

# CONSTRUCTION UPDATE



Hōkai Nuku leading the whakawātea for the Wyllie Rd site office with members of the NX2 team and the NZ Transport Agency

## Wyllie Road Site Office, Open For Business!

*On Tuesday 13 June members of the NX2 team along with iwi partners Hōkai Nuku and the NZ Transport Agency, officially opened the project's main site office at 45 Wyllie Road, Warkworth. Hōkai Nuku led a whakawātea (blessing) for the new site office and to celebrate the important project milestone.*

As part of tikanga (Māori protocol), the whakawātea ensures the safety and peaceful pathway for staff located in the office and for all who pass through the project area. In consultation with Ngāti Manuhiri representatives, Hōkai Nuku gifted the name 'Kourawhero' (red crayfish) for the site office. Kourawhero is also the name known to mana whenua for the surrounding Wyllie Road area and of a nearby stream. The ceremony and gifting of the Kourawhero name represents the importance of this area to mana whenua and the ongoing partnership between Hōkai Nuku and NX2.

Project Director Alan Orange says: *This is a monumental day for the project and we thank Hōkai Nuku for the gift of Kourawhero. These buildings will be our home and a place where many important discussions have had, decisions will be made and milestones will be celebrated.*

The NX2 project team are moving in progressively over the next couple of months and we look forward to being part of this community over the next five years.



NX2 CEO Ray Wilson and Hōkai Nuku Kaumatua Ringi Brown



Hōkai Nuku leads members of the NX2 team and the NZ Transport Agency for the whakawātea

## Project Information Centre

*Along with the opening of the project site office, we are pleased to announce we have opened our project information centre.*

Here you'll find maps of the project, progress photos and videos and information on various areas of the project, such as key design elements, environment and ecology, and construction.

The information centre is open during weekdays, and on set days and times members of the Stakeholder and Communications Team will be available to answer questions.

Official opening hours are:

- Tuesday, 1pm to 4pm
- Thursday, 9am to 12pm
- First Saturday of the month, 10am to 1pm

For specific information about the project, please email [info@nx2group.com](mailto:info@nx2group.com) so we can arrange a suitable time to meet with you.

**We are located at 45 Wyllie Road, Warkworth.**



# Second Major Site Access Point ('SAP 7') Opening Soon

In preparation for the project's first earthworks season, we continue to construct our key site access points (SAPs) which will ensure construction vehicles can enter/exit the project area safely and efficiently.

Construction of SAP 4 located at 1509 State Highway 1 (SH1) south of Perry Road, is now well underway and will be fully operational to construction vehicles by October 2017.

Construction of our second major site access point, known as 'SAP 7', will soon get underway.

SAP7 is located just past Hungry Creek on SH1 at Watson Road (a forestry road) south of Mahurangi West Road. This will be the main access for construction vehicles entering/exiting the southern end of the project.

Establishing the access point involves closing the southbound Hungry Creek passing lane to

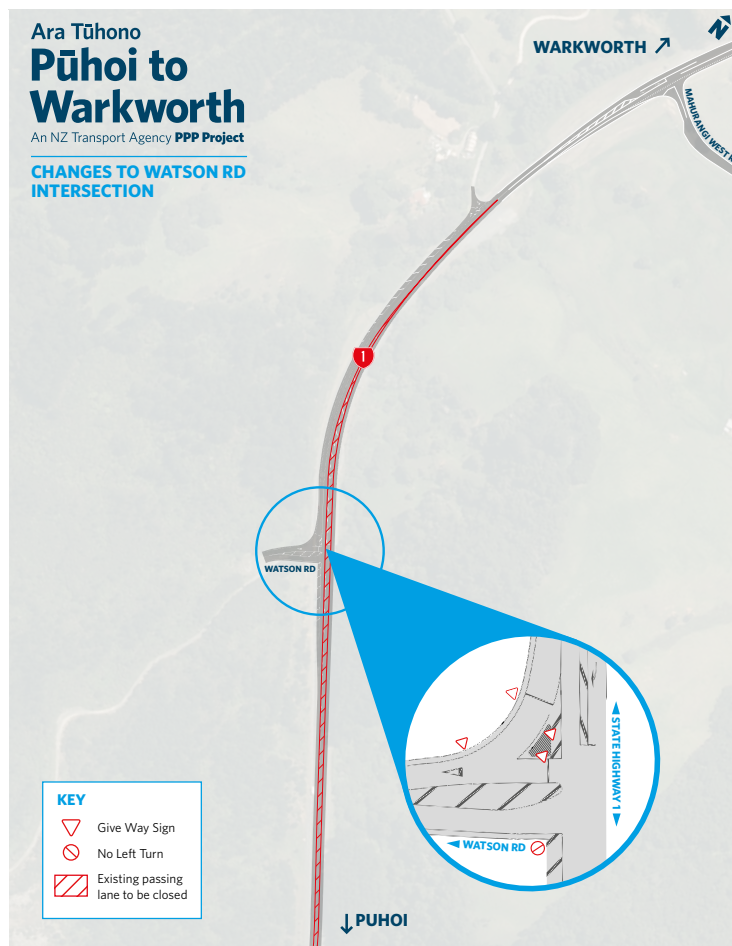
create space for a safe right turn bay, wide median and wider shoulder. After careful evaluation with the Transport Agency, it has been decided that the passing lane will remain closed for the entire construction period.

Works are expected to take six to eight weeks. Temporary traffic management will be in place during construction, including a temporary speed limit of 70 km/h.

For safety reasons, part of the work will take place between 9pm and 5am when traffic volumes are lower to minimise disruption. 'Stop-Go' operations will be in place and there may be some minor delays.

Please be patient and take care when travelling through the work area.

To stay up-to-date with the latest traffic information, visit <https://onthemove.govt.nz/>



Police dog training exercise on Billings Road

## Crime Prevention

We recently had the NZ Police Dog Handlers run a training exercise on Billings Road, a timely exercise as there have been some reports of theft in the area.

NX2 is working with the Warkworth and Orewa Police, to minimise the risk of crime in and around the project area. We want to remind people to keep an eye out for anything suspicious and to contact us or your local police station if you have concerns.

**If there is an immediate risk to personal safety or property, please call 111.**

## Road Safety & Driver Behaviour

We continue to reinforce our key messages on road safety and driver behaviour to all staff and contractors. These messages apply to all, so we encourage our project neighbours and other road users to drive with greater caution, so everyone gets home safely.

### SOME OF THE KEY MESSAGES WE'RE PROMOTING:

- Plan your journey and be prepared for minor delays
- Keep to the speed limits and increase your following distances
- Be aware of your surroundings, observe road signs and traffic management
- Be aware of hazards and winter road conditions e.g. sunstrike and slippery surfaces
- Be patient and courteous to others on the road

For more information on road safety, take a look at the NZ Transport Agency's 'Driving Safely' webpage: <https://www.nzta.govt.nz/safety/driving-safely/>

## Drone Footage Now Available

In our May edition, we told you about our plans to send a drone out to get a 'bird's eye view' of how the project is progressing. We've now got some footage and we're excited to share this with you. Visit <https://nx2group.com/image-gallery/project-photos/>



## What's Happening Next?

- Road improvement works on Moir Hill Road
- Construction of SAP 4 at 1509 SH1, Warkworth
- Construction of SAP 7 at Watson Road, Hungry Creek
- Construction of two temporary bridges at kauri eco-viaduct and west of SAP 4
- Continue to build access tracks and haul roads within the project area
- Finish logging works in the Mahurangi forestry area
- Ground preparation for installation of the first permanent culverts in the Mahurangi forestry area

## Meet The Team

*Meet Caitlin Golder, one of NX2's Environmental Advisors. Caitlin plays a key role in ensuring the construction team builds to the consent conditions or 'rules' of the project.*

Some of Caitlin's responsibilities include:

- monitoring the effects of construction, such as noise, dust and vibration, and advising the construction team to modify their methods when required
- managing the protection of Kauri, by setting up quarantine areas and cleaning stations, and educating and enforcing NX2's Kauri Protection Protocols
- testing the project's many sediment controls ponds after heavy rain

When asked about the challenges of the project, Caitlin says:

*The 'rules' for construction are different and more complex than other projects I have worked on. It's also a challenge balancing environmental management with construction because they are often at odds with each other, so it can be challenging to make decisions which enable construction*



*without compromising the environment. Although it's a challenging role, Caitlin says: I love how the job is so multidisciplinary. There is no one person on the project who knows everything, so it requires a collaborative effort to keep the project on track. I also love being part of a project where my outputs are tangible and I can see that what I do makes a difference to how we do things.*

Caitlin has a Masters of Science in Environmental Management, is a proud owner of a 'Brown Badge' from the Greenroads Foundation, an international non-profit organisation which aims to advance sustainability education and initiatives for transport infrastructure. Caitlin is also a Department of Conservation approved Level 2 bat ecologist.

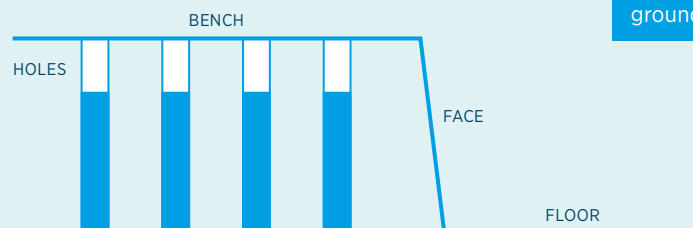
## Rock Blasting

We recently carried out our first controlled drilling and rock blasting in the 'Rock Borrow Pit' within the Mahurangi forestry area. Due to technology advances and techniques, we were well within our noise and vibration limits.



### KEY STEPS IN THE ROCK BLASTING PROCESS:

- Prepare the blast area and mark out the shot
- Drill holes approximately 8 - 12 metres deep
- In each hole, place detonators with boosters, then load explosives (shown in blue) and aggregate (shown in white) to contain the blast energy when initiated
- Connect all holes to apply sequenced detonation
- Clear the blast area and fire the blast
- Complete post blast inspections before excavation



### DID YOU KNOW?

Around two million cubic metres of quality rock is needed across the project and we'll be sourcing much of this rock from within the project area. The quality rock is a hard grey/blue sand stone, found approximately 8-12 metres below the existing ground level.

## Project Timeline

### JANUARY 2017

Start of enabling works

### OCTOBER 2017

Start of bulk earthworks

### JANUARY 2018

Start of structures

### NOVEMBER 2019

Start of pavement works

### NOVEMBER 2020

Earthworks completed

### OCTOBER 2020

Structures completed

### SEPTEMBER 2021

Pavements completed

### OCTOBER 2021

Works completed

### LATE 2021

Motorway open to traffic

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