

## Attachment 1

### BC Christian Academy - Traffic Management Analysis

#### *Volume and Speed*

In order to measure the level of impact of neighbourhood infiltration, traffic speeds and counts were completed on Evergreen St (south of Lincoln Ave) and Chestnut St. The average speed and volume data is summarized in the table below:

Evergreen - Lincoln to Spruce	
85% Speed	40 km/hr
Daily Volume	249 veh/day

Chestnut - Spruce to Sitka	
85% Speed	36 km/hr
Daily Volume	309 veh/day

Both Evergreen St and Chestnut St are local roads with a design speed limit of 50 km/hr and volume capacity of 1,000 vehicles per day. The data collected indicates both roads are functioning within designed capacity and speed thresholds and infiltration which is occurring as a result of school operations does not appear to be impacting the roadway capacity or safety performance. Considering BC Christian Academy is only accessible by the local road network, it is not possible to redirect this traffic to a collector or arterial road, therefore, traffic calming measures will not be effective to redirect volume and not warranted for speeding.

#### *Drop-off/Pick-up*

In regards to drop-off/pick-up concerns, the City has been advised that there is general congestion during peak school hours on Fernwood Ave. Fernwood Ave is a local road of approximately 8.5 m in width and 50m in length. There are school driveways on each end of Fernwood on the north side, and 3 single family homes on the south side of the road.

The north side of Fernwood is signed as a drop-off zone during school hours 8am to 9am & 2pm to 4pm (approximately 5 cars). On street parking is permitted on the south side of Fernwood (approximately 4 cars). There is also a "No Stopping" restriction applied to the corners of Fernwood to preserve sightlines.

# Traffic Management Review - BC Christian Academy & École Irvine Elementary School

Additionally, BC Christian Academy has restricted school site access to kindergarten and its Kids Club Childcare parents only. The consequence of this restriction is a limited drop-off zone on Fernwood Ave (40m or 6 vehicles) for all remaining school drop off. Given the limited supply of drop-off spaces on the north side of Fernwood significant queuing occurs and the permitted parking zone on the south side of Fernwood has become a drop-off zone by virtue of its unrestricted parking nature. This effectively loads Fernwood with intermittent stopped cars on both sides of the road with two-way traffic demands, however, unimpeded two-way traffic cannot be maintained given that Fernwood Ave is limited to 8.5m wide. This leads to congestion on Fernwood Ave during pick-up and drop-off times.

## ***Current Traffic Management Initiatives***

The staff from BC Christian Academy have taken the following measures to address traffic safety concerns:

- Staff allocate traffic monitors to assist in traffic flow in the Drop-off/Pick-up Zone
- Staff issue tickets to vehicles in the Drop-off/Pick-up Zone parked too long or left unattended requiring the driver to attend the office to discuss the violation
- Staff have established a 15-minute window for drop-off/pick-up (8:15am to 8:30am); if anyone drops off after that time, they are considered late and are required to attend the office to provide an explanation
- Staff have implemented a crossing guard program for the marked crosswalk on Lincoln at Oakdale
- The School regularly sends out traffic information in their school newsletters
- School staff participate with City Bylaw Enforcement Officers to encourage voluntary compliance from parents and welcome increased enforcement
- Staff encourage a “kiss and go” drop-off procedure