



PUHINUI STATION INTERCHANGE

SEPT 2019 - AUG 2021

Sustainable procurement outcomes achieved in station construction.



The story

Construction for Puhinui Station Interchange started in September of 2019, costing \$69 million and providing an early improvement to the Airport to Botany Transit Project.

The stunning architectural landmark includes mahi-toi (artwork) by Wāhi Wairua and the use of te reo Māori throughout – thanks to a partnership with mana whenua – with Te Ākitai Waiohū providing design leadership.

The station was designed by Aurecon, with architectural design by Jasmx, and constructed by a McConnell Dowell and Built Environs joint venture. It's future-proofed to allow for additional platforms and KiwiRail's third and fourth rail lines.

The station includes:

- Multiple access options; escalators, stairs and large lifts to accommodate station users with luggage
- Shared path connection, cycle storage racks, and separated crossings adjacent to the station
- Public toilets that use recycled storm water for flushing
- Drop-off zones and short-term parking bays
- New and larger platform shelters
- HOP ticket gateline
- Improved safety, lighting and CCTV
- Allowance for the future rapid transit overbridge across the rail line to provide a more direct connection with Puhinui Station Interchange as part of the Airport to Botany Rapid Transit programme.

The station design reflects the history of the area, working in partnership with Mana Whenua.

Sustainable procurement approach

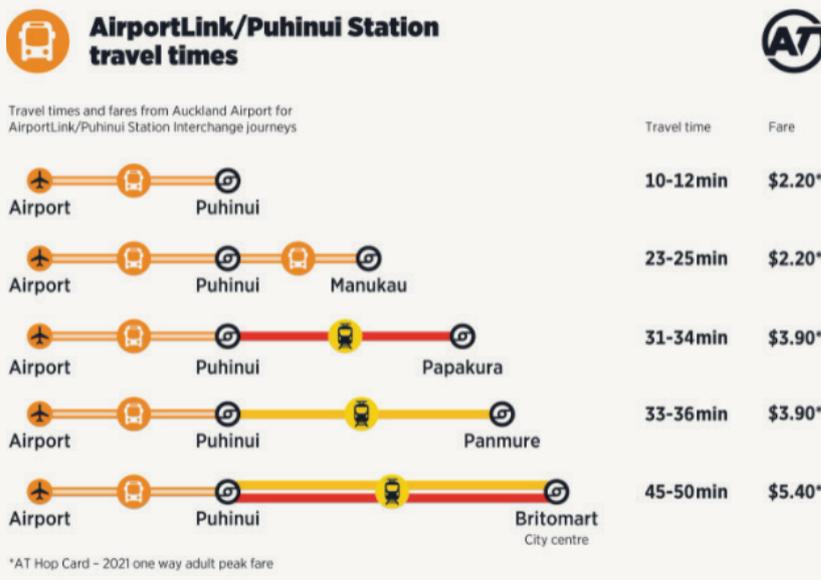
At the start of the project, the sustainable procurement team collaborated to decide how to implement sustainability with the construction of the Puhinui Station Interchange.

To deliver a more socially and environmentally aware project, a question was introduced in the proposal stages that asked for the contractor to agree to carry out the following sustainable outcomes within the physical works:

- Improved community wellbeing
- Targeted Employee Recruitment
- Local economy prosperity through supplier diversity
- Reduction of greenhouse gas emissions
- Reduction of water and energy use
- Circularity of materials used for creation of the station – Zero Waste to Landfill

With a percentage of weighting towards Sustainable Outcomes, the joint venture of McConnell Dowell and Built Environs had the opportunity to undertake the project and prove that they were up to the task of providing great public value through the sustainable outcomes achieved.

At the end of the project, a final sustainability review had concluded that the project met all the required KPI's and achieved Breakthrough status on the support and employment of Akina certified local Māori and Pasifika owned business of which over \$100,000 was spent with each business sub-contracted.



Impacts through sustainable outcomes

As part of construction, installation and fitout, the following sustainable procurement outcomes have been achieved:

1. Local, Māori and Pasifika owned businesses given opportunities on the project

The procurement team for Puhinui Station Interchange worked alongside Amotai to find opportunities to give Māori & Pasifika businesses opportunities within the construction phases. Approximately \$730,000 of work awarded to Locally owned, Amotai Māori & Pasifika owned businesses to date. This spearheaded alongside McConnell Dowell, displaying their commitment to achieving good outcomes throughout the construction process.

The businesses involved within the process were:

- **STOMP** - engaged for plant hire and have been on site since December 2019 with a total spend of over \$100,000
- **First Civil** - Engaged to complete the retaining walls and timber boardwalks at the latter stages of the project
- **Gorilla Masonry** - Engaged to complete the blockwork at the latter stages of the project
- **Gaicon** - Terrazo composite material installation
- **KiaTupato** - site security through which two women new to construction and recently unemployed because of COVID-19 had been taken on. Te Rina trained in beauty services prior to Kia Tupato providing her with the opportunity on our site. Kia Tupato has provided them with both training in Health & Safety and traffic control, and McConnell Dowell has included them in onsite training to support progression in the industry.

2. Local social enterprise providing employment for people with disabilities

Will&Able is an Ākina certified social enterprise that has provided quality employment to disabled people. These products were used on site, and because of this initiative, McConnell Dowell's Head Office has also started purchasing supplies from this social enterprise.

3. Providing educational opportunities

TJ & Danielle (Senior Quantity Surveyors) were invited as guest lecturers at AUT South Campus' Engineering Management Class. The pair presented to the final year Bachelor of Engineering students about variations and extension of time claims.

The project also hired Ihaia Te Awa at the end of 2020 as a new apprentice. This allowed him to gain knowledge and training in the New Zealand civil construction industry.



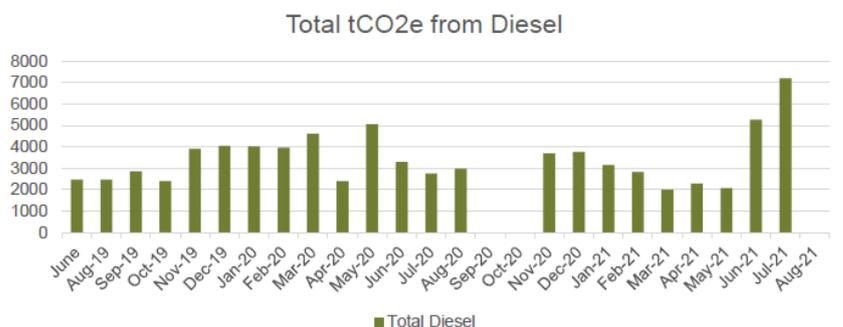
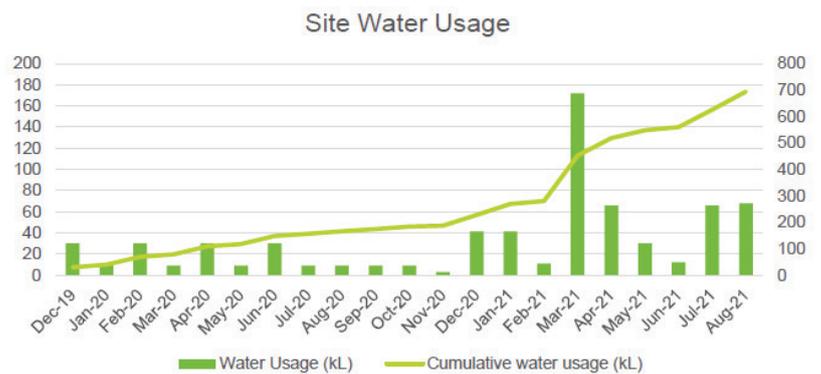
4. Environmental stewardship through waste reduction

The most recent figures displayed that the project was tracking at a 76.1% diversion from landfill each month. This was achieved through the reuse of timber, de-nailing and through the protection of permanent works. Separate steel bins were provided on site and decking material was redirected from one of the construction sites to the Papatoetoe food hub.

- The project purchased close to \$3000 worth of supplies from All Heart to furnish the site office and support their redirection of redundant and unwanted corporate items.

5. Environmental stewardship through water, fuel, power and CO₂ emission recording

Installation of recycled 1000L Bulk Containers were used to facilitate the harvesting of rainwater for onsite use. Below are the graphs which display the water, fuel, power and CO₂ recordings while on site. This is a process that is more becoming more common and allows us to measure from baselines and make projections for areas of improvement accordingly.



Lessons learnt

1. Bespoke procurement process

While standard Request for Proposal (RFP) processes typically applied in physical works can achieve some sustainable outcomes, improved sustainable procurement direction for suppliers from AT, our business partners and intermediaries can result in greater successes.

Advice:

- Providing detail of successes and opportunities through case studies alongside our partners, suppliers can increase their understanding of what outcomes are looking to be achieved and how they are able to achieve similar outcomes.
- The communication of the achievements, the challenges and the barriers to the implementation of sustainable outcomes between stakeholders and contractors prior to physical works is crucial to increase the probability of success.

By having intentional conversations alongside Auckland Transport, Amotai, Akina and All Heart; McConnell Dowell and Built Environs were able to agree on KPI's that demonstrated their intentions toward providing great public value throughout many areas in their project.

2. Improve KPI tracking & reporting

By improving AT's feedback and support for the tracking and reporting of outcomes throughout the Puhinui Station Interchange project, McConnell Dowell and Built Environs may have been able to outperform the Business as Usual environmental and socio-economic KPI's across the board.

Advice:

- While the measurement of fuel, energy, CO2 and waste was a step forward within the right direction. Due to gaps within the reporting of outcomes, it is difficult to determine what intention there was to improve these as the project progressed, whether this was performing greater than prior projects of a similar scale in the past, and what longer term impacts the implemented outcomes achieved.
- Increased reporting and reflection on the status of goals earlier in the project would allow for the outcomes to be implemented promptly within the physical works timeline, and thus improving the success of the overall environmental and socio-economic results.



Huge credit to McConnell Dowell and Built Environs, who have not only delivered a superb public transport asset, but also fully embraced the requirement to deliver broader sustainable outcomes beyond the physical asset itself. McConnell Dowell and Built Environs proactively planned and dedicated resource and effort to deliver the full suite of broader social, economic, environmental and cultural outcomes throughout the project. KPIs were met or exceeded in all areas of contract sustainability performance, but it is the community engagement, use of local and diverse suppliers and creation of employment opportunities that will long be remembered as a legacy created by the project. I would rate the sustainable outcomes achieved as an exemplar among the New Zealand construction industry and McConnell Dowell and Built Environs should be very proud of their achievements.

Dave Colquhoun:

Procurement Manager (Infrastructure) and Sustainable Procurement Lead

