



# PROJECT PROFILE

**Client:** Clarence Valley Council

**Location:** Lawrence and Southgate, NSW

**Industry:** Government

**Duration:** Stage 1: Oct 19 - Nov 19; Stage 2: Dec 19 - Feb 20

**Services:** Industrial Demolition

**majorprojectsgroup**

Demolition | Consulting | Engineering

## Clarence Valley Tank Demolition Lawrence and Southgate, NSW

### Project Overview

Major Projects Group facilitated the demolition and site remediation of two large, now redundant, water towers in Clarence Valley, NSW.

The towers themselves were 24.3 meters in height and had a radius of 7.6 meters. As well as being located in a remote location, the tanks presented a challenge due to their close proximity to neighbouring private residences and school grounds. These challenges were increased due to the high concentration of asbestos and lead contamination in the tanks.

### Scope of Work

The project included the removal of asbestos and a lead coating on two 24.3 meter high water tanks, the demolition of the water tanks themselves, removal of material, and groundworks to fill in the resulting hole.

### Unique Challenges

- Close proximity to private residences and school grounds;
- Hazardous materials on site;
- Fire prone area; and
- Remote and hard to access site.

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## Customized Solutions

Major Projects Group began by oxy-cutting a 2 x 1 meter section out of the towers' base. These initial holes in the towers enabled scaffolding to be brought inside, allowing a team to safely remove the asbestos from the inside.

The next step involved using an elevated work platform to strategically cut sections in the tower from top to bottom. Due to the lead coating on the outer face of the tower, the elevated work platform's basket was covered in tin sheets to prevent small flakes from spreading to the surrounding area.

With the slices cut into the side of the tower, a 25-tonne excavator with a grab attachment was used to tear each section down. This process continued until all of the tower was dismantled and the pieces loaded onto trucks.

In all, 116 tonnes lead contaminated steel and 24 tonnes of concrete was removed from both sites and then recycled.

## Results

The demolition of both towers and removal of materials was completed on time, with no major incidents and minimal interference to the surrounding buildings and environment.





