

# Transmission Gully Project

A NZ Transport Agency PPP Project



## CONSTRUCTION UPDATE

OCTOBER 2015 ISSUE

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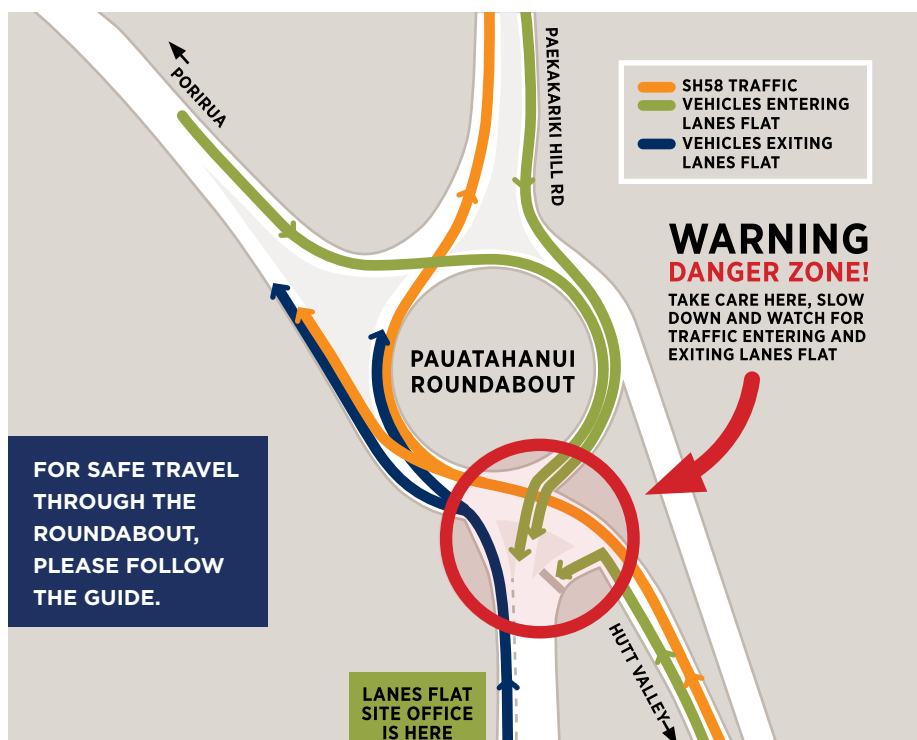
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## WE'VE MOVED IN

August 18 was a milestone day for the Transmission Gully Project with the opening of the site office at Lanes Flat, in Pauatahanui.

More than 25,000 cubic metres of fill have been imported and close to 200 piles driven to support the prefabricated buildings which will provide office space for around 130 staff involved in the physical build.

Because safety is important to us we want to remind motorists there is now an access point into the compound off the Pauatahanui roundabout. This means vehicles heading towards Porirua or Pauatahanui from the Hutt Valley need to be sure to GIVE WAY as they enter the roundabout to avoid vehicles coming into and exiting the site.



### ONE YEAR ANNIVERSARY

**It's also now been a little over a year since the contract was signed between Wellington Gateway Partnership and the NZ Transport Agency to finance, design, construct, operate and maintain the Transmission Gully Motorway - which is due to open in 2020.**

During this time we have continued to undertake investigation works and will soon begin improving or constructing new tracks and installing drainage at various points along the alignment to support the earthmoving operations that will follow in this, and following seasons.

Our team continues to work collaboratively with the local territorial and regional authorities to formalise management plans and complete detailed design work to support the start of our main works this year.

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## DRONE MASTER

As the largest earthmoving exercise for a civil road project to date, the Transmission Gully project promises to break new ground in engineering and construction practices.

Already the design and build team is integrating new technology within established processes to enhance the delivery of some tasks in terms of safety and efficiency.

One example is the use of Unmanned Aerial Vehicle (UAV) or drones to support the speedy collection of real time GIS and Survey information critical in both design and construction.

Four drones will be employed on the Project gathering data which can be loaded onto digital software providing the most up to date survey and GIS information.

*BELOW: It's a science and a skill, and anything but traditional in terms of surveying, but LHJV Drone Master Hins Zhang prefers it - "because it provides a faster, cost-effectiveness and convenient way to monitor and survey a big project like Transmission Gully."*



### CAA RULES

**The use of drone technology is governed by civil aviation rules designed to manage privacy and safety concerns. For this project this means:**

- Any images or data collected will only be used for the purposes for which they were gathered.
- Images will be housed securely and not be made available generally.
- Drones will only be manned by skilled operators
  - fly no higher than 120m above ground level
  - only during daylight hours, and
  - always within line of sight.
- Any data gathered will be disposed of, once it has served its purpose.
- Owners can ask to access any drone footage that might have captured images of their property.

Civil Aviation Authority rules for operating unmanned aircraft can be found on the CAA website at [www.caa.govt.nz/rpas](http://www.caa.govt.nz/rpas)

## GIVING BACK

As "the ones designing and constructing a safe alternate route between MacKays and Linden" the Project also continues to support the Wellington Free Ambulance.

**\$750** was raised by the design and construction team to support the annual appeal and **Onesie Day** on Friday September 11.

Wellington Free is the one and only paramedic service for Greater Wellington and the Wairarapa, and the only ones in the country who are free. They need to find \$4 million per year to keep the service going.



*ABOVE: Getting into the spirit of the day!*

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## SUPPORTING OUR COMMUNITY

The Project is working with police and the fire service to support a number of training exercises along the route of the new motorway while the opportunity still exists.

Both the Armed Offenders and Dog Handlers squads have been exercising in and around some of the now vacant properties along the route to support the development and confidence in the likes of hostage negotiation and execution of search warrants.

The Fire Service has also been training volunteers in using search and rescue in breathing apparatus, manoeuvring filled fire hoses through properties, and working at heights.

Both emergency services say these types of opportunities are highly valued as they don't come along every day.

"We are always looking for training venues that replicate something we may encounter in the "real" world. We appreciate being allowed to use the Transmission Gully environment to support ongoing training and development of our teams, both human and canine." Constable Jason Todd

"This has provided us with a fantastic opportunity to train crews in some of the new safety procedures as well as providing a great training ground for new recruits still working on the basics. We are very grateful for the opportunity." - Simon Quirke, Station Officer, Tawa.



**ABOVE:** LHV Engineer Mark Di Palma was on hand to support the police operation at the northern end of the Project, though this group photo is the closest he got to being part of the exercise.

## CREATING ROADS OF OPPORTUNITIES

With a reputation for facilitating safe travel, the Leighton HEB Joint Venture which is designing and constructing the Transmission Gully Motorway, is now also creating roads of opportunity for local youth considering careers in construction and engineering as foundation partners in the Porirua **Youth 2 Work** initiative.

The aim is to develop youth for the working world helping promote them into education, training and employment.

Antony Feek, one of LHV's youngest engineers, acknowledges there are a lot of challenges and pressures being a young graduate on a job like this, "but there's always a safety net within what is a very supportive environment".

He enjoys the mix of office and field work, not to mention the opportunity of being a part of such an historic project. "Transmission Gully is something our lecturers talked a lot about at university and was something I always thought would be great to be involved in."

**RIGHT:** One of the best things Antony says is working alongside very different people from all over the world" which provides him with exposure to the global engineering scene. "That's really important as a stepping stone to bigger projects and opportunities."

