



Memorandum

To: Peter Garceau
Cross Consulting Engineer, P.C.

Date: May 4, 2023

Project #: 58587.00

From: Jennifer Conley, PE, PTOE

Re: Hillview Heights Development

VHB has reviewed the comments received from the Town of Richmond outlining the additional information required for the May 10th DRB meeting. Item 2, Update the Traffic Study to reflect current traffic patterns and show percent change over time, is a traffic related request and addressed below:

Traffic Volumes from Initial Traffic Study

The available traffic volume data was collected by a turning movement count on May 2021 at the southern intersection of Hillview Road and Huntington Road. The evening traffic was counted between 4 PM and 6 PM and the peak occurred from 5 PM to 6 PM on Thursday, May 7th. The morning traffic was counted between 7 AM and 9 AM on Friday, May 8th with the peak occurring from 7 AM to 8 AM.

Table 1: 2021 Traffic Volumes at Huntington and Hillview

	NBT	NBL	SBT	SBR	EBL	EBR	TOTAL
AM PEAK HOUR	176	1	39	1	3	6	226
PM PEAK HOUR	96	3	147	1	4	8	259

Recent Count Data

VHB reviewed available count data taken since 2021 in the area. VTrans provides traffic count data on Huntington Road to the north of the subject intersection and indicates that traffic has grown at a rate of 0.8% per year. This corresponds to an increase in four vehicles during each of the peak hours between 2021 and 2023.

Proposed Development

The proposed development program now includes creation of seven lots rather than nine lots. ITE land use code (LUC) 210 (Single Family Detached Housing) was used to estimate the trips generated by the seven new single-family detached houses. As shown below, the peak hour volumes are lower by one vehicle than was previously analyzed in 2021 during each of the peak hours. The project related traffic continues to contribute less than a three percent increase at the intersection of Hillview Avenue and Huntington Road.

Table 2: Trip Generation Summary – 7 single family homes

WEEKDAY AM PEAK HOUR	Enter	1
	<u>Exit</u>	<u>4</u>
	Total	6
WEEKDAY PM PEAK HOUR	Enter	4
	<u>Exit</u>	<u>3</u>
	Total	7

Conclusions

As reported in the initial traffic analysis, in conclusion, the proposed Hillview Heights Development project is not anticipated to generate unreasonable congestion or unsafe conditions on the adjacent roadway network.