Appendix C

Stakeholder consultation
26 August 2013

Dion Killiby
Project Manager (Mount Victoria Village)
Roads and Maritime Services
51-55 Currajong Street
PARKES NSW

Reference File:F04872 File No: 13/142129

Dear Mr Killiby

SUBJECT Mount Victoria Village Safety Upgrade - Comments

Blue Mountains City Council would like to thank you for this opportunity to provide comments on the proposed safety upgrade works for Mount Victoria.

Council's Heritage advisor has reiterated the sensitivity of the 2.3km section of the GWH through the heart of Mt Victoria. This area includes multiple individual heritage listed items and the Mount Victoria Heritage Conservation zone. We refer you to Council's LEP 2005 which outlines key precinct vision statements for the Mount Victoria Precinct - Station Street (incorporating significant GWH frontages) and a list of precinct objectives that should be reviewed, considered and incorporated as part of the REF process by the consultants. Precinct objective 2.2.e provides an indicator: "To conserve the established pattern of trees and shrubs that contribute to the heritage value of buildings or to this precinct's unique character."

The precinct vision statement also says: "Visible indoor activity is maintained along the street frontage, encouraging pedestrian movement along footpaths that are protected from the undesirable impacts of through traffic."

The street tree planting through Mount Victoria is also significant and any upgrades must make allowance for the maintenance or restoration of street tree planting. The impacts of works on vegetation within Mount Victoria Park should be carefully considered, if relevant.

As size, location and the number of signs can adversely impact on the character of the place Council is very interested in the outcome of the existing road signage review.

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The city within
a world heritage
national park
Blue Mountains City Council is concerned that with the possible construction of two water quality devices opposite Mount Piddington and in Fairy Dell Road, that no adverse impacts are made to any natural systems as a result of either the construction or operation of these basins.

Council looks forward to reviewing the REF and working with RMS as the design progresses to achieve the best possible outcome for the community. Please find attached documentation relating to the upgrade works previously submitted to RMS.

Yours faithfully

Tanja Hogg
Acting Strategic Planning Specialist - Transport
Information of Drainage Infrastructure on GWH between section Victoria Falls Rd to Mount York Rd.

Drainage Reserve near 120A GWH (Page 2)

Drainage Section starts from 63GWH and ends near 7 Fairy Dell Rd (Page 3)

Drainage Reserve near 155 GWH (Page 4)
Drainage Reserve at 102A GWH. Total pipe length is approximately 195 meter.
Drainage system from 63GWH to 7 Fairy Dell Rd. Total length of the section is approximately 195 meter.
Drainage Reserve beside 155 GWH. That is actually on an unformed road and the total length of the drainage system is approximately 105 meter.
Mr Dane Hendry  
Project Manager (Hartley Vale)  
Roads and Maritime Services  
51-55 Currajong Street  
PARKES NSW 2870

Dear Mr Hendry

I refer to your letter dated 24 July 2013 regarding the proposed Mount Victoria and Hartley Valley Safety Great Western Highway Upgrades, and your request for the Environment Protection Authority (EPA) to provide comments regarding the proposed Review of Environmental Factors (REF) for the project.

The EPA has assessed the information provided in your letter and makes the following comments about the proposal:

All activities being undertaken as part of the upgrade must comply with the requirements of the Protection of the Environment Operations Act 1997 (POEO Act) including, but not limited to:

- Section 115 and 116 (disposal of waste and leaks, spillages and other escapes);
- Section 120 (pollution of waters);
- Section 124 and 126 (operations that result in air pollution);
- Section 139 (noise pollution); and
- Section 167 (appropriate maintenance and operation of plant and equipment).

Water Quality Impacts – Construction

The REF should identify potential impacts to surface waters from construction activities and detail appropriate pollution control systems such as erosion and sediment controls during construction and the rehabilitation stage, and the inclusion of permanent erosion and sediment controls where required.

It is recommended that priority should be given to achieving a high standard of erosion and sediment control and general site management particularly in consideration of the proximity to sensitive receiving environments and the Sydney Drinking Water Catchment. Roads and Maritime Services (RMS) or any contractor engaged by RMS should develop and implement controls associated with the proposal in accordance with relevant guidelines, particularly the publication "Managing Urban Stormwater – Soils and Construction – Volume 2D Main Road Construction" published by the EPA in January 2008.
Environmental Impacts - General

In addition to water management, the EPA recommends that the following issues also be addressed by the REF:

- **Noise** – identify all noise sensitive receivers and provide a risk ranking of potential noise impacts during construction and operation of the project. Identify noise mitigation strategies to ensure compliance with relevant noise guidelines and legislation;
- **Odour/Air** – identify impacts from dust during the construction period and detail mitigation measures to minimise dust emissions;
- **Contaminated Land** – identify potential areas of soil or groundwater contamination and detail appropriate remediation actions;
- **Waste Management** – all reasonable and feasible options and strategies for waste minimisation, reuse and recycling should be assessed;
- **Storage of Chemicals/Fuels** – details of control measures proposed for storages to appropriately manage the risk of spills contaminating waterways and land; and
- **Incident Management Procedures** – details of procedures for ensuring that incidents that cause material harm to the environment are notified to the appropriate regulatory authorities within required timeframes (refer s147-153 POEO Act).

Should you have any enquiries regarding this matter please contact Peter Morrall, EPA Senior Operations Officer on (02) 9995 6810.

Yours sincerely

[Signature]

12.08.2013

Mark Hanemann
A/Unit Head Metropolitan Infrastructure
Environment Protection Authority
Re: Mount Victoria Village and Hartley Valley Safety Upgrades

Jemena Asset Management Pty Ltd on behalf of Jemena Gas Networks would like to advise in reference to the proposed safety upgrade works as detailed above and based on the information provided by you, Jemena currently have a number of gas mains affected by this proposed development. This gas infrastructure is located in the road reserve and installed under the provisions of the Gas Supply Act.

1. **The Mount Victoria Village Upgrade proposal**.

Details of Jemena’s affected assets: -
- 160mm PE High Risk gas main
- 75mm Nylon gas main
- 32mm Nylon gas main (Please see attached maps)

2. **The Hartley Valley safety Upgrade proposal**.

There is no gas infrastructure located in this section of road.

Please note, a duty of care exists to ensure these gas mains are not compromised or damaged during any future development or construction work. All costs associated with the relocation or modification to these gas mains will be borne by the developer and or landowner.

Jemena’s comments to the proposed development are as follows:

- Jemena requires a copy of the Design Package, Drawings and Work Methods Statements to review and comment prior to the commencement of any construction activity.
- A Jemena Pipeline Patrol Officer will be required on site during any site works in the vicinity of the 160mm PE gas main.
- Care is required when operating machinery over the gas mains, it is advised no heavy machinery be used directly over the mains.
- The existing cover levels shall not be reduced on completion of any work.
- Any existing Jemena gas pipeline markers and gas valve markers must not be modified or removed.

Finally attached for your assistance and review please find a copy of Jemena Construction Guidelines for works near and over gas infrastructure.

If you would like any additional information or would like to discuss further please do not hesitate in contacting me by return email or on the numbers listed below.
In case of emergency phone: 911 (24 hours)

The following information is based on the recommendations of the American Red Cross and should be followed in the event of an emergency. If you are in a situation where you need medical attention, please call 911.

High Pressure - Assisted Breathing

Network Protection

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please contact your local emergency services for more information.
### Guidelines to Third Party for construction activities over Jemena Gas Networks Assets & ActewAGL Assets

**GUIDELINES TO THIRD PARTY FOR CONSTRUCTION ACTIVITIES NEAR & OVER JEMENA GAS NETWORKS & ACTEWAGL ASSETS**

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<tr>
<td>Mustafa Karacanta</td>
<td>Senior Integrity Engineer – Pipeline</td>
<td>2/8/12</td>
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<tr>
<td>Alberto Paludetto</td>
<td>Senior Integrity Engineer – Environmental</td>
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<td>Danny Guerrero</td>
<td>Land Services Manager</td>
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<tr>
<td>Meng Cheng</td>
<td>Principal Engineer – Pipelines</td>
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Engineering Services

Guidelines to Third Party for construction activities over Jemena Gas Networks Assets & ActewAGL Assets

1. PURPOSE OF THIS DOCUMENT: This document has been developed to provide general guidelines to assist the Applicants in their design/construction proposal for crossing of Jemena High Pressure Gas Infrastructure prior to submission to Jemena for review.

This document does NOT authorise the Applicant to carry out any construction activities unless design and or construction proposals are reviewed, assessed and accepted by Jemena

*It is an offence under section 66 of the Gas Supply Act 1996 section 64 to interfere with a Network Operator's Gas Works unless authorised to do so by the Network Operator.*

2. PRECONSTRUCTION:

2.1. Dial Before You Dig
Dial before you dig (DBYD) maps must be obtained and reviewed by the Applicant prior to commencement of any construction/works to check if a gas pipeline is in the vicinity of the proposed works. DBYD can be contacted by phone (1100) or via internet [www.1100.com.au](http://www.1100.com.au)

2.2. High pressure gas pipeline confirmation by pot holing or Metrotech Methods:
When high pressure gas pipeline exists in the area, the Applicant must contact Jemena on [1300 665 380](tel:1300665380) to book for Patrol Officer to identify the exact location and depth of cover of the high pressure gas pipeline.
A 48 hours notice must be given.

2.3. Documents required from Applicant prior to commence construction:
The Applicant shall develop and provide Jemena the proposed works package for assessment. The package shall consist of the following:
- Scope of work including the address;
- Construction Methodology: To specify the construction activities and all related risks against the high pressure gas pipeline;
- Plant and Equipment Specifications:
  - Size of the plant, equipment or machinery;
  - Load per axle;
  - Wheel configuration or track dimensions.
- Construction Drawings:
  - Plan drawing;
  - Cross sectional drawing.
- Construction Alignment Sheet (if applicable);
- Aerial photos of works area if available;
- Description of materials to be used, such as backfill and nature of materials to be installed e.g. materials carried in 3rd party pipeline;
- Restoration plan(s) for work area to reinstate final natural or carriageway surfaces, to previous condition.
2.4. Document required from applicant prior to commence Directional Drill (Underbore):

If a directional drill activity is proposed to be carried out near high pressure gas pipelines, the following documents shall be provided by the Applicant to Jemena for review:

Horizontal directional drilling (HDD) construction details including:

- Scope of work;
- Construction Methodology: Specify the construction activities, related risks and mitigation that can be provided against the high pressure gas pipeline ONLY;
- Plant and Equipment Specifications:
  - Size of the plant, equipment or machinery;
  - Load per axle;
  - Wheel configuration.
- Plan drawing showing the launch and receiving pits location, distance from the high pressure gas pipeline and dimensions of the pits including depth;
- Aerial photos of works area if available;
- Drill path profile;
- Separation distance between the new service and the existing high pressure gas pipeline;
- Drill head control and monitoring methodology;
- Detailed drill location;
- Geotechnical assessment of formation being drilled to determine if ground settlement/heaving is likely and monitoring methodology to be used during works.

2.5. Document required from applicant prior to commence blasting

The applicant must submit information to Jemena for review and final acceptance prior to commencement.

The information required for the blasting are as follows:

- Scope of work;
- Construction Methodology: Specify the construction activities, related risks and mitigation that can be provided against the high pressure gas pipeline ONLY;
- Plant and Equipment Specifications:
  - Size of the plant, equipment or machinery;
  - Load per axle;
  - Wheel configuration.
- Plan drawing showing the locations of the blast and distance from the high pressure gas pipeline;
- Aerial photos of works area if available;
- Depth of blast;
- Shot size (kg);
- Peak Particle Velocity
- Shot sequence and delay;
- Shot strength.

Upon receipt of all above documents, Jemena will provide the applicant with a reference number for future correspondence and follow up.

Jemena will perform a risk assessment to assess the construction activities and related risks to determine if they are consistent with the safety design of the pipeline.
3. CONSTRUCTION

3.1. Supervision of Work Subsequent to the acceptance to commence construction:
The Applicant must contact Jemena on 1300 665 380 to book Jemena Permit Issuing Officer prior to commencement of works. At least 48 hours notice must be given.

3.2. Permit to Work:
All earthwork and associated construction activities affecting the High Pressure Secondary Mains shall be performed under the guidance of a Jemena Pipeline Technician. All earthwork and associated construction activities affecting the High Pressure Trunk or Primary Pipelines shall require a PTW (Permit to Work) to be issued by Jemena Control Centre and signed by all workers who are engaged on site.

3.3. Other services crossing the Jemena high pressure gas pipeline:
The minimum separation distance shall be maintained between a high pressure gas pipeline and other services as 0.5m.
If these requirements can not be met, each requirement can be assessed and approved individually by Jemena Land Services.

3.4. Concrete Pipeline Protection:
All existing high pressure gas pipeline protection including concrete slabs shall be retained.
Concrete protection slabs shall not be disturbed unless approved by Jemena Engineering Services. Third party assets shall not be located beneath the protection slab.

3.5. Pipeline Markers:
All existing high pressure gas pipeline markers shall be retained. Where these are affected by the road alignment, these pipeline markers shall be re-located and the offset position from the actual gas pipeline shall be noted on the marker. Additional pipeline markers shall be installed at crossings of all services and roads.

3.6. Cathodic Protection (CP) Test Points:
All existing CP test points and associated equipment shall be retained or repositioned by Jemena and the costs shall be paid by the Applicant.
Any electrical (earthing) works, which may affect the cathodic protection must comply with AS4853 and shall be approved by Jemena.

3.7. Excavation within 3m from a High Pressure Gas Pipeline:
Excavation MUST be carried out under Jemena PIO (Permit Issuing Officer) supervision (Refer to sections 2.2).
If excavation works are proposed to be carried out, the excavation machinery shall not be parked directly over the high pressure gas pipeline. If this requirement can not be met, each requirement can be assessed and approved individually by Jemena Land Services.
Where excavation will reduce the pipeline cover, Jemena is to determine what the acceptable depth of cover shall be. Where the excavation is carried out near the pipeline, the excavator shall use a toothless or mud bucket.
Machine excavation is not permitted within 300mm of the high pressure gas pipeline. Where the distance is less than 300mm, ONLY hand excavation is allowed.

3.8. Backfill material
The general backfilling material around the pipeline shall be clean river sand 2mm passing with a neutral pH 7 where necessary adjacent existing pipeline.
3.9. Pipeline Cover in Carriageway
The minimum cover of the gas pipeline shall be 1200mm under a carriageway. Where the cover is less than 1200mm, the Applicant shall provide design of a reinforced concrete slab over the gas pipeline to shield it from the traffic loadings. Jemena will review and determine acceptance of the design before its installation. The maximum allowable depth of cover is 3meters.

3.10. Construction Loadings on Gas Pipeline for High Pressure Gas Pipelines:
Additional protection structure is not required if the existing pipeline cover is over 1200mm and the construction vehicle weight is limited to 8 tonnes per axle. Where the pipeline cover is less than 1200mm OR construction vehicle weight exceeds the 8 tonne per axle, Jemena shall be advised of the equipment type including its weight, wheel configuration and size to determine its impact on the gas pipeline integrity. Jemena will determine if protection measures are required for the gas pipeline following the vehicle loading evaluation.

3.11. Construction Vehicle Crossing the Gas Pipeline - High Pressure Gas Pipelines:
Construction vehicles and plant crossing the gas pipeline shall be restricted to a designated area only. This designated crossing area may require appropriate protection measures where pipeline cover is deemed inadequate by Jemena to protect the gas pipeline from vehicle loading. Road plates and/or earth mound placed over the gas pipeline may be required by the Applicant before any vehicle crossing the pipeline. The Applicant shall provide details of such protection measures to Jemena for approval.

3.12. Compaction over the gas pipeline - High Pressure Gas Pipelines:
Compaction over high pressure gas pipelines is limited to static rollers only. Where pipe cover exceeds 1200mm, compactors weighing up to 10 tonnes may be used over the gas pipeline. Between 600mm and 1200mm cover, compactor weight is limited to 6 tonnes. Below 600mm cover, only a handheld mechanical tamper is allowed to be used.

3.13. Stockpiling
The Applicant shall not stockpile any heavy material directly over the existing high pressure gas pipeline and or within the easement without obtaining Jemena approval.

3.14. Warning Barriers
Suitable warning signage, barriers with beacons and protection against vehicular ingress shall be erected around any unattended excavation that exposes the pipeline.

4. POST CONSTRUCTION:

4.1. As Built Drawings:
The Applicant shall submit As Built Drawings to Jemena post construction showing the following details:
- Survey Data (MGA94) of the encroachment (such as new service, new road, new transport infrastructure) submitted in AutoCAD format with all XREF’s bound and a Drawing Layer index.
- The location of the 3rd part crossing including X,Y,Z coordinates and Depth of Cover
- The location of the HP gas pipeline including X,Y,Z coordinates and Depth of Cover
- The separation distance between the new service and the HP gas pipeline if applicable
- Metadata outlining the source, accuracy and currency of the As Built drawing.