



BRANZ fire testing expertise helps commission Auckland's Waterview Tunnel fire safety systems

- A positive track record, being independent and having credibility in the compliance field led to BRANZ's fire engineers completing the fire safety feature testing as part of Auckland's Waterview Tunnel safety systems being commissioned.
- A hot smoke test was completed at three locations of both tunnels [i.e. beginning, middle and end] to prove the logic of the fire safety response system and test that the system was doing what it was designed to do.
- BRANZ fire engineers test using cold non-toxic pyrotechnic smoke that doesn't leave any soot deposits and a clean burning fire to heat the smoke so it performs like buoyant real fire smoke. The degree of heating was controlled such that it would not harm the sensitive equipment in the tunnels – lights and fire detection system.
- The heated buoyant smoke would then trigger the detection system as if it was real smoke and then the response was tested. The Waterview Tunnel project team used these series of tests to verify all fire safety systems were operating as designed to and that it would work in a real fire event.

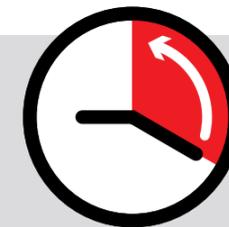
BRANZ work on testing the fire system helps ensure the safety of

63,000 vehicles

who travel through Auckland's Waterview Tunnel each day.



The Waterview Tunnel is a key piece of the NZ Transport Agency's 48km Western Ring Route to ease motorway congestion through central Auckland.



Travel times to Auckland Airport have been **cut by** around **20 minutes** with the opening of the tunnel.



The five **deluge storage tanks** can supply **10mm of water per minute** inside any of the **173 zones** of the twin tunnels.