



2 km

5.5 km

190 days

776 AADT

28 %

0%

0%

329.1

1%

8 RCR

Calculating Schedule C Benefits

19th. Avenue (West) Bridge (B20)

Definitions

input field calculated field (no data entry required) AADT = Average Annual Daily Traffic RCR = Ride Comfort Rating MJ = mega joules

Assumptions

- that a road closure will occur for the duration of the project

- that new technologies will be used to reduce the number of days a road closure is required

Details

length of road closed to traffic length of detour route for bridge closure estimated # of days road closed to traffic (conventional construction)

current traffic volume (actual or estimated) % light trucks (pickup) % trucks (heavy truck) % trucks (tractor/trailer) % trucks (B trains)

pavement smoothness (of road section to be closed)

Current CO₂ Emissions (before road closed to traffic)

Total Current Emissions

NOTE: Based on Natural Resources Canada - 2.36Kg/L CO₂ Gasoline, 2.73kg/L CO₂ Diesel and Transport Canada - Company Average Fuel Consumption 2004





CO₂ Emissions (as a result of the road closure)

pavement smoothness (of detour route)8Total Emissions904.9Increased CO2 (as a result of road closure)575.9kg/dayincreased kg while

Benefits of Using New Technologies

using technologies that reduces the number of days a road closure is required reduces emissions

estimated # of days road closed to traffic (new technologies used for construction)

140days80,620.8increased kg while
detour in effect28,793.1total kg

109,413.9 detour in effect

Increased CO₂ (as a result of road closure)

Reduced CO_2 (a result of using of technologies that reduce the number of days a road closure is required)