

9th October 2023

Jimmy Zhang
 Central/ South Planning Unit,
 Plans and Places
 Auckland Council

Dear Jimmy,

Southwest WWTP Notice of Requirement – Designate 372 Glenbrook Beach Road, Glenbrook - Section 92 Response – Transport related queries

In response to your email dated 5 October 2023, please find enclosed Watercare Services Ltd's (WSL) written response to the Transport related queries.

Please see the response to the two questions below:

Question 7: As no drawings have been provided it is not possible to comment on the potential effects on the accesses on the south side of Glenbrook Beach Road.

As per our previous s92 response, the layout for the proposed access shown in the Transport Assessment is indicative.

The final form of the access to the site will be developed through the detailed design process and will not be able to be confirmed until Watercare has consulted Auckland Transport, and Auckland Transport is happy to approve the new vehicle crossing(s). The access arrangements will need to ensure that the access integrates with the other site development requirements such as landscaping to mitigate visual effects and stormwater management relating to the culverts under Glenbrook Beach Road and the pond located at the front of the site.

Also, it should be noted that addressing vehicle access for the site is a requirement under s176 of the RMA and part of the Outline Plan Process. Therefore, any changes to the road will need to be resolved as part of that process.

Question 9: Details of forecast queues should be provided. Summary SIDRA model outputs for Lane and Movements should be provided.

Table 1. Site access intersection without Right Turn Bay

Intersection without right-turn bay							
Intersection Leg	Lane (Movement)	Morning Peak Hour			Afternoon Peak Hour		
		Level of Service	Delay (s)	95 th Percentile Queue Length (m)	Level of Service	Delay (s)	95 th Percentile Queue Length (m)
Glenbrook Beach Road (East)	Lane 1 (Through & Right)	A	2.8	6.0	A	0.2	1.2

Intersection without right-turn bay							
Intersection Leg	Lane (Movement)	Morning Peak Hour			Afternoon Peak Hour		
		Level of Service	Delay (s)	95 th Percentile Queue Length (m)	Level of Service	Delay (s)	95 th Percentile Queue Length (m)
Site Access	Lane 1 (Left & Right)	B	14.5	0.5	B	10.7	1.8
Glenbrook Beach Road (West)	Lane 1 (Through & Left)	A	0.1	0.0	A	0.1	0.0
Intersection		-	1.1	6.0	-	0.6	1.8

Table 2 Site access intersection with Right Turn Bay

Intersection with right-turn bay							
Intersection Leg	Lane (Movement)	Morning Peak Hour			Afternoon Peak Hour		
		Level of Service	Delay (s)	95 th Percentile Queue Length (m)	Level of Service	Delay (s)	95 th Percentile Queue Length (m)
Glenbrook Beach Road (East)	Lane 1 (Through)	A	0.0	0.0	A	0.1	0.0
	Lane 2 (Right Turn Bay)	B	10.0	0.3	A	9.3	0.3
Site Access	Lane 1 (Left & Right)	C	15.2	0.1	B	10.8	1.9
Glenbrook Beach Road (West)	Lane 1 (Through & Left)	A	0.1	0.0	A	0.1	0.0
Intersection		-	0.7	1.9	-	0.6	1.9

As per the discussion in the Traffic Assessment Report (dated 31 August 2023) and S92 letter (dated 4 October 2023), the length of queuing is modest – at 95th percentile level less than one vehicle (i.e. 95% of the time the queue should be equal to or less than this length), except for the Glenbrook Beach Road (East) leg in the “Without Right Turn Bay” where in the morning peak period the 95th percentile is forecast at 6m i.e. equivalent to one vehicle.

The following information is provided as part of the response to Question 9:

- Appendix 1.2: SIDRA Site Layout – Access with Right Turn Bay
- Appendix 2.2: SIDRA Site Layout – Access without Right Turn Bay

Additionally, WSL would welcome the opportunity to discuss the matters contained within the response with the relevant technical advisors', at the Council's earliest convenience.

Should you have any further queries, please do not hesitate to contact me.

Yours Sincerely,

A handwritten signature in black ink, appearing to read 'Anshita Jerath', written in a cursive style.

Anshita Jerath
Senior Resource Consent Planner
Watercare Services Limited