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HYDRAULIC SERVICES  
UTILITY SERVICES REPORT  
MUSWELLBROOK HOSPITAL  
REDEVELOPMENT STAGE 3 – COMMUNITY  
HEALTH RELOCATION

9<sup>TH</sup> February 2024

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## 1 INTRODUCTION

WSCE have been engaged by Health Infrastructure NSW (HINSW) to prepare a Utility Services Report for the proposed Review of environmental Factors (REF) application at the Muswellbrook Hospital Stage 3 Redevelopment – Community Health Relocation relating to the hydraulic services.

The Muswellbrook Hospital site (“the site”) is located at Brentwood Street, Muswellbrook NSW 2333 and is shown in **Figure 1** (approximate site location identified in red) below. The site is encompassed by Brentwood Street to the south (main entrance), Brecht Street to the east (secondary access), Bowman Street to the north (secondary access) and Doyle Street to the west.



**Figure 1:** Aerial view of property boundary (Source: Google Maps)

The proposed redevelopment works will include (subject to this Review of Environmental Factors):

- Fit out of the Lower Ground Floor shell space retained from the Stage 2 Redevelopment for the relocation of community health consult/clinical spaces; and
- Associated works broadly comprising of civil engineering works, external footpath for fire egress purposes and plant reconfiguration within existing plant enclosures.

## 2 DEMOLITION

There is no proposed demolition works that are required for the proposed scope of works that this report pertains to.

## 3 HYDRAULIC SERVICES DEMAND CALCULATIONS

### 3.1 WATER DEMAND CALCULATIONS

There will be no additional water demand that is required for the proposed scope of works that this report pertains to, noting a like for like replacement of systems.

### 3.2 SEWER DRAINAGE DISCHARGE CALCULATIONS

There will be no additional sewer discharge that is required for the proposed scope of works that this report pertains to, noting a like for like replacement of systems.

### 3.3 LIQUEFIED PETROLEUM GAS DEMAND CALCULATIONS

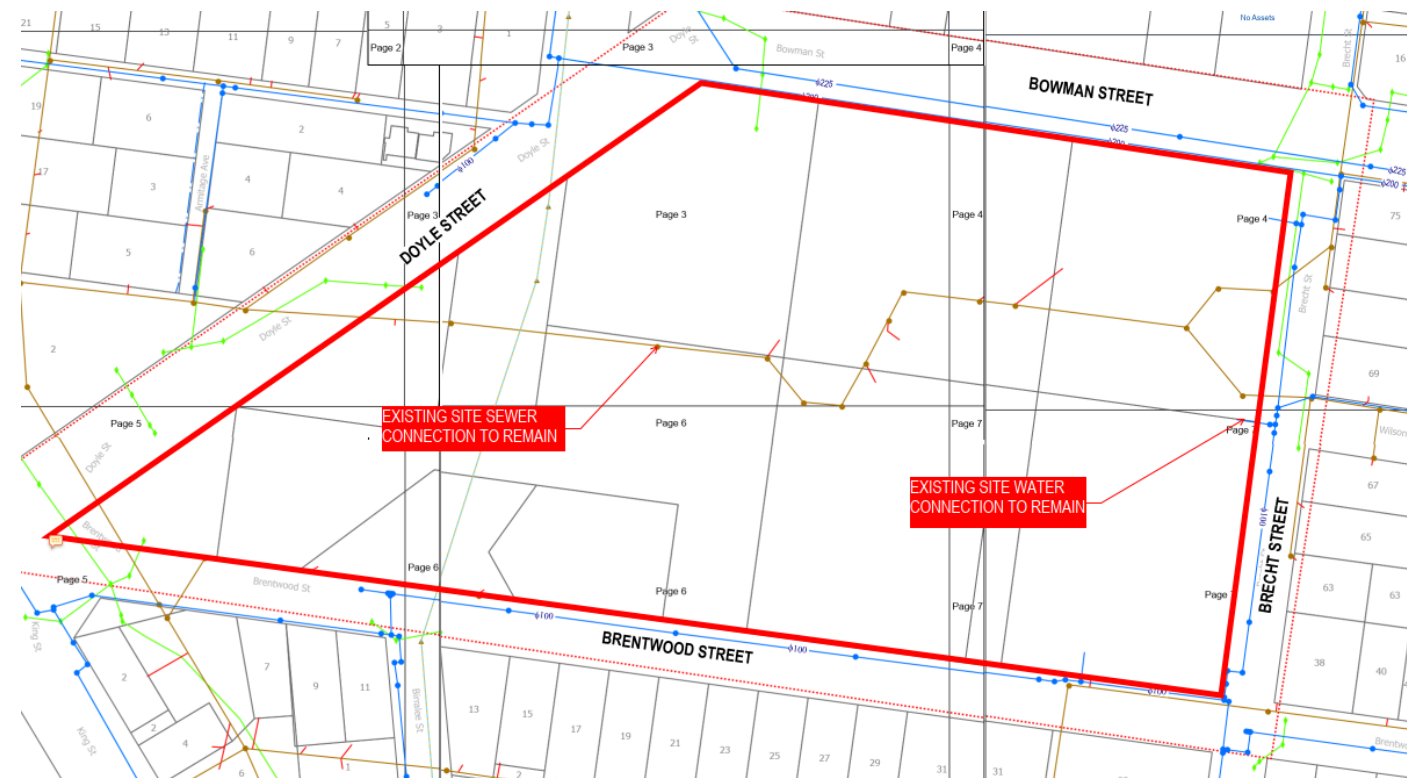
There will be no additional liquefied petroleum gas (LPG) demand that is required for the proposed scope of works that this report pertains to, noting a like for like replacement of systems.

## 4 HYDRAULIC SERVICES CONNECTIONS

### 4.1 WATER & SEWER

The existing water supply and sewer discharge connections will be retained for the proposed scope of works.

These existing connection locations have been illustrated in **Figure 2** below.



**Figure 2:** Existing water and sewer connections

Through consultation with the council, it was confirmed that there was no impact to their water and sewer utility mains, noting no additional loading as identified within this report.

### 4.2 LIQUIFIED PETROLEUM GAS

LPG is supplied to site via on-site storage tanks which are regularly refilled by Origin Energy. The proposed scope of works does not impact this existing arrangement.