Pavement Performance and Investigation

RoadTek Pavement Performance and Investigation (PP&I) services offer a complete range of pavement management services including collecting, analysing, storing and maintaining data, as well as providing pavement design and expert engineering advice.

Our extensive range of mobile survey equipment and video imaging provides accurate and detailed information on surface condition, road furniture and pavement deflection.

RoadTek’s highly trained, experienced and dedicated staff provide expert planning, management and delivery of all aspects of road pavement management. We provide our customers with a commitment to safety, quality and service delivery.

All pavement performance activities include fully compliant traffic control as part of the service, to ensure we minimise the disruption to traffic flow.

Pavement Performance Services

PP&I use the latest technology to provide road condition advice and guidance on planning, vestment and management of pavement. We also use specialist systems and analytical capabilities to measure, analyse and report on pavement conditions.

We can provide customers with accurate assessments of:

- road condition including rutting and crossfall configuration
- road furniture inventory including digital video imaging
- pavement deflection strength and design
- visibility of line markings and reflectivity
- surface texture including skid resistance
- visual rating of road surface including cracking
- serviceability (particularly ageing effects)
- road roughness (ridability).

Our road and pavement services are not limited to just roads. We can also cater for a variety of other projects. We have provided road and pavement services for:

- airports – Coolangatta, Townsville, Cairns and other regional airports, with particular focus on runways and taxiways
- defence establishments – Amberley Base Airfield and the road network of the Lavarack Army Base in Townsville
- container yards – Port of Brisbane
- mines - testing and design - XStrata
- private companies and Local Government.
Providing technical solutions

RoadTek provides customers with expert technical advice and recommendations on all aspects of pavement performance. We help our customers develop and implement road management, maintenance and rehabilitation plans. Our areas of technical expertise include:

- identifying road defects by measuring the longitudinal and lateral road profile
- capturing digital and analogue images to provide information on road inventory features including road furniture and line marking
- providing images of pavement conditions, including cracking, to assist in pavement evaluations
- providing feedback and analysis on road and pavement condition by comparing current and historical data
- providing recommendations and developing road maintenance programs to prolong pavement life.

Specialised equipment and technology

PP&I have specialist technical plant and equipment to measure and evaluate pavement performance including:

- **Multi laser profileometer (MLP)** – a multi laser system to measure longitudinal profile for roughness, continuous surface texture and rutting
- **DV cam image processing** – to analyse video images of the pavement (and road furniture) to identify defects including cracking, edge breaks, pot holes and patches (on sealed and unsealed roads)
- **Digital video** – a high resolution video system to measure road geometry and reflectivity of road line marking
- **Deflectograph** – measures the structural strength of the pavement surface under a standard axle load
- **Falling weight and heavy weight deflectometer** – to assess structure using varying loads
- **Electric friction skid tester** – to measure skid resistance for network surveys, project level work and accident site investigations for input to pavement design, construction, rehabilitation and remaining life analysis.

Committed to safety, quality and the environment

We are committed to providing a safe environment for our people, contractors, sub-contractors, suppliers and the public.

To ensure our safety performance is continuously improving and meeting legislative requirements, RoadTek has implemented a Safety Management System that is fully certified to the Australian and New Zealand Safety Standard AS/NZS 4801:2008. We also adhere to the Department of Transport and Main Roads’ Manual of Uniformed Traffic Control Devices (MUTCD) and are registered as a traffic management company to ensure we deliver our services in a safe manner.

Our commitment to quality means doing the job right the first time, listening to our customers and improving the way we operate. Our Quality Management System is accredited to the International Standard ISO 9001:2008.

RoadTek is committed to building a sustainable future and minimising impact on the environment. Environmental management is an integral part of our business operations and is a major consideration in all business decisions.

To ensure our environmental performance is continuously improving and meets legislative requirements, RoadTek has implemented an Environmental Management System. This system is fully accredited to the International Standard ISO 14001:2004.