

25 October 2021



Gazcorp Pty Ltd  
10/60 Park St  
Sydney NSW 2000

info@asongroup.com.au  
+61 2 9083 6601  
Suite 17.02, Level 17,  
1 Castlereagh Street,  
Sydney, NSW 2000  
ABN: 81 168 423 872

Attn: Michael de Silva, Property Development Manager

## RE: SSD 5248 MOD-1 – 813-913 Wallgrove Road, Horsley Park – Request for Additional Information

Dear Michael,

Ason Group has been engaged by Gazcorp Pty Ltd to prepare a Technical Note (TN) to address the transport-related comments raised by the Department of Planning, Industry and Environment (DPIE) in the letter dated 14.09.2021 in response to the proposed modification (MOD 1) to the approved State Significant Development (SSD-5248).

Comment 3 which relates to construction traffic impact is reproduced below with our response following. Comments 1, 2, and 4 (which relate to construction programme, air quality, and flooding impact) will be addressed by others.

---

### Construction Traffic Impact

*3. Section 7.2.1 of the Traffic Impact Assessment prepared by Ason Group dated 30 March 2021 states that the proposed modified Stage 1 development construction traffic would be up to 20 vehicles per hour in the AM peak and 10 vehicles per hour in the PM peak. Please provide an assessment of the potential impacts of construction traffic on the surrounding road network, including a breakdown of vehicle types (light v heavy) and including a daily maximum, with consideration of access arrangements prior to the new site access being constructed. The assessment should reference the construction traffic for the approved development which the Department understands was up to 27 daily light vehicles and 30 daily heavy vehicles **per day**.*

---

Ason Group have now been provided with the detailed and updated traffic volumes for the import bulk earthworks construction traffic volumes for the entire master plan by Orion Consulting. The detailed breakdown is provided in **Attachment 1**.

Reference has also been made to the Traffic Impact Assessment (TIA) prepared by GHD dated 23 August 2013 (813-913 Wallgrove Road Traffic Impact Assessment) which formed part of the documentation for the approved SSD-5248 (approved GHD report).

### Approved Construction Traffic Generation Thresholds

#### Light Vehicles

The approved GHD report, in section 4.9.3, outlines an expected construction light vehicle traffic generation of 27 daily two-way trips during the peak periods, equating to 27 vehicles per hour during the peak periods. This is understood to be 27 inbound **vehicle movements** during the morning peak and 27 outbound **vehicle movements** during the evening peak, so a total of 54 daily construction light **vehicle movements**.

Accordingly:

- *Total approved daily light vehicle threshold for construction program = 54 veh/day*

### **Heavy Vehicles**

The approved GHD report also suggests that delivery of constructions materials to site, would require a maximum of 30 trucks per day which equates to a sum of 60 truck movements (inbound and outbound) per day. Accordingly:

- *Total approved daily heavy vehicle threshold for construction program = 60 veh/day*

### **Total Vehicles**

Having regard for the above the combined light and heavy vehicle approved construction traffic generation is estimated to be 114veh/day.

## **Proposed Construction Traffic Generation (bulk earthwork for the entire master plan)**

### **Light Vehicles**

The information provided by Orion Consulting outlines a construction light vehicle traffic generation of 15 inbound light vehicle movements during the morning peak and 15 outbound light vehicle movements during the evening peak. An additional 10 light vehicle movements are expected between 12pm-2pm, outside the road network peak periods which is assumed for ancillary in and out movement for conservativeness. Accordingly, this equates to a sum of 40 daily construction light vehicle movements, which is less than that specified in the approved GHD report with a contingency of 14 daily light vehicle trips.

### **Heavy Vehicles**

The information provided by Orion Consulting also specifies a heavy vehicle traffic generation of 3 trucks per hour between 7am-5pm. This equates to a daily construction heavy vehicle traffic generation of 30 trucks (i.e. 60 heavy vehicle movements) which is consistent with the GHD report.

### **Total Vehicles**

In summary, the total proposed light and heavy vehicle traffic generation for the bulk earth work is estimated to be 100veh/day which is below the approved threshold by 14 vehicle trips.

## **Construction Haulage Route**

The proposed construction haulage route is consistent with that outlined in Section 4.9.1 of the approved GHD report. The proposed haulage route is via Wallgrove Road, an approved 25/26m B-double route, with the access route originating from the south and departing to the north. The interim site access will be located off Wallgrove Road and construction vehicles will require to enter and exit the site via left in and left out movements.

## Conclusion

In summary, the construction traffic volumes are expected to be lower (for light vehicles) and consistent (for heavy vehicles) with the approved GHD report. The construction haulage route is also consistent with that approved in the GHD report. Therefore, no additional impact upon the road network is expected as a result of the construction vehicle traffic from the proposed Modification in comparison to the approved SSD-5248.

Should you require any further information or clarification, please do not hesitate to contact the undersigned.

Yours sincerely,



**Eric Ye**

*Traffic Engineer*

**E** [eric.ye@asongroup.com.au](mailto:eric.ye@asongroup.com.au)

**M** 0466620261

## Attachment 1

|                         | 6am-7am | 7am-8am | 8am-9am | 9am-10am | 10am-11am | 11am-12pm | 12pm-1pm | 1pm-2pm | 2pm-3pm | 3pm-4pm | 4pm-5pm | 5pm-6pm | Total                                 |
|-------------------------|---------|---------|---------|----------|-----------|-----------|----------|---------|---------|---------|---------|---------|---------------------------------------|
| Light Vehicles Inbound  | 15      |         |         |          |           |           |          |         |         |         |         | 15      | 20 vehicles<br>(40 vehicle movements) |
| Light Vehicles Outbound |         |         |         |          |           |           | 5        | 5       |         |         |         |         |                                       |
| Heavy Vehicles Inbound  |         | 3       | 3       | 3        | 3         | 3         | 3        | 3       | 3       | 3       | 3       |         | 30 vehicles<br>(60 vehicle movements) |
| Heavy Vehicles Outbound |         | 3       | 3       | 3        | 3         | 3         | 3        | 3       | 3       | 3       | 3       |         |                                       |