



**Brimbank**  
City Council

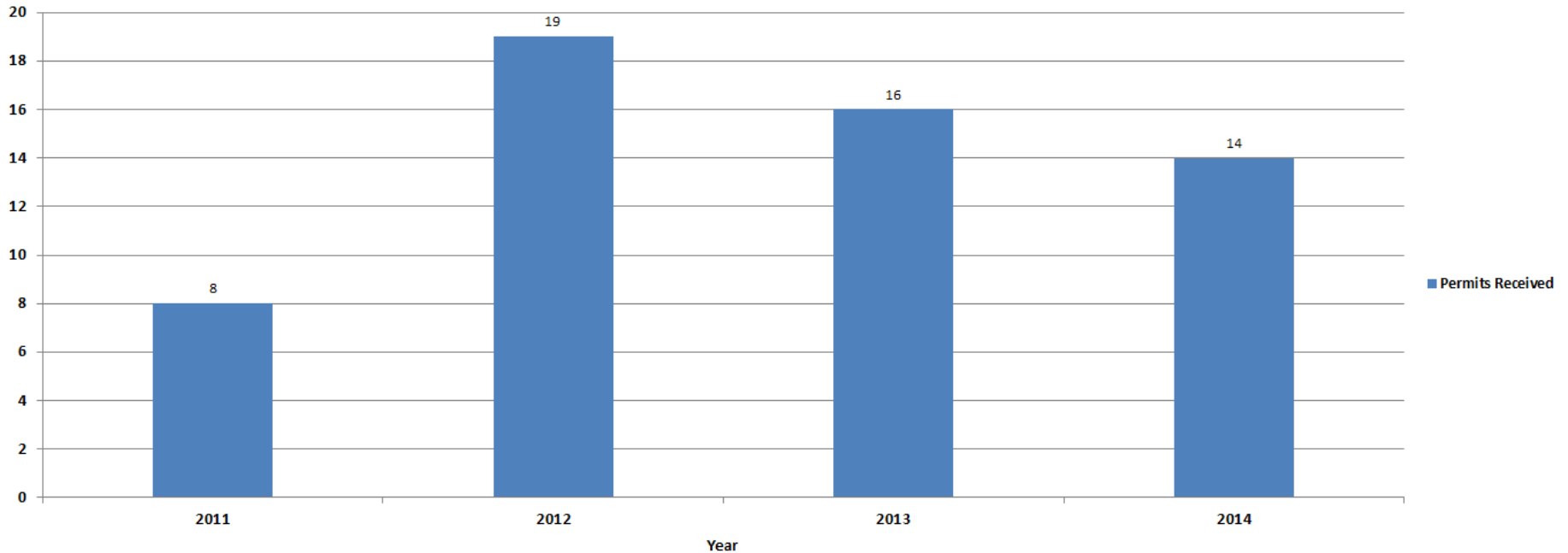
# Brimbank Brooklyn Evolution Update

**March 2015**



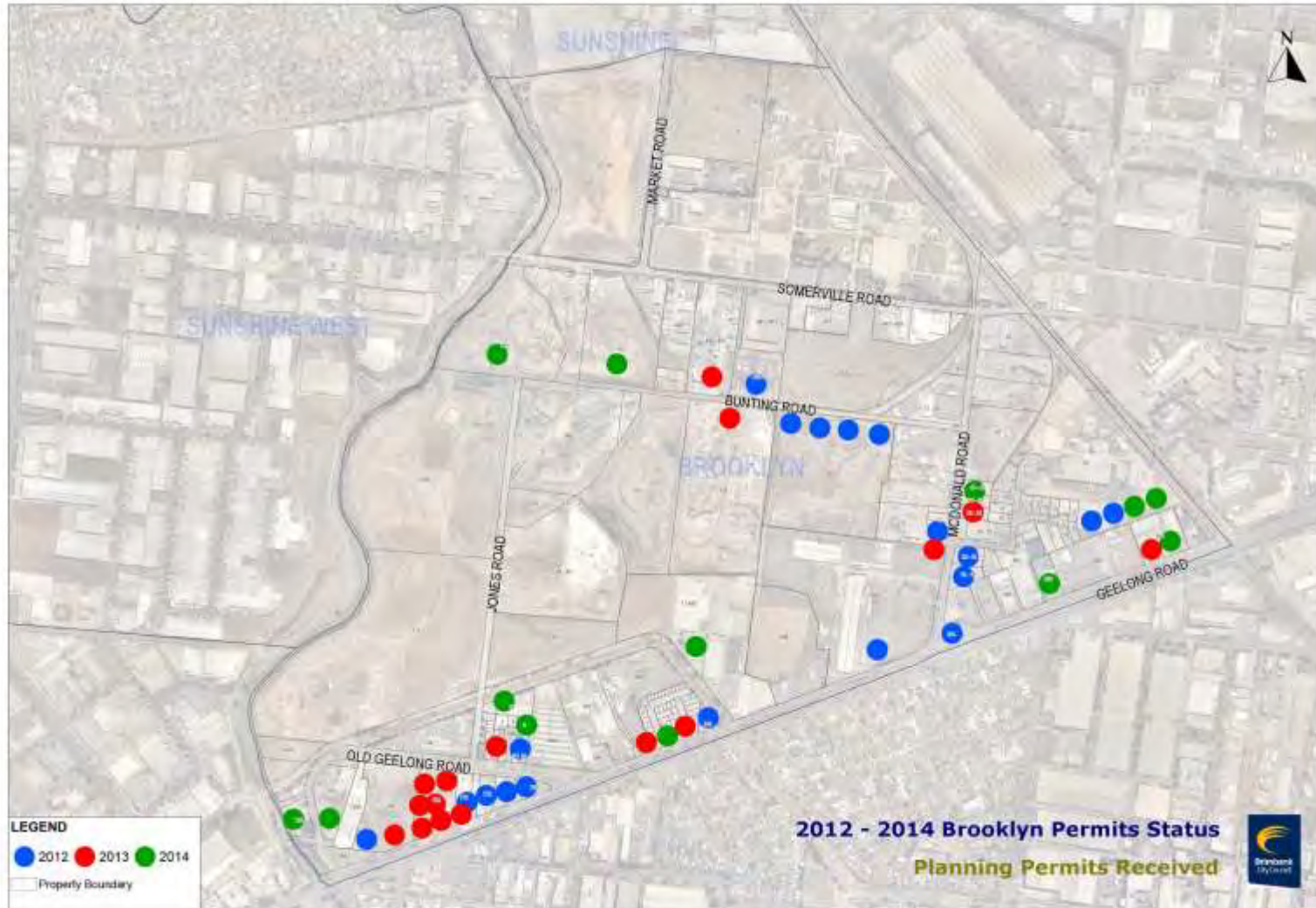
# Planning permits received

Number of planning permits received





# Location of Planning permits received

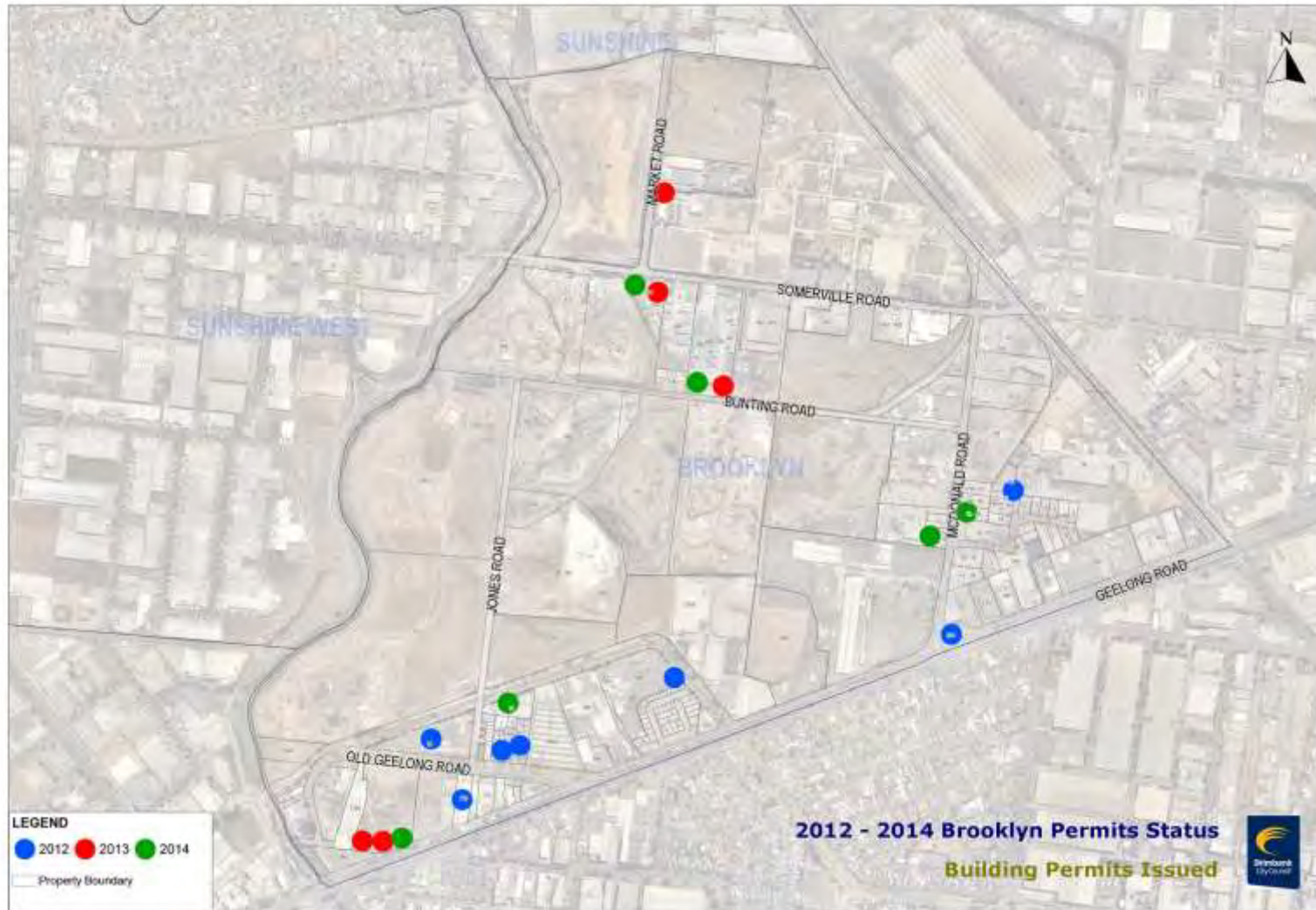


# Notable developments

- 718 Geelong Road, Brooklyn (March 2014)
  - Amendment of existing permit for inclusion of a second café & increased office floor space
- 29/650 Geelong Road, Brooklyn (June 2014)
  - Personal training studio
- 562 Geelong Road, Brooklyn (November 2014)
  - 12 warehouses, 5 offices and a gym



# Location of Building permits issued



# Bollard pilot project

- Bollards and landscaping to be installed along part of Old Geelong Rd. Trial with potential for wider implementation.



- Reduce dust, improve image, increase landscaping, reduce rubbish dumping.



**Brimbank**  
City Council

# Bollard Pilot Project



# Brooklyn Evolution Implementation

Statutory implementation				
MSS	Update MSS within Brimbank Planning Scheme to give certainty about the future role and function of the precinct as a key employment node.	Council		Short
Land rezoning	Identify sites requiring rezoning to facilitate preferred land use outcomes. Pursue rezoning along Geelong Road frontage to an Industrial 3 or appropriate Business Zone to facilitate preferred land use outcomes.	Council		Short
Development Plan requirements	Identify key sites that require master planning approach and site specific requirements to be achieved via a development plan	Council		Short
Permit Application requirements	Specify requirements for information to accompany applications to enable proper assessment of impacts - eg: <ul style="list-style-type: none"> <li>- Landfill – Assessment of impact of landfill on future development</li> <li>- Contamination – Assessment of potential soil and groundwater contamination</li> <li>- Site Management plans – stockpiling and storage,</li> <li>- Heavy Vehicle management plan - eg truck traffic routes, requirements for wheel washing</li> </ul>	Council		Short
Development Design Guidelines	Introduce design requirements for industrial development into the local planning scheme.	Council		Short
Public Acquisition overlays	Introduce Road Reservations required for road widening or intersection upgrades.	Council		Short
Section 173 Agreements/Draft Permit conditions	Include requirements for S173 Agreement or draft permit conditions for provision of infrastructure components within new planning scheme controls (eg Development overlay) (eg, Grieve Parade Extension, Bunting & Jones Rd connection)_	Council		Short

*Delivery and timing of all projects subject to Business Case and Budget approval by Council.*



# Amendment C177

- Update Brimbank Planning Scheme to:
  - Include references to Brooklyn within the Municipal Strategic Statement
  - Introduction of Design and Development Overlay to the Brooklyn industrial precinct (applies to new development)
  - Rezone land along Geelong Road from Industrial 1 Zone to Commercial 2 Zone

# Amendment C177

- Exhibition: **30 March – 15 May 2015**. Mail out, newspaper notice  
Documents available on-line at:  
Brimbank CC website and at [www.dtpli.vic.gov.au](http://www.dtpli.vic.gov.au)
- Community information session –
  - When: **Tue 14 April 2015, 3:00pm to 7:00pm**
  - Where: Transpacific Community Information Centre,  
174 Old Geelong Rd Brooklyn





# **BCRG Marketing**

# Current Marketing

- BCRG enews
  - 263 recipients
  - 95 community, 57 agency, 92 industry, 19 other
  - Leader newspapers, MMP group (STAR)
- Brooklynip website
- BRAG, YOTN
- Media stories don't mention BCRG

# Facebook

<https://www.facebook.com/BrooklynCommunityRepresentativeGroup>

It's power is in your sharing!



# Purpose of Facebook

- To raise the profile of BCRG
- To engage with a new audience
- To inform the wider community of the issues and successes related to odour, dust and noise in Brooklyn (content similar to Enews)

Admin: Andrea and Jen

Settings: High security - no public posts

Respect the values of BCRG

# Snapshot Document



## BROOKLYN COMMUNITY REPRESENTATIVE GROUP

**OUR PURPOSE** is to facilitate community, industry, local government and EPA working together to ensure that public concerns and aspirations regarding air quality, noise and dust in the general Brooklyn area are consistently understood and considered.

### NOVEMBER 2014 MEETING SNAPSHOTS

**Tashia Dixon**, Living Brooklyn Project Manager: The **Living Brooklyn Project** brings industry and government together to identify practical solutions to Brooklyn's dust and amenity issues. Its vision is a World Class Industrial Eco-Park that is the pride of place for the people working and living in Brooklyn.

The first project underway is development of a wetland and landscaped area at the Brooklyn Gateway site near the crossing of Gosling Road over Serford Creek.



**Ray Martin**, Brimbank CC: Following the recent VCAT decision to regulate the special charge scheme to seal **James Road**, Brimbank City Council has also abandoned its plans to initiate a similar scheme to seal **Bunting Road**.

In response, members of Brooklyn's Business Action Group suggested a suite of alternative proposals to the August BCRG meeting, including various traffic control measures, kerfurniture works, and closing of James Road. Brimbank CC will discuss these options further with BRAG in early December.

The status of the government's \$900,000 Sustainability Fund commitment to contribute to the works is unknown given the election. The alignment of the proposed East-West Link may have impact on the future development of Bunting Road. These issues will become standing items at future BCRG meetings.



The Environment Protection Authority CEO, **Neil Fegan**, was welcomed by the group. He confirmed EPA's commitment to improving the environment in Brooklyn.

Neil commented on the marked improvements in Brooklyn over the last few years and complimented the community action groups that have remained strong and continue to liaise with EPA and others to progress. He added that the EPA understands the impact of dust on the community and remains committed to addressing the issue in Brooklyn until it is no longer such a huge concern.

**Richard Marks**, EPA Manager Melbourne Metro gave an update on monitoring results so far for the financial year.

There has been the lowest number (55) of advice reports since 2008-9.

There has been the lowest number (3) of PM10 daily exceedances since 2011-12.

With two months of 2014 still to go, Brooklyn has already experienced more dry days with northerly winds than any other year since air monitoring began in the suburb. This is significant because these are the weather conditions that facilitate the transport of PM10 from the Brooklyn Industrial Precinct to the neighbouring residential area to the south.

Location:

There are currently 23 Active roads in Brooklyn.

EPA is continuing to see positive works being undertaken by industry, with a strong focus on long term engineering solutions. Several sites have 100% compliance in the previous 3 months.

By 31 December 2014, 85% of sites will have reached their final notice compliance date.

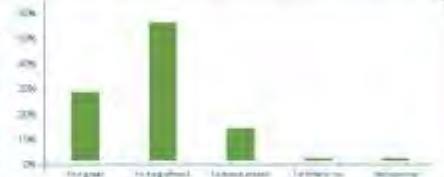


**Cr Sandra Wilson** spoke of two areas in which she has been advocating for Brooklyn:

- Federal Minister: Matt has asked state and territory environment ministers to put forward key areas of concern for inclusion within a national clean air agreement. Cr Wilson will follow up any contribution that may have been made from the Victorian Government.
- Cr Wilson will continue to advocate for a regional health impact study for Brooklyn residents.

BCRG participants were asked several questions, including:

To what extent does BCRG influence decisions about the Brooklyn environment?



Meeting dates for 2015: Wednesday Feb 18, May 13, Aug 12 and Nov 11. Attendance by open invitation: contact [bcrg@gmail.com](mailto:bcrg@gmail.com)

See the meeting notes at <http://www.brooklynvp.com.au/bcrg-meeting-notes> for a full account of what took place at the meeting.

# Other Avenues ??

**For what purpose? Easy wins!**

- Which newspapers? Community “What’s on?”
- Radio community announcements?
- EPA letterdrop has been discounted in the past?
- Council web pages, event pages, community pages
- Industry web pages
- EPA website
- Community newsletters
- Twitter
- Sponsorship

**Please add details to list on the wall**



# Visual Guide



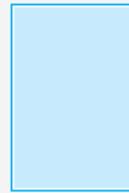
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**M6x12**  
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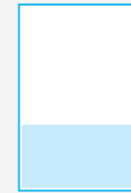
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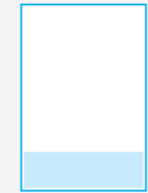
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**M6x6**  
Half Page Horizontal



**M4x6**  
Large Strip



**M3x6**  
Medium Strip



**M2x6**  
Small Strip



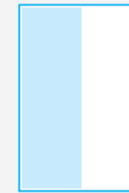
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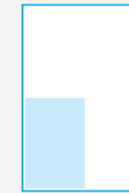
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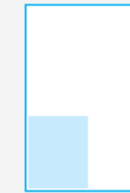
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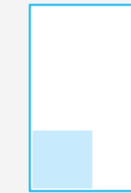
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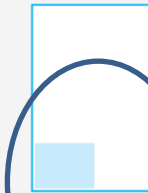
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**M5x3**

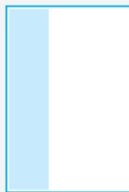


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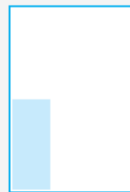


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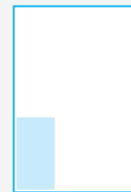
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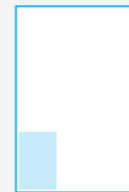
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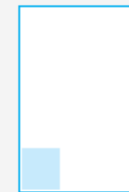
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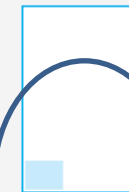
**M5x2**



**M4x2**



**M3x2**



**M2x2**

\$250

# Brooklyn Community Representative Group Information Update

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ENVIRONMENT PROTECTION AUTHORITY



# Successes

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- \$1, 850, 000 State Government contribution to the sealing of Jones and Bunting Roads through a joint funding agreement with Brimbank City Council
- Targeted compliance operation in January:
  - 9 Companies have achieved compliance with their notices by either improving their site or relocating since July 2014
  - *9 Notices have been escalated to enforcement since July 2014*
  - *4 Official Warnings and 3 PINS have been issued (so far).*
- Strong improvement trends in poor air quality days
- Acquisition and deployment of Mobile Particle Monitoring in Brooklyn
- 5 notices issued for odour in November/December (compliance Due April)

# Rocke Brothers

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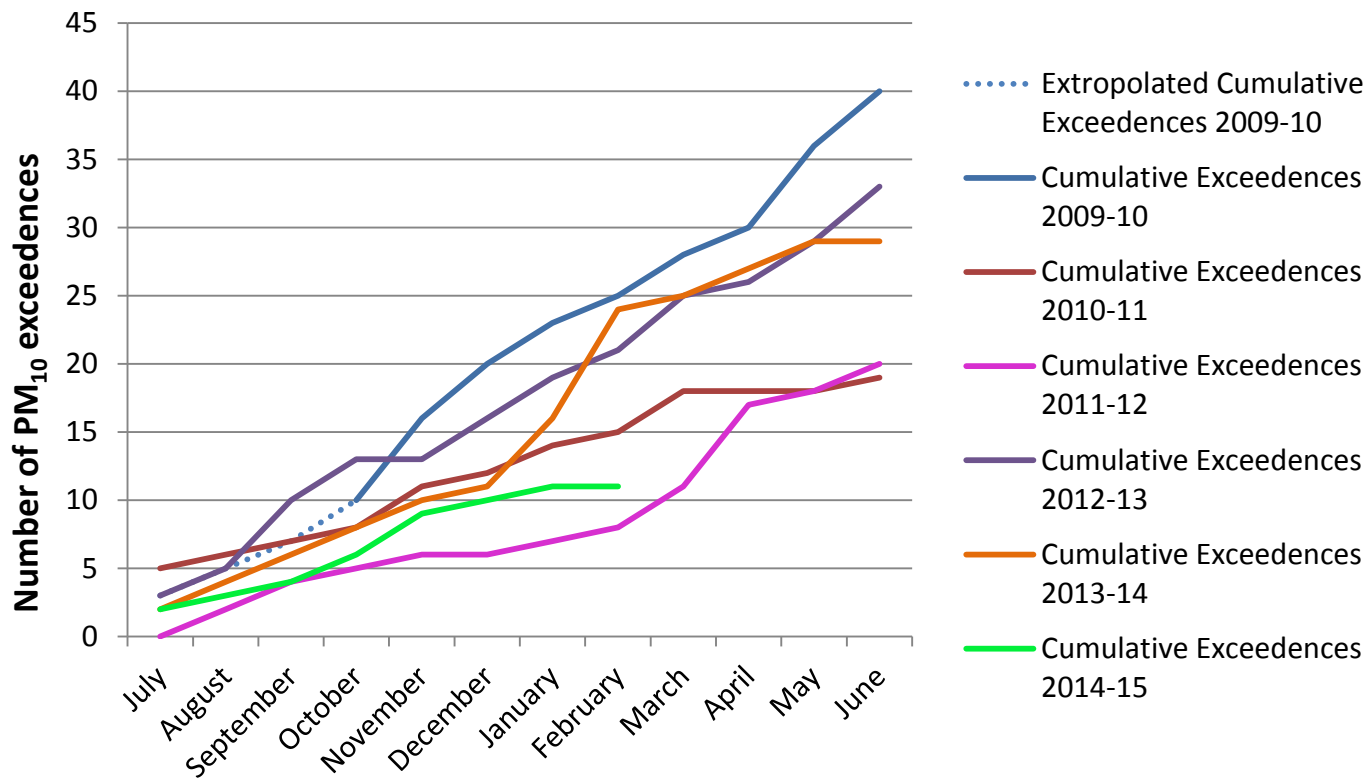


# Container Space

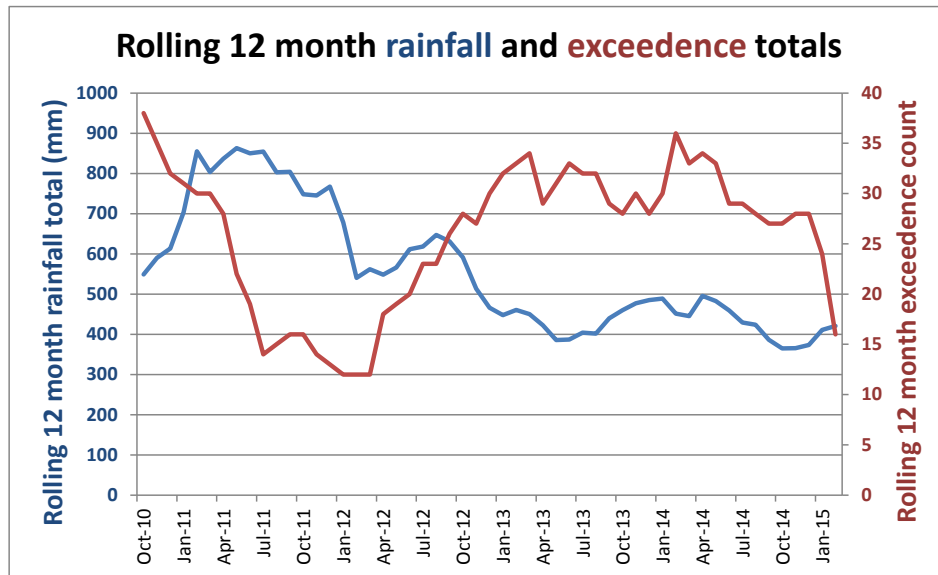
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# Air Quality Update



# Dust and Rainfall



Financial Year	Exceedences	Rainfall (mm)	% of Exceedences on dry days with northerly winds
2009-10 (from Nov 2009)	15	159.4	66%
2010-11	15	704.8	31%
2011-12	8	395.0	15%
2012-13	21	244.2	41%
2013-14	24	309.2	41%
2014-15	11	270.8	20%

# Mobile Particle Investigation





# Compliance and Enforcement Update

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- 23 Pollution Abatement Notices currently in place in Brooklyn, the majority of which relate to the control of dust emissions.
- 11 new draft notices have been issued on land owners and sites with emerging issues in the Brooklyn precinct.
- There have been 56 inspections so far this financial year including 35 in the last quarter.
- In January EPA issued \$7381 Penalty Infringement Notices to J&M Ridolfi Transport Services Pty Ltd and Butler Freight Services Pty Ltd for not complying with Pollution Abatement Notices that required they have management plans and/or engineering solutions in place to minimise dust.
- Another four companies were also given official warnings relating to mud and dust leaving their premises. These sites will continue to be monitored for compliance in the coming months.

# Strategic Priorities 2015

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- Close out regulatory role
  - Close out involvement with compliant duty holders.
  - Initiate enforcement action for non-compliant duty holders.
- Support the implementation of the Brooklyn Evolution Plan
- Continue to support BCC, HBCC, MCC and VicRoads to ensure the air quality impact of roads is mitigated in a timely and appropriate manner.
- Promote community awareness of the BCRG in Brooklyn and surrounds, through more diverse communication platforms.
- Collect and disseminate robust scientific data

# Questions

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## Contact us

EPA Victoria welcomes your comments, queries and feedback.



1300 EPA VIC (1300 372 842)



[contact@epa.vic.gov.au](mailto:contact@epa.vic.gov.au)

# Brooklyn Industrial Precinct Strategy Report Card

## Vision and objectives

Over the next 20 years, the Brooklyn Industrial Precinct will evolve into a key employment node for Melbourne's West, a destination of choice for new, 'clean and green' investment and development. In 2012 Council prepared a strategy for the Brooklyn Industrial Precinct, *Brooklyn Evolution* which guides our work program to improve the amenity, economic performance, image, infrastructure and environmental sustainability of the precinct.



## What we've achieved so far 2013 - 2014

- A \$405,320 grant from Living Victoria to prepare an Integrated Water Cycle Management Strategy, including a visioning workshop attended by more than 60 people.
- Delivery of a business mentoring program to improve business skills and practices.
- A manufacturing survey to improve and inform future business development programs and other projects.
- Production of a video promoting Brimbank as a location for industry, featuring a Brooklyn based business.
- Regular meetings across Council and State Government agencies to pursue delivery of the Brooklyn Evolution strategy and deliver integrated outcomes.
- Ongoing community engagement and involvement through the Brooklyn Industrial Precinct Committee and Brooklyn Community Reference Group.
- Over 200 compliance inspections to improve the operation and appearance of businesses in the area with a focus on better landscaping to improve the precinct's image and dust suppression.
- Brooklyn featured in a Industrial Ecology Conference held in November 2014.
- An increase in the number of planning permits granted for new uses and redevelopment.
- Cleaning of road verges with the involvement of VicRoads, the Environment Protection Authority and Council.
- Improvements to key assets including the Main Outfall Sewer Project (Federation Trail Visioning) led by Melbourne Water and landscaping led by the Brooklyn Residents Action Group.

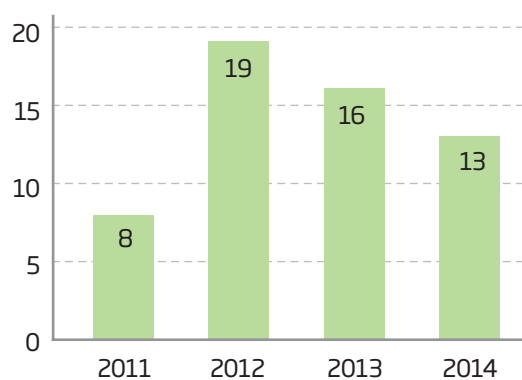
# Brooklyn Industrial Precinct Strategy Planning Report Card

## Community aspirations

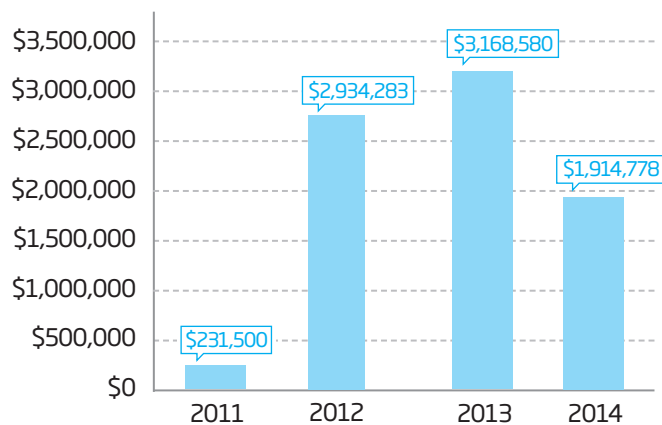
### What business operators and residents said they wanted...

- Cleaner air, less odour.
- Improved infrastructure in the area, better roads.
- A single point of contact across government for business development initiatives.
- A network to represent the needs of Brooklyn businesses.
- More support from government.
- A cleaner image for the Brooklyn area.

### Planning permit applications received in Brooklyn for 2011 to 2014



### Value of building permits approved in Brooklyn for 2011 to 2014



## What's next?

- Production of a prospectus to help promote the Brooklyn Industrial Precinct to the investment and development community.
- Introduction of new planning provisions to improve future development outcomes in relation to built form, environmental sustainability, access and movement, and landscape design.
- More 'on the ground projects' to improve appearance, including a pilot project to introduce bollards to protect new tree planting and prevent parking on the nature strip.
- A \$20,000 grant from Melbourne Water to improve public land at the Geelong Road west entrance to the Brooklyn Industrial Precinct.
- Further investigation will be undertaken about the opportunities to improve Jones and Bunting roads.
- Establishment of business network to facilitate business development and support of a Sustainability Charter.
- Continued engagement and involvement of key stakeholders, including the business operators, residents and State Government departments and agencies to coordinate projects.

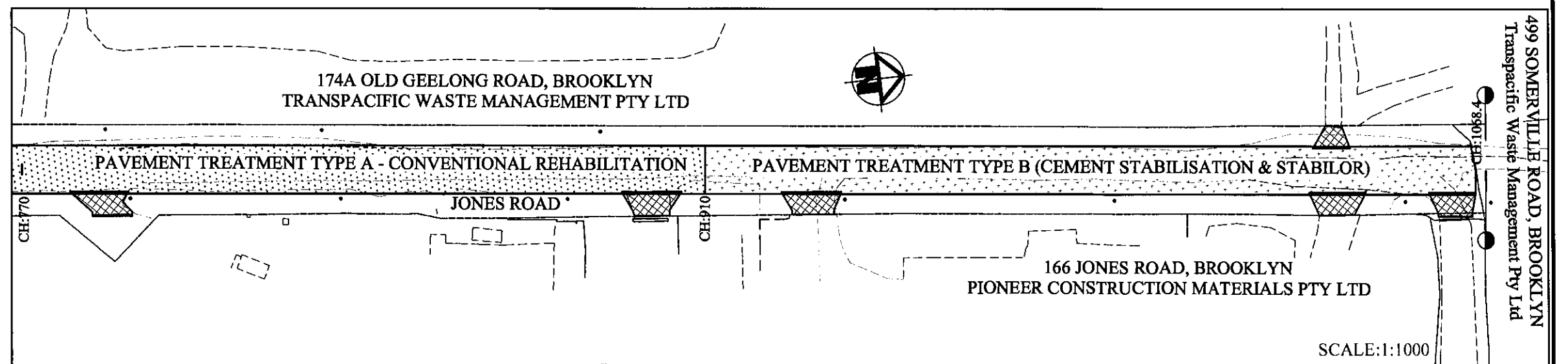
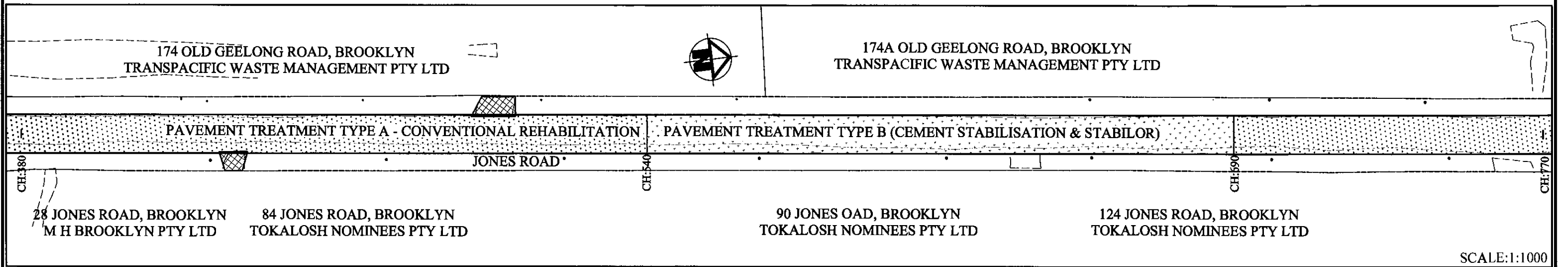
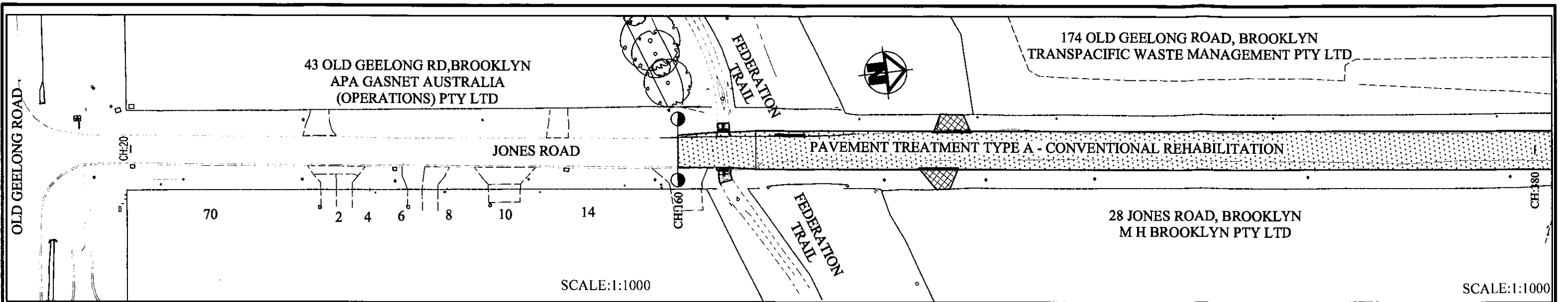
## Find out more

If you would like more information or are keen to get involved contact us:

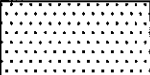
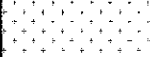
**Website:**  
[www.brimbank.vic.gov.au](http://www.brimbank.vic.gov.au)


**Email:**  
[info@brimbank.vic.gov.au](mailto:info@brimbank.vic.gov.au)

**Call:**  
9249 4000



**NOTES:**

-  PAVEMENT TREATMENT TYPE A  
CONVENTIONAL REHABILITATION
-  PAVEMENT TREATMENT TYPE B  
CEMENT STABILISATION & STABILOR

 RECONSTRUCT EXISTING VEHICLE  
CROSSING AT OWNERS EXPENSE.

 LIMIT OF WORKS

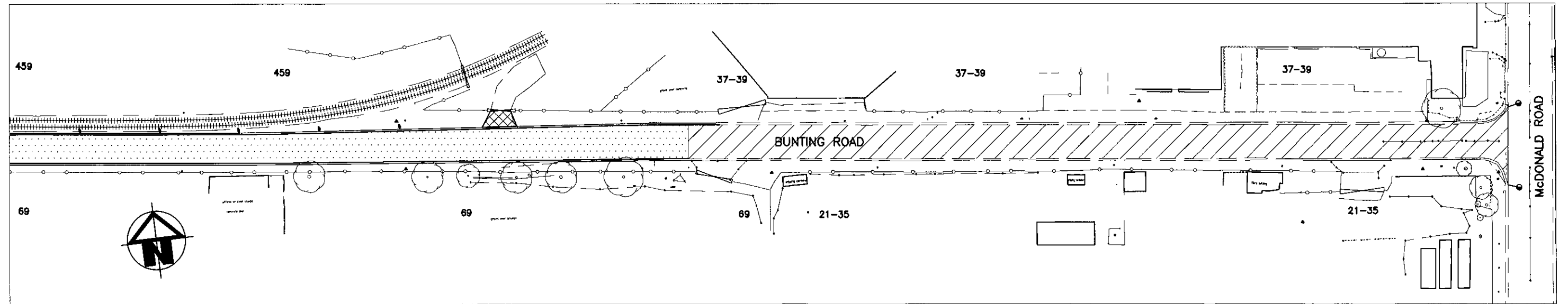
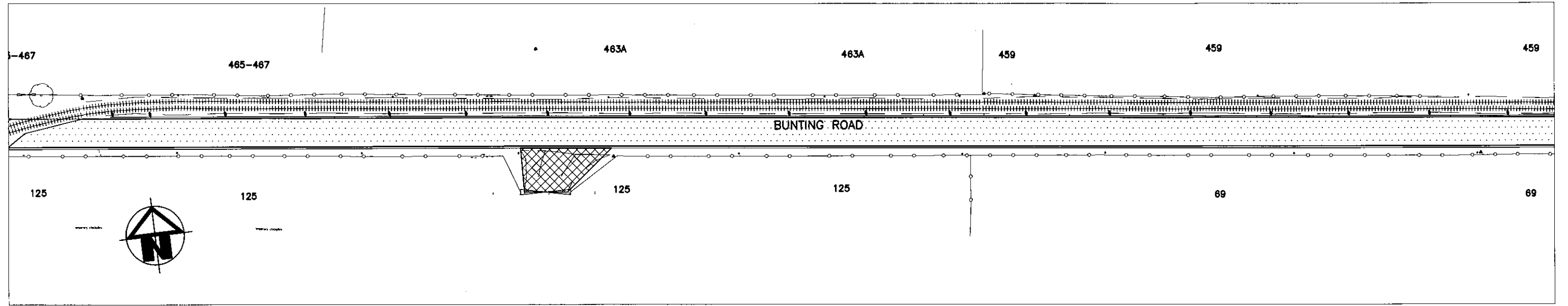
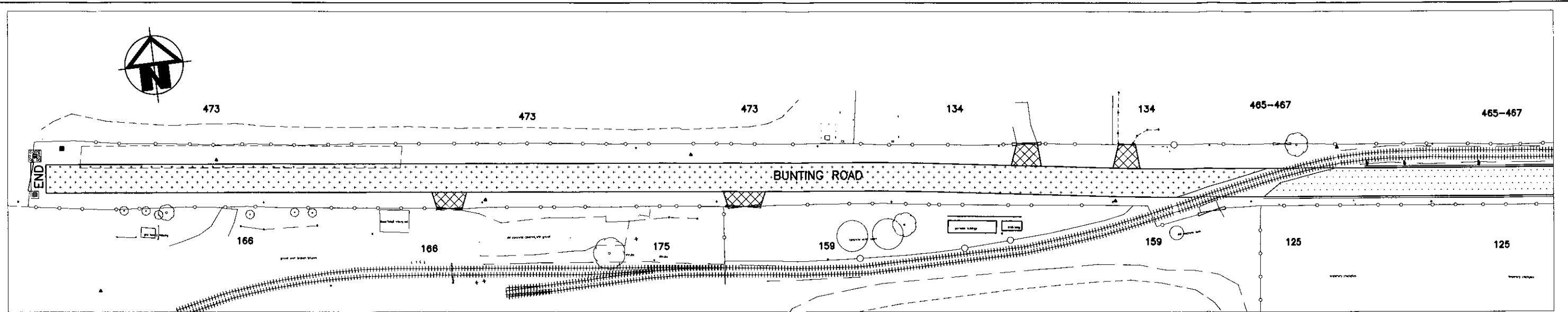
AMENDMENTS		
DATE	REVISION	INIT

DESIGNED: VINH NGUYEN  
 DRAWN : VINH NGUYEN  
 SURVEY : F.THEXTON  
 CHECKED : SQ  
 SURVEY DATUM : AHD  
 SCALE: AS SHOWN (A3)  
 DATE: MAR. 2015

**BRIMBANK CITY COUNCIL**  
 JONES ROAD, BROOKLYN  
 FROM FEDERATION TRAIL TO THE END  
 ROAD REHABILITATION  
 ALIGNMENT PLAN

APPROVED	
PROJECT SERVICES COORDINATOR	
DRAWING NO.	REV
10728	E
SHEET 01 OF 02	





**NOTES:**

	PAVEMENT REHABILITATION (TYPE A) AS DETAILED		PAVEMENT REHABILITATION (TYPE C) AS DETAILED
	PAVEMENT REHABILITATION (TYPE B) AS DETAILED		CONSTRUCT VEHICLE CROSSING (BY OWNER)

AMENDMENTS		
DATE	REVISION	INIT

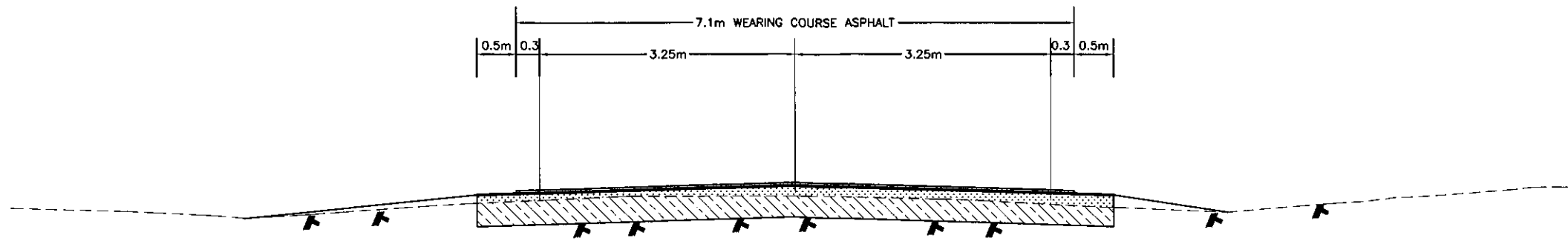
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DRAWN : R.D
SURVEY : FW THEXTON
CHECKED : SQ
SURVEY DATUM : AHD.
SCALE: AS SHOWN (A3)
DATE: MARCH 2015

**BRIMBANK CITY COUNCIL**

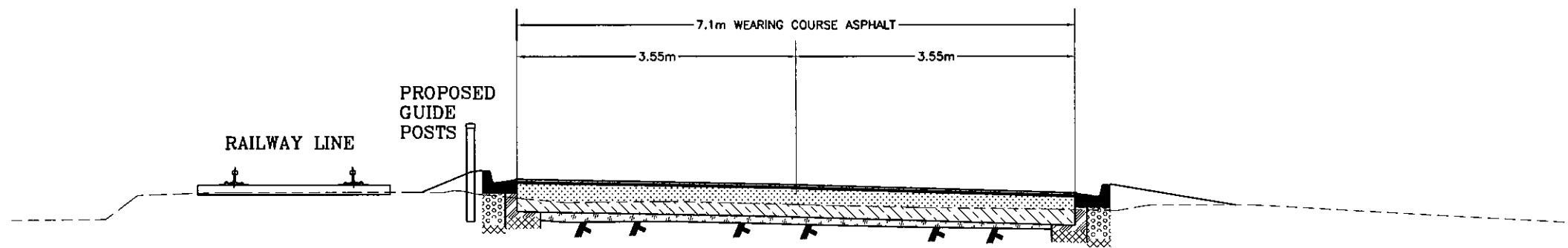
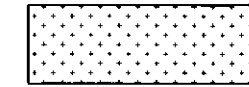
**BUNTING ROAD, BROOKLYN**  
**B/W END & McDONALD ROAD**  
**ROAD REHABILITATION**  
 PLAN VIEW

APPROVED
PROJECT SERVICES COORDINATOR
DRAWING NO.
<b>10729</b>
SHEET 1 OF 2 REV. <b>A</b>

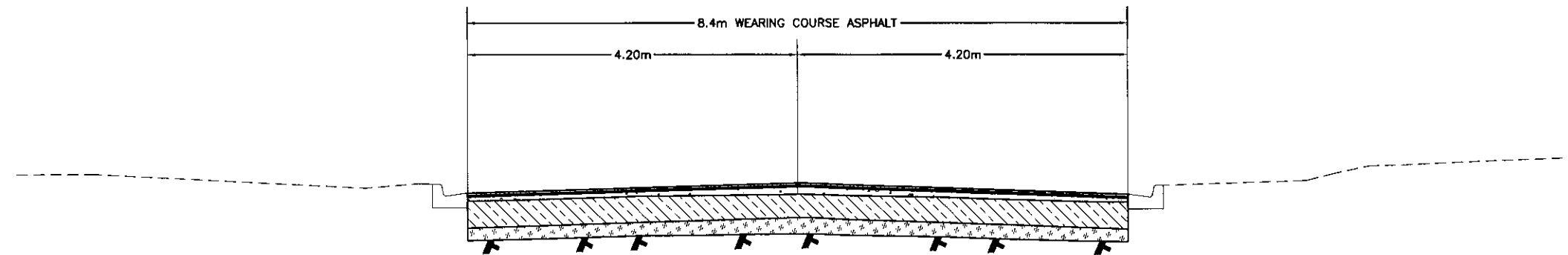
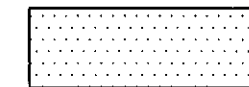




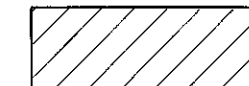
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PAVEMENT TREATMENT TYPE A - CEMENT STABILISATION



TYPICAL CROSS SECTION  
PAVEMENT TREATMENT TYPE B - CEMENT STABILISATION & STABILOR



TYPICAL CROSS SECTION  
PAVEMENT TREATMENT TYPE C - CEMENT STABILISATION



AMENDMENTS			DESIGNED: R.D
DATE	REVISION	INIT	DRAWN : R.D
			SURVEY : FW THEXTON
			CHECKED : SQ
			SURVEY DATUM : AHD.
			SCALE: AS SHOWN (A3)
			DATE: MARCH 2015

BRIMBANK CITY COUNCIL

BUNTING ROAD, BROOKLYN  
B/W END & McDONALD ROAD  
ROAD REHABILITATION

TYPICAL SECTIONS

APPROVED

PROJECT  
SERVICES COORDINATOR  
DRAWING NO.

10729

SHEET 2 OF 2 REV. A

## POLLUTION ABATEMENT NOTICE

Mr. Tom Buxton  
WESTERN LAND RECLAMATION PTY LTD  
Level 2 428 LITTLE BOURKE ST  
MELBOURNE VIC 3000

TO: WESTERN LAND RECLAMATION PTY LTD ACN: 005 369 086  
ADDRESS: Level 2 428 LITTLE BOURKE ST, MELBOURNE VIC 3000  
PREMISES: 124 JONES RD, BROOKLYN VIC 3012  
NON-COMPLIANCE OR LIKELY NON-COMPLIANCE: *EP Act 1970 s.41(1)(e)* Pollute atmosphere - detrimental to beneficial use

**Who we are:** Environment Protection Authority (EPA) Victoria is an independent statutory authority established under the *Environment Protection Act 1970* (the EP Act). Our purpose is to protect and improve our environment by preventing harm to the environment and human health.

**Why we serve remedial notices:** Remedial notices are served to prevent or remedy a range of non-compliances with the EP Act. These notices are public documents and are publicly available.

**What you are required to do:** Section 31A(2) of the EP Act requires you to comply with the requirements in this notice with one or more actions to prevent or remedy an actual or likely non-compliance. Under section 60A(1), if someone plans to take control of your premises, you must notify them of this notice and your progress towards compliance.

**When you are required to act:** 30 days from the date below.

**If you want compliance dates extended:** An application to extend a compliance date listed in Section 3 of this notice must be received *at least 10 working days prior to the compliance date*. Application forms, available at [www.epa.vic.gov.au/business-and-industry/forms](http://www.epa.vic.gov.au/business-and-industry/forms) must be addressed to the Manager of the EPA office listed on this notice with the subject line: "Notice amendment application". Your served notice remains legally binding until EPA advises of any change. Refer to the Remedial notices policy (publication 1418) for further information on amendment applications.

**What happens if you do not comply:** If found guilty of contravening a requirement of this notice, you may be ordered to pay a fine of up to 2400 penalty units (approximately \$300,000) and an additional penalty of up to 1200 penalty units for each day the offence continues (approximately \$150,000 a day).

**What your review rights are:** An application for review of this notice can be made to EPA and/or the Victorian Civil Administrative Tribunal (VCAT). Applications for an EPA review must be made within 7 calendar days from the notice issue date (below). VCAT applications must be made within 21 days of the notice issue date. Application forms for an EPA review are available at [www.epa.vic.gov.au/business-and-industry/forms](http://www.epa.vic.gov.au/business-and-industry/forms), or from our offices. For more information on your review rights, refer to the Remedial notice review policy (publication 1531) or contact us on 1300 EPA VIC (1300 372 842).

*For the purpose of this notice 'You' means the recipient of this notice or your authorised representative and 'Premises' means the site at the premises address, as identified above.*



.....  
Anita Scordia

DELEGATE OF THE ENVIRONMENT PROTECTION AUTHORITY

DATE OF ISSUE: 17/06/2014

# NOTICE STRUCTURE

## 1 EPA OBSERVATIONS

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This section details what was observed during the inspection.

## 2 REASONS FOR VIEW FORMED

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This section interprets the observations and articulates why the authorised officer believes a non-compliance exists or is likely to exist.

## 3 REQUIREMENTS - WHAT OUTCOMES ARE REQUIRED TO COMPLY?

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Considering the view that has been formed, this section lists the requirements or actions to address the environmental risk(s) or impact(s).

## 4 AN EXAMPLE OF HOW YOU CAN COMPLY

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This section provides an example of how you may achieve compliance with the requirements of this notice.

## 1 EPA OBSERVATIONS

1.1 As a follow up to check for compliance with EPA licence ES26594 an EPA Officer conducted a site inspection at the BROOKLYN premises of Western Land Reclamation Pty Ltd (WLR) on Wednesday 24 September 2013 at 1320.

1.2 Observed that cells have not been progressively rehabilitated.

1.3 Was advised by a site representative that:

1.3.1 Overfill occurred whilst duty holder waited to hear on EPA's decision regarding Calleja, which adversely affected the business;

1.3.2 Agreement has been reached in principle with EPA Development Assessments Unit over revised cap contour;

1.3.3 Cells 1-4 are no longer being filled;

1.3.4 Screening of material in cells 1-4 has commenced with fine material to be used for cell rehabilitation, timber/plastic being diverted to recycling, ferrous material being extracted and overfill (waste placed above contour) will be placed in cell 5.

1.4 Observed Cell 1B had no exposed waste and was covered by large blue stone rocks.

1.5 Advised that the purpose of temporary cover is to limit the generation of leachate by stopping water percolating through the waste mass. Using large crushed rocks as temporary cover is not appropriate as it will not reduce water infiltration into the waste mass.

1.6 Observed Cell 1A Extension had a temporary cap and no exposed waste.

1.7 Observed that waste in Cell 1A was exposed on the surface and the batters.

1.8 Observed waste in Cell 3A was exposed on the surface and the batters.

1.9 Observed waste in Cell 3B was exposed on the surface and the batters.

1.10 Observed Cell 4 had temporary cap and approximately 25% of grass cover. Advised bottom of cell (approximately 3 metres depth) exposed because Duty Holder was wanting to determine edge of cell. Advised to be backfilled in the coming week.

1.11 Observed no landfill gas perimeter monitoring bores at the premises.

1.12 On 8 October 2012, EPA conducted a desktop assessment of the 2012 Annual Monitoring Review (2012 AMR) for Bunting Road Landfill prepared by URS Australia Pty Ltd dated 15 April 2013.

1.12.1 Assessment of analysis listed in Table 15 Groundwater Analytical Results indicates that Na, Ca, Mg and Cl in MB01 through to MB08 displays similar characteristics to aged leachate. Therefore the assessing officer has drawn the conclusion that there may be a hydraulic connection i.e. landfill maybe leaking and causing impacts on the surrounding groundwater.

1.12.2 The 2012 AMR, Conclusion section states "The reported changes of groundwater quality and concentrations exceeding the adopted groundwater quality criteria are thought not associated with the landfill leachate." The assessing Officer disagrees with this after reviewing the analytical results in MB01 - MB08 as

indicated in 1.12.1 above.

1.12.3 The 2012 AMR , Recommendation 13 states "potential leachate indicators in groundwater from MB5 highlight the lack of a true up-gradient bore to determine background groundwater conditions."

1.12.4 The 2012 AMR, Recommendation 19 states "The Auditor notes that several exceedances of the site's adopted leachate level trigger value (of a maximum head of 300mm above the line - as per EPA Publication 1321.2) occurred during the Audit period within LS4."

1.12.5 The 2012 AMR, Conclusion states that "At several leachate sumps the reported LFG concentrations exceeded the EPA action levels. EPA assessing Officer notes that the leachate sumps are in waste and EPA gas action levels are for perimeter of boundary gas bores.

1.12.6 The 2012 AMR indicates that assessing compliance with BPEM gas action levels was achieved by using groundwater monitoring bores which are screened at a minimum of 20 meters below the ground level. Infrastructure designed in this manner is not appropriate to determine the risk of gas migration presented by the site.

1.13 The 2012 AMR indicates that assessing compliance with BPEM gas action levels was achieved by using groundwater monitoring bores which are screened at a minimum of 20 meters below the ground level. Infrastructure designed in this manner is not appropriate to determine the risk of gas migration presented by the site.

1.14 Landfill cells have not been progressively rehabilitated in accordance with BPEM Guidelines: Sitting, Design, Operation and Rehabilitation of Landfills (EPA Publication 788)

1.15 A Rehabilitation Plan has not been developed for the site.

1.16 The landfill will continue to generate landfill gas for several decades. Landfill gas needs to be appropriately managed to prevent emissions to the surrounding ground and atmosphere.

1.17 The site does not have an after care management plan.

1.18 EPA concludes that none of the previously filled landfill cells listed above have been progressively rehabilitated as required by Licence ES26594 and in accordance with EPA Publication 788.1 Best Practice Environmental Management Guidelines, Sitting, Design, Operation and Rehabilitation of Landfills.

## 2 REASONS FOR VIEW FORMED

Since the issue of EPA licence ES426594 to Western Land Reclamation Pty Ltd in 2009 minimal progressive rehabilitation has occurred at the premises.

The absence of final capping and rehabilitation on previously filled landfill cells increases storm water ingress into the waste mass, increasing leachate levels and landfill gas generation by advancing the decomposition rate of the waste.

This increased leachate generation increases the risk of groundwater contamination. It also provides a pathway through the cell surface material for landfill gas to escape to atmosphere, in turn affecting the local amenity.

On this basis, and considering the observations previously stated, I have formed a view and I am satisfied that:

- a process or activity which is being carried on at the premises

is likely to cause or has caused pollution of atmosphere in contravention of section 41(1) of the EP Act because the condition of the atmosphere is likely to be changed to make it detrimental to any beneficial use made of the atmosphere.

I have formed the view that this non-compliance, or likely non-compliance, must be remedied. Your remedy must meet the requirements listed in this notice.



.....  
Anita Scordia  
AUTHORISED OFFICER  
EPA Metro  
**EPA Victoria**  
**DATE OF ISSUE:** 17/06/2014

## 3

## REQUIREMENTS - WHAT OUTCOMES ARE REQUIRED TO COMPLY?

### General Requirements

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This notice does not have any General Requirements

### Reporting Requirements

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LC3.1. By 30 June 2015 you must supply to the Authority a Landfill Rehabilitation Plan for the premises. The Landfill Rehabilitation Plan must contain time bound milestones for implementation.

LC3.2. The Landfill Rehabilitation Plan referred to in requirement LC3.1 must be verified by an environmental auditor appointed pursuant to the EP Act to ensure that it is in accordance with the most recent version of the Best Practice Environmental Management Guidelines, Siting, Design, Operation and Rehabilitation of Landfills (EPA Publication 788) (the Landfill BPEM).

LC3.3. The Landfill Rehabilitation Plan referred to in Requirement LC3.1 must include:

- a) proposed timetable for the progressive rehabilitation of the current and previous tipping areas;
- b) after-use options including the preferred option;
- c) council permit final contour plan of the premises at the completion of waste filling;
- d) council permit contour plan of the premises after capping and rehabilitation of the premises;
- e) map with the current contour height
- f) capping design and specifications for cap installation;
- g) surface water drainage system;
- h) landfill gas collection and disposal system;
- i) leachate collection and disposal after landfill closure;
- j) provision for irrigation measures to promote vegetation on the final surface;
- k) proposed cap protection measured and settlement monitoring program;
- l) proposed period of after care of the premises.

m) Cap design specification and a Construction Quality Assurance (CQA) plan for construction of the cap for all cells in accordance with the Landfill BPEM.

n) A pre-settlement and post-settlement contour plan of the premises.

LC3.5. By 30 June 2015 you must supply to the Authority an Aftercare Management Plan for the premises that is consistent with Aftercare Management in Section 8.2 of the Landfill BPEM. The Aftercare Management Plan must, as a minimum, contain the following:

- a) inspection and maintenance of the landfill cap to prevent, control and remediate erosion, restore depressions, seal cracks and maintain vegetation.

- b) inspection, maintenance and operation of the leachate collection and treatment system.
- c) inspection, maintenance and operation of the landfill gas management system.
- d) inspection and maintenance of surface water control and collection infrastructure
- e) an environmental monitoring program for the landfill, verified by an environmental auditor appointed pursuant to the EP Act.



## 4

**AN EXAMPLE OF HOW YOU CAN COMPLY**

One way of achieving compliance with this notice would be to:

4.1 Collate all relevant reports or documents containing relevant information, such as;

- engineering reports,
- hydrogeological reports,
- hydrological reports,
- information on waste acceptance (types, volumes, time periods-),
- elevation plans,
- ground water monitoring results,
- leachate levels in the landfill or individual cells where present,
- landfill gas management and infrastructure plans,
- landfill gas monitoring results and reports,
- surface water collection and control infrastructure design and plans,
- rehabilitation or capping plans, reports and / or approvals, where held.

This information and reports are likely to be requested by the consultant preparing the reports and plans required by this notice.

4.2 Engage a suitably qualified person to develop a Rehabilitation Plan with time bound actions.

4.3 Engage an environmental auditor to verify the Rehabilitation Plan.

4.4 Engage an environmental auditor to oversee the CQA against requirement 3.3, and verify the monitoring plan.