



27 August 2018

Conditions for Works near Viva Energy Australia Pty Ltd owned and operated High Pressure Pipelines in New South Wales

Introduction

Viva Energy Australia Pty Ltd (Viva Energy) owns and operates a number of high-pressure licensed pipelines in NSW. These pipelines contain refined petroleum products like diesel, petrol or aviation fuel.

As the operating pressure can be as high as 9050 kPa damage to these pipelines may result in a potentially hazardous situation such as fire and/or explosion, and may lead to substantial environmental impact. Damage could also result in disruption of fuel supply to airports, service stations and other customers. The costs of such damage could result in the liability for payment of costs by the Authority, Principal or Developer responsible.

The requirements below have been put in place by Viva Energy to minimise the risk of damage to these pipelines.

In addition to complying with the requirements set out in these conditions and in the document 'Land Use Planning, Development & Subdivision near Viva Energy owned and operated High Pressure Pipelines in Victoria', Viva Energy may require that anyone who proposes to carry out works in the vicinity of the pipelines:

- (a) enter into an agreement with Viva Energy in relation to the proposed work, which may include indemnities by the authority or developer in respect of any damage to the pipelines arising from the works and provision for recovery of Viva Energy costs in relation to any works which it is required to carry out to protect the pipeline;
- (b) grants an easement to Viva Energy which contains provisions to ensure that the pipeline will be adequately protected both during and after the works and that Viva Energy will continue to have rights to access the pipeline;
- (c) Complete a Safety Management Study to comply with Australian Standards AS2885.

Pipeline danger signs

'High Pressure Pipeline' danger signs are strategically placed along the pipeline routes in the vicinity of the pipelines. These signs do not give the exact location of the pipelines. For the exact location please contact Viva Energy Pipeline Surveillance. (The contact details are at the end of this letter).

The signs have a Viva Energy Emergency Contact number and we encourage you to call this number at any time if you have any concerns.

Accidental damage

Should any accidental damage occur to the pipeline and/or coating - even of a minor nature – Viva Energy must be immediately notified via the Emergency Contact number so that inspection and subsequent repairs are undertaken. The Emergency Contact number is at the end of this letter).

Viva Energy Right of Way Works Permit

All works within the pipeline corridor requires a Viva Energy Right of Way (ROW) permit. The ROW permits are obtained from Viva Energy Pipeline Surveillance contact. The contact details are at the end of this letter

Any unauthorised activity within the pipeline corridor is a reportable offence to the appropriate Regulator. Offences can incur substantial fines which are issued by the Regulatory authority.

Location proving

To minimise the risk of damage to the pipeline, HAND EXCAVATED with remaining 300mm cover proving must be carried out in the presence of a Viva Energy Pipeline Surveillance Inspector so as to determine the exact location of the pipeline prior to commencement of detail design and/or construction. No charge is made for this service (unless substantial on-site time for the Pipeline Surveillance Inspector is required).

A site visit and pipeline locating of Viva Energy's pipeline using an electronic pipeline service locator will be performed at **NO COST** to you.

Please allow up to 3 working days when booking in a site visit. A site visit can be booked by contacting the Viva Energy Pipeline Surveillance contact.

Non-destructive digging potholing of Viva Energy pipelines

Potholing

Potholing must be undertaken to validate the location of buried pipelines, by physically exposing them. Viva Energy's buried pipelines must be validated and proven before commencing excavation works. Potholing must conform with AS5488 – 2013 Quality Accuracy Levels for location accuracy.

Hydro vacuum excavation

Hydro vacuum excavation is a method that is used to undertake non-destructive digging (NDD). However, caution should be exercised as it has been known to cause damage to pipeline coating systems. Viva Energy has specific requirements and procedures for this process. **ANY NDD** potholing to be conducted on a Viva Energy Pipeline must be done under the supervision of Viva Energy Pipeline Surveillance Inspector under a Right of Way Permit.

Any damage incurred to pipeline coating systems will result in repairs and costs covered by the third party contractor.

AS5488 – 2013 Quality Accuracy Levels

Viva Energy requires that works are carried out to Quality Level A (which meets location accuracy standards for minimum risk when excavating).

Quality Level A is the highest quality level accuracy and requires positive identification of Viva Energy Pipelines at a point to an absolute spatial position in three dimensions. It is the only quality level that defines Viva Energy Pipelines as validated for the purposes of "planning" and any excavation whereby the Inspector deems that a Quality A – NDD is required to positively identify the pipeline.

ONLY Approved Viva Energy NDD Contractors can be used for potholing on Viva Energy Pipelines. A list of Contractors can be provided on request.

Boring and horizontal directional drilling

Where a bore is to pass under, over or near a Viva Energy pipeline, the location of the pipeline must be proven initially by NDD and subsequently by excavation. The excavation is to be extended to a distance of 1 meter from the pipeline on the side from which the bore will approach. The position and direction of the bore head is to be checked when it reaches the excavation to ensure the required minimum clearance between the bore and the pipeline will be maintained. In addition, progressive measurement checks of the length of the bore on the approach towards the pipeline must be made to ensure that the bore head has not missed the bore proving excavation and travelled off alignment on alignment of depth. The final pullback (annulus) diameter of the bore with reaming tools shall be assessed to ensure a minimum clearance from pipeline is maintained

Mechanical equipment

NO MECHANICAL EQUIPMENT is to be used within a horizontal distance of 1.0 m of the proven pipeline location unless approved by Viva Energy Pipelines Surveillance Inspector.

Minimum pipeline clearance requirements

The **MINIMUM** clearances from the pipeline for planning purposes (per the pipeline licensing authority) **and only** if approved by Viva Energy are as follows:

- (a) 0.5 metres to buried equipment or structures crossing the pipeline;
- (b) 1.0 metres to buried equipment or structures laid parallel to the pipeline; and
- (c) 3.0 metres to any building* and the extremity of the pipeline (measured horizontally).

Note: A person must not, without the prior approval of the licensee, damage or occupy any land used for the construction or operation of a pipeline if the damage or occupation would result in interference to the construction or operation of the pipeline or the licensee's lawful access to the pipeline or the site of the proposed pipeline.

As per NSW Pipelines Regulations 2013 Division 6.27 – Penalties and demolition orders apply to contravention

*Excavation within 400 mm of the pipeline is to be backfilled with well-compacted good quality packing sand.

Use of explosives and blasting

Written approval from the Viva Energy Pipeline Coordinator is required when using explosives or blasting in the vicinity of the pipelines with the conditions as follows:

No Blasting is permitted within 30 meters of the pipeline or demolition by blasting. Any Blasting shall be carried out with extreme caution after an engineering assessment by Viva Energy

- (a) No explosives are to be used within 30.0 m of the proven location.
- (b) Persons using explosives must be licensed under the applicable dangerous goods regulations.
- (c) Blasting must be in accordance with SAA Explosives Code 2187.
- (d) Heavy coir or other approved matting must be used to cover the explosives area.
- (e) "Cordtex" or other detonating type fuses shall not cross the pipeline if less than 0.5 m cover exists.
- (f) Carriers containing explosives must not be left within 5.0 m of the pipeline during blasting.
- (g) No blasting is to proceed within the limits of clauses (b) and (c) above until approval is given by the Viva Energy Pipeline Coordinator.
- (h) Blasting methods must be arranged to limit ground vibrations to less than 20 mm/s peak particle velocity at any point on the pipeline.

Proposed works more than 3 metres from the pipeline that may cause earth movements or vibrations such as rock breaking or pile driving must also be referred to Viva Energy.

Poles (power and telephone), signage and fencing

Before the placement of new poles (power & telephone), Signage and fencing, you must contact the Viva Energy Pipelines Surveillance Inspector. Please note that a minimum of three working days' notice is required. This allows marking out of prohibited areas and enables the licensee to supervise where appropriate to prevent damage to the pipeline.

Pipeline corridor

Vegetation shall be managed to allow Viva Energy unfettered passage along the pipeline route.

No material is to be placed on or near the pipeline corridor unless written approval from the Viva Energy Pipeline Coordinator is received.

Note: Landscaping material should be a minimum of 6m to each side of the pipeline.

Notification of proposed developments

For proposed developments or changes in land use within the vicinity of a pipeline, detailed submissions at the concept stage are to be made via email to the Viva Energy Commercial Lead - Pipelines Linda Busbridge.

linda.busbridge@vivaenergy.com.au

As per NSW Pipelines Regulations 2013 Division 6.27

A person must not, without the prior approval of the licensee, damage or occupy any land used for the construction or operation of a pipeline if the damage or occupation would result in interference to the construction or operation of the pipeline or the licensee's lawful access to the pipeline or the site of the proposed pipeline.

Penalties and demolition orders apply to contravention.

Approval from the Regulator may also be required.

Installation and construction

Submissions including preliminary drawings and scope of work at the concept stage (Including but not limited to Utility Service Crossings) are to be made to Viva Energy Pipelines Surveillance Inspector.

Contact details

Primary contact: Viva Energy Pipelines Surveillance – Freyssinet Australia

Phone	1800 945 223
Email:	dbydns@vivaenergy.com.au

Secondary contact: Viva Energy NSW Pipelines Coordinator

Name:	Craig Bennett
Mobile:	0404 579 918
Email:	c.bennett@vivaenergy.com.au

Emergency contact details - Viva Energy Pipelines NSW

Viva Energy - Pipelines - Emergency 02 9897 8704.

*Our terms and conditions are in line with and to ensure compliance to NSW Pipelines Act 1967, NSW Regulations 2013 Australian Standards AS2885, Work Health & Safety Regulation and SafeWork NSW.

James Crowden
Operations and Pipelines Manager
Viva Energy Australia Pty Ltd