

July 2024

Ivanhoe Tank Site Tank Removal Works



Image from inside the tank

Works Update

Works to demolish the redundant water tank at 421 Upper Heidelberg Road, Ivanhoe are progressing well.

The demolition of the tank is a significant step to prepare the land for future housing.

We are currently removing the walls, roof and roof structure of the tank.

The final stage will be removing the pump tower and then the tank flooring, followed by levelling the tank base area in preparation for future development works.

The whole process should be completed by early September, weather and site conditions permitting.

Noise and vibration

There are different types of disruptions that may be caused by these demolition works – the main ones being noise and vibration.

We are aware the community is feeling the affects of this and we are doing what we can to reduce the impact of noise and vibration on site.

Some of the things we are doing to reduce noise and vibration include:

- undertaking noisy and vibration generating works during normal working hours - Monday to Friday, 7am to 6pm and Saturday 9am to 3pm.
- monitoring of vibration and noise levels using state-of-the-art sensors to ensure compliance with safety standards and regulations.

Noise and vibration monitoring

We have been actively monitoring sound and vibration levels at the site and can confirm that:

- vibration levels are well below levels that could cause cosmetic damage to nearby buildings/structures
- noise levels are below the range of 90 - 100 dBA, which is the expected noise level for these types of demolition works (see table over page for reference).

We will continue to regularly review data from these monitors to ensure works are being delivered within EPA guidelines for vibration and noise.

Types of noise and vibration

Air-borne noise is sound that travels through the air. It may be continuous, impulsive or intermittent, and may contain high pitch or low dominating tones. Examples of air-borne noise include talking, a car starting, the radio or television, or even a dog barking.

Ground-borne noise is sound generated by vibration transmitted through the ground into a structure. The ground-borne vibration causes the walls and floors of the building to faintly vibrate and subsequently radiate noise.

If it is of sufficient magnitude to be heard, it is typically heard as a low frequency rumbling. Sources of ground-borne noise include trains, buses on rough roads, and construction activities such as rock-breaking and drilling that are vibration intensive.

Vibration is the rapid movement of an object back and forth which occurs when it is displaced from its original position and returned to it. In some cases, the ground borne vibrations can cause secondary noise effects such as the rattling of crockery and other furnishings.

Perception of vibration. Vibration is generally detectable to humans at levels well below those at which structural damage can occur. This can be the reason that people feel concerned or raise issues when they feel vibrations while construction activity is underway.

Vibration-induced damage is very rare. Minor damage, such as cosmetic cracks in plaster, is normally due to another cause.

Construction vibration levels are generally well below levels associated with minor cosmetic damage.



Current works underway to remove the walls

How is sound measured?

| Sound Pressure Level (dB(A)) | Typical Source | Subjective Evaluation |
|------------------------------|---|---|
| 60 | Moderate radio or television | Moderate to quiet |
| | General traffic from nearby major roads | |
| | Conversation at 1m | |
| 70 | Passenger car at 7m | Loud |
| | Vacuum cleaner at 1m | |
| 70-85 | Use of power and pneumatic hand tools at 10m | |
| 80 | Traffic at Upper Heidelberg Rd from the kerb | |
| | Earthworks (including excavation with bucket attachment) at 10m | |
| | Bored piling (to be used where practicable) at 10m | |
| | Assembly and operation of mobile crane at 10m | |
| 90 | Vehicle and plant movements in and out of site areas at 7m | |
| | Heavy truck at 10m | |
| | Demolition works of existing structures at 10m | |
| 90-95 | | |
| 100 | Loud car horn at 3m | Pain threshold, unpleasant to intolerable |
| 140 | Jet plane taking off at 25m | |



Want to know more?

For more information about the project visit: development.vic.gov.au/projects/ivanhoe

For any queries, reach out to the Ivanhoe project team via email: ivanhoetanksite@development.vic.gov.au



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If you require information in another language, please call us on 9280 0755

Development Victoria respectfully acknowledges the Traditional Custodians of Country throughout Victoria. We recognise their continuing cultural heritage and connection to land, and pay our respects to their Elders, past and present.

