



community update

July 2009



PROPOSED PROJECT CHANGE – WOOLLOOWIN CONSULTATION NOW OPEN

To ensure the most efficient delivery of the Airport Link Project, a proposed change to the tunnelling construction program to encompass 'the proposed Woolloowin Worksite' has been recommended.

Extensive geotechnical investigation and analysis has been undertaken since project commencement in 2008 to understand construction tunnelling requirements across the Airport Link and Northern Busway (Windsor to Kedron) alignment.

Investigations conducted in the Kedron and Woolloowin suburbs indicate that tunnelling for the Airport Link on and off ramps at Kedron will require more extensive construction activities than previously planned.

As a result, establishment of an additional roadheader launch and operation site on the parcel of vacant land situated between Park

Road, Rose Street and Kent Road in Woolloowin has been identified (see proposed site plan below). Use of this land will not require property resumption, building demolition or disruption to community facilities. It is also in close proximity to the tunnel alignment with favourable ground conditions.

The proposed site would be used for the duration of construction only, then revegetated and reinstated in mid 2012.

The Request for Project Change for the proposed Woolloowin Worksite will be assessed and approved by the Coordinator-General.

BrisConnections and Thiess John Holland are committed to the safe and efficient delivery of the Airport Link, Northern Busway (Windsor to Kedron) and Airport Roundabout Upgrade Projects by mid 2012, improving traffic flow and public transport connectivity for northside residents.



Proposed site plan

Further details on the proposed Woolloowin Worksite and consultation process:

Consultation is now open and will close 5pm, Friday 17 July, 2009.

You can make a formal submission in writing for the Woolloowin Worksite Request for Project Change; please send to:

Coordinator - General
c/- Project Manager: Airport Link Project
Significant Projects Coordination
Department of Infrastructure and Planning
PO Box 15009 City East, QLD 4002
Fax: (07) 3225 8282
Email: airportlink.manager@dip.qld.gov.au

State Government's City North Infrastructure

- General enquiries – 1800 99 00 38 (freecall)
- Property enquiries – 1800 79 41 88 (freecall)
- www.citynorthinfrastructure.com.au

Airport Link Project

- Visitor Information Centre located at Centro Lutwyche (open Wed – Fri 10am - 4pm, Thurs 2pm - 7pm, Sat 9am - 12pm)
- 24 hour Community Hotline – 1800 721 783 (freecall)
- www.brisconnections.com.au



EARLY START TO AIRPORT ROUNDABOUT UPGRADE



North easterly aerial view of the new 750m flyover bridge and signalised fast diamond intersection

On April 24 Premier Anna Bligh signalled the official start to construction of the \$277 million Airport Roundabout Upgrade (ARU) project – the solution to Brisbane’s most congested intersection.

Ms Bligh said the early start was good news for motorists currently suffering long delays on the Airport Roundabout.

“The upgrade is expected to save motorists more than 10 minutes to and from Brisbane Airport during peak periods.”

BrisConnections CEO, Dr Ray Wilson, says the project’s early start will allow Thiess John Holland to complete construction in late 2011.

“Thanks to the excellent cooperation we received from Brisbane Airport Corporation, and the early approvals from the Commonwealth and State Governments, construction of the Airport Roundabout Upgrade is starting four months ahead of schedule,” he said.

Dr Wilson said the project’s design solution separates local road users from traffic travelling to and from the Brisbane Airport, and provides motorists with safe, fast and reliable access to and from the airport precinct.

“The design includes a ‘fast diamond’ interchange and a flyover replacing the existing signalised roundabout to reduce traffic delays.

“In developing the detailed design of the Airport Roundabout Upgrade structures, we have been able to introduce a number of innovative changes which will enhance both the function and aesthetic appearance of the interchange.

“I am pleased at the great progress being achieved across the entire Airport Link project which is on time and on budget,” said Dr Wilson.

An architectural model of the ARU design can be viewed at the Visitor Information Centre at Centro Lutwyche Shopping Centre, Lutwyche Road.



Premier Anna Bligh and Minister for Infrastructure and Planning Stirling Hinchliffe launched ARU

Upgrade features:

- Improved connections and travel times to the airport precinct, Gateway Motorway and Kingsford Smith Drive
- New 750m four-lane flyover bridge connecting East West Arterial Road with Airport Drive
- New four-lane overpass replacing the existing Gateway Motorway overpass at the roundabout
- High capacity, fast diamond intersection to replace existing roundabout
- Widening of East West Arterial Road to three lanes in each direction
- Lane widening and surface road improvements to Airport Drive



A 21m high banner signified the height of the flyover bridge structure

Register now for SMS and Email updates!

The Airport Link Project has launched its new SMS and Email facility enabling community members and businesses to receive construction updates and project traffic alerts straight to their inbox or mobile phone. You can elect to receive information for all project precincts or just the suburb you live in.

To register simply visit website www.brisconnections.com.au. You can ‘opt out’ and request to be removed from the database at any time.





TUNNELLING UNDERWAY

Truro Street site tunnelling

The first roadheaders to excavate the Airport Link and Northern Busway (Windsor to Kedron) tunnels are now in operation as 24 hour tunnelling is underway at the Truro Street and Bowen Hills sites.

The project's first roadheader was named 'Spiky' by Year 4 Windsor State School student Isabella Morrison, who won the Truro Street roadheader naming competition held with local schools Windsor Primary and Holy Rosary.

'Spiky' the 15-metre long roadheader is one of five that will operate from the Truro Street area – the project's mid-point tunnelling site. These roadheaders will excavate two mainline tunnels (northbound and southbound) for Airport Link, along with tunnel ramps.

Travelling up to 35 metres underground at the deepest point of the Truro Street area, the first roadheader is heading south towards Bowen Hills and has now progressed more than 160 metres. Moving at three to six metres each day, the roadheader is primarily excavating Neranleigh Fernvale rock, a rock unique to the Brisbane area.

At the Bowen Hills precinct, students from the Royal Children's Hospital School

played an important role in the start to tunnelling by naming the project's second and third roadheader machines 'Stacey' and 'Tracey'. Both are heading north towards Windsor excavating the northbound and southbound tunnels, and a third roadheader is scheduled to commence at Bowen Hills in August 2009, to excavate the Airport Link off-ramp at Lutwyche Road.

Noise walls and acoustic sheds will be in place at both the Truro Street and Bowen Hills construction sites to reduce noise and dust impacts.

At the Kedron Brook Building site adjacent to Gympie Road, excavation of a 23 metre shaft is near completion in preparation for roadheader tunnelling commencing late June 2009. The roadheader will tunnel east



Isabella Morrison is congratulated by Thiess John Holland's Andrew Large in front of 'Spiky'

toward Toombul to construct the Airport Link tunnel ramp that will ultimately enable motorists from Stafford and Gympie Roads to travel towards Toombul and the airport or south to the city.

Construction of Australia's largest road infrastructure project will involve a combination of roadheader, tunnel boring machine and 'cut and cover' tunnelling techniques; each excavation method chosen for its efficiency and suitability to the local geology.

Roadheaders have been used for many infrastructure projects throughout Australia, including Brisbane's Boggo Road Busway and Clem 7; and are ideal for excavating a variety of tunnel shapes and sizes.



Acoustic shed covers the tunnel portal at Federation Street site, Bowen Hills



DID YOU KNOW?

More than 300 native animals including lizards, possums and frogs have been captured and safely relocated to new homes during demolition and house relocation works for the Airport Link and Northern Busway (Windsor to Kedron).

This is one of the important roles of wildlife 'spotters' who work with the project's Environment team to protect the existing environment by relocating reptile, bird and mammal species impacted by construction.

TUNNELLING – WHAT TO EXPECT

Will I hear noise from tunnelling?

Tunnelling activities will at times, under particular conditions, generate some regenerated noise. Regenerated noise occurs when vibration from tunnelling activities travels through the ground, into the foundation of the building and vibrates the flat surfaces, creating an audible noise. The target goal for regenerated noise during tunnelling work is 45 decibels, which is similar to the noise generated from a quiet office.

Will I feel any vibration?

Vibrations are commonly experienced during construction. However the levels vary according to the depth of tunnelling and the surrounding environment. As a standard measure, the project will continue to conduct condition surveys, where required, on directly affected properties along the project alignment.

Will noise and vibration be monitored?

Extensive noise and vibration modelling has been conducted along the tunnel alignment to predict likely noise and vibration impacts. During tunnelling, noise and vibration monitoring will be undertaken to ensure noise and vibration is in line with anticipated levels. These results will be published on the project website www.brisconnections.com.au each month.

Tunnel timeline

Mar 2009	Roadheader tunnelling commences at Truro St site, Windsor
Apr 2009	Roadheader tunnelling commences at Federation St site, Bowen Hills
Mid 2009	Tunnelling commences at Kedron
Dec 2009	First Tunnel Boring Machines (TBM) arrives from Germany for assembly
Mar 2010	Completion of cut and cover structure and TBM launch box, Kalinga Park/Toombul
May 2010	First TBM begins tunnelling from Toombul and heads west toward Lutwyche; second TBM arrives from Germany
June 2010	Second TBM begins tunnelling from Toombul, heading west toward Lutwyche
Early 2011	TBM's removed from tunnel shaft at Chalk St, Lutwyche
Mid 2012	Airport Link toll road complete
Mid 2012	Northern Busway (Windsor to Kedron) complete



WORKING WITH LOCAL SCHOOLS

The Truro Street construction site at Windsor received a welcomed lift thanks to students from Windsor State and Holy Rosary Primary Schools. The students lent their artistic skills to paint mural art now featured on the site's hoardings. Students from years one to six participated, with some classes linking the activity to broader classroom themes such as 'community' and 'transport'. The impressive artwork brings

an appealing finish to the construction site fencing. The Airport Link team also visited prep students at Kedron Primary School in May. The children, who had been building their own tunnels in the sandpit, learnt about big machines and eagerly received some tunnel building tips! We look forward to continued partnerships with schools situated along the project alignment.

LUTWYCHE ROAD DIVERSIONS

To keep traffic moving during construction of Airport Link, Northern Busway (Windsor to Kedron) and Airport Roundabout Upgrade, traffic management is integral.

Temporary changes to the road network are necessary throughout construction, including diversions, detours, road and pathway realignments, pavement markings and temporary lane, road and pathway closures.

Changes to the **Lutwyche and Gympie Road** corridor are outlined in the map opposite. Reduced speeds, temporary fencing and safety barriers will also be in place to separate traffic and the construction work site.

Bradshaw Street, east of Lutwyche Road, is now closed permanently to traffic for construction and operation of the new Lutwyche Busway Station.



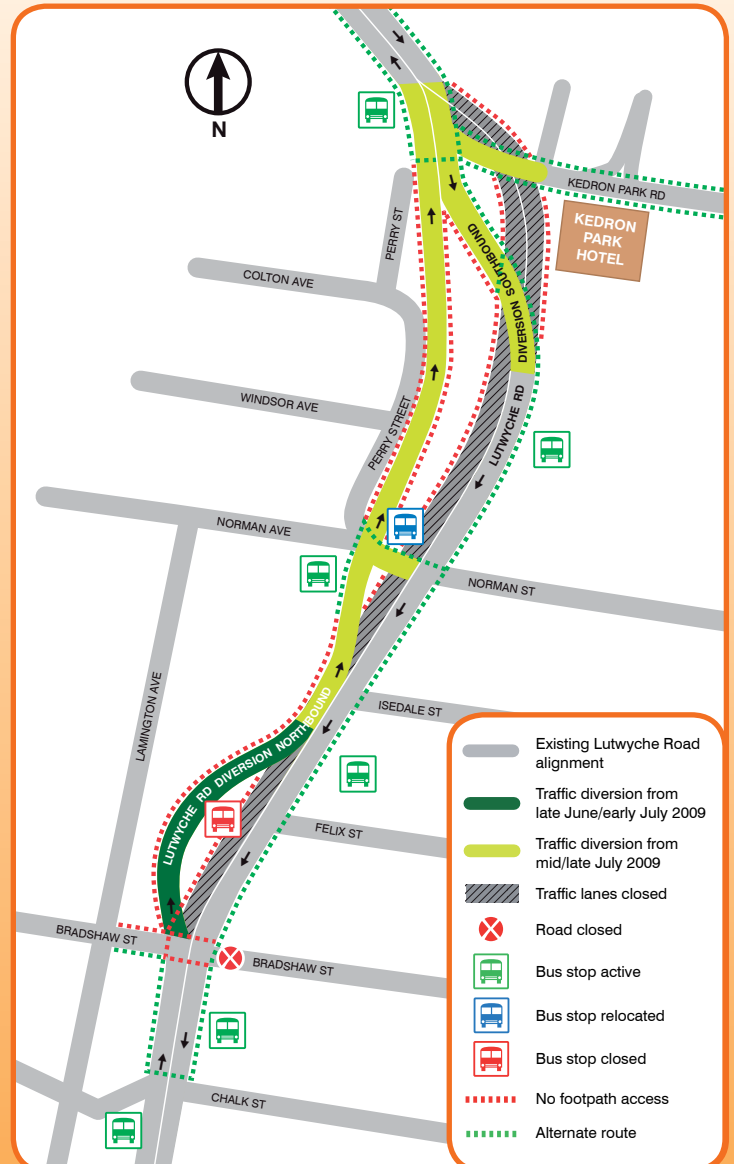
Pedestrian access on Lutwyche Road is via the eastern footpath accessible at the Chalk Street, Norman Avenue and Kedron Park Road signalised crossings.



Bus stop 22 – *Norman St* (northbound) will be relocated 30 metres south of the Norman Avenue / Norman Street signalised intersection. To coincide with the relocation of **Bus stop 22** – *Norman St*, **Bus stop 21** – *Felix St* has closed. Services will be available from **Bus Stop 22** – *Norman St*.

Signage and traffic management will be in place to direct motorists, pedestrians and cyclists.

Changes to the traffic network will be ongoing throughout construction. You will be advised of scheduled changes with community notices, newspaper and radio advertising, signs and electronic message boards.



Sign up for SMS updates about changed traffic conditions on arterial roads via the project website www.brisconnections.com.au.

Please drive safely during these important works.

SPOIL TRANSPORTATION



Throughout construction of the Airport Link, Northern Busway (Windsor to Kedron) and Airport Roundabout Upgrade Projects excess soil and rock, known as spoil, will be generated. The majority of the spoil will be removed by spoil haulage vehicles.

In accordance with the Coordinator-General's spoil management and transport conditions, spoil haulage trucks will operate 24 hours, six days per week between 6.30am Mondays and 6.30pm Saturdays. Residents will be advised prior to the commencement of 24 hour spoil haulage operations.

The most direct route to arterial roads from each construction site will involve use of some local roads.

When Tunnel Boring Machine operations commence in early 2010 at the Toombul construction site, a conveyor system will be used to transport spoil removed, a method that will greatly reduce the number of truck movements on local roads.

AREA UPDATES

Bowen Hills

The projects have moved into an exciting new phase with the **commencement of work on bridge structures** that will ultimately link the Airport Link tunnels with Bowen Bridge Road, Lutwyche Road, the Inner City Bypass and Clem 7 tunnel.

Site establishment is complete on the western side of Lutwyche Road between Enoggera Creek and Northey Street, and Lutwyche Road and Victoria Street at Windsor. Construction of the road and busway bridges that crossing Breakfast Creek and Lutwyche Road is now underway in this area; the busway bridge will connect with the existing Northern Busway (stage one) bridge at the Royal Brisbane Hospital.

24 hour tunnelling commenced in May in the north bound tunnel, with roadheaders moving towards Lutwyche and progressing three to six metres each day, depending on ground conditions. Residents and businesses will receive advance notification of tunnelling works in their area and the Community Relations team is always on hand to respond to any enquiries.

Windsor/Lutwyche

24-hour tunnelling operations commenced at the Truro Street work site during May. More than 160 metres has now been excavated by roadheader from this site, with the machine now tunnelling beneath Lutwyche Road.

Service relocations are continuing in the area from Kedron through to Lutwyche, with lane closures and night work required on Lutwyche Road for the installation of new electricity cables.

The Northern Busway site office has been established on the corner of Lamington Avenue and Bradshaw Street. Works are progressing on the **northbound Lutwyche Road diversion**, with opening of the new road scheduled for late June 2009. Once northbound traffic has been diverted, the project team will be able to commence construction for the bridge structure over the new Lutwyche Busway Station.

Kedron

Excavation and piling works are ongoing at the Perry Street, Kedron Brook Building, Kedron Brook and Gympie Road sites for the commencement of cut and cover construction for the Airport Link and Northern Busway tunnels.

Piling and excavation works will soon commence at the corner of Lutwyche Road and Kedron Park Road near the Kedron Park Hotel. **Excavation of a shaft, 25m at the deepest point**, is required for the launch of a roadheader in late 2010 to construct the Stafford Road/Gympie Road off-ramp for Airport Link.

Demolition works and the installation of site offices are now complete at the Stafford Road site enabling construction to commence on the Airport Link tunnel entry for Stafford Road.

Toombul

In Toombul, work continues on the Tunnel Boring Machine (TBM) launch box, which will take approximately six months to complete. The box will provide the tunnel access to support TBM tunnelling operations due to commence in early 2010.

Work for the widening of Sandgate Road is in progress, which will ultimately allow access to and from the Airport Link tunnel and connectivity to the East-West Arterial Road on completion of the project. To support this work, a site has been established in Ross Park adjacent to Sandgate Road.

Piling work continues on both sides of the North Coast Railway Line for construction of the tunnel underpass that will enable motorists to travel under the rail line and into the Airport Link tunnel.

Site preparation and earthworks are ongoing for the 'cut and cover' tunnels and underground ventilation station to be constructed on the western side of Sandgate Road.

Preparation work is ongoing for the widening of the northern side of East-West Arterial Road. This widening work is required to provide room for the tunnel entry and exit lanes in the middle of the road.



WHAT IS PILING?

Piling is a ground stabilising activity undertaken when building a structure. On the Airport Link project two different piling techniques are being used. **Bored piling** involves drilling holes into the ground and back filling the holes with concrete. **Sheet piling** is when metal sheets are driven into the ground. Both piling techniques set a deep foundation and provide support during the excavation of materials.

keep in touch

For more information contact us:

24 Hour Community Hotline
1800 721 783

Email: contactus@tjh.com.au

Web: www.brisconnections.com.au

Mail: PO Box 3548, South Brisbane BC QLD 4101

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