

**APPENDIX B** 

# **DRG** Minutes



## **NORTHLINK WA**

#### **DRAINAGE REFERENCE GROUP MEETING #1**

Venue: Old Midland Courthouse, Helena Street, Midland

9:00am, Wednesday 9th July 2014

## **MEETING MINUTES**

#### 1. WELCOME, MEETING PURPOSE AND PROCESS

Linton Pike, NorthLink WA, welcomed participants to the Drainage Reference Group Meeting and outlined the process. The purpose of the meeting is to:

- Establish the Drainage Reference Group (DRG) for the NorthLink WA projects;
- Provide an overview of the projects;
- Discuss and agree the DRG's Terms of Reference;
- Identify and agree an approach to addressing key drainage goals, opportunities and issues; and
- Build project understanding and support to pave the way for successful and timely project outcomes.

The meeting Agenda is provided at Attachment One. A list of meeting participants and apologies is provided at Attachment Two.

#### 2. PERSONAL INTRODUCTIONS

Each meeting participant provided a brief personal introduction.

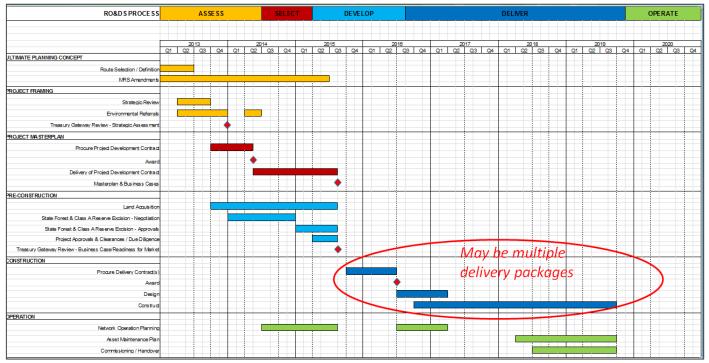
#### 3. PROJECT OVERVIEW AND CONTEXT

Dominic Boyle, Main Roads WA, provided a project overview and context noting the following key points:

## NorthLink WA comprises the following funded projects:

- PDNH (Tonkin to Muchea) \$845M
- Tonkin Grade Separations (Collier Rd to Reid Hwy) \$281M





#### **Overall Program**

## **Project Objectives**

- Improve freight capacity, efficiency and productivity;
- Reduce urban congestion now and into the future;
- Improve road safety through the "Towards Zero" initiative;
- Maximise sustainability through economic, social and environmental responsibility;
- Improve the amenity for the community, tourists and road users; and
- Create value through affordable infrastructure.

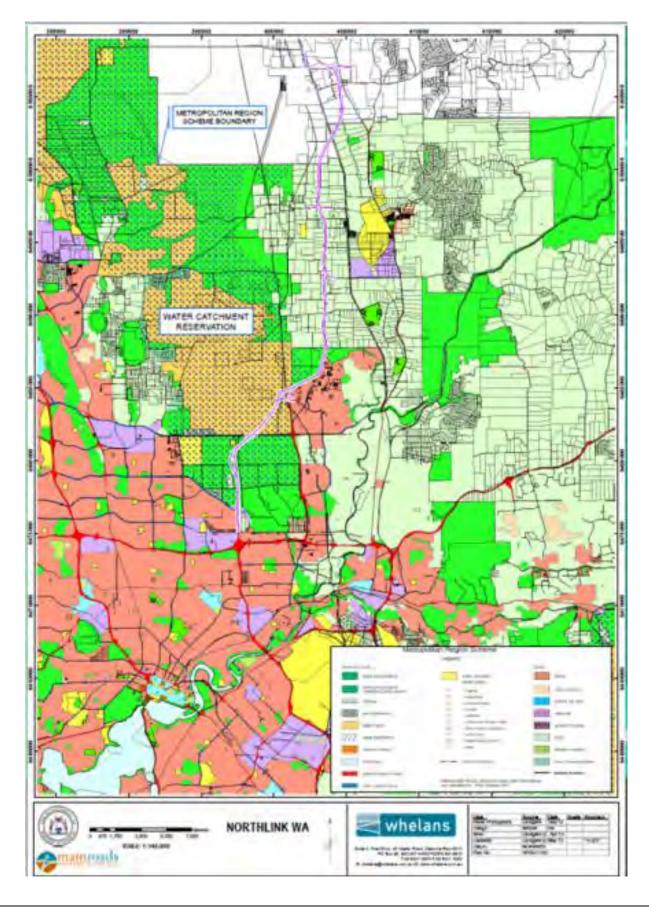
# Overview of Projects

#### **PDNH (Tonkin to Muchea)**

- 37 km new link connecting Tonkin Hwy to Brand Hwy and GNH;
- Green fields freeway construction through State owned land:
  - Class A Reserve
  - Gnangara water mound;
- Highway construction through privately owned farmland; and
- Extends beyond Metropolitan boundary.

#### **Tonkin Grade Separations**

- Grade separation of 3 intersections on Tonkin Highway so that Tonkin becomes free-flow from Reid Hwy to Roe Highway; and
- Brown fields urban environment.



## **Assumed Scope - PDNH (Tonkin to Muchea)**

Scope assumed for funding application:

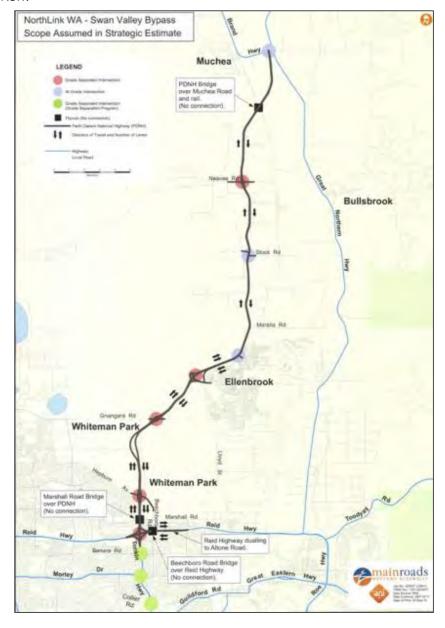
- Dual carriageway south of Ellenbrook;
- Single carriageway north of Ellenbrook; and
- Interchanges at Reid, Hepburn, Gnangara, Ellenbrook, Neaves.

Budgeted Funds: \$845M

*Project Development:* refine Ultimate Planning Design Concept, explore staging options that offer greatest benefits and define first stage build projects.

#### Consider:

- Future land use planning and development / access; and
- Future EWNSR?



## **Assumed Scope – Tonkin Grade Separations**

## Scope assumed for funding application:

- Based on simple grade separations (diamond) at Collier Rd and Morley Dr.
- Flyover at Benara
- Retaining current 4 lane configuration

## **Budgeted funds:**

• \$281m – delivery funds 2016 to 2018

## **Opportunity:**

To upgrade this section of Tonkin Highway to full freeway standard.

Traffic analysis indicates that 6 lanes will be required once Swan Valley Section is connected!



## **Key Opportunities**

Opportunity	Potential Benefit
Optimise project scope	
<ul> <li>Network connectivity options</li> <li>Cross section options / Lane configuration</li> <li>Interchange configuration options</li> <li>Intersection options</li> <li>Muchea tie – in options</li> </ul>	Provide best solution and maximise return on investment
Heavy Vehicle Operations	
<ul> <li>new RTAA</li> <li>HWL route</li> <li>triple road trains into project area</li> </ul>	Freight efficiency
Service Centre	Travel wellbeing, Concession Opportunity
Construction Materials	Cost savings, sustainability, better
early identification of sourcing opportunities	environmental or community outcome
Project Packaging	Economies of scale, procurement cost savings or spread the works across industry
related projects	or spread the works deross industry
<ul> <li>Environmental offsets</li> <li>Early identification</li> <li>Rehabilitation of redundant land</li> <li>Water management</li> </ul>	Facilitate environmental approvals / reduce risk of delay

#### **Key Risks**

**State Forest / Whiteman Park** - Excision requires Parliamentary Approval

**HF Radio Communication Facility Relocations** - Air Services Australia & ACMA Installations west of Bullsbrook

**Gnangara Underground Water Source Protection Area** – Department of Water agreement to Project and Mitigation Requirements

Acquisition of Commonwealth (Defence) Land near RAAF Pearce

#### **Freight Movements**

- Project may not realise expected benefits (e.g. High Wide Loads and some permit vehicles remain on Great Northern Highway)
- Residents adjacent to Tonkin Highway object to Freight Route

Whiteman Park – Access issues still to be resolved to satisfaction of Friends of Whiteman Park / Park users

**Environmental Approvals** - Objections to Project may cause delay

## **Land Acquisition - Swan Valley Bypass**

Section	Ownership
Reid to Hepburn	Predominantly State
Hepburn to Maralla	State Forest / Class A Reserve
Maralla to MRS	Private (rural) Defence
Chittering	Private (rural)

<sup>\*</sup> Delay purchase north of MRS boundary until 2014/15

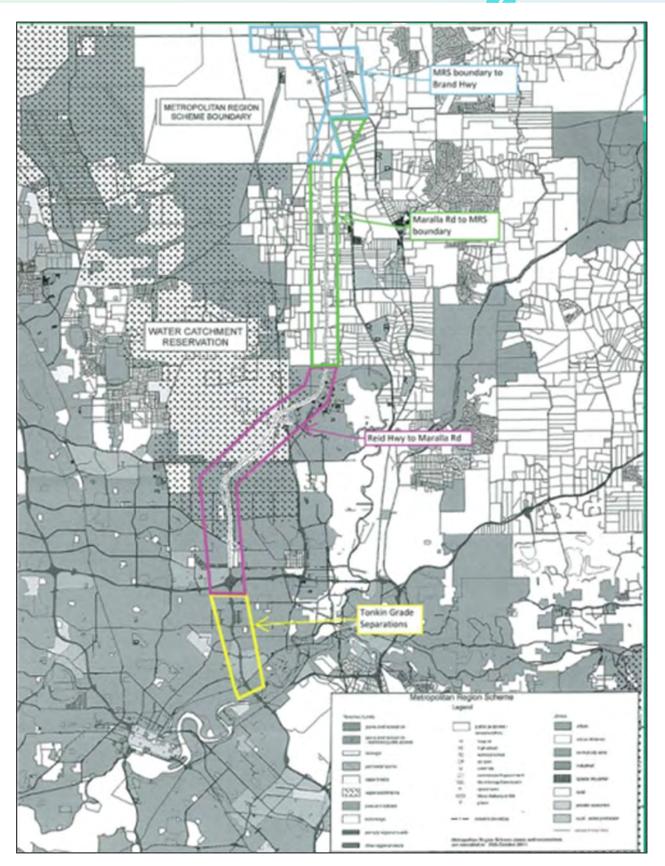
## **Tonkin Grade Separations**

3 whole takes, 1 part take.

## **Offset Sites**

- Purchased property in Chittering; and
- Further offsets required.

Land acquisition commenced April 2014.



The project land requirements are shown above