

28 October 2015

Tony Randle
fyi-request-3212-c0aded5@requests.fyi.org.nz

Dear Tony

Request made under the Official Information Act 1982

Thank you for your two emails of 12 October 2015 requesting the following information under the Official Information Act 1982:

- 'the geographic location and height above sea level for the eastern SH1 road entrance to the Arras Tunnel
- the geographic location and height above sea level for the western SH1 road entrance to the Arras Tunnel
- the height or vertical clearance of the Arras Tunnel at the Eastern SH1 Road Entrance
- the height or vertical clearance of the Arras Tunnel at the Western SH1 Road Entrance'.

In response to your first two questions, the coordinate system used is Wellington Circuit 2000, Origin Mt. Cook 800,000mN 400,000mE, Level Datum: LINZ (MSL) Wellington Vertical Datum 1953. The geographic location and height above sea level for the Arras Tunnel is as follows:

	NE Corner	SE Corner	NW Corner	SW Corner
x	400170.676	400166.413	400046.213	400049.027
y	800274.615	800263.943	800327.211	800313.659
Z (height above mean sea level)	11.767	11.540	14.388	13.841

With regards to your questions about the height of the Arras Tunnel, I can advise that the approximate height of the underpass (road surface to tunnel roof) is 5.95 metres at both ends. Please note that the 600 millimetre cable trays are present within this distance, which means the effective height is 5.35 metres.

Yours sincerely



Neil Walker
Highway Manager, Wellington
For Chief Executive