



# Laboratories

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# Leading innovation in **laboratory services**



## **Our advantage | Leading innovation**

Fulton Hogan's laboratories (labs) across New Zealand use cutting-edge technologies and champion innovation to provide accurate and efficient testing.

## **Our accreditation | Quality guaranteed**

Our labs are IANZ accredited to NZS ISO/IEC 17025:2017 – the global benchmark for laboratory management systems. It recognises the technical competence of our services and ensures clients can trust our processes and test results.

## **Our services | What we provide**

Our labs offer a broad range of material, field and research testing services, from routine quality control testing to research and development projects.

Experienced staff manage our labs, while specialists such as analytical chemists and bitumen experts deliver our testing services.

Testing is delivered to required standards, such as to NZ Transport Agency and local council testing specifications.

## **Asphalt**

We're leading asphalt design experts and can provide performance and quality testing for any asphalt product to meet project specifications.

### **Services and tests include:**

- Fatigue testing.
- Wheel tracking to measure deformation resistance.
- Asphalt coring.
- Gyrotory and Marshall design procedures.

## **Bitumen and binders**

Capable of handling a range of different bituminous materials, our lab can verify binder performance and test emulsion quality.

### **Services and tests include:**

- Binder content and grading.
- Dynamic Shear Rheometer (DSR) testing.
- Pressure Aging Vessel (PAV) testing.
- Binder extraction of asphalt and RAP.



## Concrete

Specialist staff provide comprehensive assessments of fresh and hardened concrete at any stage of construction.

### Services and tests include:

- Concrete mix design.
- Concrete cylinder testing.
- Sampling of fresh concrete, including density, yield and air content.

## Aggregates and soil

Modern technology and expert staff offer a wide scope of assessments to evaluate the properties and quality of materials.

### Services and tests include:

- Repeated Load Triaxial (RLT).
- Polished Stone Value (PSV).
- ITS design.
- Maximum dry density (MDD).
- M/4 source and production.

## Site and field

Our lab teams are hands-on and equipped with a range of tools to carry out field testing at any stage of pavement construction.

### Services and tests include:

- GripTester®.
- Nuclear densometer (NDM) for soil and aggregate.
- Lightweight deflectometer and Benkleman Beam.
- Pavement Quality Indicator (PQI).
- Test pits and site investigations.

## Environmental

A range of environmental monitoring and assessments are available, using the latest technology and proven testing methods.

### Services and tests include:

- Handheld XRF testing for heavy metals.
- Dynamic Shear Rheometer (DSR) testing.
- Stack emissions and atmospheric dust fall.
- Organic content and pH.

# Locations

## North Island

### 1 Auckland

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## Contact our team

Contact our regional labs for more information and to talk with the team about your requirements.

 [fultonhogan.com/laboratories](https://fultonhogan.com/laboratories)

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