Carroll	JBS Australia
Josie Scarfo	Brimbank City Council	Susan Fitton	Brimbank City Council
Laurie Bell	BRAG/Brooklyn Ratepayers	Troy White	JBS Australia

Apologies			
Andrea Mason	Executive Officer, BCRG	Nadia Verga	TPI
Barry Ennis	Annunciation School	Paul Rataczyk	EPA Victoria
Dennis Pedretti	Australian Tallow Producers	Stephen Sully	Brimbank City Council
Michael Clarke (Cr)	Maribyrnong City Council	Wade Noonan MP	Member for Williamstown
Michael Raffoul (Cr)	Hobsons Bay City Council		