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November 28, 2002

Mr. Mike Davis BC Transit 520 Gorge Road East P.O. Box 610 Victoria, B.C., V8W 2P3 ASSOLATES

ISO 9001 Registered Quality Assured

Dear Mr. Davis:

#### RE: Highway 1 McKenzie/Tillicum Transit Queue Jump Reassessment

The following report was prepared in response to your request for a reassessment of the transit queue jump operations implemented at Highway 1 and McKenzie/Admirals and Highway 1 and Tillicum.

#### 1.0 BACKGROUND

BC Transit had initiated the development of transit priority measures at the following two locations on the Trans Canada Highway:

- Trans-Canada & Admirals/McKenzie; and
- Trans Canada & Tillicum.

Measures developed included:

- · Optimized traffic signal timings; and
- Westbound and eastbound queue jump lanes with right turn lane extensions.

The Ministry of Transportation developed designs for the geometric modifications outlined and implemented the following geometric and operational changes:

- Westbound queue jumps and right lane extensions; and
- Traffic signal timing plan modifications at Highway 1 & Admirals and Highway 1 & Tillicum

#### 2.0 WORK PROGRAM

In order to determine to what extent the original project objectives were met and to verify the benefits of proceeding with the eastbound transit priority measures originally developed a post implementation assessment was initiated by BC Transit. The first phase of the post implementation assessment included:

Signal timing plan checks;

Our file: 7754

- Field assessment of intersection operations at Highway 1 & Tillicum and Highway 1 and McKenzie/Admirals;
- Identification of AM and PM peak hour intersection demand at the intersection of Highway 1 and Tillicum;
- Update Synchro files with updated traffic demand and control information;
- Documentation and presentation of results.

#### 3.0 OBSERVATIONS

Intersection operations were observed during the PM peak period (3:30 - 5:30 PM) on November 20, 2002 and in the AM peak period (7:00 - 8:30 AM) on November 21, 2002.

The field observations indicated that the west bound right turn extensions at both Highway 1 & McKenzie Admirals and Highway 1 & Tillicum were consistent with what was recommended.

Queue formations along Highway 1 at both intersections were generally twice as long as those observed in September 2000 n both AM and PM peak periods. Queuing at McKenzie and Tillicum approaches was much shorter in both AM and PM peak periods.

Tillicum and McKenzie approaches were observed to have significant unused green allocation while the Highway 1 approaches were severely queued.

The length of westbound queues extended beyond the reach of the extended westbound right turn lane extensions at both Highway 1 & Tillicum as well as at Highway 1 & McKenzie/Admirals during most of the PM peak period.

The bus only signal did not activate at Highway 1 and Tillicum in the PM peak on several occasions as bus departed from the westbound stop, entered the queue jump area, and then waited for the westbound phase to initiate.

#### 4.0 SIGNAL TIMINGS

Signal timings were measured at both Highway 1 & Tillicum and Highway 1 and Admirals/McKenzie. TABLES 1 and 2 provides a comparison of: signal cycle lengths that were in operation prior to the implementation of the transit queue jump; signal cycle lengths recommended; and those observed to be in operation currently.

TABLE 1

AM PEAK PERIOD - TRAFFIC SIGNAL CYCLES (seconds)

		Prior to Implementation of Transit Queue			charle
		Jumps 15/14	Recommended	Current	By with
Highway 1 & McKenzie/Admirals	133-	148 162 47	130	200 134	to freed
Highway 1 & Tillicum		144	110	220	Doch
		142		168 Steam	S CHOPITAN

TABLE 2
PM PEAK PERIOD - TRAFFIC SIGNAL CYCLES (seconds)

	Prior to Implementation of Transit Queue Jumps	Recommended	Current	ы Э
Highway 1 & McKenzie/Admirals	176	130	190 180	幣
Highway 1 & Tillicum	159 122	90	220	= 148 set

The signal timings that were recommended were designed to minimize total intersection delay as well as maintaining queue lengths shorter than the westbound right turn lane extensions. The recommended signal timings were based on signal timing modifications at Highway 1 & Admirals/McKenzie, Highway 1 & Tillicum; Douglas & Saanich and Douglas & Cloverdale. The westbound departure flows at Douglas & Saanich were designed to meter the westbound arrival flow at Highway & Tillicum.

The timings at Douglas & Saanich have not been modified and the current timings at both Highway 1 & Tillicum and Highway 1 & Admirals/McKenzie are significantly higher than what was recommended. This explains the increased queuing and approach service level anomalies observed.

CAPACITY ..

#### 5.0 TRAFFIC DEMAND

Intersection movement counts were undertaken during the PM peak hour (4:30 - 5:30 PM) on November 20, 2002 and in the AM peak period (7:30 - 8:30 AM) on November 21, 2002.

TABLES 3 and 3A provide a comparison between 2000 and November 2002 AM and PM peak hour intersection demand.

The traffic demand comparisons indicate that current peak hour demand at Highway 1 approaches is less than the 2000 demand during the same time periods. The demand on the Admirals/McKenzie and Tillicum approaches is generally the same as the 2000 demand during the same time periods. nd counts!

Given that the Admirals/McKenzie and Tillicum approaches receive more green time than required it can be concluded that intersection demand has not changed. The reduction in Highway 1 demand is consistent with capacity losses attributable to excessive traffic signal cycle lengths.

Given that the peak intersection demand has been influenced by the signal timings implemented, the intersection count at Highway 1 and Tillicum was not carried out.

AM PEAK HOUR INTERSECTION DEMAND COMPARISON – HIGHWAY 1 & TILLICUM

(Demand is represented to Brown 15 THIS EXC S

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		Count (ve Count (F			Tillicun	n							of the sold of the

123Current Count (veh) 123Previous Count (PCU) 123Current Count (PCU)

11/29/2002

TABLE 3A

PM PEAK HOUR INTERSECTION DEMAND COMPARISON – HIGHWAY 1 & TILLICUM
(Demand is represented as Passenger car units)

				PCU	36	420	29							
				В		2								
				Т		1								
				С	38	426	27							
Highway 1				PCU	38	433	27							
					Ø.	Û	2							
PCU	В	Т	С	PCU					PCU	В	т	С	PCU	
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				С	213	503	81							
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123Current Count (veh) 123Previous Count (PCU) 123Current Count (PCU) Tillicum

#### 6.0 ANALYSIS

In order to perform a meaningful assessment of the queue jump facilities it is important to understand the underlying principles of what was originally recommended.

#### Previous Design Concept

The provision of effective queue jump facilities at the intersections in question is markedly different in the AM from the PM peak period.

The eastbound (in-bound) peak flow in the AM peak period is unconstrained down-stream, therefore the hourly eastbound demand arriving at the McKenzie signal can increase with growth in an unimpeded manner. The McKenzie signal acts as a meter for subsequent eastbound flows inbound.

Hamilton Associates

11/29/2002

The westbound (outbound) peak flow in the PM peak period is metered by the signal at Douglas and Saanich. The westbound discharge will always be constrained by the westbound discharge capacity.

Because the westbound discharge flow can be managed, the westbound approaches at both Tillicum and McKenzie were selected for Queue jump/right lane extensions.

The design process for the effective operation of westbound Queue jumps at both Admirals/McKenzie and Tillicum involved signal plan development that minimized delays, stops, and queuing. Westbound right lane extension s that extended beyond the westbound through lane queues were then identified. In the case of Tillicum the extension was constrained by the location of a structure to the east. Further signal modifications were undertaken to shorten westbound queues to the maximum extent possible. TABLE 4 describes the westbound thorough signal discharge capacity at the intersections of Douglas and Saanich, Highway 1 and Tillicum and Highway 1 and McKenzie Admirals.

TABLE 4 WESTBOUND PM PEAK HOUR THROUGH SIGNAL DISCHARGE CAPACITY (vehicles per hour)

	Recommended	Current
Douglas and Saanich	1,364	1,519
Highway 1 and Tillicum	1,440	1,275
Highway 1 and McKenzie/Admirals	(1,911	941

It should be noted that the recommended design ensured increased up-stream capacity while the implemented timings features the reverse. This explains both the reduction in westbound through capacity observed as well as the dramatic increase in queuing.

Given that MoT proceeded with an incremental implementation the analysis was modified to include only the intersections of Highway 1 and Tillicum and Highway 1 and Admirals/McKenzie. The discharge capacity at Douglas and Saanich is assumed to be unchanged from 2002 levels. SYNCHRO files were modified to remove the intersections of Douglas & Saanich and Douglas & Cloverdale. This permits assessment of the intersections of Highway 1 & Admirals/McKenzie and Highway 1 & Tillicum in isolation.

The operations of the remaining intersections were then re-assessed to determine optimal cycle lengths and associated performance expectations. The performance under existing signal timings was also identified. TABLES 5 and 6 provide a comparison of key indicators between pre-implementation, pre-implementation optimized, current and current optimized operations under AM and PM peak hour demands (2000 counts).

< Mor appropriate of these files.

### TABLE 5 AM PEAK HOUR PERFORMANCE COMPARISON HIGHWAY 1 (ADMIRALS/McKENZIE & TILLICUM)

INDICATOR	Pre-Implem.	Pre-Implem. Optimized	Current	Current Optimized
Total Signal Delay (hr)	139	143	190	148
Total Stops	9217	9223	9221	9384
Total Time (hr)	319	317	410	322
*Queuing Penalty (veh)	1221	1134	1180	1159
**Performance Index	198.9	200.6	248	206.5
McKenzie EBD 95%Q m	498	498	754	501
Tillicum EBD 95% Q m	431	350	475	416

The queuing penalty is a SYNCHRO based quantification of the affects of queuing and blocking problems. It is roughly equal to the number of vehicles affected by blocking. In many cases shorter cycle lengths will experience shorter queues and less blocking. The queuing penalty is a convenient way to measure blocking network wide. The queuing penalty is calculated by the taking the volume of the blocked movement by the amount of time it is blocked. A penalty is calculated for both storage bay blocking and upstream blocking. Lower values represent better operations than higher values.

The Performance Index is a measure that captures the combined effects of queuing, stops, and delay. (stops are weighted 10 times the value of delay and queuing is weighted at 100 times the value of delay). Lower values represent better operations than higher values.

### TABLE 6 PM PEAK HOUR PERFORMANCE COMPARISON HIGHWAY 1 (ADMIRALS/McKENZIE & TILLICUM)

INDICATOR	Pre-Implem.	Pre-Implem. Optimized	Current	Current Optimized
Total Signal Delay (hr)	166	156	271	127
Total Stops	9424	10425	11219	9355
Total Time (hr)	326	312	475	286
Queuing Penalty (veh)	2019	1181	2641	986
Performance Index	248.7	217.3	375.6	179.9
McKenzie WBD 95%Q m	313	243	573	243
Tillicum WBD 95% Q m	356	237	419	207

#### 7.0 CONCLUSIONS AND RECOMMENDATIONS

- AM and PM peak hour demand has remained unchanged from 2000;
- Existing signal operations at Highway and Tillicum and Highway 1 and McKenzie/Admirals has increased delays, queuing and peak direction through capacity;
- Westbound right turn lane entry is blocked by through queues during the entire PM peak hour;
   and

11/29/2002

Current operations can be improved by changes in signal timing.

It is recommended that the following strategy be used to improve operations:

- It is recommended that revised signal timings be implemented immediately at Highway 1 & Tillicum as well as Highway 1 and Admirals/McKenzie;
- Timings should be implemented at Highway 1 and Tillicum initially and after a 5 to 7 days stabilization period timings can be implemented at Highway and McKenzie/Admirals; and
- The implementation process should be supported with specialist assistance in the field.

Hamilton Associates would be pleased to provide support for the field implementation of signal timing plan revisions. Updated SYNCHRO files can be made available for this implementation.

If you require additional information and/or clarification please contact the undersigned at 604 684-4488.

Yours truly,

G.D. HAMILTON ASSOCIATES CONSULTING LTD.

per:

J. Schnablegger, P. Eng Senior Project Manager

#### Livolsi, Patrick TRAN:EX

From:

Webb, Bob TRAN:EX

Sent:

Wednesday, December 04, 2002 8:37 AM

To: Cc: Livolsi, Patrick TRAN:EX Steele, Bob D TRAN:EX

Subject:

till/mckenzie

hi patrick.

see attached note from hamilton, transit would like us to review the timing at these intersections. you may recall we had talked about doing a timing review at these intersections. is someone looking at this? the process we would like is for your group to review then we have a meeting with our folks including bob steele. once we have this meeting we will meet with transit and thier consultant.

i have talked to jerry about what he did for timing..who ever you assign to this project may want to talk to jerry. please let me know your thoughts and target date.

thanks

Highway 1 Report\_...

Bob Webb District Technician Vancouver Island District Saanich Area Office

Sod Enal to Bob Well.

- USE TRANSITE CONSULTANT

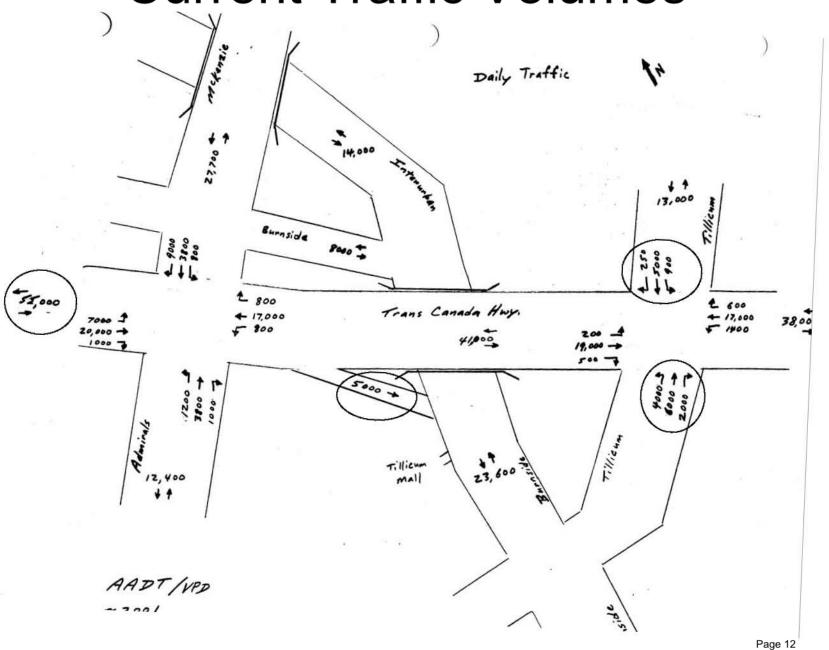
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# Future of Trans Canada Connections In Admirals / Tillicum Area

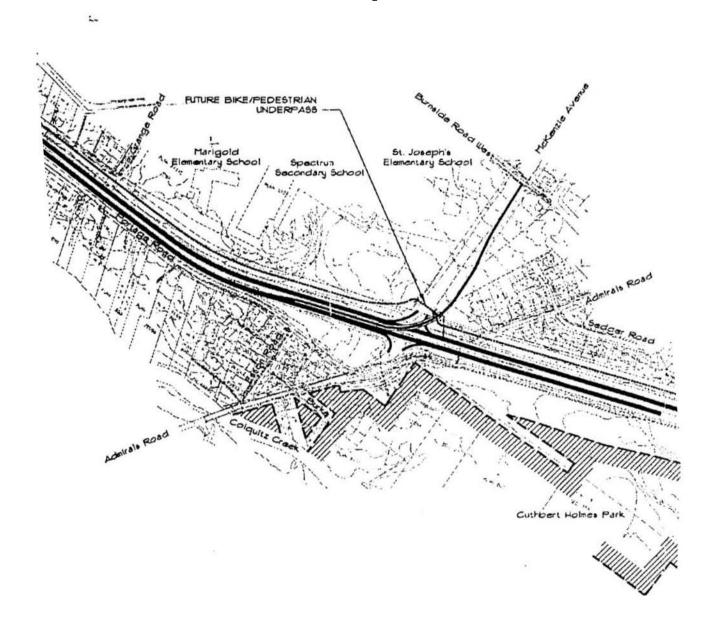
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**Possibilities** 

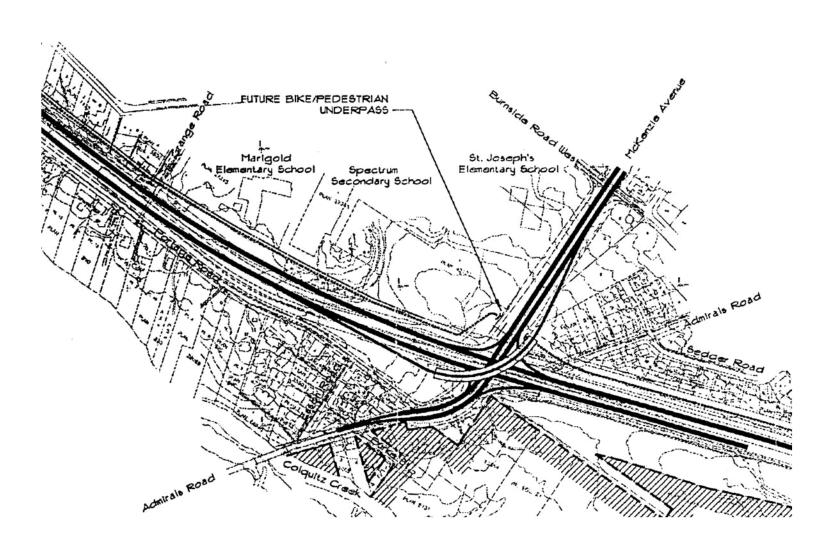
# **Current Traffic Volumes**



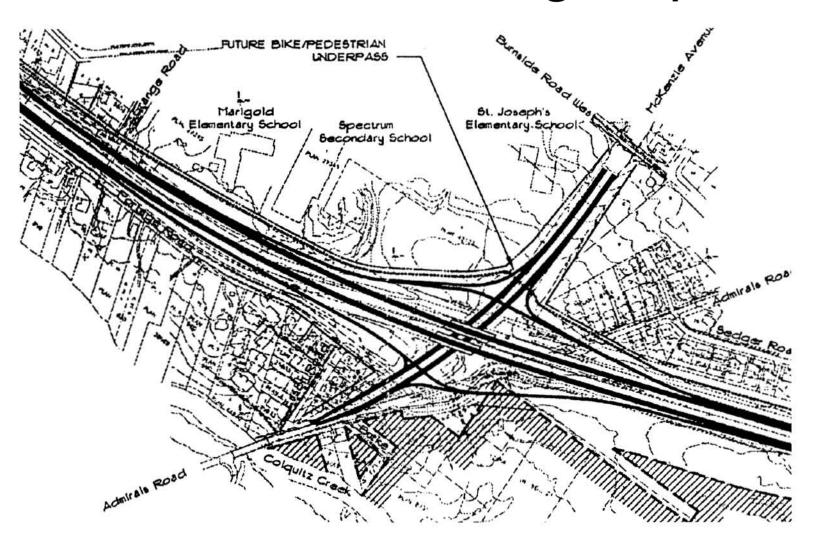
# Directional Ramp from Fast Lane



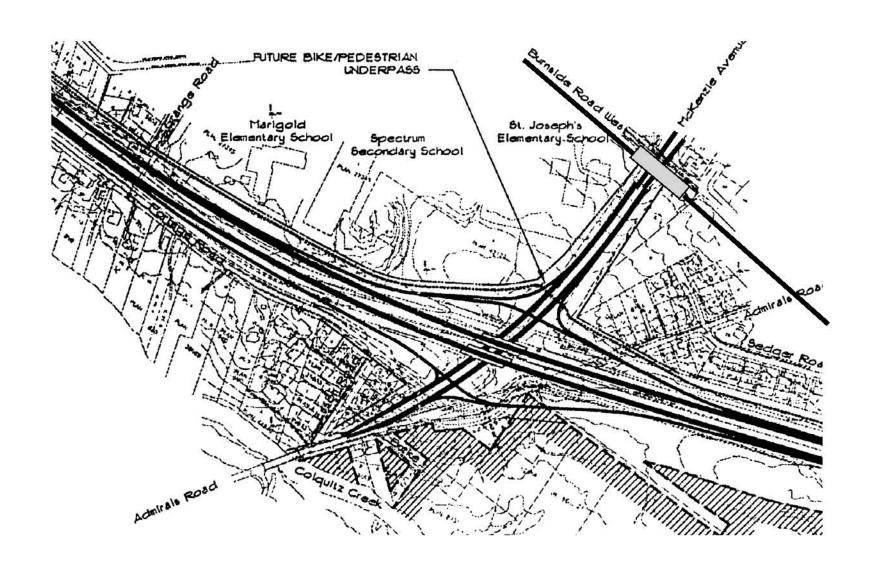
# Directional Ramp from Slow Lane



# Diamond Interchange Option

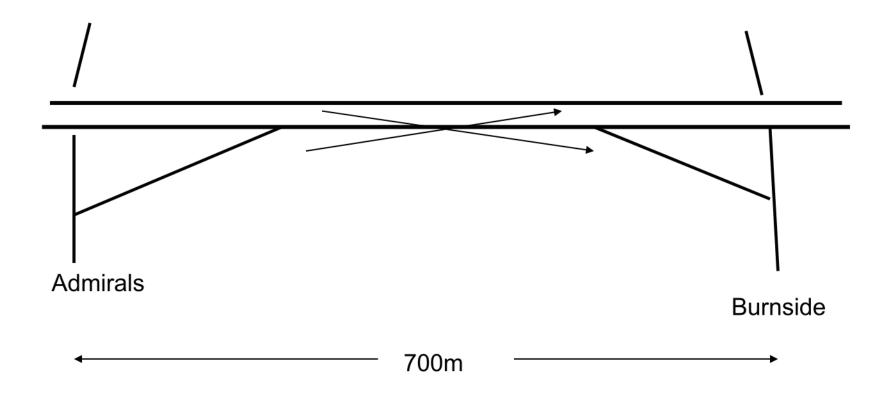


## Interchange Option with McKenzie under Burnside



# Future of Burnside Underpass

Burnside off ramp in conflict with Admirals on ramp.



## Future of Tillicum/TCH Intersection

- Signal Remains
  - As Is
  - 6 Lane TCH, more turn lanes on Tillicum
  - 6 lane TCH but new lanes to be HOV/Bus
- Remove signal, install median barrier
  - Right Turns only
  - Right Turns only except LT's into Tillicum
- Grade Separation
  - Tillicum under TCH
  - Full interchange, all movements allowed

Community input welcome and needed

# Wrap Up

Encourage Mixed Use, reasonably dense development

 Impeding traffic on major corridors may move traffic to local streets

3

MoT welcomes input on future of transportation in this area.

## Technical Memorandum

Ministry of Transportation and Infrastructure

Highway 1 and Admirals McKenzie Intersection Preliminary Engineering Study: Traffic and Safety Assessment

April 2012



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### **Executive Summary**

The Highway 1 / Admirals Road / McKenzie Avenue intersection is a major intersection linking the two main areas of Victoria – the commercial business district (CBD) / Peninsula and Westshore – and is a pinch-point within the connecting corridor. To identify possible solutions and alternatives for improving this intersection and those in the immediate area, the Ministry of Transportation and Infrastructure has commissioned Associated Engineering to complete a Preliminary Engineering Study. This technical memorandum was prepared to summarize the results of the operational and safety assessment for the existing condition and a future planning horizon.

The following intersections were assessed to ascertain network performance:

- Highway 1 / Admirals Road / McKenzie Avenue;
- McKenzie Avenue / Burnside Road;
- McKenzie Avenue / Carey Road;
- McKenzie Avenue / Glanford Avenue:
- McKenzie Avenue / Highway 17 Interchange Southbound Ramp;
- Highway 1 / Tillicum Road;
- Highway 1 / Saanich Road;
- Highway 1 / Helmcken Road Interchange Northbound Ramp;
- Highway 1 / Helmcken Road Interchange Southbound Ramp;
- Admirals Road / Craigflower Road; and
- Admirals Road / Gorge Road.

The traffic analysis and safety assessments include traffic operations assessments of the above-noted intersections, constraints analysis (existing capacity and potential capacity of downstream intersections to Highway 1 / Admirals Road / McKenzie Avenue), and safety assessment of the Highway 1 / Admirals Road / McKenzie Avenue intersection.

#### 1 TRAFFIC ASSESSMENT

The operations assessment utilized the Synchro traffic software to determine / analyze existing traffic operations / performance. The existing condition (2011) and a future planning horizon (2038) were analyzed.

#### **Existing Conditions (2011)**

The analysis of existing conditions at the above intersections indicated that most of the intersections operate at, or near-capacity. Table E-1 summarizes the overall levels of service (LOS) for each intersection under existing conditions.



TRA-2013-00114

Table E-1
Overall Intersection LOS

	2011				
Intersection	AM Peak Hour	PM Peak Hour			
Highway 1 / Admirals Road / McKenzie Avenue		F	F		
Highway 1 / Helmcken Road Interchange - North Ra	amp	F	D		
Highway 1 / Helmcken Road Interchange - South R	F	F			
McKenzie Avenue / Burnside Road		E	С		
McKenzie Avenue / Carey Road		В	В		
McKenzie Avenue / Glanford Road		F	F		
McKenzie Avenue / Highway 17 West Ramp (South	bound)	F	D		
Admirals Road / Gorge Road		В	В		
Admirals Road / Craigflower Road		С	С		
Highway 1 / Tillicum Road		F	F		
Highway 1 / Saanich Road		F	E		

During certain peaks of the day, long queues form in the eastbound direction from the Highway 1 / Admirals Road / McKenzie Avenue intersection as far as west of the Helmcken Interchange. This is caused by queue jumping of vehicles in order to try and avoid congestion. Calculations from Synchro indicate a queue length of 580 m, which is shorter than the distance to the Helmcken Interchange. However, the actual queue could be longer than calculated as lane capacities from input demand were exceeded and thus the calculation from Synchro may yield results lower than expected. As confirmation to actual conditions, SimTraffic visualizations indicate a queue forming as far back as the Helmcken Interchange. In addition to the eastbound queues, southbound queues at the project intersection can extend to and beyond the McKenzie Avenue / Burnside Road intersection.

From a network perspective, most intersections under the Ministry's jurisdiction within the study area operate at- or near- capacity.

#### Forecast Horizon (2038)

Until design options are defined and agreed upon, a 30% growth factor was applied to the existing base model to anticipate forecast volumes. This equates to approximately 1% increase in traffic volume per annum, for assessment of the 2038 planning horizon. As existing traffic flows are already at- or near- capacity operations, the additional increase of traffic demand to the 2038 planning horizon will only further deteriorate existing conditions. In all likelihood, the continual increase in demand will further spread the peak hour to form longer peak periods throughout the day. Although the spreading of volume will decrease the demand during the peak periods of the day, it is certain the intersections will remain at- or above- capacity should no improvements be made. Table E-2 summarizes the results of the 2038 intersection operations. The preparation of the TransCAD model, upon definition and agreement of the network improvements, will further detail planning horizon traffic demand.



### Table E-2 2038 Overall Intersection LOS

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#### 2 CONSTRAINTS ANALYSIS

A constraints analysis was undertaken to assess the potential additional traffic capacity at each of the downstream intersections. Different improvements were modelled to the corresponding intersection configuration for each of the downstream intersections. **Table E-3** summarizes the intersection improvements proposed for each intersection to ascertain potential additional capacity (and limits thereof) within the studied network.



Table E-3 **Constraint Analysis Improvements Summary** 

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#### 3 SAFETY ASSESSMENT

A safety assessment was prepared utilizing 2006-2010 ICBC collision data. The assessment also reviewed the types of collisions occurring at the intersections.

s17

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#### 4 CONCLUSION

Based on the above analyses, the following results were found:

- Traffic Assessment
  - For the existing and future conditions based on the existing roadway configuration, most intersections within the studied network exhibit failing Levels of Service.
  - Long queues are formed at the Highway 1 / Admirals Road / McKenzie Avenue intersection specifically extending from the eastbound and southbound directions.
- Constraints Analysis

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Safety Assessment

s13, s17

#### 5 **MOVING FORWARD**

Based on the conclusion of the analysis, the operational characteristics of the project intersection and the network as a whole are evident. Proposed improvement options should address the specific needs outlined. A preferred options shortlist will be developed based on the analysis above, which will form the basis of the multiple accounts evaluation study as well as the business case study.





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#### TECHNICAL MEMORANDUM



#### 1 Introduction

The intersection of Highway 1 / Admirals Road / McKenzie Avenue is a major intersection in the transportation corridor linking the commercial business district (CBD) / Peninsula with the Westshore. The intersection is congested resulting in significant delays to motorists. It is currently one of the most critical pinch-points in the Capital Regional District's road network.

To develop possible solutions and alternatives for improvements to the intersection, existing and potential future operational deficiencies at the Highway 1 / Admirals Road / McKenzie Avenue intersection (along with the surrounding road network) must be identified. This traffic and safety assessment was prepared to summarize the results of the operational and safety analysis undertaken for the existing and future (2038) design horizon.

#### 2 Purpose and Objective

To determine the operational performance of the intersection at the existing and future design horizon, a comprehensive assessment was carried out to evaluate existing and potential future operational deficiencies of the Highway 1 / Admirals Road / McKenzie Avenue intersection and its surrounding network system.

The following intersections were analyzed:

- Highway 1 / Admirals Road / McKenzie Avenue;
- McKenzie Avenue / Burnside Road;
- McKenzie Avenue / Carey Road;
- McKenzie Avenue / Glanford Avenue;
- McKenzie Avenue / Highway 17 Interchange Southbound Ramp;
- Highway 1 / Tillicum Road;
- Highway 1 / Saanich Road;
- Highway 1 / Helmcken Road Interchange Northbound Ramp;
- Highway 1 / Helmcken Road Interchange Southbound Ramp;
- Admirals Road / Craigflower Road; and
- Admirals Road / Gorge Road.

A constraints analysis, for intersections downstream of the project intersection, and a safety assessment, was prepared as part of this report.

The results of the analysis will aid in the identification of possible improvement opportunities and solutions.



#### 3 Study Area

The study area is bounded by McKenzie Avenue to the north, Craigflower Road to the south, Helmcken Road (interchange) to the west, and Highway 17 and Saanich Road to the east. The intersections that were analyzed include those listed in Section 2.0. The study area is shown as Figure 3-1.

#### 4 Methodology

#### 4.1 Traffic Assessment - Existing Conditions (Year 2011)

Traffic analysis for the existing conditions utilized the Synchro Software along with background traffic counts and existing signal timing information provided by the Ministry of Transportation and Infrastructure (MoTI) staff. Where count information was not available, additional traffic counts were gathered during November 2011 to January 2012.

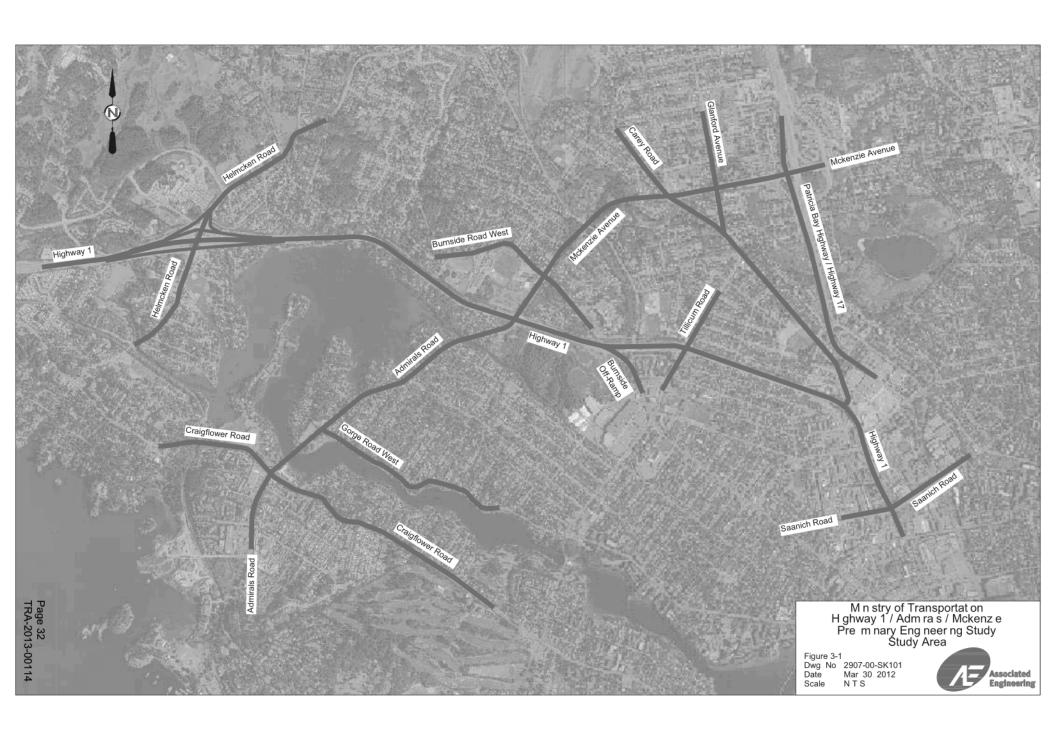
For the assessment, existing conditions traffic analyses were prepared assuming 2011 summer average daily traffic conditions with further balancing of flows between intersections. Summer average daily volumes were used as they are generally higher than the average annual daily volumes. To convert the counts not taken during the summer months to reflect summer volumes, monthly average roadway volume percentages were used.

The weekday AM and PM peak hours were studied with the expectation that the PM peak hour yields the highest weekday traffic volumes. The AM peak hour typically has similar characteristics (but slightly lower traffic volumes) as commuters commute to work in the morning peak and return home in the afternoon peak hour. The findings of the Highway 1 / Admirals Road / McKenzie Avenue Intersection Review prepared by Boulevard Transportation Group in July 2011 generally supports this assumption where peak hours of the day (AM and PM) generally corresponded to the peak traffic volumes.

The original background traffic information, including traffic counts and signal timing sheets, is attached as reference in Appendix A of this assessment.

#### 4.2 Traffic Assessment - Future Conditions (Planning Horizon 2038)

An assessment of traffic conditions for the future 2038 horizon was undertaken for this study. The 2038 forecast was based on the Capital Regional District (CRD) Transportation Planning Model (TP Model). The TP Model was developed using the TransCAD software suite. It was originally created in 2008/9 and calibrated using 2006 demographics, traffic count data and origin destination survey data. It has recently gone through a significant update (December 2011) with CRD Planning personnel meeting frequently with Municipal Planning staff to rework the future expected demographic by traffic zone.





This 2011 update is the model utilized for the Associated Engineering team's early forecast of future volumes. Growth associated with the forecast was applied to the existing traffic count information for analysis.

Peak hour volumes were extracted from the 2006 Base and the 2038 Reference scenarios on the TransCanada Highway (TCH) and McKenzie Avenue in order to determine the additional future demand. However, these volumes were found to increase very little between the 2006 Base and the 2038 Reference scenarios. This was unexpected and caused some concern. As a result, additional investigation was carried out to determine the cause. Although the anticipated CRD population increase will be about 30%, the volumes on the TCH increased by less than 15% to the west and east of McKenzie Avenue. Working with the CRD Planning staff, it was determined that this low additional demand was mainly caused by the constraint of leaving Highway 1 at 4-lanes.

The scenarios utilized from the 2011 model and their characteristics are as follows:

#### 2006 Base

- Demographics: Original Actual 2006 Population and Employment by traffic zone
- Network: 2006 "As Is" Network

#### 2038 Reference

- Demographics: Future 2038 Population and Employment by traffic zone as determined by CRD Planning from recent discussions with Municipalities (Official Community Plan based)
- Network: Committed Projects Only Network
  - 4 lanes TransCanada Highway (TCH)
  - Spencer Interchange (I/C) and Leigh/Bear Mountain Parkway upgrades
  - Westshore Parkway I/C and 2 lane Westshore Parkway connection to Westhills and Highway 14
  - BC Transit 2038 Master Plan; Increased Rapid Bus with no LRT

#### 2038 Reference on 2006 Network

- Demographics: Future 2038 Population and Employment by traffic zone as determined by CRD Planning from recent discussions with Municipalities (Official Community Plan based)
- Network: 2006 "As Is" Network

Associated Engineering s13

#### 2038 Reference Enhanced TransCanada Highway

s13

#### 4.3 Constraints Analysis

Based on the existing conditions, a cursory constraints analysis of intersections / corridors downstream of the Highway 1 / Admirals Road / McKenzie Avenue intersection was undertaken to ascertain network performance assuming that certain improvements can be made at those downstream intersections.

Specifically, improvements, referenced in **Table 4-1** below, were applied to the noted intersections to analyze the potential maximum constraint (in terms of traffic flow). Note that this is only a desktop / theoretical study element to capture the system-wide capacity potential.

The table below summarizes the improvements made to each tested intersection.



### Table 4-1 Constraint Analysis Improvements Summary

s13

Resulting from the above intersection improvements, the downstream / immediate network capacity constraints were determined.

Based on the improvements set above, the downstream constraints (from the project intersection) were analyzed. The full analysis listing is submitted as **Appendix B** of this report.

Constraints analysis details are discussed in Section 5.7.



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#### 4.4 Safety Assessment

Safety assessment of the Highway 1 / Admirals Road / McKenzie Avenue intersection was prepared utilizing Insurance Corporation of British Columbia (ICBC) and MoTI collision data between 2006 and 2010 (5-year period). Temporal, location, type, and severity of collisions were analyzed. Results of the safety assessments for other intersections in the network were cited where a safety study was previously performed.

Safety assessment details are discussed in Section 6.

#### 5 Traffic Assessment

Traffic analysis was performed for the existing conditions, (year 2011), and the future planning horizon (year 2038). The following sections outline the traffic operations analysis of the study area. Traffic flow and overall intersection performance information are summarized in Figures 5-1 to 5-6 of this section.

#### 5.1 Traffic Network

In addition to the descriptions of the traffic network below, Figure 3-1 provides a map showing roadway locations.

**Highway 1** – Highway 1 runs east-west through the Highway 1 / Admirals Road / McKenzie Avenue intersection. Within the study area, Highway 1 is a 4-lane highway with a posted speed of 80 km/h. It is the primary east-west corridor connecting CBD / Peninsula and the Westshore. In the study area, the Galloping Goose Trail runs parallel to the Highway.

**McKenzie Avenue** – McKenzie Avenue is located north of the Highway 1 / Admirals Road / McKenzie Avenue intersection. At the northeast boundary of the study area, McKenzie Avenue connects with Highway 17. It is an arterial connecting communities north of Highway 1 such as Royal Oak, Strawberry Vale, and Marigold in Saanich.

Not Responsive

Pages 37 through 42 redacted for the following reasons:

s13



Not Responsive

#### 5.2 Existing Traffic Volumes

Utilizing growth rates and average daily traffic monthly histograms (for adjustments of average daily traffic to summer daily equivalents), the collected traffic volumes were factored to 2011 summer average daily traffic volumes (worst case scenario) for analysis use. The traffic flows were further balanced between the intersections.

Existing conditions traffic volumes are summarized in Figures 5-1 and 5-2.

#### 5.3 Future Traffic Volumes

Future traffic volumes were derived from the TransCAD regional model for the 2038 planning horizon. For detailed explanations of the derivation of the projected traffic volumes, please refer to Section 4.2. Future traffic volumes are summarized in Figures 5-4 and 5-5.



#### 5.4 Intersection Performance

Several criteria were utilized for the analysis of intersection performance within the study area.

The Level of Service (LOS) is a general measure of operating performance of intersections. It is assigned to the intersection as a whole or to a specific approach / movement. The LOS grades correlate to a specific range of traffic delay (seconds). Table 5-1 below summarizes the LOS and their relationship with specific delay ranges for intersections, approaches, and movements.

Table 5-1
Signalized Intersections – Level of Service Characteristics

Level of Service	Average Signal Delay (seconds/vehicle)	Level of Service	Average Signal Delay (seconds/vehicle)
Α	<u>≤</u> 10	D	> 35 and ≤ 55
В	> 10 and <u>&lt;</u> 20	E	> 55 and ≤ 80
С	> 20 and <u>&lt;</u> 35	F	> 80

<sup>\*</sup> The LOS ranges between A and F with LOS E considered "at capacity" and LOS F considered "at failure".

In addition to LOS analyses, the volume-to-capacity ratio (v/c) are also analyzed. The v/c ratio indicates the volume of vehicles at an intersection, movement, or approach relative to the available capacity. Ministry guidelines typically consider a v/c ratio of 0.85 as just satisfactory.

The level of service analysis was undertaken using Synchro 7.0 traffic operations analysis software. This software uses evaluation criteria based on the methodologies stated in the Highway Capacity Manual (HCM) 2000. A VISSIM traffic model was also prepared to better understand the characteristics at the Highway 1 / Admirals Road / McKenzie Avenue intersection.

Of note, after analysis of heavy vehicle traffic in the nearby highway segments and surrounding areas, and after consultation with the MoTI staff, a general 5% heavy vehicle percentage is applied to all movements for analysis of the study area.

Movement information, v/c ratios, and queue lengths for each movement along with Synchro analysis output summaries are attached in Appendix C of this assessment.

### 5.5 Existing Conditions

#### **Analysis Results**

Based on existing traffic volumes and above-mentioned assumptions, the study intersections were assessed using Synchro. Table 5-2 summarizes overall intersection LOS for each of the analyzed intersections. Tables B1 to B22 within Appendix C summarizes detailed LOS for each individual turning movement.



# Table 5-2 Overall Intersection LOS

	20	11
Intersection	AM Peak Hour	PM Peak Hour
Highway 1 / Admirals Road / McKenzie Avenue	F	F
Highway 1 / Helmcken Road Interchange - North Ramp	F	D
Highway 1 / Helmcken Road Interchange - South Ramp	F	F
McKenzie Avenue / Burnside Road	E	С
McKenzie Avenue / Carey Road	В	В
McKenzie Avenue / Glanford Road	F	F
McKenzie Avenue / Highway 17 West Ramp (Southbound)	F	D
Admirals Road / Gorge Road	В	В
Admirals Road / Craigflower Road	С	С
Highway 1 / Tillicum Road	F	F
Highway 1 / Saanich Road	F	E

A summary of the overall intersection levels of service for the existing condition are illustrated in Figure 5-3. Analysis, from a network standpoint, based on the results of a constraints analysis is further explored in Section 5.7 of this report.

#### Highway 1 / Admirals Road / McKenzie Avenue Intersection Performance

In general, analysis results for the Highway 1 / Admirals Road / McKenzie Avenue intersection indicate that the intersection is operating at above-capacity levels for many of the approaches during both the AM and PM peak hours, coupled with high queue lengths on all approaches. This is consistent with field observations where long queues formulate on the eastbound and westbound intersection approaches on the highway during the AM and PM peak hours, respectively.

The eastbound queue extends to the Helmcken Interchange. Although Synchro outputs indicate a queue length of 580 m for this approach during the existing conditions AM peak period (Table B1), it must be noted that the input demand is higher than capacity. The resultant queue can be much longer than that calculated. SimTraffic modelling (visualizations) confirms spillback as far as the Helmcken Interchange.

In addition, for the urban section (north and south leg of the intersection), long southbound queues at the Highway 1 / Admirals Road / McKenzie Avenue intersection form during the PM peak hours. This is caused by high traffic volumes merging onto the southbound right turn movements. At times, the queue hinders movements from the McKenzie Avenue / Burnside Road intersection, which is immediately to the north. It is possible that a non-failing LOS occurs at the McKenzie Avenue / Burnside Road intersection due to the traffic flows' inability to effectively pass through the intersection or potential spreading to other routes due to a local understanding and anticipation of potential congestion.

The traffic analysis results as compared to the stakeholder comments are generally consistent with one another. An excerpt of the stakeholder comments that correspond to the intersection



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congestion conditions is included below. A full stakeholder consultation comments list is attached in Appendix D of this report.

Excerpt of Stakeholder Consultation Comments dated 24 November 2011.

Via the stakeholder consultation dated 24 November 2011, anecdotal traffic conditions at the intersection were gathered. Traffic conditions for comments made are summarized below:

- Highway 1 / McKenzie Avenue / Admirals Road Intersection
  - Congestion problems can be found for eastbound movements (AM peak) and westbound movements (PM peak) on Highway 1.
  - Southbound queue for McKenzie Avenue during the PM peak hour can extend as far as Carey Road / Glanford Avenue.
  - Southbound movements (at the Intersection) are in conflict with Galloping Goose Trail users.
  - Northbound movements pose geometric problems and signal optimization problems (lack of adequate green time), which provoke drivers to run red lights and introduce safety concerns.
  - Signalization of Galloping Goose Trail may be an option for increasing efficiency for traffic on the North Leg of the Intersection.
  - Eastbound bus stop on Highway 1 (just east of the Intersection) promotes a
    weaving movement for vehicles traversing northbound right at the Intersection
    while buses diverge/merge from the bus station pull-out.
  - Westbound congestion during PM peak hour blocks the bus jump lane (which only has space for approximately 8 – 10 vehicles).
  - Westbound merge lane on Highway 1 west of the Intersection ends just short of the pedestrian overpass, creating a substandard merge (length) movement.

#### **Study Area Intersection Performance**

Aside from the Highway 1 / Admirals Road / McKenzie Avenue intersection, most other intersections within the study area, are at failing levels on the McKenzie Avenue and Highway 1 corridors. For both the AM and PM peak hours, Synchro analysis results indicate that McKenzie Avenue / Burnside Road intersection yields acceptable LOS B. This could be the result of the inability of traffic flow to get to this intersection from the upstream above-capacity intersections. The resulting input volumes therefore yields better-than-failing results.

Though no intersection analysis was prepared for the Highway 1 / Burnside Road off-ramp, significant traffic exits the Highway through this movement. During the AM peak hour, this movement is in the order of 600 vehicles per hour. During the PM peak hour, it is in the order of 500 vehicles per hour. The flow, though substantial, is not very high as it is restricted by merging movements and roadway infrastructure constraints downstream. Some of the merging movements are by vehicles attempting to enter commercial areas immediately southeast of the off-ramp on Burnside Road west. Closure and restructuring of accesses along this corridor would decrease merging / weaving movements, thus potentially increasing the capacity of the off ramp.



#### 5.6 Future Conditions

s13

#### Table 5-3 2038 Overall Intersection LOS

s13

Figures 5-4 and 5-5 exhibit traffic flows associated with the future model. A summary of the overall intersection levels of service for the future condition are illustrated in Figure 5-6 while Tables B13 to B23 in Appendix C summarize individual movements for the studied intersections.

Upon completion of the evaluation of options, a refinement of the 2038 planning horizon will be made in the TransCAD model thereby improving the projected likely future conditions.



### 5.7 Constraints Analysis

Based on methodologies described in Section 4.3, the constraints analysis was prepared. Table 5-4 below summarizes the results of the analysis.

#### **Highway 1 Corridor Excess Capacity**

s13





Table 5-4
Constraints Analysis Summary

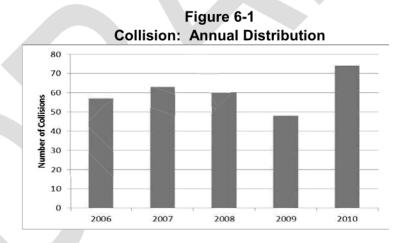
S13

s13

# 6 Traffic Safety Analysis

ICBC accident data for the period of 2006 to 2010, inclusive, were provided for the traffic safety analysis. During the five year period, a total of 302 collisions were reported at the Highway 1/ Admirals Road / McKenzie Avenue intersection. The following charts summarize the temporal safety analysis findings for the intersection. A copy of the accident data is attached as Appendix E.

**Annual Distribution** - Collision frequency at Highway 1 and Admirals / McKenzie intersection has remained relatively consistent during the past five years with a peak of 74 collisions in 2010.



**Monthly Distribution** - Collision frequency is relatively consistent throughout the year with no significant monthly trends observed. Further analysis relating weather / seasons associated with collisions were also inconclusive, therefore seasonal factors did not seem to produce a trend in the collision frequency. Collisions were highest in April and lowest in February and March.



Figure 6-2

**Day of Week Distribution** - Collision frequency is highest during weekdays and lowest on weekends.

20 18 Percent of Total Collisions (%) 16 14 12 10 8 6 2 0 Thursday Monday Tuesday Friday Saturday

Figure 6-3
Collision: Day of Week Distribution

**Hourly Distribution** - Eighty-five percent of all collisions take place between 7:00 AM and 7:00 PM inclusive. Distinct peaks in collisions are observed during the AM and PM peak traffic periods and the increase in collisions are potentially related to the increases in traffic during these peaks.

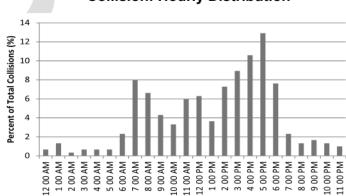


Figure 6-4
Collision: Hourly Distribution



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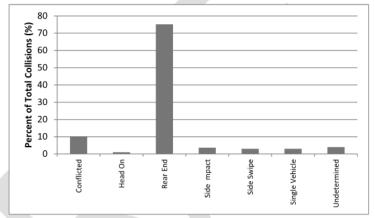
#### 6.1 Collision Type and Location

The following is a summary of collisions by type, configuration and location for the Highway 1 / Admirals Road / McKenzie intersection over the five year period, from 2006 to 2010.

The majority of the collisions involved vehicle conflicts only, 5% of which involved heavy vehicles. Cyclists and pedestrians were involved in approximately 1% of all collisions over the past five years.

**Collision Configuration** - Three-quarters of all collisions reported at the intersection are rear end collisions. Approximately 10% are collisions involving conflicts with other vehicles, pedestrians or wildlife.





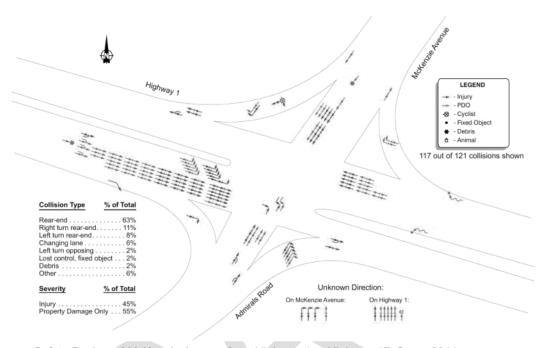
Approximately two-thirds of all intersection collisions were reported as taking place on the east and west legs of the intersection along Highway 1, approximately one-quarter were on the north leg of the intersection along McKenzie Avenue, and the remaining 10% were on the south leg of the intersection along Admirals Road.

Based on the Safety Review of McKenzie Avenue from Highway 1 to Highway 17 (Opus, 2011), the majority of the rear-end collisions occurred on eastbound Highway 1.

To show the trend of collisions, a collision diagram summarizing the collision statistics for 2009-2010 at the Highway 1 / Admirals Road / McKenzie Avenue intersection was presented in the above mentioned Opus, 2011 report. The diagram is re-attached below with only years 2009 and 2010 shown.



## Figure 6-6 Collision Diagram



Source: Safety Review of McKenzie Avenue from Highway 1 to Highway 17, Opus, 2011

For the 2009-2010 study years, although rear-end collisions were found to be higher for the AM and PM peak periods, there were also "spikes" during the off-peak periods. From Figure 6-7 below, the number of rear-end collisions appears to correlate to higher traffic flows during the day, as there is a higher frequency of collisions during the AM and PM peak hours, although a peak at the mid-day seems to be an anomaly.



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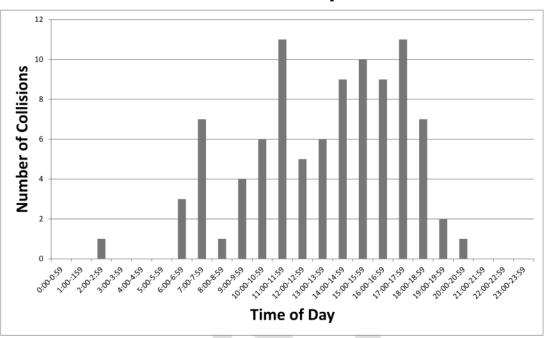


Figure 6-7
Rear-end Collision Hourly Distribution

There was only one collision reported at the Galloping Goose Trail. This accident involved a cyclist and car. Although there does not appear to be a high accident rate, comments from the stakeholders suggest that future improvement to the Galloping Goose should be considered when possible to avoid potential dangerous conflicts between users and drivers.

#### 6.2 Collision Severity and Cost

Over the past five years, 52% of all collisions at the Highway 1 / Admirals Road / McKenzie Avenue intersection were property damage only, and 48% involved injury. No fatal collisions occurred at this location during the past five years.

The following average collision cost figures were assumed (based on MoTI values for collision costs):

Fatality	\$ 5.6M
Injury	\$ 100K
PDO	\$ 7,350



These values were used to calculate the cost of collisions dependant on severity. The total collision cost at the Highway 1 / Admirals Road / McKenzie Avenue intersection for the past five years is estimated to be approximately \$15.6 million or an average of \$3.1 million per year. This translates into an average cost of \$51,500 per collision. While property damage only (PDO) collisions make up approximately half of the total observed collisions they contribute to only approximately 7% of total cost of collisions incurred over the five year time frame.

#### 6.3 Average Annual Collision Rate

Average Annual Collision Rate is defined as the number of collisions per year divided by the number of vehicles entering the intersection. It provides a means of comparing collision frequency at a location with provincial average values to assist in determining if a location is collision prone.

Utilizing MoTI data, which records collision occurrences on provincial routes, the intersection collision rates were compared with average provincial rates.

The Average Daily Traffic (ADT) is based on the volume provided by MoTI from the 2010 signal download at the Highway 1 / Admirals Road / McKenzie Avenue intersection. Based on this information, the ADT passing through the intersection is approximately 81,000 vehicles per day.

Collision rates were then calculated for the intersection and compared with the 2006-2010 provincial average rates for similar highways. The results are shown in Table 6-1.

Table 6-1
Average Annual Collision Rate for Highway 1 and Admirals/McKenzie Intersection

Intersection	Collisions (2006- 2010)	ADT	MEV/year	Collision Rate (C/MEV)	Provincial Rate* (C/MEV)	Exceeds Provincial Rate?
Highway 1 and Admirals/McKenzie	128	81,000	29.57	0.87	0.30	YES

\*Source: MoTI as shown in Appendix E ADT is average daily traffic MEV is million vehicle entering C is collisions

The Highway 1 / Admirals Road / McKenzie Avenue intersection was found to have an intersection collision rate at 0.87 collisions per million entering vehicles which is significantly higher than the average provincial rate of 0.30. Based on this analysis, this intersection may be considered collision prone. However, a more detailed critical collision rate analysis is required to confirm that this location is indeed hazardous due to location specific characteristics, for example intersection configuration.



Comparing the ICBC collisions (302 total) and the MoTI collisions (128 total), it can be deduced that only 42% of the total number of accidents were captured. This is due to the fact that the ICBC data includes all accidents that occurred in the vicinity of the intersection while the MoTI data only includes accidents that occur within roadways / intersections under provincial (i.e. Ministry jurisdiction). Also, the difference is due largely to the fact that many of the crashes are not being reported to the police. As a result, the Ministry information does not record all such instances.

#### 6.4 Downstream Intersection Collision Analysis

Aside from the project intersection, the immediate downstream intersection collision statistics may be useful in determining network-wide benefits from the viewpoint of safety.

Collision statistics for the intersection of Highway 1 / Tillicum Road and McKenzie Avenue / Burnside Road were analyzed in a cursory manner.

The Highway 1 / Tillicum Road intersection yielded approximately 75% rear end collision of a total 244 collisions (2009-2010). It is suspected that the high occurrence of rear ending is related to congestion, which causes stop-start vehicle movements and anxiety amongst waiting drivers.

For the McKenzie Avenue / Burnside Road intersection, it bears much resemblance in collision types as Highway 1 / Tillicum Road, with approximately 70% collisions caused by rear ends out of a total of 62 collisions (2009-2010, Opus 2011). Congestion is also suspected to be the culprit of these high percentages of rear-end collisions.

#### 7 Conclusion

#### 7.1 Traffic Assessment

#### **Existing Conditions (2011)**

- The Highway 1 / Admirals Road/ McKenzie Avenue modelled intersection indicates the formulation of queues on all approaches, which are is consistent with field observations.
  - Long queues are formed on the Highway 1 eastbound and westbound directions during the AM and PM peak hours. Specific long queues were noted in the eastbound direction, which queues as far as the Helmcken Interchange.
  - Southbound queues on McKenzie Avenue extend past Burnside Road blocking vehicles at the Burnside Road / McKenzie Avenue intersection.
  - Most intersections (with the exception of those to the south of the Highway 1 / Admirals Road / McKenzie Avenue intersection) are performing at or near capacity.

#### **Future Conditions (2038)**

s13



s13

#### 7.2 Constraints Analysis

s13

#### 7.3 Safety Assessment

s13

#### 7.4 Moving Forward

The above analysis, showcasing the characteristics of the Highway 1 / Admirals Road / McKenzie Avenue intersection, will serve as background to the development and shortlisting of options. Once options development is completed, a multiple accounts evaluation and finally the business case will determine the appropriate preliminary engineering solution.



# **Appendix A - Traffic Counts and Signal Timing Sheets**

#### RTE. 1 @ ADMIRALS/McKENZIE September 22, 2010 to September 28, 2010

#### Signal Download Summary Data:

						MOVEME	NT	-01.										
		TCH NB	TCH NB	Admirals	TCH 58	McKenzie	TCHSB	TCH NB	McKenzie	TCH NB	TCH SB	Admirals	TCH 58	TCH NB	TCHSB	Admirals	McKenzie	ADT
DATE	DAY	Theu (fast)	Thru (transit	la Eë Thru	Thru (fast)	WB Thru	LT (fast)	Thru (slow)	WB LT	LT	Thru (slow)	EBLT	LT (slow)	RT	RT	EB RT	W8 RT	1
			1															0
22/09/2010	Wednesday						11											0
23/09/2010	Thursday	10147	120	2821	12887	3303	5214	8922	784	375	12571	2699	4090	683	2930	518	13957	82021
24/09/2010	Friday	10126	120	2798	12879	3299	5203	8889	783	373	12541	2691	4085	679	2927	513	13933	81839
25/09/2010	Saturday	10105	120	2796	12866	3295	5195	8869	783	370	12511	2688	4080	677	2926	512	13908	81701
26/09/2010	Sunday	10106	120	2816	12870	3299	5197	8884	782	371	12516	2693	4084	679	2925	512	13906	81760
27/09/2010	Monday	10125	124	2811	12873	3300	5207	8900	784	372	12523	2699	4088	680	2924	514	13925	81849
28/09/2010	Tuesday																	0
																		0

Average Weekend Volume (averaged over 2 days)	81731
Average Weekday Volume (averaged over 5 days)	

							MOVEME	NT									1.		Total
1		Starts at	TCH NB	TCH NB	Admirals	TCH SB	McKenzie :	TCH 58	TCH NB	McKenzie	TCH NO	TCH 58	Admirals	TCHSB	TCH NB	TCHSB	Admirals	McKenzie	Hourty
DATE	DAY	TIME OF DAY	Thru (fast)	Thru (transit )	EB Thru	Thru (fast)	W8 Thru	LT (fast)	Thru (slow)	WBLT	LT .	Thru (slow)	EB LT	LT (slow)	RT	RT	ED RT	WB RT	Volume
22/09/2010	Wednesday																		
23/09/2010	Thursday	7:45:00 AM	670	4	320	1190	280	345	485	75	28	1075	117	183	60	161	46	835	5874
24/09/2010	Friday	7:45:00 AM	635	7.	300	1205	255	340	500	66	18	1070	148	251	68	170	40	855	5928
25/09/2010	Saturday	12:45:00 PM	760	4	214	975	224	420	675	83	43	905	175	370	66	141	72	1150	6277
26/09/2010	Sunday	12:45:00 PM	765	3	169	860	230	405	710	56	38	830	159	360	58	158	63	1035	5899
27/09/2010	Monday	7:45:00 AM	600	6	314	1215	251	400	450	65	18	1090	142	237	64	181	44	815	5892
28/09/2010	Tuesday																		0
									No.										0

							MOVEME	NT											Total
2		Starts at	TCH NB	TCH NB	Admirals	TCHSB	McKenzie	TCH 58	TCH NB	McKenzie	TCH NB	TCH 58	Admirals	TCHSB	TCH NB	TCHSB	Admirels	McKenzie	Hourty
DATE	DAY	TIME OF DAY	Thru (fast)	Thru (transit	le ES Thru	Thru (fast)	WB Thru	LT (fast)	Thru (slow)	WB LT	LT	Thru (slow)	EB LT	LT (slow)	RT	RT	EB RT	WB RT	Volume
22/09/2010	Wednesday	3:30:00 PM	935	12	109	875	216	385	730	24	14	820	201	330	25	140	23	1400	6239
23/09/2010	Thursday	2:15:00 PM	720	13	171	865	218	345	605	52	18:	800	248	272	55	250	29	1215	5876
24/09/2010	Friday	3:00:00 PM	825	9	87	935	245	375	675	53	8	900	211	310	14	211	14	1520	6392
25/09/2010	Saturday	1:00:00 PM	740	4	209	980	233	420	650	86	40	910	175	365	78	156	76	1155	6277
26/09/2010	Sunday	2:45:00 PM	760	2	214	880	188	410	690	76	40	860	158	400	75	166	49	955	5923
27/09/2010	Monday	2:30:00 PM	685	7	147	870	225	380	605	68	16	825	253	315	69	229	26	1160	5880
28/09/2010	Tuesday																		0
					-						والمستحدث الأستحد								0

# DISTRICT OF SAANICH FALL 2011 MANUAL TRAFFIC COUNTS

**Major Route:** 

Admirals

Station #:

**Minor Route:** 

Gorge

Intersection Type:

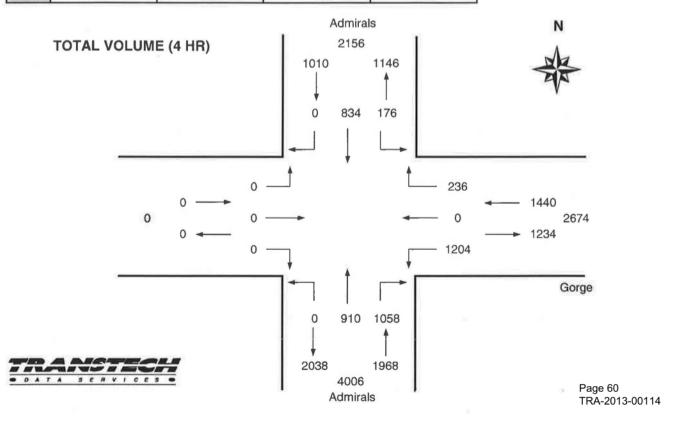
3-leg Gorge

Date: Filename: Thursday, September 22, 2011 Admirals@Gorge-Sep22-2011.xls East/West Route: Weather:

Overcast and Damp

Comments:

Vehicle																		
Time	-	Admiral	S	1	Admiral	S		300			Gorge							
Period	Fr	rom No	rth	Fr	om So	uth	Fr	om We	est	Fi	rom Ea	st	15 Min	Hourly		Pedes	strians	
Starting	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Total	Total	N	S	W	E
07:30	14	65	0	0	68	75	0	0	0	35	0	9	266 *		0	0	0	2
07:45	23	75	0	0	51	75	0	0	0	33	0	4	261 *	(-)	1	0	1	2
08:00	21	65	0	0	51	90	0	0	0	45	0	13	285 +	-	6	0	3	4
08:15	10	44	0	0	51	105	0	0	0	48	0	10	268 *	1080	2	0	1	2
08:30	12	50	0	0	45	82	0	0	0	54	0	17	260	1074	8	0	0	3
08:45	9	38	0	0	43	68	0	0	0	45	0	8	211	1024	21	0	2	15
09:00	10	42	0	0	46	62	0	0	0	50	0	8	218	957	17	2	2	8
09:15	6	47	0	0	45	43	0	0	0	65	0	10	216	905	3	0	2	6
Total	105	426	0	0	400	600	0	0	0	375	0	79	1985	-	58	2	11	42
Pk Hr	68	249	0	0	221	345	0	0	0	161	0	36	1080 *	-	9	0	5	10
Pk Hr	0.74	0.83	n/a	n/a	0.81	0.82	n/a	n/a	n/a	0.84	n/a	0.69	0.95	* = Pea	ak hou	ır	//	
Factor		0.81			0.91			n/a			0.85		+ = Peak 15 minutes					
15:30	10	53	0	0	74	68	0	0	0	107	0	18	330 +		2	2	1	_11
15:45	7	45	0	0	83	56	0	0	0	94	0	18	303 *	-	0	0	3	3
16:00	8	45	0	0	86	65	0	0	0	104	0	15	323 *	-	6	0	5	5
16:15	9	55	0	0	62	55	0	0	0	84	0	18	283 *	1239	3	0	3	2
16:30	10	54	0	0	57	52	0	0	0	99	0	26	298	1207	2	0	0	2
16:45	13	. 50	0	0	55	47	0	0	0	110	0	17	292	1196	2	0	2	2
17:00	8	51	0	0	53	65	0	0	0	120	0	23	320	1193	0	0	1	3
17:15	6	55	0	0	40	50	0	0	0	111	0	22	284	1194	1	0	1	3
Total	71	408	0	0	510	458	0	0	0	829	0	157	2433	-	16	2	16	31
Pk Hr	34	198	0	0	305	244	0	0	0	389	0	69	1239 *	-	11	2	12	21
Pk Hr	0.85	0.90	n/a	n/a	0.89	0.90	n/a	n/a	n/a	0.91	n/a	0.96	0.94					
Factor		0.91			0.91		n/a				0.92			-				



# DISTRICT OF SAANICH FALL 2011 MANUAL TRAFFIC COUNTS

Major Route: Minor Route: Craigflower

Date: Filename: Admirals Wednesday, September 21, 2011

Craigflower@Admirals-Sep21-2011.xls

Station #:

Weather:

Intersection Type:

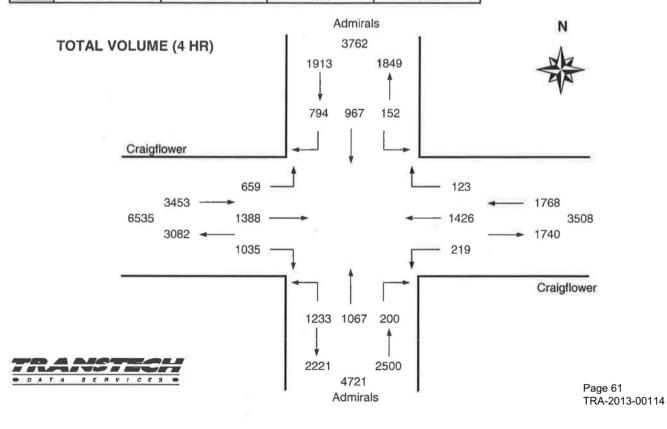
East/West Route:

4-leg Craigflower

Overcast and Damp

Comments:

Vehicle	Data												_						
Time		Admira	ls	1	Admira	s	C	raigflov	ver	Cı	raigflow	ver							
Period	Fi	om No	rth	Fr	om So	uth	Fı	rom We	est	F	rom Ea	st	15 Min	Hourly		Pedes	strians	3	
Starting	Left	Thru	Right	Left	Thru	Right	Left	Thru	Rìght	Left	Thru	Right	Total	Total	N	S	W	E	
07:30	4	72	16	32	65	8	51	120	120	9	45	6	548 *		7	1	8	2	
07:45	4	78	20	41	65	17	60	145	106	14	50	12	612 *	-	2	_ 1	1	5	
08:00	5	45	31	58	54	16	86	169	90	7	60	9	630 +		9	9	8	8	
08:15	3	36	30	58	48	14	60	125	81	9	63	13	540 *	2330	15	15	47	24	
08:30	9	60	48	72	54	13	56	96	66	9	52	6	541	2323	7	7	16	10	
08:45	11	72	22	49	54	10	47	95	68	13	45	10	496	2207	20	15	21	8	
09:00	9	71	30	46	62	11	40	59	59	12	43	8	450	2027	8	10	9	13	
09:15	5	46	32	57	69	13	24	66	52	19	39	9	431	1918	6	5	9	3	
Total	50	480	229	413	471	102	424	875	642	92	397	73	4248	-	74	63	119	73	
Pk Hr	16	231	97	189	232	55	257	559	397	39	218	40	2330 *	-	33	26	64	39	
Pk Hr	0.80	0.74	0.78	0.81	0.89	0.81	0.75	0.83	0.83	0.70	0.87	0.77	0.92	* = Peak hour					
Factor		0.84		0.93 0.88 0.87 += Peak							ak 15	minu	tes						
15:30	12	69	59	120	87	19	26	60	55	15	123	6	651 *		6	6	2	17	
15:45	15	78	64	107	87	13	33	67	59	21	130	5	679 +	-	1	7	9	10	
16:00	11	60	76	104	96	12	34	65	51	10	128	7	654 *	-	0	5	6	5	
16:15	15	38	69	110	83	14	31	76	52	18	138	11	655 *	2639	2	2	7	6	
16:30	12	65	75	95	73	10	36	63	44	11	130	1	615	2603	4	2	8	6	
16:45	14	58	84	112	67	11	27	68	53	18	106	7	625	2549	2	4	3	10	
17:00	13	56	64	99	62	7	28	55	38	22	156	8	608	2503	4	9	6	9	
17:15	10	63	74	73	41	12	20	59	41	12	118	5	528	2376	1	5	5	8	
Total	102	487	565	820	596	98	235	513	393	127	1029	50	5015	-	20	40	46	71	
Pk Hr	53	245	268	441	353	58	124	268	217	64	519	29	2639 *	-	9	20	24	38	
Pk Hr	0.88	0.79	0.88	0.92	0.92	0.76	0.91	0.88	0.92	0.76	0.94	0.66	0.97						
Factor		0.90			0.94			0.96			0.92			-					



# **SIGNAL TIMING SHEET**

DATE ISSUED	June 06, 2011	INTERSECTION	ROUTE 1 AT ADMIRALS ROAD/McKENZIE AVE
CONTROLLER TYPE	LMD 8000	LOCATION	SAANICH
CABINET TYPE	"S" RACK	SHEET NUMBER & REVISION	TE 97056 2D
SEQUENCE	4 OVER 2 PLUS 2	SITE CODE	

PHASE NUMBER	Τ	1		2	Т	3	3			4			5			6		7	Τ	8	
PHASE SETTING	_	ON	_	DN .	+		)N	$\dashv$		OFF	,		ON			ON		ON		ON	
DESCRIPTION	_	UTE 1		JTE 1	+		JTE 1	$\dashv$					UTE	1	RC	OUTE 1		IIRALS	Mo	KEN	
		BLT		NSIT			IB.						B LT			SB		OAD		VEN	
				NAL												-		B LT		MIR	
				IB													-			B/W	
FUNCTION	<u> </u>	Ay		AT.	<u> </u>		\1	_					Ax			A2	F	1->		B2	
OVERLAP	_	L1 (Ay)		3 (AT)	1		2 (A1)											_4 (B1)	Ф	DL4 (	
MINIMUM GREEN	<del>                                     </del>			7	+			10						6		10	+	6	_		7
PASSAGE		3.0			$\top$			5.0						3.0		5.0	)	3.0			4.0
YELLOW		5.0		3.0			4	4.9						4.9		4.9	9	4.7	1		4.7
RED		1.5	5		$\top$			1.5						1.5		1.5	5	1.5	5		1.5
MAX I/MAX II	22				4	15				Т		12			53		6		25		
MAXPLAN (1,2,3,4)	49 25	36 22			45	43	78	43		$\top$		6 1	2 12	12	101 5	3 102 53	6 12	12 6	28 2	22 2	23 28
MAXPLAN (5,6,7,8)	29				46					T		13			62		6		28	$\top$	
WALK	T '		<u> </u>		7									7				7			
PEDESTRIAN CLEAR						11										12				21	
WALK	ST	STEADY STEADY			STEADY						STEADY			ST	ΓEADY	ST	EADY	s	TEA	DY	
RECALL	(	DFF	C	FF	EXT						OFF				EXT	(	DFF		OFF	:	
MEMORY	-	DFF	0	FF	$\perp$		FF					OFF				OFF	(	DFF		OFF	=
COORDINATION ON PHASE					$\perp$	XX	XX <sup>2</sup>	_							XXXX <sup>2</sup>						
FIRST GREEN DISPLAY					_												X	CXX <sup>1</sup>		XXX	
INTERSECTION FLASH	F	RED			_		ED	_					RED			RED			-	RED	)
AWF TIME [s]					╄	5	.7	_		_			_			5.7			_	_	
AWF TIME [s] [CH1/CH2]	1				╙								$\perp$							$\perp$	
DELAY DETECTION TIMING			10 SE		_	_															
	L2 5	SECON	DS (RT	CLIP)	-	-								SHWA	AY; CON	IDTIONAL	PED SE	RVICE	ON PH	ASE	3 & 6
					-	-			AP 2 I	_					04.505			5 (NOT	44.0.0		
					3 NOTE 2 COORDINATION WITH TILLICUM/RO1 FOR MAXPLAN 2, 4, & 5 (NOT 1* & 3)  4 NOTE 1 FIRST GREEN DISPLAY DEPENDENT ON TIME OF DAY.								)								
					4	NO	IE 1	FIR	STGR	ΕE	N DISP	LAY D	EPE	NDE	II ON I	IME OF D	AY.				
						OPERATIONAL COMMENTS															
						PED COUNTDOWN TIMERS ADDED TO ALL PED MOVEMENTS. (Rev. Dec 2010)															
PRE-EMPTION TYPE	NONE				┽—	2. DETECTOR MODE: - L2 USES PHASE 3 AS MODE															
DELAY TIME	1.0.1				-	3. DETECTOR MODE: - LOOPS 15-17 USE PHASE 3 AS MODE.															
PRE-EMPTION TIME					-	-										TECT IN C	ORDER '	TO CALL	TRAN	NSIT	PHAS
VOLUME LOGGING & MOES	ON				-	-		<u> </u>	SPEED		, ,			,							
SCM	ON				6	THE	E DIS	STAI	NCE OI	FA	WF TC	STOP	BAF	R = 10	)5 M						

					CYCLE	(1 TO 8)			
PED PERMISSIVE	1	1	2	3	4	5	6	7	8
			133		130	140			
OFFSET (1 TO 4)			45		45	45			

				TIME CLO	CK SETTINGS	
TIME OF	DAY OF	MAXPLAN	CYCLE	OFFSET	SERVICEPLAN	ADDITIONAL TIME CLOCK INFORMATION
DAY	WEEK	(1 TO 8)	(1 TO 8)	(1 TO 8)	(1 TO 8)	
0630 0930	MON FRI					MAXPLAN 1
0930 1530	MON FRI	2	2	1		MAXPLAN 2
1530 1830	MON FRI					MAXPLAN 3
1830 2200	MON FRI	4	4	1		MAXPLAN 4
1100 2000	SAT SUN	5	5	1		MAXPLAN 5
0630* 2200	SUN SAT					PHASE 7 (B1 >) ENABLED BY TIME OF DAY

ENGINEER OF RECORD	DATE	RECEIVED & DISTRIBUTED BY MOT	DATE

# **TECHNICAL MEMORANDUM**

# **Appendix B - Constraints Analysis**

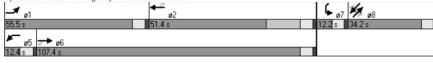
# **TECHNICAL MEMORANDUM**

# **Appendix C - Synchro Output**

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	_#	<b>→</b>	7	<b>_</b>	<b>—</b>	٤	7	×	<i>&gt;</i>	Ĺ	×	<b>√</b>
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	1,1	<b>^</b>	7	7	<b>^</b>	7	ሻ	<b>†</b>	7	, j	<b>†</b>	*
Volume (vph)	621	2390	179	19	1200	71	155	315	42	69	268	898
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	160 0		30 0	100 0		180 0	60 0		50 0	40 0		0.0
Storage Lanes	2		1	1		1	1		1	1		1
Taper Length (m)	7 5		7 5	7 5		7 5	7.5		7 5	7 5		7 5
Lane Util Factor	0 97	0 95	1 00	1 00	0 95	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Frt			0 850			0 850			0 850			0 850
Flt Protected	0 950			0 950			0 950			0 950		
Satd Flow (prot)	3335	3438	1538	1719	3438	1538	1719	1810	1538	1719	1810	1538
Flt Permitted	0 950			0 950			0 143			0 950		
Satd Flow (perm)	3335	3438	1538	1719	3438	1538	259	1810	1538	1719	1810	1538
Right Turn on Red			Yes			Yes			Yes			Yes
Satd Flow (RTOR)			48			100			23			459
Link Speed (k/h)		90			90			60			60	
Link Distance (m)		216 0			560 9			292 3			319 1	
Travel Time (s)		8 6			22 4			17 5			19 1	
Peak Hour Factor	0 92	0 97	0 76	0 75	0 82	0 71	0 93	0 83	0 91	0 83	0 85	0 91
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Adj Flow (vph)	675	2464	236	25	1463	100	167	380	46	83	315	987
Shared Lane Traffic (%)												
Lane Group Flow (vph)	675	2464	236	25	1463	100	167	380	46	83	315	987
Enter Blocked ntersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		7 2			7 2			3 6			3 6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4 8			4 8			4 8			4 8	
Two way Left Turn Lane												
Headway Factor	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Turning Speed (k/h)	25		15	25	_	15	25	_	15	25		15
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (m)	20	10 0	20	20	10 0	20	20	10 0	20	20	10 0	20
Trailing Detector (m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Position(m)	00	00	00	00	00	00	00	00	00	00	00	00
Detector 1 Size(m)												
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Extend (s)	0.0	0 0	0.0	0 0	0 0	0.0	0.0	0 0	0 0	0 0	0 0	0 0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	94	0.0	0.0	94	0.0	0.0	94	0.0	0.0	9 4	0.0
Detector 2 Position(m) Detector 2 Size(m)		0.6			06			06			0.6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Type  Detector 2 Channel		CITEX			CITEX			CITEX			CITEX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
	Prot	0.0	Perm	Prot	0.0	Perm	Perm	0.0	Perm	Prot	0.0	Free
Turn Type Protected Phases	Prot 1	6	reiin	5	2	reiili	reiifi	8	reiill	7	8	LIGE
Permitted Phases		0	6	5	2	2	8	0	8	- /	0	Free
Detector Phase	1	6	6	5	2	2	8	8	8	7	8	riee
Switch Phase		0	0	9	2	2	0	0	0	- /	0	
Minimum nitial (s)	6 0	10 0	10 0	6 0	10 0	10 0	7 0	7 0	7 0	6.0	7 0	
Minimum Split (s)	12.5	25 4	25 4	12 4	24 4	24 4	34 2	34 2	34 2	12 2	34 2	
wiii iii apiit (s)	12 0	25 4	204	12 4	24 4	24 4	J4 Z	34 Z	34 Z	12 2	J4 Z	

	_#	<b>→</b>	7	*	<b>←</b>	€_	•	×	/	Ĺ	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Total Split (s)	55 5	107 4	107 4	12 4	51 4	51 4	34 2	34 2	34 2	12 2	34 2	0.0
Total Split (%)	33 4%	64 6%	64 6%	7 5%	30 9%	30 9%	20 6%	20 6%	20 6%	7 3%	20 6%	0 0%
Maximum Green (s)	49 0	101 0	101 0	60	45 0	45 0	28 0	28 0	28 0	6 0	28 0	
Yellow Time (s)	5 0	4 9	4 9	4 9	4 9	4 9	47	4 7	47	47	47	
All-Red Time (s)	15	15	15	15	15	15	15	15	15	15	15	
Lost Time Adjust (s)	0 0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6 4	6 4	6 4	6 4	6 4	6.2	62	6.2	6.2	62	4 0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes			Yes								
Vehicle Extension (s)	3 0	5 0	5 0	3 0	5 0	5 0	4 0	4 0	4 0	3 0	4 0	
Recall Mode	None	None	None	None	None	None	None	None	None	None	None	
Walk Time (s)		7.0	7.0		7.0	7 0	7.0	7.0	7.0		7.0	
Flash Dont Walk (s)		12 0	12 0		11 0	11 0	21 0	21 0	21 0		21 0	
Pedestrian Calls (#/hr)		0	0		0	0	0	0	0		0	
Act Effct Green (s)	38 0	101 1	101 1	6.0	63 8	63 8	28 0	28 0	28 0	6.0	28 0	161 2
Actuated g/C Ratio	0 24	0 63	0.63	0.04	0.40	0.40	0 17	0 17	0 17	0 04	0 17	1 00
v/c Ratio	0.86	1 14	0 24	0 39	1 07	0 15	3 71	1 21	0 16	1 30	1 00	0 64
Control Delay	70 5	99 7	11 6	95 4	93 0	63	1281 7	172 7	35 4	266 7	115 8	2 1
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	70 5	99 7	11 6	95 4	93 0	6.3	1281 7	172 7	35 4	266 7	115 8	2 1
LOS	Е	F	В	F	F	Α	F	F	D	F	F	A
Approach Delay		87 7			87 6			474 4			43 8	
Approach LOS		F			F			F			D	
ntersection Summary												
Area Type	Other											
Cycle Length 166 2												
Actuated Cycle Length	161 2											
Natural Cycle 145												
Control Type Actuated-I	Uncoordinate	ed										
Maximum v/c Ratio 37	1											
ntersection Signal Delay	y 111 9				ntersection	on LOS	F					
ntersection Capacity Uti	lization 114	8%			CU Level	of Servi	ce H					
Analysis Period (min) 15												
Splits and Phases 3	Highway 1 8	& McKen	zie Avenu	ie					,	,		
<b>_≠</b> ø1			<b>←</b> ø2					$\perp$	<b>▶</b> ø7 1	<b>≸</b> ø8		
55.5 s			51.4 s					12	2.2 s 3	4.2 s		
								- 1				



2011 AM Peak Hour 1/31/2012 Baseline

Synchro 7 - Report Page 2

Synchro 7 - Report

Synchro 7 - Report

	_#	$\rightarrow$	7	~	<b>—</b>	€_	7	×	/	6	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	إوار	<b>^</b>	77	7	<b>^</b>	7	*	<b>↑</b>	7	36	<b>†</b>	7
Volume (vph)	720	1928	222	8	1585	15	222	91	15	56	257	1597
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	160 0		30 0	100 0		180 0	60 0		50 0	40 0		0.0
Storage Lanes	2		1	1		1	1		1	1		1
Taper Length (m)	7 5		7 5	7 5		7 5	7.5		7.5	7 5		7.5
Lane Util Factor	0 97	0 95	1 00	1 00	0 95	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Frt			0 850			0 850			0 850			0 850
Flt Protected	0 950			0 950			0 950			0 950		
Satd Flow (prot)	3335	3438	1538	1719	3438	1538	1719	1810	1538	1719	1810	1538
Flt Permitted	0 950			0 950			0 174			0 950		
Satd Flow (perm)	3335	3438	1538	1719	3438	1538	315	1810	1538	1719	1810	1538
Right Turn on Red			Yes			Yes			Yes			Yes
Satd Flow (RTOR)			62			16			17			334
Link Speed (k/h)		90			90			60			60	
Link Distance (m)		216 0			560 9			292 3			80 2	
Travel Time (s)		8 6			22 4			17 5			48	
Peak Hour Factor	0 90	0 96	0.81	0 40	0.87	0 88	0.86	0 73	0 88	0 88	0 94	0 92
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Adj Flow (vph)	800	2008	274	20	1822	17	258	125	17	64	273	1736
Shared Lane Traffic (%)	000	2000		20	TOLL		200	120		01	2.0	1100
Lane Group Flow (vph)	800	2008	274	20	1822	17	258	125	17	64	273	1736
Enter Blocked ntersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		7.2			7.2			3 6			3 6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4 8			4.8			4 8			4 8	
Two way Left Turn Lane												
Headway Factor	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (m)	2 0	10 0	2.0	2 0	10.0	2 0	2 0	10.0	2 0	2 0	10 0	2.0
Trailing Detector (m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Position(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Size(m)	20	0.6	2 0	20	0.6	20	2 0	0.6	20	20	0.6	2 0
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	OI-EX	OI-LX	OI-LX	OITEX	OITEX	OITEX	OI LX	OITEX	OITEX	OI · LX	OI · LX	OI-EX
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(m)	0.0	94	0.0	0.0	94	0.0	0.0	9 4	0.0	0.0	9 4	0 0
Detector 2 Size(m)		06			06			06			0.6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		CITEX			CITEX			CITEX			CITEX	
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot	0.0	Perm	Prot	0.0	Perm	Perm	0.0	Perm	Prot	0.0	Free
Protected Phases	1	6	reiili	5	2	reiili	reiiii	8	reiili	7	8	riee
Permitted Phases		0	6	5	2	2	8	0	8	/	0	Free
Detector Phase	1	6	6	5	2	2	8	8	8	7	8	riee
Switch Phase	1	б	б	5	2	2	8	8	8	/	8	
	6.0	10 0	10 0	6 0	10 0	10 0	7 0	7 0	7 0	6.0	7 0	
Minimum nitial (s)	12.5	25 4	25 4	12 4	24 4	24 4	34 2	34 2	34 2	12 2	34 2	
Minimum Split (s)	12.5	25 4	∠5 4	12.4	24 4	Z4 4	34 2	34 2	34 2	12.2	34 2	

	_#	$\rightarrow$	7	*	<b>←</b>	٧	7	×	/	6	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWF
Total Split (s)	42 5	108 4	108 4	18 0	84 4	84 4	29 2	29 2	29 2	18 2	29 2	0.0
Total Split (%)	24 4%	62 2%	62 2%	10 3%	48 4%	48 4%	16 8%	16 8%	16 8%	10 4%	16 8%	0.0%
Yellow Time (s)	5 0	4 9	4 9	4 9	4 9	4 9	4 7	47	47	47	47	
All-Red Time (s)	15	15	15	15	1 5	15	15	15	15	15	15	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0 (
Total Lost Time (s)	6 5	6 4	6 4	6 4	6 4	6 4	6 2	6 2	6 2	6 2	6 2	4 (
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes			Yes	Yes	Yes						
Recall Mode	None	None	None	None	None	None	None	None	None	None	None	
Act Effct Green (s)	36 0	111 6	1116	7 6	78 0	78 0	23 0	23 0	23 0	10 5	23 0	172 9
Actuated g/C Ratio	0 21	0 65	0 65	0 04	0 45	0 45	0 13	0 13	0 13	0 06	0 13	1 00
v/c Ratio	1 15	0 90	0 27	0 26	1 17	0 02	6 14	0 52	0 08	0 61	1 13	1 13
Control Delay	142 2	34 5	11 8	88 2	127 5	10 9	2361 3	78 6	25 3	103 3	161 9	73 2
Queue Delay	0 0	0.0	0 0	0 0	0.0	0 0	0.0	0.0	0.0	0.0	0 0	0.0
Total Delay	142 2	34 5	11 8	88 2	127 5	10 9	2361 3	78 6	25 3	103 3	161 9	73 2
LOS	F	C	В	F	F	В	F	Е	C	F	F	E
Approach Delay		60 4			126 0			1548 7			85 8	
Approach LOS		Е			F			F			F	
Queue Length 50th (m)	~177 4	346 7	34 2	7 2	~418 6	0.2	~179 4	43 3	0.0	23 1	~116 0	~1497
Queue Length 95th (m)	#220 7	#431 2	45 9	7 5	#435 8	53	#219 5	54 0	8 2	40 4	#179 9	#230 2
nternal Link Dist (m)		192 0			536 9			268 3			56 2	
Turn Bay Length (m)	160 0		30 0	100 0		180 0	60 0		50 0	40 0		
Base Capacity (vph)	695	2219	1015	115	1552	703	42	241	220	119	241	1538
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	(
Reduced v/c Ratio	1 15	0 90	0 27	0 17	1 17	0 02	6 14	0 52	0 08	0 54	1 13	1 13
ntersection Summary												
Area Type	Other											
Cycle Length 174 3												
Actuated Cycle Length 17	72 9											
Natural Cycle 145												
Control Type Actuated-Ur	ncoordinat	ed										
Maximum v/c Ratio 6 14												
ntersection Signal Delay					ntersectio							
ntersection Capacity Utiliz	zation 111	3%			CU Level	of Servi	ce H					
Analysis Period (min) 15												
<ul> <li>Volume exceeds capa</li> </ul>				finite								
Queue shown is maxin												
# 95th percentile volume				nay be lo	nger							
Queue shown is maxin	num after i	two cycle	S									
Splits and Phases 3 H	ighway 1	R McKon	zio Avoni	10								
	Igilway 1	210	TIC WACIII	16					<b>↓</b> <sub>a7</sub>	1/1	_	
<b>_</b> 7 ø1	0.4	ø2 • • •						- 1	<b>№</b> ø7	70	ø8 -	
42.5 s	84.	4 \$						- 4	8.2 \$	29.2	S	
<b>⊁</b> ø5 → ø6								- 1				
18 s 108.4 s												

2038 AM Peak Hour 1/31/2012 Baseline

	_#	<b>→</b>	7	-	<b>←</b>	٤	•	×	/	6	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	ሻሻ	<b>*</b>	7	*	<b>*</b>	*	*	<b>†</b>	7	*	<u></u>	77
Volume (vph)	621	2390	179	19	1200	71	155	315	42	69	268	898
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
	160 0	1900	30 0	100 0	1900	180 0	60.0	1900	50 0	40 0	1900	0.0
Storage Length (m)	2		30 0	100 0		100 0	1		1	40 0		1
Storage Lanes Taper Length (m)	7.5		7.5	7.5		7.5	7.5		7.5	7.5		7.5
Lane Util Factor	0 97	0 95	1 00	1 00	0 95	100	100	1 00	1 00	100	1 00	100
Frt	09/	0 95	0 850	1 00	0 95	0 850	1 00	1 00	0 850	100	1 00	0 850
	0 950		0 650	0.050		0 920	0.050		0.650	0.050		0 850
Fit Protected		0400	4500	0 950	0400	4500	0 950	4040	4500	0 950	4040	4500
Satd Flow (prot)	3335	3438	1538	1719	3438	1538	1719	1810	1538	1719	1810	1538
Flt Permitted	0 950	0.400	4500	0 950	0.400	4500	0 235	1010	4500	0 950	1010	4500
Satd Flow (perm)	3335	3438	1538	1719	3438	1538	425	1810	1538	1719	1810	1538
Right Turn on Red			Yes			Yes			Yes			Yes
Satd Flow (RTOR)			38			118			31			339
Link Speed (k/h)		90			90			60			60	
Link Distance (m)		216 0			560 9			292 3			319 1	
Travel Time (s)		8 6			22 4			17 5			19 1	
Peak Hour Factor	0 92	0 97	0 76	0 75	0 82	0 71	0 93	0 83	0 91	0 83	0 85	0 91
Growth Factor	130%	130%	130%	130%	130%	130%	130%	130%	130%	130%	130%	130%
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Adj Flow (vph)	878	3203	306	33	1902	130	217	493	60	108	410	1283
Shared Lane Traffic (%)												
Lane Group Flow (vph)	878	3203	306	33	1902	130	217	493	60	108	410	1283
Enter Blocked ntersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		7 2			72			3 6			3 6	
Link Offset(m)		0.0			0.0			0.0			0.0	
Crosswalk Width(m)		4.8			48			48			4.8	
Two way Left Turn Lane												
Headway Factor	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (m)	2 0	10 0	2.0	2 0	10 0	2.0	2 0	10 0	2.0	2.0	10 0	2 0
Trailing Detector (m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Position(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Size(m)	2 0	0.6	2 0	2 0	0.6	2 0	2 0	0.6	2 0	2 0	0.6	2 0
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel	OI-LX	OILLX	OILLX	OILEX	OILLY	OILEX	OILEX	OILEX	OILLX	OITEX	OILLX	OI-LX
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	0.0	9 4	0.0	0.0	9 4	0.0	0.0	9 4	0.0	0.0	9 4	0.0
Detector 2 Position(m)		06			06			06			06	
Detector 2 Size(m)												
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel		0.0			0.0			0.0			0.0	
Detector 2 Extend (s)	-	0 0	D:	_	0 0	_		0 0		-	0 0	_
Turn Type	Prot		Perm	Prot		Perm	Perm		Perm	Prot		Free
Protected Phases	1	6		5	2			8		7	8	
Permitted Phases			6			2	8		8	_		Free
Detector Phase	1	6	6	5	2	2	8	8	8	7	8	
Switch Phase												
Minimum nitial (s)	6 0	10 0	10 0	6 0	10 0	10 0	7 0	7 0	7 0	6 0	7 0	

	_#	$\rightarrow$	7	*	<b>—</b>	٧	7	×	/	6	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Minimum Split (s)	12 5	25 4	25 4	12 4	24 4	24 4	34 2	34 2	34 2	12 2	34 2	
Total Split (s)	24 0	69 6	69 6	12 4	58 0	58 0	50 0	50 0	50 0	13 0	50 0	0.0
Total Split (%)	16 6%	48 0%	48 0%	8 6%	40 0%	40 0%	34 5%	34 5%	34 5%	9 0%	34 5%	0 0%
Yellow Time (s)	5 0	4 9	4 9	4 9	4 9	4 9	4 7	47	4 7	47	4 7	
All-Red Time (s)	15	15	15	15	15	15	15	15	15	15	15	
Lost Time Adjust (s)	0 0	0.0	0 0	0 0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6 5	6 4	6 4	6 4	6 4	6 4	62	62	6 2	62	62	4 0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lead	Lag	
_ead-Lag Optimize?	Yes			Yes								
Recall Mode	None	None	None	None	None	None	None	None	None	None	None	
Act Effct Green (s)	17 5	65 7	65 7	6 0	51 6	51 6	43 8	43 8	43 8	6 8	43 8	145 0
Actuated g/C Ratio	0 12	0 45	0 45	0 04	0 36	0 36	0 30	0 30	0 30	0 05	0 30	1 00
v/c Ratio	2 18	2 06	0 43	0 46	1 56	0 21	1 70	0 90	0 12	1 33	0 75	0.83
Control Delay	566 9	502 3	26 2	89 0	287 0	7 5	376 1	69 4	20 7	262 2	55 6	5 5
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	566 9	502 3	26 2	89 0	287 0	7 5	376 1	69 4	20 7	262 2	55 6	5 5
LOS	F	F	С	F	F	Α	F	Е	С	F	Е	A
Approach Delay		482 0			266 2			152 0			32 3	
Approach LOS		F			F			F			С	
Queue Length 50th (m)	~218 7	~809 5	55 7	10 0	~425 7	24	~95 8	143 4	63	~42 4	112 2	0.0
Queue Length 95th (m)	#261 0	#8415	65 0	18 4	#409 2	8 0	#1503	#1797	17 9	#75 0	142 2	0.0
nternal Link Dist (m)		192 0			536 9			268 3			295 1	
Turn Bay Length (m)	160 0		30 0	100 0		180 0	60 0		50 0	40 0		
Base Capacity (vph)	403	1557	718	71	1223	623	128	547	486	81	547	1538
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	2 18	2 06	0 43	0 46	1 56	0 21	1 70	0 90	0 12	1 33	0 75	0 83
ntersection Summary												
Area Type	Other											
Cycle Length 145												
Actuated Cycle Length 14	5											
Natural Cycle 145												
Control Type Actuated-Ur	coordinat	ed										
Maximum v/c Ratio 2 18												
ntersection Signal Delay					ntersectio							
ntersection Capacity Utiliz	ation 141	4%			CU Level	of Servi	ce H					
Analysis Period (min) 15												
<ul> <li>Volume exceeds capa</li> </ul>	city, queue	e is theor	etically in	finite								
Queue shown is maxim	num after t	two cycle	S									
# 95th percentile volume	exceeds	capacity,	queue m	ay be lo	nger							
Queue shown is maxim	num after t	two cycle	S									
Splits and Phases 3 H	ighway 1 a	& McKen	zie Avenu	е								
J 4-1			210 7 11 0110			<b>□</b>	. 1	<b>∕</b> ø8				
24 s 58 s	ø2 :					13 s	ø7 <b>7</b>					
<b>✓</b> ø5 → ø6						T						

2038 AM Peak Hour 1/31/2012 Baseline

Synchro 7 - Report Page 2

Synchro 7 - Report

	_#	<b>→</b>	7	<b>_</b>	<b>←</b>	٤	7	×	/	6	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Lane Configurations	ሾሾ	<b>^</b>	7	*1	<b>^</b>	7	ሻ	<b>†</b>	7	75	<b>†</b>	7
Volume (vph)	720	1928	222	8	1585	15	222	91	15	56	257	1597
deal Flow (vphpl)	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900	1900
Storage Length (m)	160 0	1000	30 0	100 0		180 0	60 0	1000	50 0	40 0	1000	0.0
Storage Lanes	2		1	1		1	1		1	1		1
Taper Length (m)	7.5		7.5	7.5		7.5	7.5		7.5	7.5		7.5
Lane Util Factor	0 97	0 95	1 00	1 00	0.95	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Frt	0 01	0 00	0 850	100	0 00	0 850	100	1 00	0 850	1 00	100	0 850
Flt Protected	0 950		0 000	0 950		0 000	0 950		0 000	0 950		0 000
Satd Flow (prot)	3335	3438	1538	1719	3438	1538	1719	1810	1538	1719	1810	1538
Flt Permitted	0 950	0400	1000	0 950	0400	1000	0 323	1010	1000	0 950	1010	1000
Satd Flow (perm)	3335	3438	1538	1719	3438	1538	584	1810	1538	1719	1810	1538
Right Turn on Red	3333	3430	Yes	1110	3430	Yes	304	1010	Yes	1113	1010	Yes
Satd Flow (RTOR)			53			15			22			294
Link Speed (k/h)		90	55		90	10		60	22		60	234
Link Distance (m)		216 0			560 9			292 3			80 2	
Travel Time (s)		86			22 4			17.5			4 8	
Peak Hour Factor	0 90	0.96	0.81	0 40	0.87	0 88	0 86	0.73	0 88	0 88	0 94	0 92
Growth Factor	130%	130%	130%	130%	130%	130%	130%	130%	130%	130%	130%	130%
Heavy Vehicles (%)	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%	5%
Adj Flow (vph)	1040	2611	356	26	2368	22	336	162	22	83	355	2257
Shared Lane Traffic (%)	4040	0044	050	00	0000		000	400	00	00	0.55	0057
Lane Group Flow (vph)	1040	2611	356	26	2368	22	336	162	22	83	355	2257
Enter Blocked ntersection	No	No	No	No	No	No	No	No	No	No	No	No
Lane Alignment	Left	Left	Right	Left	Left	Right	Left	Left	Right	Left	Left	Right
Median Width(m)		7 2			7 2			3 6			3 6	
Link Offset(m)		0 0			0 0			0 0			0 0	
Crosswalk Width(m)		4 8			4 8			4 8			4 8	
Two way Left Turn Lane												
Headway Factor	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00	1 00
Turning Speed (k/h)	25		15	25		15	25		15	25		15
Number of Detectors	1	2	1	1	2	1	1	2	1	1	2	1
Detector Template	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Leading Detector (m)	2 0	10 0	2 0	2 0	10 0	2 0	2 0	10 0	2 0	2 0	10 0	2 0
Trailing Detector (m)	0 0	0.0	0 0	0 0	0.0	0 0	0.0	0 0	0.0	0.0	0 0	0.0
Detector 1 Position(m)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Size(m)	2 0	0 6	2 0	2 0	0.6	2 0	2 0	0 6	2 0	2 0	0 6	2 0
Detector 1 Type	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex	CI+Ex
Detector 1 Channel												
Detector 1 Extend (s)	0.0	0.0	0.0	0.0	0.0	0 0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 1 Queue (s)	0 0	0.0	0.0	0.0	0.0	0 0	0.0	0 0	0.0	0.0	0.0	0.0
Detector 1 Delay (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Detector 2 Position(m)		94			94			9 4			9 4	
Detector 2 Size(m)		0.6			0.6			0.6			0.6	
Detector 2 Type		CI+Ex			CI+Ex			CI+Ex			CI+Ex	
Detector 2 Channel												
Detector 2 Extend (s)		0.0			0.0			0.0			0.0	
Turn Type	Prot		Perm	Prot		Perm	Perm		Perm	Prot		Free
Protected Phases	1	6	, 31111	5	2	, 31111	. 31111	8	. 31111	7	8	. 700
Permitted Phases		,	6	J	_	2	8	3	8		,	Free
Detector Phase	1	6	6	5	2	2	8	8	8	7	8	1100
Switch Phase		0	0	3			0	3	0	,	0	
Minimum nitial (s)	6.0	10 0	10 0	6.0	10 0	10 0	7 0	7.0	7.0	6.0	7.0	
wiii iii iii iii (ə)	0.0	10 0	10 0	0.0	10 0	10 0	7 0	7 0	7 0	0.0	7 0	

	_#	-	7	*	<b>—</b>	€_	•	×	/	6	×	4
Lane Group	EBL	EBT	EBR	WBL	WBT	WBR	NEL	NET	NER	SWL	SWT	SWR
Minimum Split (s)	12 5	25 4	25 4	12 4	24 4	24 4	34 2	34 2	34 2	12 2	34 2	
Total Split (s)	26 0	68 4	68 4	12 4	54 8	54 8	52 0	52 0	52 0	12 2	52 0	0.0
Total Split (%)	17 9%	47 2%	47 2%	8 6%	37 8%	37 8%	35 9%	35 9%	35 9%	8 4%	35 9%	0.0%
Yellow Time (s)	5 0	4 9	4 9	4 9	4 9	4 9	4.7	4.7	47	47	4.7	
All-Red Time (s)	15	15	15	15	15	15	15	15	15	15	15	
Lost Time Adjust (s)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Lost Time (s)	6.5	6.4	6.4	6.4	6.4	6 4	6.2	6.2	6.2	6.2	62	4 0
Lead/Lag	Lead	Lag	Lag	Lead	Lag	Lag	Lag	Lag	Lag	Lead	Lag	
Lead-Lag Optimize?	Yes			Yes	Yes	Yes			3			
Recall Mode	None	None	None	None	None	None	None	None	None	None	None	
Act Effct Green (s)	19.5	67 0	67.0	6.0	48 4	48 4	45.8	45 8	45 8	6.0	45 8	145 0
Actuated g/C Ratio	0 13	0.46	0.46	0.04	0.33	0.33	0.32	0.32	0.32	0 04	0.32	1 00
v/c Ratio	2 32	1 64	0.48	0.37	2 06	0.04	1 83	0 28	0 04	1 17	0 62	1 47
Control Delay	625 7	321 6	26 3	82 3	507 6	17 6	422 0	39 0	12 4	216 6	47 9	227 0
Queue Delay	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Total Delay	625 7	321 6	26 3	82 3	507 6	17 6	422 0	39 0	12 4	216 6	47 9	227 0
LOS	F	F	C	F	F	В	F	D	В	F	D	- F
Approach Delay		374 3	0		498 5	D		285 3	-		203 1	'
Approach LOS		5/45 F			430 S			200 5 F			200 F	
Queue Length 50th (m)	~263 6	~618 9	66 5	7.8	~592 0	1./	~1528	36 8	0.0	~29 7	91 6	~450 7
Queue Length 95th (m)		#657 2	83 6	8 1			#204 2	45 0	66	#64 9	127 1	#528 5
nternal Link Dist (m)	#500 5	192 0	00 0	0 1	536 9	13	#207 Z	268 3	0.0	#04 3	56 2	#5200
Turn Bay Length (m)	160 0	132 0	30 0	100 0	550 5	180 0	60 0	200 0	50 0	40 0	30 2	
Base Capacity (vph)	449	1588	739	71	1148	523	184	572	501	71	572	1538
Starvation Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Spillback Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Storage Cap Reductn	0	0	0	0	0	0	0	0	0	0	0	0
Reduced v/c Ratio	2 32	1 64	0 48	0 37	2 06	0.04	1 83	0 28	0 04	1 17	0 62	1 47
	2 32	104	0 40	0.51	2 00	0 04	1 00	0 20	0 04	1 17	0 02	1 47
ntersection Summary Area Type	Other											
Cycle Length 145	Other											
Actuated Cycle Length 14	5											
	o .											
Natural Cycle 145 Control Type Actuated-Un	coordinat	od										
Maximum v/c Ratio 2 32	COORDINAL	eu										
	252.0				ntersectio	2010	-					
ntersection Signal Delay		20/			CU Level							
ntersection Capacity Utiliz	auon 130	370			CO Level	or service	шеп					
Analysis Period (min) 15	aibe accass	io theory	atio allu int	linita								
<ul> <li>Volume exceeds capa</li> </ul>				inite								
Queue shown is maxim				arr barlar								
# 95th percentile volume				ay be lo	nger							
Queue shown is maxim	ium atter i	wo cycle:	S									
Splits and Phases 3 Hi	ighway 1	& McKenz	zie Avenu	е								
_ <b>≠</b> <sub>ø1</sub> ◆	21					<b>         </b>	7 1	. ø8				
	ø2 l.8 s					12.2	52 :	08				
_						$\top$						
ø5 ≠ ø6 12.4 s   68.4 s												

2038 PM Peak Hour 1/31/2012 Baseline Synchro 7 - Report

### Appendix B

### 2011 Existing Condition Tables

Table B1 Highway 1 / Admirals Road / McKenzie Avenue Intersection Levels of Service Summary

			• • •		<b>-</b>	<b></b> . ,						
	Highway 1						Admirals Road / McKenzie Avenue					
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0.86	1.14	0.24	0.39	1.07	0.15	3.71	1.21	0.16	1.30	1.00	0.64
Average Delay (veh/s)	70.5	99.7	11.6	95.4	93.0	6.3	1281.7	172.7	35.4	266.7	115.8	2.1
LOS	E	F	В	F	F	Α	F	F	D	F	F	A
95th Percentile Queue (m)	133.4	575.1	34.5	16.6	311.7	5.9	156.6	206.6	19.9	69.2	166.2	0.0
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	1.15	0.90	0.27	0.26	1.17	0.02	6.14	0.52	0.08	0.61	1.13	1.13
Average Delay (veh/s)	142.2	34.5	11.8	88.2	127.5	10.9	2361.3	78.6	25.3	103.3	161.9	73.2
LOS	F	С	В	F	F	В	F	E	С	F	F	E
95th Percentile Queue (m)	220.7	431.2	45.9	7.5	435.8	5.3	219.5	54.0	8.2	40.4	179.9	230.2

Not Responsive

Not Responsive
2038 Future Conditions
Table B12 Highway 1 / Admirals Road / McKenzie Avenue Intersection Levels of Service Summary
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Not Responsive

# **TECHNICAL MEMORANDUM**

# **Appendix D - Stakeholder Comments**



Associated Engineering (B.C.) Ltd. Suite 300 - 4940 Canada Way Burnaby, B.C., Canada, V5G 4M5

TEL: 604.293.1411 FAX: 604.291.6163 www.ae.ca

January 11, 2012

File: 2011.2907.E.01.00

Patrick Hill
Transportation Planner
Ministry of Transportation and Infrastructure
7818 - Sixth Street
Burnaby, BC
V3N 4N8

Re: AGENCY STAKEHOLDER MEETING NO. 1 - STAKEHOLDER QUESTIONNAIRE SUMMARY

Dear Mr. Hill:

One of the main objectives of this study is to identify key issues and limitations existing at the Highway 1 and Admirals / McKenzie intersection as well as the broader study area. A two-step stakeholder engagement process has been designed to help obtain relevant input from key agency stakeholders at the early planning stages of the project. The following agency stakeholders were identified at this stage of the study:

- BC Ministry of Transportation;
- Capital Region District (CRD);
- BC Transit;
- Insurance Corporation of British Columbia (ICBC);
- City of Victoria;
- District of Saanich; and
- Town of Royal View.

The first stakeholder meeting was held on November 24, 2011 to familiarize the stakeholders with the study objectives and scope, and gain input and insight from each on the issues, limitation and needs of the study intersection. Following this meeting, stakeholders were asked to complete a questionnaire documenting their insight into relevant issues with respect to the following input criteria by 8 December 2011:

- Traffic Options;
- Access / Mobility;
- Network Effects;
- Safety;
- Pedestrian / Cyclists;
- Transit;
- Galloping Goose Trail;
- Property Requirements;
- Land Use and Development;
- Environment; and
- Other.



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Ministry of Transportation and Infrastructure
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Together with the Stakeholder Consultation Meeting No. 1 meeting notes, comments and considerations from the different agencies are recorded.

#### SUMMARY OF COMMENTS

For the purposes of the summary below, "the Intersection" denotes the Highway 1 and McKenzie / Admirals intersection. In addition, Highway 1 is considered an east-west corridor while McKenzie Avenue-Admirals Road is considered a north-south corridor.

#### 1 TRAFFIC OPERATIONS

#### 1.1 MCKENZIE / ADMIRALS / HIGHWAY 1 INTERSECTION

- Congestion problems can be found for eastbound movements (AM peak) and westbound movements (PM peak) on Highway 1.
- Southbound queue for McKenzie Avenue during the PM peak hour can extend as far as Carey Road / Glanford Avenue.
- Southbound movements (at the Intersection) are in conflict with Galloping Goose Trail
  users.
- Northbound movements pose geometric problems and signal optimization problems (lack
  of adequate green time), which provoke drivers to run red lights and introduce safety
  concerns.
- Signalization of Galloping Goose Trail may be an option for increasing efficiency for traffic on the North Leg of the Intersection.
- Eastbound bus stop on Highway 1 (just east of the Intersection) promotes a weaving movement for vehicles traversing northbound right at the Intersection while buses diverge/merge from the bus station pull-out.
- Westbound congestion during PM peak hour blocks the bus jump lane (which only has space for approximately 8 – 10 vehicles).
- Westbound merge lane on Highway 1 west of the Intersection ends just short of the pedestrian overpass, creating a substandard merge (length) movement.
- Eastbound transit priority signalling during the AM peak hour would help decrease congestion.
- Recent modelling by CRD has shown that one option, the flyover, for the eastbound
  Highway 1 traffic turning left to go northbound on McKenzie Avenue, does not significantly
  ease congestion in the AM peak. It only eases congestion in the eastbound direction in the
  PM peak thus slightly reducing congestion on Helmcken Road / Wilkinson Road / Island
  Highway.



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Not Responsive

#### 2 ACCESS MOBILITY

- There are three schools (Ecolé Marigold School, Spectrum Community School Theatre, and St. Joseph's Catholic School) housed on the northwest quadrant of the Intersection. The safest route for students to access the eastbound bus station east of the Intersection (on Highway 1) requires use of the pedestrian overpass immediately southwest of the schools. However, this pedestrian overpass is inconveniently placed for access to the bus stop and requires much walking for students.
- There will be no direct access to Highway 1 for to developments on the highway
- Available information also from CRD Transportation Corridor Plan (2010).

#### 3 NETWORK EFFECTS



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#### 4 SAFETY

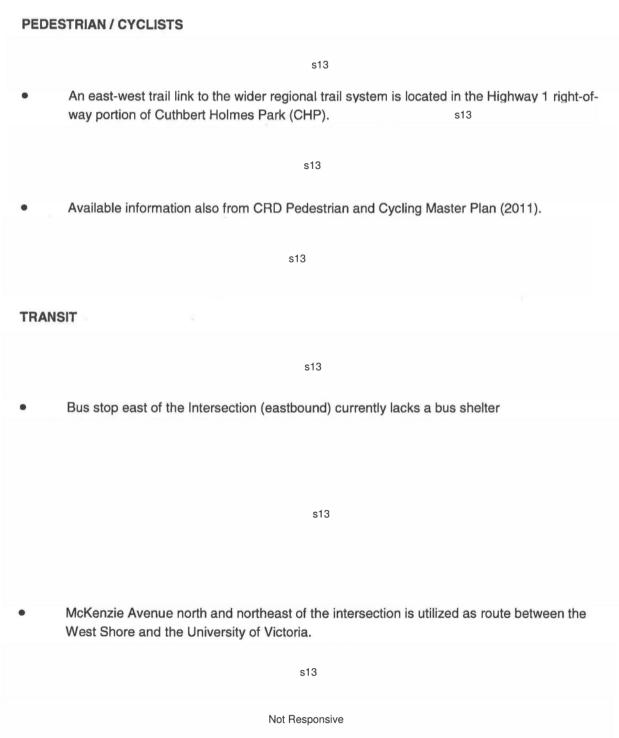
- A cursory review of the claims-based collision data at ICBC indicates that on average, there are in excess of 50 collisions at the intersection per year. Given this historical level of collision frequency, it is expected that there is considerable potential for improvements to the level of safety performance at this location. In formulating improvement options, it will be important to quantify the expected safety improvement relative to the baseline conditions. Further, it will be important to undertake detailed collision analysis to search for deviant and statistically significant patterns within the data to identify important collision characteristics that are over-represented (or under-represented) in the data. This will ensure that any proposed improvement option will effectively address the existing safety deficiencies.
- At the Intersection, though the accident rate is not very high for pedestrian / cyclists, the accidents are generally severe.

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#### 7 GALLOPING GOOSE TRAIL

- Capital Regional District Pedestrian and Cycling Master Plan considers Galloping Goose
   Trail to be the Primary Inter-Municipal Cycling Network(PIC).
- CRD Parks will be made aware of any work to the intersection.
- Improvements to the Intersection to incorporate a separated route for the Galloping Goose Trail.

#### 8 PROPERTY REQUIREMENTS

 Should property requirements be needed, First Nations consultation will be required and will include multiple local First Nations groups.

#### 9 LAND USE AND DEVELOPMENT

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### 10 ENVIRONMENT

The area of the Intersection is on the boundary between the Colquitz watershed and lands draining directly to Portage Inlet. In either case, stormwater from this area is entering the estuary of the Colquitz River, which has high environmental sensitivity and value.
Currently, stormwater treatment of highway runoff is limited.

s13

Cuthbert Holmes Park has recently had an environmental review as part of a park planning process. The report is attached to provide additional information on the vegetation and wildlife communities of that corner of the interchange which is located next to Cuthbert Holmes Park. Of particular significance is the Great Blue Heron colony located within the park approximately 200 m from the highway. In 2010 there were 66 active nests in Cuthbert Holmes Park. This species is blue-listed in British Columbia. The Heron are commonly seen feeding within the river and estuary.

Also utilizing Colquitz River is a genetically distinct population of coho salmon. The Colquitz is an indicator stream for Fisheries and Oceans and a fish counting fence is maintained by a local fish and game club. Average escapement for the Colquitz is approx. 300 fish.

Numerous other wildlife species are known to frequent the Colquitz estuary and riparian area within Cuthbert Holmes Park. Please see the attached report for an inventory of wildlife within the park.

A Garry oak woodland, which forms part of the Sensitive Ecosytem Inventory (SEI) prepared by the Ministry of Environment and Environment Canada. Protection and restoration of this woodland is desirable. Protections of the natural hedgerows along the Galloping Goose corridor are also desirable.



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### 11 OTHER

 Ongoing operational complaints from some residents on Portage Road, west of the McKenzie intersection, about lack of barrier for sound and safety mitigation on Hwy 1.

Consideration will be given to the above comments during the improvement / design process. Should you have any comments, please do not hesitate to contact Daniel Fung, P.Eng. at 604.293.1411.

Yours truly,

Daniel Fung, P.Eng.

Transportation Planning Engineer

DF/sj

### **TECHNICAL MEMORANDUM**

## **Appendix E - Collision Data**

Title: **Intersection Crashes** 

Location: Trans-Canada Hwy & Admirals/McKenzie Intersection

Period: 2006 to 2010

**ICBC** Reported By:

Count of SEVERITY	SE	VERITY	
YEAR	CASUALTY	PROPERTY DAMAGE ONLY	<b>Grand Total</b>
2006	30	27	57
2007	28	35	63
2008	29	31	60
2009	22	26	48
2010	35	39	74
<b>Grand Total</b>	144	158	302
	48	52	

Definitions:

CASUALTY: Crash incident resulting in injury or fatality

PROPERTY DAMAGE ONLY: Crash incident resulting in material damages to vehicles with no injuries or fatalities Copyright

Intersection Crashes Trans-Canada Hwy & Admirals/McKenzie Intersection 2006 to 2010 ICBC Location:

Period: Reported By:

INCIDENT_ID	VEHICLES	DATE	Day of Wee	e <b>k</b> TIME	Day o	YEAR	MONTH	TIME CATEGORY	INJURED VICTIMS	SEVERITY	CRASH CONFIGURATION	STREET ON	CROSS STREET	LATITUDE	LONGITUDE	INCIDENT DESCRIPTION  Report 0001 INSD N/B ADMIRALS RD, LN ?- TP VEH. S/B
																MCKENZIE(ADMIRALS TURNS INTO MCKENZIE)- LT GREEN- TP ATTEMPTED TO MKE L/TURN - INSD'S L/FRT BUMPER
																STRUCK TP'S R/FRT BUMPER-ALL EMERG VEH. ATTD.
																Report 0002 INSD'S 7/8 ADMIRALS ATTPD TO MKE L/TURN ONTO TRANSCOA HWY-TP VEH. IN OPPOSITE DIRECTION-
006500565	2	02/04/2007	2.00	1015	Mond	200°	7 APRIL	9 01-12 00	1	CASUALTY	CONFLICTED	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	INSD PROCEEDED TO MKE L/TURN- ALL EMERG VEH. ATTO Report 0001 INS 78 ON ADMIRALS IN LEFT TURN LANE. TP
																REVERSING DUE TO VEH AHEAD REVERSING AS FIRE TRUCK
																WAS COMING. TP REVERSED INTO HOOD, FROM TP DROP GATE ;Report 0002 REVERSED INTO TP VAN NO DAMGE
006610479	2	11/06/2007	2.00	1110	Mond	200	7 JUNE	9 01-12 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	TO THIS VEHICLE. TP HAS MINOR Report 0001 INSD E/B ADMIRALS IN L 1/3. TP E/B
																ADMIRALS IN FRONT OF INSD. L 1 TURN RIGHT ONTO
																TRANS CDA. TP STOPPED THEN REVERSED IN ORDER TO CHANGE INTO L 2 TO GO STRAIGHT. TP BACKED INTO INSD
																F/E.; Report 0002 INS NB ON ADMIRALS. TP BEHIND. INS REVERSED INTO. INS REAR BUMPER MET TP'S FRONT HOOD
006858499	2	17/12/2007	2.00	1800	Mond	la 200	7 DECEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	Report 0001 INS SEB IN ADMIRALS, LL/1, IMMEDIATELY
																AFTER MAKING R/TURN ONTO ADMIRALS. INS LOST CONTROL & WENT INTO A DITCH. SPEED UNDER 30MPH.
006462015	1	28/03/2007	4.00	0100	Wedn	200	MARCH .	0 01-3 00	1	CASUALTY	CONFLICTED	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	NO AMB/FIRE. POL ATTENDED.
																Report 0001 AFTER 1ST MVA CLAIM # XXXXXX 5 INSD STOPPED BUT WAS REARENDED BY TP VEH DIRECTLY
																BEHIND WHO SPUN INSD ; Report 0002 INS E/B ADMIRALS 1/1, TP IN FRONT OF INS LOCKED UP BRAKES, SLID
																SIDEWAYS, INS HIT TP. TP2 BEHIND INS ALSO SLID AND HIT TP. INS DMG TO LF HEADLIGHT, HOOD, FLUID
007355023	2	13/12/2008	7.00	2100	Satur	200	DECEMBER	18 01-21 00	1	CASUALTY	CONFLICTED	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	LEAKING.;
																Report 0001 FAX RPT FROM PREFERRED FLEET CUSTOMER CENTRAL ISL DISTRIB. DRIVER 7/B ADMIRALS, SHIFTING TO
																CURB LANE, CLIPPED RT REAR OF TP VEH THAT WAS AHEAD, ACC XXXXXX : Report 9092 MVAINS DRVR
																7/ADMIRALS RD,L1/1 STOPPED@LITE-TP BEHIND INS-TP TRIED TO SQUEEZE INBETWEEN INSACURB-TP L MID-
																SECTION STRUCK INS R SIDE OF BOX-NO WITNESSES-NO
008206591	2	24/09/2010	6.00	1330	Friday	y 2010	SEPTEMBER	12 01-15 00	1	CASUALTY	CONFLICTED	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	Report 0001 INS PROCEEDING NE ADMIRALS . T/P AHEAD
																OF INS. INS ,T/P STOPPED IN TRAFFIC FOR LIGHT. WHEN LIGHT CHANGED, TRAFFIC PROCEEDED. INS HEARD SIREN.
006921643	1	19/01/2008	7.00	1238	Satur	200	BJANUARY	12 01-15 00	0	PROPERTY DAMAGE ONLY	HEAD ON	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	T/P STOPPED SUDDENLY & INS R/E T/P.
																Report 0001 INS N/B ON ADMIRALS RD TO MERGE RIGHT
																ONTO TRANS-CANADA HWY - TP N/B DIRECTLY BEHD INS - INS STOPPED FOR CYCLIST - TP REAR ENDED INS ;Report
																0002 INS WAS MERGING ONTO MCKENZIE FROM THE HWY.  TP WAS DIRECLTY IN FRONT OF INS STOPPED FOR PED.
008303372	2	26/12/2010	1.00	1330	Sunda	a 201	DECEMBER	12 01-15 00	1	CASUALTY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	INS FAILED TO STOP AND INS F/BUMPER HIT TP R/BUMPER REPORT 0001 INS TRAVELLING S ON ADMIRALS ST. AS INS
																WAS ATTEMPTING A RIGHT TURN ON DOUGLAS STREET TP
																VEH REAR ENDED INS. INS VEH WAS PUSHED A FEW FEET FORWARD. ;Report 0002 INS 7/B ADMIRALS, TP MERGING
006327609	2	04/12/2006	2.00	1300	Mond	200	5 DECEMBER	12 01-15 00	1	CASUALTY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	LANE ON ADMIRALS, STOPPED, INS CONTINUED ON AND R/E TP. INS DMG TO F BUMPER. TP DMG TO R BUMPER.
				Т	Т	Т										Report 0001 INSD 7/B ON ADMIRALS IN L1/3 INSD MAKING R/TURN IN OWN R/TURN LANE. TP AHEAD OF INSD. TP DID
																NOT KNOW THEY HAD OWN LANE, TP STPD STARTED TO GO THEN STPD AGAIN, INSD REAR ENDED TP : Report 0002
																INS ADMIRALS IN THE MERGING LANE ONTO HWY 1, TP
006668847	2	06/08/2007	2.00	0915	Mond	200	AUGUST	9 01-12 00	2	CASUALTY	REAR END	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	WAS DIRECTLY BEHIND INS, INS SLOWED DOWN AND TP REARENDED INS.;
																Report 0001 INSD N/B ADMIRALS RD,LN 2/2-TP VEH. BEHIND INSD -TP R/E INSD(SLIGHT BUMP)-NO INJURIES
																Report 0002 INSD WAS ON ADMIRALS ROAD.TP WAS STOPPED DIRECTLY INFRONT OF INSD. INSD ROLLED INTO
007065984	2	12/05/2008	2.00	1630	Mond	200	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	TP REAR BUMPER. NO POLICE
																Report 0001 INSD IN MERGE LANE WAITING TO MAKE R/TURN, R/E TP WHO WAS DIRECTLY IN FRONT, 2 VEH
																INVOLVED. NO INJURY.BOTH PARTIES EXCHANGED INFO. Report 0002 INSD E/B ON ROADWAY, TP DIRECTLY
																BEHIND INSD, INSD WENT TO TURN RIGHT BUT STOPPED FOR TRAFFIC, TP R/ENDED INSD, NOT PUSHED INTO
007514388	2	13/04/2009	2.00	1110	Mond	200	APRIL	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	ANYONE.
																Report 0001 INSD STPD FOR MVA AHEAD, BUT WAS R/E BY T/P XXXXXX , INSD THEN PUSHED INTO T/P2(????). INSD
																THEN HIT AGAIN BY T/P XXXXXX < INSD THEN PUSHE DINTO ????INSD FELT . IMPACTS :Report 0002 INS STPD
																ON ROADWAY AFTER MVA.S. TP1 XXXXXX R/ENDS INS INS VEH THEN SLIDS DOWN L/SIDE OF TP2 XXXXXX
					.l							ADMIRALS RD				CORNER CAUSING DING TO INS ENTIRE R/SIDE SCRAPED AND MIRROR BROKEN.
008338852	2	22/11/2010	2.00	1100	Mond	201	NOVEMBER	9 01-12 00	0	PROPERTY DAMAGE ONLY	KEAK END	ADMIKALS KD	TRANS-CANADA HWY	48.45967200000	-123,40468100000	
																Report 0001 MVA - INS N/B L 1/1 ADMIRALS ROAD. TP STOPPED IN FRNT OF INS FOR TRAFFIC. INS ATTENTION
006483967	,	13/03/2007	3.00	1835	Tues	200	MARCH	18 01-21 00	0	PROPERTY DAMAGE ONLY	DEAR END	ADMIRALS RD	HWY 1	48.45967200000	-123.4046810000	DIVERTED MOMENTARILY & INS APPLIED BRAKES, HOWEVER NOT ABLE TO STOP & REARENED TP. NO WITNESSES.
000-103907	-	23/03/2007	5.00	1033	Turest	200	- SPACE	10 01-51 00		THE SERVICE OFFI	The same of the sa	HUTTINNUS NU		10.73907230000	223.7070010000	Report 0001 WEB REPORT RO WAITING AT R/LITE
																STOPPED. TP BEHIND R/E INSD.; Report 0002 INSD ON ADMIRALS RD IN LN 1/1. TP ALSO ON ADMIRALS RD IN LN
																1/1, DIRECTLY IN FRONT OF INSD. INSD THOUGHT TP WAS GONNA GO THROUGH LIGHT. TP STOPPED AND INSD
006453023	2	28/02/2007	4.00	0835	Wedn	200	7 FEBRUARY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	R/ENDED TP.TP NOT PUSHED INTO ANY OTHER VEHS.  Report 0001 INSD ON ADMIRALS STOPPED AT RED LIGHT.
																TP BEHIND INSD . INSD WENT TO GO WHEN TP
																REARENDED INSD CAUSING REAR BUMPER DMG.; Report 0002 BOTH VEHS N/B ON ADMIRALS RD IN SAME LANE.
007318178	2	19/11/2008	4.00	0740	Wedn	200	B NOVEMBER	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	TP STOPPED FOR RED LITE WHEN INS R/E TP VEH. TP NOT PUSHED INTO ANY OTHER VEHS.;

008129315	2	07/07/2010	4.00	1700	Wedn	2010	3ULY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	Report 0001 INS S/B MACKENZIE IN L1/2. TO S/B IN L2/2 BESIDE INS. INSD S LARE HEADS TO THE HAY. TRAFFIC IN FRONT OF IT STOP, THE FORCES HIMSELF BETWEEN INS & VEH IN FRONT. INSD'S FIBUMPER HIT THE RYBUMPER. NO WITHESESS. REPORT 0002 IN TRAVELLING ON MAJOR MACKENZIE'S TIPD AT A RED LIGHT, TO TRAVELLING ON SAME DB BEHIND INS, TO PERMO INS. NO POLICE:
008257693	2	24/11/2010	4.00	1430	Mada	2010	NOVEMBER	12.01-15.00		CASUALTY	REAR END	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	REPORT COOL. THIS EVE ON A ROMINALS IN 1,27, THE EVE ON A MOMERA'S IN 1,22 EMHOD THIS, THE EVE ON A MOMERA'S IN 1,22 EMHOD THIS, THE EVE ON A MOMERA'S IN 1,22 EMHOD THIS, THE STOP AT LICHT, THE REND THE PUBLIC THE TOTAL THE STOP AT LICHT, THE REND TOOCH IN THE TOTAL THE STOP AND THE COLL. THIS NEW ADMINALS SED IN 1,23 STOP TO MOMERA THE TO STOCK IN STOP OF THE TOTAL THE TOT
	3				evedn											Report 0.001 INS W/B MCKENZIE L1 OF 1, TP W/B DIRECTLY IN FRT. TP STOPPED. INS HAD LOOKED DOWN MOMENTARILY. INS BRAKED BUT R/E TP.; Report 0.002 INSD S/B ON ADMIRALS IN L1/L; TP DIRECTLY BEHIND INSD. INSD STOPPED FOR A LEFT TURNING VEH AHEAD; TP
005876861	2	19/01/2006	5.00	1505	Thurs	2006	JANUARY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	DID NOT SEE INSD & BEAR ENDED INSD;; Reput 0001 INSD TRAY S ON HWY 1 IN 1/2. TP TRAV BEHIND INSD. INSD WAS STOPED AT A RED LICHT TP STRUCK INSD ON THE REAR BUMPER, Report 0002 INSD ESE ON 1 HWY IN LN 1/3.TP ALSO SEO ON 1 HWY UN 1/3 DIRECTLY IN PROMY OF INSD. BOTH VHH S AT A COMPLETE STOP AT RED LIGHT LICHT TURNED GREEN, INSD
006257863	2	19/10/2006	5.00	1520	Thurs	2006	OCTOBER	15 01-18 00	2	CASUALTY	REAR END	ADMBRALS RD	HWY 1	48.45967200000	-123.40468100000	ACCELERATED, RYENDED THTM NOT PUSHED INTO ANY OTHER WEBS.  Raport 0001 INSD WAS RIJB ADMIRALS RD. TP WAS BEHIND. INSD STPPO FOR THE ALTITE. TP FAILED TO STOP IN TIME 8 A/E INSD. TFS F/MSWRS STRUCK INSD'S R/MSWRS. IRSPORT 0002 INSD T/M ADMIRAS ROAD. T/P DISECTLY IN FROMT. T/P STOPPED SULDOSENLY, INSD R/E T/P VEH. INSD F/RSUMPER HTM T/P REJUMPER AND OWNTESS. ROLECT DID NOT
006538502	2	10/05/2007	5.00	1650	Thurs	2007	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123,40468100000	ATTEND.  RESPONDED. AS INSD WAS WIRE ADMIRALS RD L 1/1,  ORRECTLY AMEAN OF TH, WHEN INSO STORMED BEHIND  ANOTHER STOPED VEH, THE ARE NOW, INSO'S TREIBAUNTH  HAPPENED TO BE IN OTHER VEH BEHIND THE NO FOLL,  REPORT 1000. IN \$7 PM OR ADMIRALS L1/1, THE WAS  DIRECTLY AMEAN OF INS. TO HAD TO STOP FOR L'TURNING  UNE HAREAN, DIS VIRABLE TO STOP IN TIME, INS FROMT
006627002	2	19/07/2007	5.00	0945	Thurs	2007		9 01-12 00	0	PROPERTY DAMAGE ONLY		ADMIRALS RD	HWY 1	48.45967200000		BUMPER HIT TP REAR BUMPER.  Report 0001 INS E/B ADMIRAL 2/3. T/P IN FRONT OF INS.  TP2 IN PRONT OF TP. TP2 STOPPED. TP STOPPED. INS.  COULD NOT STOP IN TIME. INS F/B WERT UNDER TP REAR  BUMPER. INS UNSURE ET TP WAS DUSHED INTO TP2.  (Report 0002 INS EB ON ADMIRALS RO IN LANE 2/3 - TP  FR ALSO REHIND INS VEH. INS DRIVER STOPPED AND WAS
006600851	2	08/06/2007		0800	Friday			6 01-9 00	2	CASUALTY	REAR END	ADMIRALS RD	HWY 1	48.45967200000		N/E BY TP VEH. INS BUMPED TP VEH IN FROKT -; Report 0:001 INSD S/B ADMIRALS RD L4/4 STOPPED AT THE LITE, TP DIRECTLY BEHIND INSD. TP NEVER STOPPED IN TIME AND TP RE INSD. SEE MORE NOTES, POLICE HAVE WITNESS INFO, Report 0:002 INSD 7:8 ON ADMIRALS RD.
006618805	2	20/07/2007	7.00	1615	Friday	2007		9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	ADMIRALS RD  ADMIRALS RD	MCKENZIE AVE	48.45967200000 48.45967200000	-123.40468100000 -123.40468100000	TP DIRECTLY IN FRONT, INSD RUE TP REPORT 0001 INS EB ON ADMIRALS LN 1/1. TP IN FRONT OF INS. TP STOPPED, INS RUE TP, JREPORT 0002 INS EB ON ADMIRALS LN 1/1. INS STOPPED FOR TRAFFIC. TP REAR ENDED INS.
006748030	2	08/09/2007	7.00	1900	Satur	2007	SEPTEMBER		0	PROPERTY DAMAGE ONLY		ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	REDIT GOOT ECLAIM MOVING HER, INS WAS 78 ADMIRALS OR WHEN TO PROPOCIOL TO SEED.  SPEED, INS WAS APPROACHED FROM BERIND AT HORE HATO TO SLOW OWN, TO FROM INS, INS GOT OUT TO TALK TO THE WHO FLED SCENE. Report GOOZ HAR SUSPECT. INS TRAVELLING ON ADMIRALS ROAD. TO TRAVELLING IN FROM TO FINS "BUT TO THE SEED IT BE INS" VICHILIZE REPORT OF INS "WELL THE STOPPED FOR RED LITE B. INS" VICHICLE REVISION TO WELL. THE SCENE.
																REDAT 0001. INS ADMIRALS RO WB LIJ1, TO DIRECTLY IN FRT OF INS. TP STOPPED IN TRAFFIC: INS BRAKED BUT ROS SLIPPERY: INS SLID, AVENDED TP, INS S FAT BUMMER STRUCK TP'S REAR BUMPER; REPORT 0002: INS STOPPED AS 3 VEHS AHEAD STOPPED TO MAKE LEFT TURN. TO DID NOT STOP IN TIME & REARENDED INS. TP LEFT FRONT BUMPER AREA STRUCK INS. FARB SUMPER, HITCH. TO HAD 2
006890837	2	26/01/2008	7.00	1211	Satur	2008	JANUARY	12 01-15 00	5	CASUALTY	REAR END	ADMIRALS RD	TRANS-CANADA HWY	48.459672000000	-123.40468100000	CHILDREN AS PASSENGERS. TP VEH - NDV  Report 0001 COLL. INSO IN TRAFFIC & WAS R/E BY TP.  (Report 0002 INS N/B HWY 1. TP DIRECTLY INFRONT OF
007556813	2	23/05/2009	7.00	1630	Satur			15 01-18 00	1	CASUALTY	REAR END	ADMIRALS RD	MCKENZIE AVE	48.45967200000	-123.40468100000	JIAS. TO STID. JIAS RET TO. JIAS FIBLINGER HILT TO AUGMENE. Report DOOL JIASO DEVRE 7/50 ON ADMIRALS ED JIN LANE 3/5  REPORT DOOL JIASO DEVRE 7/50 ON ADMIRALS ED JIN LANE 3/5  JIN LANE 2/3. JIASO DEVRE DID NOT SEE TP AF ALL PULLED  JIN LANE 2/3. JIASO DEVRE DID NOT SEE TP AF ALL PULLED  OOD JIRS 7/50 ON ADMIRALS 3/1. TO TRAN OPPOSITE  DIRECTION JIN LANE 1/1 MAKNIG A LEFT TURN. JINS 140  GREEN LIGHT. TYP FRONT LEFT COMER WIT JINS LEFT
006318255	2	05/12/2006	4.00	0550	Tuesa			3 01-6 00 15 01-18 00	0	CASUALTY  PROPERTY DAMAGE ONLY	SIDE IMPACT	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000 48.45967200000	-123.40468100000 -123.40468100000	SIDE. NO WITNESSES. NO POLICE ATTENDED.  REPORT DOD! I DRY ADMIRALS RD U12. TP SAME DIRECTION ON ADMIRALS RD LFT TRIL LANE. THERE WAS A LIKE UP OF VEH BY IN FIT OF TP SO IT CHANGED INTO INSDS UI. TP RF FIDER HIT INSDS UF FIRER. TP ACCUSED INSDS UII. TP RF FIDER HIT INSDS UF FIRER. TP ACCUSED INSO OF SPEEDING. REPORT DODG ZCHAIL INS WE ADMIRALS LIV 2/2. TWE ADMIRALS LIV 1/2. INS CHANGED INTO LIV 1/2. A 95% IN LIV 1/2 WHEN AT 15° TP. TP. SE FELT
007197850	2	07/08/2008	5.00	1830	Thurs			18 01-21 00	2	CASUALTY	SIDE IMPACT	ADMIRALS RD	HWY 1		-123.40468100000	REDOT 0001 DRV FJB ON ADMIRALS IN LN 3/3 ATTEMPTING TO MAKE L/TURN ON AMBER LITE. TP WJB ON ADMIRALS IN LN 1/1 PROCEEDING STRAIGHT, INS L/FRONT COLLIDED WITH TP L/FRONT. REDOT 10002 IN 57 M ROCENZIE. TP 7/B ADIRALS MADE L/TURN. TP S L/SIDE FRONT CORNER COLLIDED WITH INS DRIVEN SIDE FRONT END, HEAD LITES.

					_							1				Report 0001 INSD EB ON ADMIRALS. TP SB ON HWY AND
																WAS SUPPOSE TO TURN THE CORNER AND DIDN'T AND T- BONED INSD. TP FRT END COLL WITH INSD L/FRT DR. ;Report 0002 INS 7/B ON MCKENZIE MERGING ON TO ADMIRALS & LOST CONTROL WHILE TAKING TURN. TP 7/B
007566098	2	02/05/2009	7.00	1800	Satur	2009	MAY	15 01-18 00	1	CASUALTY	SIDE IMPACT	ADMIRALS RD	HWY 1	48.45967200000	-123.40468100000	ON ADMIRALS STOPPED AT RED LIGHT. INS F/END STRUCK TP L/FRONT DOOR & L/FENDER. ;
																Report 0001 INSD NIP ON ADMIRALS IN L3/3-LEFT TURN LAME ONTO TRANSCANADA, TP IN LANE 2/3 ON NIPS ON ADMIRALS. TP ATTEMPTS TO CHANGE INTO LANE 3/3 AND STRIKES INSD. TP L/FENDER/OF OF FRIBINDER INDACTS W/INSD R/FENDER/DOOR; SNaport 0002 INS NIPS IN LANE 2/3 ON ADMIRALS. TP TURNING LEFT ONTO TRANS-CANADA
006686597	2	04/08/2007	7.00	1200	Satur	2007	AUGUST	9 01-12 00	1	CASUALTY	SIDE SWIPE - SAME DIRECTION	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	IN LANE 3/3, TP STATED THAT INS CHANGED LANES FROM 2/3 TO 3/3 AND STRUCK TP.; Report 0001 INSD ON ADMIRALS ROAD TOWARD BRIDGE.
007347960	1	28/12/2008	1.00	0900	Sunda	2008	DECEMBER	6 01-9 00	0	PROPERTY DAMAGE ONLY	SINGLE VEHICLE	ADMIRALS RD	TRANS-CANADA HWY	48.45967200000	-123.40468100000	INSD HIT BLACK ICE, SKIDDED ACROSS BRIDGE & STRUCK A POLE AT OTHER END.
007956536	1	21/03/2010	1.00	0140	Sunda	2010	MARCH	0 01-3 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	Report 0001 INS DRV ON HWY 1 WHEN DEER RAN OUT IN FRONT OF INS VEH. INS L/F HIT DEER.
008247212		10/10/2010	1.00	0007	Sunda	2010	OCTOBER	0 01-3 00	0	PROPERTY DAMAGE ONLY	COMB ICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123 40468100000	Report 0001 INS NB 1 HWY L2/2, VEH HYDROPLANED ON TURN DUE TO WET ROADS, INS L/FRT BUMPER HIT THE MEDIAN. SVA. NO EMERGENCY VEH ATTENDED
																Report 0001 INS 7/8 ON HWY 1 WHEN A DEER JUMPED OUT FROM THE DITCH INTO THE MIDDLE OF THE ROAD, INS
006695085	1	13/08/2007	2.00	0400	Monda	2007	AUGUST	3 01-6 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	FRONT END HIT THE DEER.;  Report 0001 INS S/B ON HWY 1 IN L1/2, INS CHANGING LANES INTO L2/2, A DEER RAN OUT ONTO THE HWY
007266279	1	27/10/2008	2.00	$\vdash$	Monda	2008	OCTOBER	UNKNOWN	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	HITTING INS F/BUMPER, R/F FENDER. POLICE ATTD.  Report 0001 DRV E/B ON HWY 1 IN LN 2/2 PROCEEDING
																STRAIGHT. TP E/B ON HWY 1 IN LN 2/2 & ATTEMPTED TO CHANGE TO LN 1/2. INS R/REAR WAS STRUCK BY TP LYFRONT, !Report 0002 INS. BEHIND STOPPED TRAFFIC MAKING LANE CHANGE BUT COULD NOT AND REAR END T/P.
008309489	2	22/12/2010	4.00	1715	Wedn	2010	DECEMBER	15 01-18 00	1	CASUALTY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 INS DRIVING ALONG AND HEARD LOUD BANG.
008063697	1	17/06/2010	5.00	1630	Thurs	2010	JUNE	15 01-18 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	INS GOT HOME AND DISCOVERED DMGE TO L/S DOOR - LOWER PORTION.  Report 0001 INSD N/B IN L?/?; LOAD FRM VEH IN FRT
		26/01/2007	5.00	1400	Friday		MANUARY	12 01-15 00			CONT. SCALE	HWY 1		48.45967200000		DROPPED IN FRT OF INSD; INSD EST 2.5 FEET LONG METAL OBJ; INSD WAS UNABLE TO AVOID & HIT THE OBJ /W IF/BUMPER NO WITNESSES
006407409	1	26/01/2007	6.00	1400	Friday	2007	JANUARY	12 01-15 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 INSD LEAVING HWY 1 SOUTH TO GO ONTO MCKENZIE. VAN IN FRONT OF INSD WAITING TO MERGE ONTO MCKENZIE. INSD SAW TP MOVE AHEAD, THOUGHT
006009171	1	29/04/2006	7.00	1730	Satur	2006	APRIL	15 01-18 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	
008241094	2	18/10/2010	2.00	1520	Monda	2010	OCTOBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	REDAT 0001 INSD 58 OR HWY 1 IN 2/4 CHANGING OVER TO UN 3/4 (17/110N LAME) TO YEN IN 3/4 HT INSD U/R. INSD VEH SPUN AND WAS THEN HIT ON INSD LIF DOOR AREA, POLICE ATTRIO. POLICE HAVE WITN NAME; Report 0002 INSD 2/6 ON HWY 1 IN 3/4. TO IN 12/4 CHANGED INTO INSD'S LAME. INSD RYFRONT BUMPER HIT TP L/SIDE. ITY WAS UN INSD'S BLIND SON'S BLIND SON
																Report 0001: INS 7/B HWY 1 HAKING IUTURR CNTO MICKENZEW WITH ADVANCE GREEN AROW. TO GOING IN OPPOSITE DIRECTION RAN RED LITE. TYP FRONT END COLLIDED WITH INS PASSENGES INCE 1/A PRAIL THACEPTED LIABILITY AT SCHE. Report 0002: INS N/B LAME 1/2 ON TRANS-CAMADA. INS STOPPED AT RED LIGHT. INS NOT CERTAIN WHERE TP CAMP FROM. INS SAW TO IN FOR THE TOP HIM AND SAW THAT INS SOME SAW TO IN.
005921484	2	22/02/2006	4.00	2130	Wedn	2006	FEBRUARY	21 01-24 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	BUMPER HIT TP R/R CORNER. Report 0001 MVA- INSO SB ON HWY 2/2. TP DIRECTLY BEHIND INSO. ROCK CAME OFF LOAD & HIT TP'S W/S. ;Report 0002 INSO ON HWY 1. TP AHEAD WITH UNSAFE
008229086	2	08/10/2010	6.00	1440	Friday	2010	OCTOBER	12 01-15 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0002 INSD ON HWY 1. TP AHEAD WITH UNSAFE LOAD. TP ROCK DAMGD INSD VEH W/S.; Report 0001 INSD S/B ON HWY 1 IN LL/2. T/P DIRECTLY IN
008118754	2	28/07/2010	4.00	0950	Wedn	2010	JULY	9 01-12 00	1	CASUALTY	HEAD ON	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	RADBUGGOT INSO, TYP STRATED TO GO AND THEN STOPPED.  INS REAR ENDED TYP. TYP WAS NOT PUSHED INTO ANYONE. ;Report 0002. INSD SyB ON HWY I STOPPING FOR RED. LIGHT. TP DIRECTLY BEHIND RYE INSO. TP'S MID FRONT jBUMPER STRUCK INSDS N IND REAR BUMPER.
005993720	2	16/04/2006	1.00	1815	Sunda	2006	APRIL	18 01-21 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report DOIS COLL INSO SIR HMY 1.4'S LEET TURN LAMEN, TO PROFESTIVE BRINDS. INSO STOPPED AT RED LIGHT, TF ERRORED IN BRANTING AND ACCELERATED AND COLLIDED WITH HISS SEARS BUNKER. INSO UNIQUE IF PUSHED INTO PROMY VEH. Report DOIZ. HISD WAS SIR IN LIVEN AND ACCELERATED AND CONTROL OF THE REPORT OF
000000		2000/2000	2,000	1013	50101		70702	10 01 21 00			TOPE LIED		Production Are	10.1330120000	113/10/1001	Report 0001 INSD ON HWY #1 IN LANE 1/2. TP VEH IN LANE 1/2 AHEAD OF INSD. TP HAD TO STOP SUDDENLY AND INSD REAR ENDED TP.; Report 0002 INSD N/B ON HWY 1 IN UN 1/2. TP BEHIND INSD, INSD BRAKED BECAUSE THERE
007541224	2	12/04/2009	1.00	1630	Sunda	2009	APRIL	15 01-18 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	WAS AN OBJECT ON THE ROADWAY AHEAD. TP R/ENDED INSD VEH. TP FRONT END STRUCK INSD REAR END. Report 0001 INS E/B ON HWY 1 TO MAKE LEFT TURN ONTO
007691884	2	02/08/2009	1.00	1040	Sunda	2009	AUGUST	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	MCKENZIE AVE - TP E/B DIRECTLY BEHD INS - INS WAS STOPPED AT RED LIGHT WHEN REAR ENDED BY TP - INS WAS NOT PUSHED INTO ANY OTHER VEH ; Report 0002 TAKEN FROM XFILE - INS E/B HWY 1. TP DIRECTLY AMEAD OF INS. TP STOPPED AT RED LIGHT. INS DID NOT STOP &
007817820	2	15/11/2009	1.00	1145	Sunda	2009	NOVEMBER	9 01-12 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001. INS 7/8 HWY IN 2/2. TO VEH 7/8 HWY IN 2/2 AHEAD OF INS VEH. TP SLOWING FOR YELLOW LIGHT. INS UNABLE TO STOP IN TIME. INS R/E TP VEH. FRT OF INS VEH STEK REAR OF TP VEH. (Report 0002. INSD 58 ON TRANS CDA HWY. INSD WAS STOPPING FOR YELLOW AND TP
007918305	1	07/02/2010	1.00	1300	Sunda	2010	FEBRUARY	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 MVA-INSD SB ON HWY 1 IN IN 2/4. TP IN IN 3/4. LYTURN LANE LIGHT WENT YELLOW. TP IN THIS LANE COULDIN'T STOP IN TIME FOR VEH INFRONT & WENT INTO IN 2/4 & INSD HIT TP'S R/REAR BUMPER WITH INSO F/END;

															Report 0001 INSD GRYR 7/B ON HWY 1 IN LANE 1/2, ATTEMPTED TO CHANGE TO LANE 2/2 DUE TO SLOW MOUNDS VEH 30 1/2. TO GH WHY 1 IN LANE 2/2, 2 TO GH SOLD MOUNDS VEH 30 1/2. TO GH WHY 1 IN LANE 2/2, 2 TO GH SOLD FAT END HE TO THE SEAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1, L/2/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.40468000000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -123.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -124.4046800000 GTOPPET. THE REAR PROPERT 0002 ON HWY 1 IN LANE 1/2, -124.404680000
007971347	2	11/04/2010	1.00	1600	Sunda	2010	APRIL	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48,45967200000	Report 0001 INS S/B ON HWY 1 IN LN 2/2. TP STOPPED AT LIGHT AHEAD, INS DIDNT STOP IN TIME AND REAR ENDED TP VEH, INS FRONT BUMPER HIT TP REAR BUMPER, TP NOT
008156391	2	08/08/2010	1.00	1710	Sunda	2010	AUGUST	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	PUSHED INTO ANYTHING, (Report 0002 INS S/B ISLAND -123.40468100000 HWY -STOPPED. TP REAR ENDED INS VEH - Report 0001 INS GOING STRAIGHT, TP AHEAD STPD
008224915	2	10/10/2010	1.00	1330	Sunda	2010	OCTOBER	12 01-15 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	SUDDENLY, INS F/BUMPER HIT TP R/BUMPER, NO POLICE/EMERG ; Report 0002. INS W/B HWY 1 LN 1/2 & INS BRAKINS FOR TRAFFIC WHEN T/P F/E COLL WITH INS R/E -
			2.00		301108										Rapert 0001. INISO STOOPED S/R AT RED LITE IN 1, 44 AT US OF 1 HWY & HOCKEZTE AME, 10 AME CHANGE PERIOD TO IMMACT. THE REHIND & DIDN'T STOP IN TIME. THE FIRMINERS HIT INSO, RIPMINERS, AND TRUSHED INTO ANYONE. Report 0002. INISO TRAVELLING ON HWY 1 IN LEFT TURN LAME. S/RTRAFT! WAS ALREADY STOMPED. INISO CAME FROM HWY AND BRANCED TO STOP BUT SILD ON BLACK ICE. LINSO'S FROMT BUMPER STRUCK THE RABE BUMPER. THE MISCO'S FROMT BUMPER STRUCK THE RABE BUMPER. THE
008276417	2	05/12/2010	1.00	1105			DECEMBER	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE		-123.40463100000 TUBN LAWE;  SAPORT 0001 INS S/9 ON HWY 1 STOPPED AT THE RED LIGHT. TO XXXXXXX SERVING INS REARRINGED INS PUSHING HER INTO TREPLOTE LWX, Report 0002. IMSD S/9 ON PATRICIAL BAY HWY IN LAWE 1/4, STOPPED IN TRAFFIC AT RED LIGHT. TO XXXXX SO ON HWY STOPPED IN TRAFFIC AT RED LIGHT. TO XXXXXX SO ON HWY STOPPED BEHIND INSO. INTO BEHIND INTO, XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
005985202	3	10/04/2006	2.00	1200	Monda	2006	APRIL	9 01-12 00	6	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 XXXXXX . INSD GIVEN 24 HOUR SUSPENSION.;  Report 0001 INS E/B ON HWY 1 IN LN 2/2, STOPPED AT
006092385		26/06/2006		0045	Monda	*****		6 01-9 00		CASUALTY	REAR END	HWY 1	MCKENZIE AVE	40.45047220000	RED LIGHT, TP DIRECTLY BEHIND R/E INS. INS WAS NOT PUSHED AREAD INTO OTHER VEHS. INS DMG R/BUMPER. TP HAO NO VISIBLE DMG. (Report 0002 BOTH VEHS S/B HWY 1 LN 2/4. TP DIRECTLY INFROMT STPD IN TRAFFIC. INSD -123.40468100000 SLIGHTLY BUMPED TP REAR BUMPER.
															REGIST COST. INSD SE DIT HINY J. LIN 24 STOPPED AT RED. LIGHT WHEN HE WAS REARRENDED BY THE AND FUNDAMENA AREAD INTO WEH AHEAD - 4.5 WENTLIES INVOLVED REGIST ON THE SENSE SERVED HE TO JAME THE SERVED HE SER
006200855	5	10/04/2006	2.00	1730	Monda	2006	APRIL	15 01-18 00	6	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	HEAVY, INS R/ENDED TP XXXXXX THEN TP HIT TP2 THEN  -123.40468100000 TP2 NIT TP3 THEN TP3 HIT TP4  Report 0001 INS E/B HWY. TP DIRECTLY IN FRONT OF INS.
006255671	1	09/10/2006	2.00	1555	Monda	2006	OCTOBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	TP SLAMMED ON BRAKES SUDDENLY. INS DIDN'T STOP IN TIME. INS F/E HIT TP R/E. TP NOT PUSHED INTO VEH  -123.40468100000 IMHEAD.:
															Report 0001 INSD S/B IN L2/4. INS APPROACHING R/LITE. TP IN FRONT OF INSD. INSD PLIT HEAD DOWN FOR A SECOND & R/C ET I. INSD TICKETED FOR NOT DRIVING
006908667	1	28/01/2008	2.00	1100	Monda	2008	JANUARY	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 SLOWLY? Report 0001 INS S/B HIGHWAY 1, VEH AHEAD STOPPED SUDDENLY SO INS BRAKED, TP DIRECTLY BEHIND INS, TP
006917472	1	07/01/2008	2.00	0845	Monda	2008	JANUARY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	R/E INS. INS NOT PUSHED INTO VEH AHEAD. NO -123.40468100000 WITNESS/POLICE
			2.00	1250			AUGUST	12 01-15 00		PROPERTY DAMAGE ONLY		HWY 1	ADMIRALS RD	48.45967200000	Report 0001 INSD STOPPED AT RED LIGHT AND WAS REARRNOED BY TP VEH ; Report 0002 INSD 7/8 ON HWY 1, TP IN FRONT, TP2 IN FRONT OF TP. TRAFFIC STOPPED -123.40468100000 STOPPED. INSD R/ENDED TP AND PUSHED INTO TY2.;
007185061		18/08/2008	2.00	1250	Monda	2008	AUGUST	12 01-15 00		PROPERTY DAMAGE ONLY	KEAK ENU	NWT 1	ADMIRALS KU	46.45967200000	Report 0001 INS E/B LN 1/3 ON HWY 1. INS STP/D AT RED LIGHT. TP DIRECTLY BEHIND INS. LIGHT TRY 'D GREEN. TP F/MID/BMPR HIT INS REAR/MID/BMPR. NO WIT NO POLICE !Report 0002 BOTH VEHS S/B ON HWY 1 IN SAME LANE.
007452228	2	09/02/2009	2.00	0915	Monda	2009	FEBRUARY	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	
007877829	3	25/01/2010	2.00	1812	Monda	2010	JANUARY	18 01-21 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	Report 0001. JMS SYB LM 44 SLOWED FOR THAPPIC ARRAD. TPI XXXXXX SHERIND RISTRY XXXXXX BERNION THE JAX SAYS TREY XXXXXXX ME THEN THE XXXXXXX ME TEX. SHE SHAN SHE AND ARRAD SHE A
	2		2.00						1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE		RODATION INS SIR HWY 1.1/3. THO DIRECTLY AMEAD OF INS. TS TEND AT RAILTE. INS FOOT SUPERO OFF BRAKE ONTO GAS PEDAL. INS RE THE TO WAS NOT FUSHED INTO AMMORE SIZE. NO POLICE. NO WITHOUSES S. REPORT GOOZ. HISO EAR OF HOUSE HOW THAT IN IN. 1/4. STOPPED BEHIND TRAFFIC AT RED LIGHT. THAD BEEN STOPPED BEHIND TRAFFIC BEHIND THAT THE DIRECT THAD BEEN STOPPED BEHIND THAT BE LIGHT. THAD BEEN STOPPED BEHIND THAT BE LIGHT. THAD BEEN STORMED BEHIND THAT IN THE STORMED AMEDICAL STORMED STORMED STORMED WITHOUT STORMED S
008001806	2	12/04/2010	2.00	1400	Monda	2010	APRIL	12 01-15 00	1	CASUALTY	REAK END	HWOY 1	MUXENZIE AVÉ	48.45967200000	Report 0001 INS E/B HWY 1. TP E/B HWY 1. INS SLIDE ON ICE. WEB REPORT. DETAILS NOT CLEAK. ;Report 0002 INSD E/B HWY 1 STOPPED IN LINE OF TRAFFIC AT R/LIGHT IN LYTEN LANE. STOPPED FOR APPROX 20-30SECS WHEN
008280926	2	22/11/2010	2.00	1100	Monda	2010	NOVEMBER	9 01-12 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	R/ENDED INSD. INSD VEH PUSHED FORWARD APPRX 5 FEET -123.40468100000 BUT NOT INTO VEH AHEAD.

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		1		_						I	I				Report 0001 INSD S/B ON HWY 17 IN L1/2 AND STOPPED
															IN TRAFFIC. TP DIRECTLY BEHIND R/ENDED INSD. TP'S F/END AND HIT INSD'S R/END.; Report 0002 INS S/B ON HWY 1 IN IN 1/3 - TP S/B IN FROMT OF INS - TP STOPPED FOR TRAFFIC - INS SEAR ENDED TP - TP WAS NOT PUISHED.
008303227	2	20/12/2010	2.00	1100	Monda	2010	DECEMBER	9 01-12 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 INTO ANY OTHER VEH ;
															Report 0001 INS N/B IN S/S. T/P AHEAD OF INS. ALL STOPD AT RALIGHT. WHEN LIGHT TURRED GRN, INS MOVED PWD AND T/P STOP'D IN TRAFFIC, INS FAILED TO STOP IN TIME AND RAPINDED T/P, NO OTHER VEH'S INVOLVED. NO
005996714	1	18/04/2006	3.00	1540	Tuesa	2006	APRIL	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 INJ.
															Report 0001 INSD MADE R/TURN ONTO MCKENZIE, STOPPED FOR TRAFFIC. TO DIRECTLY SEHIND R/ENDED INSD. NO WITNESSES, Report 0002 INS TURNING ONTO MACKENZIE, TP #HEAD OF INS. BOTH STOPPED FOR TRAFFIC. INS MOVED FORWARD AND BUMPED TPS
006120921	2	11/07/2006	3.00	0830	Tuesa	2006	JULY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 R/BUMPER.  Report 0001 INSD S/B 1 HWY L2/2 STOPPED FOR R/L, TP
006283834	2	21/11/2006	3.00	1600	Tuesa	2006	NOVEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	DIR BEH R/E INSO. ,Report 0002 INS ON ISLAND HWY TRAVELLING SOUTH . TO AHEAD OF INS DRV STOPPED -123.40468100000 SUDDENLY AND INS RE TP
006617199	2	26/06/2007	3.00	0830	Tuesa	2007		6 01-9 00			REAR END	HWY 1	MCKENZIE AVE	48.45967200000	Report 0001. INC S/OF TRANS-CAMADA HWY LU 3/4. TP OIRECTLY BEHIND INS. INS STOPPOST AT RED LIGHT, THE R/E INS ARD WAS PUSHED INTO TP2. NO WITHESSES. JREPORT OOCH INS STOPPOST AT LIGHT LIGHT, TO PRICETLY HARDA OF INS. THE STANTED TO GO, THE READER DEPORTS. INS. 123.4644810000 PUSHED INTO TP2. TP2 DID NOT STOP. IT PS ANY SEE WAS 123.4644810000 PUSHED INTO TP2. TP2 DID NOT STOP.
00017199		20,00,2007	3.00	0030	Tuesa	2007	JOHL	0 01-9 00		PROFERIT DANNAE OIE.	PERSON LINE		PROXERES ARE	40.43907200000	Report 0001 INS 7/B TRANS CDA STOPPED FOR RED LITE. TP DIRECTLY BEHIND INS. TP FRONT BUMPER COLLIDED WITH INS REAR BUMPER (REDORT 0002 INS ON TRAN-
007086951	2	10/06/2008	3.00	1415	Tuesa	2008	TUNE	12 01-15 00	,	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	CANADA HWY, TP DIRECTLY IN FRONT OF INS. TP STOPPED.
007086931	2	10/06/2008	3.00	1415	Tuesa	2000	JORE	12 01-15 00		CASONETY	REAR END	CWI I	PICKERGIE NVE	46.4590720000	Report COOL INS SIR HWY 1, MY 12, TO DIRECTLY IN PROST OF THE PROST OF
007458043	2	03/02/2009	3.00	0717	Tuesa	2009	FEBRUARY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 INVOLVED.
															Report 0001 INSO S/G L/44 ON HMY 1 WAITING TO TURN L TP S/G L-4/4 ON HMY 1 DIRECTLY INFERTO TO TURN INSO LOCKED AWAY AND FOOT NOT ON BRAKES HARD ENOUGH. INSO FOLIED FIVE AND INSO'S F/BMPER HIT TP'S R/BMPER, IRRORT 0002 INS 58 ON HMY 1 STPD AT RED LIGHT. TP DIRECTLY BEHUNG REAR ENDED INS BEAR
007675855	2	11/08/2009	3.00	0715	Tuesa	2009	AUGUST	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 BUMPER;  Report 0001 INS 7/B HWY 1 MAKING R/TURN ONTO
007686190	2	28/07/2009	3.00	1100	Tuesa	2009	JULY	9 01-12 00	1	CASUALTY	REAR END	HWY I	ADMIRALS RD	48.45967200000	ADMIRAUS DIRECTLY BEHIND TP. TP STARTED TO MAKE RYUNIN ON RED THEN STOPPED. IDS LOCKING LEFT FOR ONCOMING TRAFFIC, INS SAW TP HAD NOT GONE, BRAKED A TAPPED TP BERK BURBER, RIPPOD GOOZ LIS TY PRESCAMAD HWY IN LIA! STEPS OF TRAITE & WHICH THE LIGHT UNIN GEREN IN STILL STEP BUT WAS GETTIMS READY TO MOVE FORWARD. TP BEHIND INS. TP R/E INS. INS NOT 123.40465100000 [USHED INTO ADMIRES VEH.]
															Report 0001 INSURED S/B ON 1 IN L2/4. TP IN FRONT OF INSURED. TP STOPPED FOR A RED LIGHT, INSURED R/E TP, :Report 0002 INSD WAS ON HWY I GOING S/B IN IN INSUS STOPPED AT RED LIGHT. TP WAS DIRECTLY RENIND.
007855236	2	15/12/2009	3.00	1830	Tuesa	2009	DECEMBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 INSD. TP R/ENDED INSD. NOT PUSHED INTO ANYTHING.
007885275		12/01/2010	3.00	1430	T	2010	JANUARY	12 01-15 00		PROPERTY DAMAGE ONLY	REAR END	HWOY 1	MCKENZIE AVE	48.45967200000	Report 0001 INSD 5/5 0N #1 HWY IN 2/4 STOPPED AT R/LIGHT. TO PIDERCITE BRHINDS. TPS RROUTE BUMPER HIT INSD S REAR/BUMPER. TP STOPPED AT FIRST AND THEN LIDCHED FORWARD. THEN DIT FURHED, REPORT 0002 INS 1/5 0N MOCRETIZE BY 2/4. TP ARRAD. OR IS, 10S & TP WERE 1/21.40463100000 ROLLED FORWARD S. REFUED TO STED HIS SEAT A
007885275	2	12/01/2010	3.00	1430	Tuesa	2010	JANUARY	12 01-15 00	0	PROPERTY DAMAGE UNLY	KEAK END	HWT 1	MUKENZIE AVE	48.45967200000	Report 0001 INSD ON HWY 1 LN 3/4 STOPPED AT LIGHT, TP
007980232	2	13/04/2010	3.00	1400	Tuesa	2010	APRIL.	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	DIRECTLY BEHIND REARENDED. INSO NOT PUSHED INTO ANYONE. NO LANE CHANGE, Report 0002 FILE OPENED DUE TO NO RESPONSE. "TP HWY 1 LN 3/4 STPD 0 LITE. INS OR THE THE TRY OF THE STREET OF THE TRY OF THE STREET OF THE TRY OF THE STREET."  -123.40468100000 INTO MY VEHS AHEAD. NO LANE CHANGE.
008109760	2	27/07/2010	2.00	1205	Tuess	2010	3114	12 01-15 00		CASUALTY	REAR END	HWYY 1	MCKENZIE AVE	48.45967200000	Report 0001 INS 5/6 TRANS CAN HAVY FAR LEFT LIT LAME, TP IM FRONT OF HIS. THE STOPPOUT SUDDENLY AND INF COULD NOT STOP AND REPORTED THE, RESPONDED ON SILTS TURNED ON HAVY 1 IN LITURAL MARE, HAS TOPPOUT AS LITE TURNED OF HAVE 1 IN LITURAL MARE, HAS TOPPOUT AS LITE TURNED OFFICELY BEHIND THIS. THE PULLING A BOAT. THE REAR 123.40468100000 (PRODE) DIS. ON POUT/PIE AND NO WITHESS
30013750		27,07,2020	2.00	1203	10230	2020	3021	12 01 13 00		CASCALLA	THE ETTE		Production And	10.1557 25555	Report 0001. AS JINSD WAS S/B TCH L 1/4, DIRECTLY AHEAD OF TH, WHEN JINSD STOPPED 'QUICKLY' DUE TO THE VPH AHEAD OF JINSD STOPPING QUICKLY', TP ATTEMPTED TO STOP BUT SLID INTO JINSD S REMD. NO POLYMYN. JREGORY 0002. JINS REAR REDGET PJ. INS S/B 1 HWY 1/4. TP
008244197	2	19/10/2010	3.00	1030	Tuesa	2010	OCTOBER	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	AHEAD OF INSURED, TRAFFIC STOPPED, INS F/B HIT TP -123.40468100000 REAR BUMPER.
009784000	2		3.00	1230	Tues	2010	DECEMBER.	12 01-15 00		PROPERTY DAMAGE ONLY	DEAD END	HWY 1	MCVENZIE AUE		Report 0001. MIS 5/8 ON HWY 1 IN 2/3, A VEH AHRAD SLOWED, INS BRAVED, TO FEH BEHIND INS. , TRE 5/F COCL WITH INS R/E, Report 0002. INS 5/8 ON HWY 1 IN LN 1/4 - TO 3/8 DIRECTLY FROM TO FIN. = DOTH INS. IN TWEER STOPPED FOR NED LIGHT. INS FOOT SLIPPED OF BRAKE A
008296000	£	28/12/2010	3.00	1230	ruesa	2010	DECEMBER	22 31-13 00		PROPERTY EMPINES ONLY	INCHA CHU	ina i 1	MCKENZIE AVE	48.45967200000	-123.40468100000 ROLLED INTO THE REAR BUMPER  READER OF THE HIND YS, LZC, THE BHWY 1, LZC, DIR  BEHIND INS. INS WAS STRO IN TRAFFIC WHEN THE  REMODED INS. THE YOURSH MET HIS ROUMH! REMODE OTHER  INS ES STOP AND GOT MAPEC, THE DIRECTIVE AREAD OF INS.  MOTTONED FOR INS TO PULL OWER, LIE NOT DISPUTING  MOTTONED FOR INS TO PULL OWER, LIE NOT DISPUTING
005948401	2	29/03/2006	4.00	0845	Wedn	2006	MARCH	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000 JUST DID NOT FEEL IMPACT AS HIS TRUCK IS LARGE.  Report 0001 INS SE STOPPED AT RED LIGHT, TP DIRECTLY BEHIND INS. TP REAR ENDED INS. Report 0002 INSD S/B
006154049	2	16/08/2006	4.00	1800	Wedn	2006	AUGUST	15 01-18 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	ON HWY 1/3. TP INFRONT OF INSD. TP SLOWED FOR -123.40468100000 TRAFFIC. INSD R/E TP.
															Report 0001 INSD 8. T/P W/B ON HIGHWAY, T/P WAS INFRONT OF INSD. T/P STOPPED INFRONT OF INSD. INSD SAID HE STOPPED. ISND SAID HE NEVER HIT T/P, ;Report 0002 INSD WB LAME 1/P STPD IN TRAFFIC FOR R/LITE. TP WAS ALSO STPD BEHIND INSD. TP RE FINSD. TP S SPARE
006283754	12	25/10/2006	[4.00	1730	[Wedn	2006	OCTOBER	15 01-18 00	In	PROPERTY DAMAGE ONLY	KEAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000 TIRE IN FRT STRUCK INSD'S R/E.

															Report 0001 INSO IN L1/2 ON HWY 1 STOPPED FOR RED LITE - TP CAME BEHIND AND REAR ENDED INSD. REPORT 0002 COLL? INSD NB HWY1. TP DIR IN FRONT. INT LITE AHEAD CHANGED TO RED. INSD ATTEMPTED TO STOP BUT
006408495	2	10/01/2007	4.00	2030	Wedn	2007	JANUARY	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 DUE TO SNOW SLID AND R/E TP VEH.;  Report 0001 INS DRVR S/B ON HWY 1, LN 1/2 (CURB). TP
															DIRECTLY BEHIND INS. IN TRAFFIC TRAVELLING APPROX 30KPH. TP ATTEMPTING LANE CHANGE. R/F/BUMPER HIT INS
															L/R/BUMPER. INS WAS FORCED AHEAD. DIDN'T HIT UNKN
															TP VEH. ;Report 0002 MVA - INSD 7/B ON HWY 1 L1/2 ATTEMPTING TO CHANGE TO L2/2. TP VEH WAS IN FRONT
															OF INSD L1/2. TP STPD AS VEH IN FRONT MERGING. INSD DID NOT SEE THIS. INSD R/E TP VEH. TP NOT PUSHED INTO
006601221	2	20/06/2007	4.00	0810	Wedn	2007	JUNE	6 01-9 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 OTHER VEHS. NO WTNS. NO ;
															Report 0001 INS 7/B ON HWY 17 STPO AT TRAFFIC LIGHT. TP 7/B BEHIND SAME LANE R/E INS. ;Report 0002 INS S/B
006669070	1	15/08/2007	4.00	1640	Wedn	2007	AUGUST	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	ON HWY 1 IN LANE 10F3. TP S/B ON HWY 1, IN LN 10F3, -123.40468100000 AHEAD OF INS. INS REAR ENDED TP.
															Report 0001 INSD W/B HWY 1 L2/3 SLOWING DOWN,TP DIRECTLY BEHIND INSD. TP NEVER STOPPED AND TP RE
															INSD.INSD NOT PUSHED INTO ANY OTHER VEH ;Report
															0002 INSD W/B L1/2 HWY1. TP AHEAD OF INSD ON SAME. TP MADE SUDDEN STOP. INSD R/E TP. INSD FRONT L/P,
006693011	2	29/08/2007	4.00	1235	Wedn	2007	AUGUST	12 01-15 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 F/BMPR & R/F SIGNAL MET TP R/BMPR.  Report 0001 PASSENGER IN FRT PASS SEAT, INJURED IN
															MVA, VEH HE WAS IN R/E TP VEH-NOT SURE NAME OF HIGHWAY - COULD BE TRANS CANADA OR ISLAND HIGHWAY
															Report 0002 INSD 7/8 ON HWY 1, TP IN FRONT, INSD
															R/ENDED TP, NOT PUSHED INTO ANYONE. ;Report 0003 INSD SB HWY 1 L2/2. TP SB HWY 1 L2/2 BEHIND INSD.
															VEH IN FRONT OF INSD STPD SUDDENLY AS DID INSD. TP REARENDED INSD VEH. DMGE TO INSD'S REAR BUMPER
007146720	2	23/07/2008	4.00	1645	Wedn	2008	JULY	15 01-18 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 AND TAILGATE. DMGE TO TP'S F/END.
															Report 0001 COLL. INSD DRVG ON HWY 1 IN HEAVY TRAFFIC. INSD HAD TO STP FOR TRAFFIC. INSD WAS R/E.
															INSD WASN'T PUSHED INTO VEH AHEAD. ; Report 0002 INS S/B HWY 1 LN 2/2 & T/P TRAVELLING AHEAD OF INS - INS
															SAW FLASHING LIGHTS (AMBULANCE?) INS DID RIGHT SHOULDER CHECK TO PULL OVER & WHILE DOING THAT T/P
007185008	2	06/08/2008	4.00	1700	Wedn	2008	AUGUST	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 BRAKED & INS F/E SLID INTO T/P - T/P NOT PUSHED INTO
															Report 0001 INS N/B 1/2 HWY1 IN STOP & GO TRAFFIC, TP R/E INS, INS REAR BUMPER & TP FRONT BUMPER, INS NOT
															PUSHED INTO ANTHING, NO WITNESS/EMERG VEH ;Report 0002 INS N/B ON HWY 1 IN LN 2/2. TP AHEAD OF INS. BUMPER TO BUMPER TRAFFIC. TP STPO INS DID NOT AND
007555263	2	06/05/2009	4.00	1510	Wedn	2009	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	BUMPER TO BUMPER TRAFFIC. TP STPD INS DID NOT AND -123.40468100000 R/E TP. F/BPR TO R/BPR. NO WITN. NO POLICE. ;
				1010	-	-									Report 0001 MVA - INS & TP ?B ON #1 HWY IN L 3 OF 5?
															TRAFFIC MOVING SLOWLY. INS ROLLED INTO TP R/E BUMPER WITH F/E BUMPER. NO OTHER VEHICLES
															INVOLVED, ;Report 0002 INS S/B ON HWY 1 IN LANE 2/4. TP DIRECTLY BEHIND INSO IN THE SAME LANE. INS STOPPED AT RED LIGHT. LIGHT TURNED GREEN. VEH IN
															STOPPED AT RED LIGHT. LIGHT TURNED GREEN. VEH IN FRONT OF INS STARTED TO GO. INS NOT YET MOVED FWD.
007558881	2	06/05/2009	4.00	1045	Wedn	2009	MAY	9 01-12 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.404681000000 INS F/B HIT TP R/BUMPER ;
															Report 0001 INSD S/B HIGHWAY 1 FAR LEFT LANE; TP DIRECTLY BEHIND INSD; TP R/ENDED INSD; INSD KEPT
															DRIVING QUITE A BIT BEFORE MAKING L'TURN © MCXENZIE R THEN R/TURN © ARLENE PLACE; TP DIDN'T FOLLOW; NO EMER VEHS; Report 0002 HBR SUSPECT - INS
															FOLLOW; NO EMER VEHS ; Report 0002 HBR SUSPECT - INS S/B HWY 1 FAR LEFT LANE. TP DIRECTLY INFRONT OF INS.
															INS AT A STOP & THEN SLIGHTLY MOVED FRWD & TAPPED TP. INS & TP DIDN'T SPEAK TO EACHOTHER & TP DIDN'T
007596765	2	24/06/2009	4.00	0920	Wedn	2009	JUNE	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 SIGNAL FOR INS TO PULL OVER.
															Report 0001 COLL/INSD S/B ON TRANSCANADA. TP DIRECTLY INFRONT. INSD R/E TP.INSD L/F CORNER
															BUMPER HIT TP R/R CORNER BUMPER, NEITHER PUSHED INTO ANY OTHER OBJECT OR VEHICLE, NO POLICE/NO
007685529	2	26/08/2009	4.00	0740	Westr	2000	AUGUST	6 01-9 00		PROPERTY DAMAGE ONLY	PEAR END	HWY 1	MCKENZIE AVE	48.45967200000	EMERGENCY. ;Report 0002 INS SB ON HWY 1. TP DIRECTLY -123.40468100000 BEHIND REAR ENDED INS REAR BUMPER
001003323	_	20/00/2003	4.00	0,40	11001	1 2003	HOOODI	0 01 7 00		THOI EXT DATAGE CHET	INDIA CAD	1	PICHEIRE ME	40.43307200000	Report 0001 INS STPD ?S/B L2/2 HWY 1. INS STPD FOR
															STPD TRAFFIC AND R/LITE. TP DID NOT STOP AND R/ENDED INS. INS WAS STPD FOR SEVERAL SECONDS ALREADY
															PRIOR TO IMPACT, NO OTHER VEH'S INVOLVED.; Report 0002 INS AND TP ON HWY 1 STPNG FOR TRAFFIC. INS
															DIDN'T STOP COMPLETELY AND VEH ROULED INTO TP STPD VEH REAR BMPR, TP HAD MINIMAL MARK ON L/REAR OF CTR
007757862	2	21/10/2009	4.00	1400	Wedn	2009	OCTOBER	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 BMPR.
															Report 0001 INS N/B ON HWY 1 IN LANE 2/2, T/P WAS DIRECTLY BEHIND INS, TP STOPPED IN TRAFFIC, TP FAILED
															TO STOP & R/E INS. ;Report 0002 INSD WAS STOPPED AT RED LIGHT ON HWY 1 STOPPED AT RED LIGHT BEHIND
															TRAFFIC. TP VEH DIRECTLY AHEAD OF INSD. INSD WAS DISTRACTED AND FOOT SLIPPED OFF BRAKE AND SHE
008038709	2	12/05/2010	4.00	1700	Wedn	2010	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000 TAPPED TP R/BUMPER;  Report 0001 INS N/B ON HWY 1. TP BEHIND INS. INS
															STOPPED FOR TRAFFIC AND TP R/ENDED INS. ;Report 0002
008075526	2	30/06/2010	4.00	1540	Wedn	2010	JUNE	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	INSD N/B HWY 1 L1/2. TP DIRECTLY INFRONT OF INSD. -123.40468100000 STOP/GO TRAFFIC. INSD R/E TP.
															Report 0001 INS 7/B HWY 1 STP. AT THE R/LIGHT. TP DIRECTLY BEHIND THE INS. TP FAILED TO STOP AND R/E
															INS VEHICLE: Report 0002 INS S/B ON MCKENZIE ST, LN2/2: INS WAS STOPPED REACHING FOR HEADACHE PILL
005913610	2	02/02/2006	5.00	1100	Thurs	2006	FEBRUARY	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 AS STEPPING ON GAS AND R/ENDED TP VEH.;
															Report 0001 INSD 8 R/P 7/B ON HIGHWAY. T/P INFRONT OF INSD. T/P STOPPED FOR TRAFFIC. INSD R/E T/P.; Report
															0002 INS N/B ON HWY 1 IN L2/2, TP N/B ON HWY 1 IN L2/2 BEHIND INS, INS STPD FOR TRAFFIC AHEAD, TP R/END INS.
005921736	2	23/02/2006	5.00	0850	Thurs	2006	FEBRUARY	6 01-9 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 WITNESS. NO POLICE.
															Report 0001 INS S/B TRANS CAN HWY L2/2, TP XXXXXX BEHIND INS, TP2 XXXXXX IN FRONT OF INS. INS
															STOPPING BEHIND TP2. TP FAILED TO STOP AND STRUCK INS R/BUMPER PUSHING INS INTO TP2. ;Report 0002 INS
															S/B ON TRANS CANADA HWY. INS MOVED INTO THE RIGHT
															INTO TP2 XXXXXX . ; Report 0003 INSD S/B HWY 1, LN 2/2; TP1 XXXXXX WAS BEHIND INSD; TP XXXXXX WAS
004034770		25/05/2006	5.00		Thurs	2006		15 01-18 00	,	CASUALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	VEH.#3; INSD AND TP1 STOPPED IN TRFC; TP R/E TP1,
006021770	3	123/05/2006	15.00	[1610	Inurs	2006	INAY	113 01-18 00	ž.	LASUALIT	KEAK END	HWIT 1	PADMIKALS KD	48.45967200000	*123.40400100000 PUSHING THEM INTO INSURED

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																Report 0001. INS S/G IN LAME 2/4 ON HMY STOPPED AT RED LIGHT. TO DEDICTELY BEHIND INS. TO BEHIND TO ?2. TO REAR ENDED TO 2 WHO WAS PUSHED INTO INS., Report ODO: 100 THE HIND TO 100.5. TO 200000 ON BEHIND INS. TO INS. TO 200000 ON BEHIND INS. TO 20000000 ON BEHIND INS. TO 2000000 ON BEHIND INS. TO 20000000 ON BEHIND INS. TO 2000000 ON BEHIND INS. TO 2000000 ON BEHIND INS. TO 2000000 ON BEHIND INS. TO 20000000 ON BEHIND INS. TO 20000000 ON BEHIND
006126291	2	27/07/2006	5.00	1430	Thurs	2006	JULY	12 01-15 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 INS S/B ON HWY 1 IN LANE 1/2, T/P WAS
006165161	2	10/08/2006	5.00	2235	Thurs	2006	AUGUST	21 01-24 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	DIRECTLY BEHIND INS, INS STOPPED AT STOP LIGHT, TP FAILED TO STOP & R/E INS ;Report 0002 APPEARS INS REARENDED TP INS IN HOSPITAL.;
006245961	2	05/10/2006	5.00	1730	Thurs	2006	OCTOBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.404681000000	Report 0001 INSD N/B HWY 1 L/2/. TP DIRECTLY BEHIND INSO. BOTH VERS MOVING SLOWLY WHICH OF THAPFIC. TF ACCELERATED 8. TP FEUNMER HIT INSO REAR BUMPER. INSO NOT PUSHED INTO VEH AHEAD., Report 0002 INSO AND TO WERE BOTH STORPOR AT A RED LICHT ON HWY 1 L/2/. JIMSD BEACH DISTRACTED WITH GRANDOFLIDERN IN CAR AND HIS POOT CAME OFF BRAKE. INSO FRT BMPR ROLLED INTO TYS BEAR BMPR.
006304386	2	23/11/2006	5.00	1745	Thurs			15 01-18 00	1	CASUALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000		Report 0001: INSD 7/8 HWY 1 AT A FULL STOP AT RED LIGHT, TP REAR PROPED INSD, INSD WAS ABOUT TO PULL OVER TO THE SIDE B FELT A 2ND IMPACT, TP HAD RENDED INSD A 2ND TIME, THERE WAS NO OTHER VEH BEHIND TP REPORT 0002: INSD ON HWY 1. TP DIRECTLY IN FRONT. INSD REAR ENDED TP VEHICLE.
006436586	2	01/02/2007	5.00		Thurs			15 01-18 00		CASLIALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000		Report DOD! INS WAS STORPED AT RED LIGHT IN LEFT TURN LANCE IN MY? I'P IN LANK 44, "IT TRAVELLING IN LANK 44 ON HMY! I'P IN LANK 44, "IT TRAVELLING IN LANK 44 ON HMY! I'P DIRECTLY BEHTHOI INS, REAR ENDED INS. TP DID NOT EXCHANGE INFO AND BLANCE DINS FOR ACCIDENT. NO WITNESS, REPORT DODS INSO 7/8 ON I HMY STORPED IN JUJICIL FAUR CHUIT, I'P DIRECTLY IN FRI O'R DINSO. TO STARTED TO REVESSE, INSO HOMRED, TP MIDDLE REAR BUMPER STRUCK INSO FRI LICE FLATE. NO
000436386	<u> </u>	01/02/2007	5.00	1530	inurs	2007	FEDRUART	15 01-16 00	1	CASCALIT	REAK END	INVI I	ADRIKALS KD	48.45967200000	-123.40408100000	REPORT 0001 INS SOUTHBOUND HIGHWAY 1. TRAFFIC SLOWING AND COMING TO A STOP. INS VEHICLE STOPPED. TP REAR ENDED INS. :Report 0002 INS FOLLOWING TP ON
006603919	2	07/06/2007	5.00	0750	Thurs	2007	JUNE	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWOY 1	ADMIRALS RD	48.45967200000	-123.40468100000	HIGHWAY. TP STOPPED. INS R/E TP. Report 0001 COLL INSD S/B HWY 1, TP DIRECTLY IN FRONT APPROX 1 CAR LENGTH. INSD TOOK FOOT OFF BRAKE, ROLLED INTO TP. TP NOT PUSHED INTO ANY OTHER
006713132	2	27/09/2007	5.00	1230	Thurs	2007	SEPTEMBER	12 01-15 00	1	CASUALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	VEHS. ;Report 0002 INS S/B HIGHWAY 1, LANE 2/2, TP DIRECTLY BEHIND INS. INS STOPPED AT LIGHT, TP R/E INS.
	_															Report 0001 INSD W/B ON HWY+1 STPD ⊕ LITE,LITE TURNED GREEN,TRFC STILL STPD,TP R/E'D INSD.; Report 0002 INS N/B ON HWY 1 STOPPED BEHIND TP AT LIGHT. TRAFFIC STARTED AHEAD & GLANCED DOWN FOR A
007254753	2	25/09/2008	5.00	1520	Thurs		SEPTEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY  PROPERTY DAMAGE ONLY		HWY 1	MCKENZIE AVE	48.45967200000 48.45967200000		MOMENT A RO BUMPED REAR OF TO VEH. ;  REPORT DOD! IN WAS SIG RIGHT CURB LANE TRANS CAN HAVY. TO WAS SIG SAME LANE DIR BEHIND INS. INS SAME LANE DIR BEHIND INS. INS SAWED DUE TO TRAFFICE. THE VEH. DIS. SRAPOT DODO. INSD E/R DO N HAVY 1,1/3 STRO IN LINE UP ØRED LICHT. THE STPP AHEAD. INSO LOOKED BEHIND HER SGRANDSON IN BACK SEAT. INSD ROLLED FWD INTO THE REAR BUMPER. INO VISIBLE DOMR AT SCENE.
00732771		20/11/2000	3.00	1700	THE S	2000	NOVEMBER .	13 01-10 00	J	PROFEST DOWNS OTHER	NEW FIRE		TENTENTIAL INC.	40.43907.20000	123.404	Ropot 0001 INS STOPPED FOR TRAFFIC S/B #1 HWY LN 2/2. WHI IMPROVED SIDDEN'S STOPPED, TO DIRECTLY 2/2. WHI IMPROVED SIDDEN'S STOPPED, TO DIRECTLY 2/2. WHI IMPROVED SIDDEN'S STOPPED, TO DIRECTLY 2/2. WHI IMPROVED SIDDEN'S
007561637	3	07/05/2009	5.00	1630	Thurs	2009	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	FRONT B. THEN WAS REAR ENDED BY TO BEHIND  Report 0001. INS N/D IN MERGE LANE OF TRANS-CANADA HWY IN LH U.J. TO DIRECTLY IN FRONT OF INS. INS FRONT BUMPER HIT TO REAR BUMPER, NO DMG TO INS VEM. REPORT 0002. COLLISION CLAIM. INSO DAVE WAS ON HWY 1, T/P 1/B OR MCKENZE ATTEMPTING A R/TURN, T/P  TURNED RIGHT BEHIND INSO, T/P ADV INSD SHE MAD
007794666	2	26/11/2009	5.00	1610	Thurs	2009	NOVEMBER	15 01-18 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	ACCELERATED INSTEAD OF BRAKING, T/P R/E INSD VEH.
																Report 0001 BOTH VEHS E/B HWY 1 LN 1/3. TO DIRECTLY INFRONT STPD IN TRAFFIC. INSD WAS LOOKING AT ANOTHER VEH IN THE NEXT LN. INSD R/ENDED TP.; Report 0002 AS INSD WAS S/B TCH L 1/2, DIRECTLY AHEAD OF TP, WHEN INSD STOPPED DUE TO STOPPED TRAFFIC.
007822978	2	19/11/2009	5.00	0740	Thurs	2009	NOVEMBER	6 01-9 00	1	CASUALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	AHEAD, TP R/E INSD. NO POL/WTN. INSD'S NECK IS STIFF.  Report 0001 INS S/B ON HWY 1 IN L2/2. TRAFFIC AHEAD STOPPED STOPPED SUDDENLY. RO R/ENDED TP & PUSHED
007966911	1	25/03/2010	5.00	0630	Thurs	2010	MARCH	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	TP INTO TP #2.;
007998691	3	29/04/2010	5.00	1500	Thurs	2010	APRIL	12 01-15 00	5	CASUALTY	REAR END	HWOY 1	ADMIRALS RD	48.45967200000		REGOT COOL. THIS SIGN TRANS-CAN HAVE IN 2/2. TE SIGN TANK-CAN HIP 2.5 BEHIND DIS VEH VEHS AMEAD SUMMED TO A STOR. THIS STOPPED. THE RES VEH AND TUSHED DIS TO A STOR. THIS STOPPED. THE RES VEH AND TUSHED DIS TO A STOR. THIS STOPPED. THE RES VEH AND TUSHED DIS TO STORDED. THE STORDED THE STORDED THE STOPPED. THIS STORPED. THE SIGN THE SHE THE STORDED THE STORPED. THIS STORPED. THE SIGN THE SHE THE SHE THE YELLOW. SHE THE
006201981	3	15/09/2006	6.00	0810	Friday	2006	SEPTEMBER	6 01-9 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	CANDA HWY. TO AND T'Z WERE STOPPED IN FROMT OF INSO. INSO STRUCKT FOO THE REAR BUMPER TP PUSHED INTO THE REAR OF TPZ. REPORT 0002. INSO, T/P#2 & T/P#7, BO N HIGHMAY. MOS STOPPED, T/P#2 STOPPED, T/P R C T/P#2. T/P#2 C T/P#2

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006311242	2	03/11/2006	6.00	1830	Friday	2006	NOVEMBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 INS ?B HWY 1 IN LANE 3/3, TP DIRECTLY BEHIND INS. INS STOPPED FOR LIGHT. TP REARENDED INS Report 0002 AS PER TP RPT INS R/E TP STPD @ LIGHT
																Report 0001 INS 7/8 HWY 1 L27; TP FOLLOWING INS. STP & QO TRAFFIC. INS STPD IN LINEUP, TP WAS ON CELIPHONE. TP R/E INS LIGHTLY. INS WAS NOT PUSHED INTO ANYONE ELSE: REPORT 0002 BOTH VEHS 7/8 ON HWY. TP STPD IN TRAFFIC WHEN INS TAPPED TP R/BMPR. TP &
006460484	2	23/03/2007	6.00	1623	Friday	2007	MARCH	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWO' I	MCKENZIE AVE	48.45967200000		INS COT OUT, LOOKED AT DMG & THEN TP DROVE OFF.  REPORT DOS! WAS STOPPED AT LITE IN LINE UP OF TRAFFIC. TP(XXXXXXX STOPPED AT LITE IN LINE UP OF TRAFFIC. TP(XXXXXX XY, REPORT DOSQ M/A- JINS S/R L 2/3 HWY 1 STOPPED AT RED LITE. LITE TURNED GENERA AND INS ABOUT TO GO FORWARD, TP CAME FROM BEHIND IS, MOTHER TO STOP A REAMEMBED TP 2 STOPPED BEHIND ISM, JOHNS TO STATIO THE, ARROPH CHOO! JINES BEHIND ISM, JOHNS TO STATIO THE, ARROPH CHOO! JINES ALL STOPPED AT RED LIGHT. ALL STARTED MOWING FORWARD. TP RUDGED TP 2, THEN INSO REVISED TP. NO
006783822	3	19/10/2007	6.00	1130	Friday	2007	OCTOBER	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	WITNESSES.  Report 0001 INS W/B ON HWY 1 LANE 20F3. TP W/B ON HWY 1 BEHIND INS. INS STOPPED FOR R/LITE. TP F/E COLL.
007000133	2	11/04/2008	6.00	1400	Friday	2008	APRIL	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	WITH INS R/E. Report 0002 INSD W/B STPD BEHIND TP AT R/LITE. INSD'S FOOT CAME OFF BRAKE & ROLLED INTO TP AHEAD.;
007224235	2	19/09/2008	6.00	1630	Friday	2008	SEPTEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	REDOR'T DOOL INSD WAITING TO MAKE LYT ONTO MCKENZIE, TP VEH IMMED BEHIND DID NOT STOP IN TIME, RYE INSD (REPORT DOOZ INS EXITING FROM HWY 1 TO EXIT AT MCKENZIE, TP DIRECTLY IN FRONT OF INS, INS RYE TP. NO WITNESS/POLICE
007314712		14/11/2008	6.00		Friday		NOVEMBER			CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000		Report 0001 INS N/B ON HWY 1 IN LN 20F2. TP N/B ON HIS VEH. INS WAS THEN REAR ENDED BY TP. ;Report 0002 INS N/B ON HWY 1 IN LN 20F2. TP ON HWY 1 IN PAID IN 20F2. AHEAD OF INS. TP BREAKED B HIT A DEER THAT WAS IN HIS LABL. INS REAR ENDED TP.
00/317/12		14/11/1000	0.00	0130	11100)	1000	HOVE BEK	0 01 3 00		Charles	THE END		PROVENED AND	40.43307200000	123.4040010000	Report 0001 INSD NE/B MERGING FROM ADMIRALS ROAD ONTO HWY#1, INSD STPD TO YIELD TO TRFC, TP BEHIND R/ED INSD. ; Report 0002 INSD U/K DIRECTION MERGING FROM ADMIRALS ONTO HWY 1 - TP IN FRONT OF INS - INS
007359749	2	05/12/2008	6.00	1045	Friday	2008	DECEMBER	9 01-12 00	1	CASUALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	REAR ENDED TP;  Report 0001 INS S/B HWY 1 IN 3/3 & SLOWING FOR RED LIGHT & T/P ON CELL PHONE HIT INS R/E & PUSHED INS
007712933	1	18/09/2009	6.00	0900	Friday	2009	SEPTEMBER	6 01-9 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	JINTO T/P2  Report 0001 INS MERGING ONTO TRANS-CANADA HWY - A VEH AHEAD OF INS HAD TO STOP SUDDENLY FOR A CYCLIST - INS THEN STOPPED - TP BEHIND DID NOT STOP AND TP R/E INS. INS WAS NOT PUSHED INTO VEH AHEAD, JRAPOT 0002 INSD MERGING FROM MCKERCIET FOR HWY 1. TP
007956789	2	26/02/2010	6.00	1700	Friday	2010	FEBRUARY	15 01-18 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	AHEAD, ALL STARTED TO ACCELERATE, CYCLIST FLEW OUT. TO BRAKED, INSO REARENDED TP. REPORT 0001 INSO S/8 01/0/0/11 IN LN 2/4. TP. XXXXXX BEHIND MSD. TP2 WISD WAS STOPPED a WANGENDED BY TP VEHICLE, INSO WAS PUSHED INTO TP2, IREDHT 0002 INSO 7/91 I HWY.
007986224	2	23/04/2010	6.00	1730	Friday	2010	APRIL	15 01-18 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	INSD CHANGED LANES. INSD R/E TP XXXXXX . TP PUSHED INTO TP2.  Report 0.001 INSD S/B IN LEFT LANE ON HWY 1 STPD FOR
008066744	2	18/06/2010	6.00	1600	Friday	2010	JUNE	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	TRAFFIC. TP DIR BEHIND R/E INSD.; Report 0002 INS S/B ON HWY 1 L2/2. TP DIRECTLY IN FRONT STOPPED IN TRAFFIC. INS R/E TP.
008201433	3	24/09/2010	6.00	0700	Friday	2010	SEPTEMBER	6 01-9 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	RAPPT DOST. ALL VEHS SIGH HWY I IN SAME UK. TO B. INSO STYD IN TRAFFIC. TO REPORTED HIGH, DUSHNOK INDO INTO THZ., REPORT GOOZ INGO TRAVILLING. ALONG THE TRANS. OF THE STRUCK TRO. TRAVILLING. ALONG THE TRANS. TO FIG. THE STRUCK TRO. THE STRUCK THE SEAR BUMMER. TO FIGH. STRUCK TRO. SHOPE 1003 INS 5/8 00 HWY. TRO. SHENDINGS. THE SHIPLOT EX. BIOS. AT 28 GOTH STOPPED FOR TRAFFIC AN GOO. THE ALENGED TRZ. TRZ PUSHED INTO VERS. TCG.
006083031		03/06/2006	7.00	2300	Satur	7005	JUNE	21 01-24 00		CASUALTY	REAR END	HWC 1	MCKENZIE AVE	48,45967200000	.177.40468100000	Report COOI. 106 7/9 HWY 1. TP DIRECTLY MERIOD STOP FOR FIRE TRUSCE MERGING CONT ONLY FIRM MCKENZE, BRUSH FIRE IN AREA. INS BRAKED BUT SILD. 108 NR TO THO OFF DIVISION ON ANY OTHER VIEWS, BREEK VEHS ATTHO-DOWN TAKEN VIA AMB. REPORT COOZ. 108 TRAVELLION ROS OTH. 108 APPROACHED INTERSECTION. TRAVELLION ROS OTH. 108 APPROACHED INTERSECTION. THEN ROS LIGHT. TP DIRECTLY BEHNED INS, TO DID NOT STOP IN THE AND RAZE REPORT DIS.
000003031		03,00,200	7.00	2500	54101	1000	JOHL	21 01 24 00		OCCONET	TOPE LITE	11111	PICKERED AVE	40.43307200000	11340400100000	Report 0001 INSD W/B 1 HWY L3/3. INSD R/E TP XXXXXXX . TP PUSHED INTO TP2 XXXXXX ;Report 0002 INS. ON 1 HWY. IN L/N 1/2 T/P1 IN FRONT OF INS. T/P2 BEHIND
006172241	2	05/08/2006	7.00	1420	Satur	2006	AUGUST	12 01-15 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	INSINS. R/ENDED TP1, AFTERWARDS T/P2 R/ RENDED INS. BUT IT DID NOT PUSH INS. Report 0001 INSD ON 1 HIGHWAY IN LN 1/2, T/P1 IN
006180862	2	05/08/2006	7.00	1420	Satur	2006	AUGUST	12 01-15 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	FRONT OF INSD, TIP2 BEHIND INSD, INSD RYENDED TYP, AFTERWARDS TYPE REFERED INSD. BUT IT DID NOT PUSH INSD BITO TIP4 AGAIN, DMG IS ON FRAIT & REAR OF VEH. INSD INSD, Report 0002. INSD N/B IN L12-INSD STOPPED FOR TRAFFIC-T/P BEHIND INSD-T/P DID NOT STOP AND RYE INSD-TONS TO INSD AREA BUMPER, REAR HATCH, TRAILER HITCH, RIC REAR BUMPER, REAR HATCH, TRAILER HITCH, RIC REAR LIFE DOOR
																Report 0001 INSD S/R DN HWYF 1 APPR INT,THE FLASHING LITES WERE INDICATING THAT TAPC LITE WAS GOING TO CHANGE,MISD SLOWED/STPD WHEN SIGNAL TURNED YELLOE,TP BEHIND R/ED INSD.INSD FUSHED INTO INT. REPORT 0002 INSD S/R DN THANS-CAMADA HWY, LIM 1/2. TP INFRONT OF INSD. TP STOPPED FOR AMBER LIGHT. INSD.
006894793	2	19/01/2008	7.00	2200	Satur	2008	JANUARY	21 01-24 00	1	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 INSD S/B HWY 1 L2/4 DRIVING STRAIGHT AHEAD, TRAFFIC AHEAD CONGESTED, INSD BRAKED TO A
006985697	1	15/03/2008	7.00	1605	Satur	2008	MARCH	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	STOP, TP DIRECTLY BEHIND DIDN'T BRAKE IN TIME AND REARENDED INSD VEH, INSD NOT PUSHED INTO ANYONE.

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2077700616		18/04/2009	7.00		F-t	2009	APOV	12 01-15 00		CASUALTY	REAR END	HWY 1	MCKENZIE AVE	40.400770000	-123.40468100000	DIRECTLY INFRONT OF INS. INS SHOULDER CHECKED TO CHANGE INTO LN 2/2. INS FRONT END COLL WITH TP REAR BUMPER, Report 0002 INSRD ON HWY IN LI/2 TRAFFIC SLOW AS TRAFFIC MERGING FROM MCKENZIE ONTO HWY. TP R/E INSRD 5 L/R AND TP WENT INTO LEFT LANE. TP HIT
007509616	£	18/04/2009	7.00	1333	Satur	2009	APRIL	12 01-15 00		ICASCALIT	REAR END	PW1 1	MCKENZIE AVE	48.4596/200000	-123.40468100000	REPORT OOD 1 BOTH VEHS S/B ON HWY 1 IN SAME LANE.  INS STOPPED IN TRAFFIC WHEN TP R/E INS VEH. INS NOT PUSHED INTO ANY OTHER VEHS. Report GOOZ 1NSD WAS ON HWY 1.INSD WAS STOPPED AT RED LIGHT.TP WAS ON HWY 1.DINSD WAS TO PED AT THE DESTRUCTION OF THE PROOF SLIPPED
007551471	2	23/05/2009	7.00	0915	Satur	2009	MAY	9 01-12 00	2	CASUALTY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	OFF OF CLUTCH, INSD FRONT BUMPER HIT TP REAR TRAILER
007651812	2	04/07/2009	7.00	1700	Satur	2009	JULY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	REDUCT DOOL INSO W/B HHY 1, IN 2/3. TO VEH DIR AHEAD. SOFT STOPP OF PAUGHT, OR GEREN, BOTH A CCHEED, BUT TO THEN HAD TO BRAKE AGAIN IS INSO R/FINDED, INSO F/FATE HOLDER HITT PE R/BINNER; REPORT DOOL INSO INSO HGRWAY 1 LI/3; TO DISECTLY BEHIND INSO; LIGHT TURNED GREEN, INSO STATED FORWARD; INSO WAS THEN R/FINDED FROM BEHIND; INSO NOT PUSHED INTO VEH IN FAT NO BEMRY VIHS
007860307	2	26/12/2009	7.00	1000	Satur	2000	DECEMBER	0.01.12.00		CASUALTY	REAR END	HWO 1	MCKENZIE AVE	48,45967200000	-123,40468100000	REDIT DODI. INS DRYGON TILLICUM TO MESCE CNTO HIGHWAY, THE FOR THIS, BY SHE ROLLED MESCA MO TAPPED TP'S BACK BUMPER, INSLOCKING TO LETT, INSO'S FRONT FALSE HIT TS BACK SHOPER, REPORT DOZ. INS WAS NOT BHAY I OWNERS WATTING FOR TRAFFIC TO CLEAR HITCHOING TO MESCE CONTO HAY'I, TP WAS NO DIBECTLY BEHNOI INS. TP'S FRY LIC PLATE N/ED INS'S CENTER REAR RIMMERS.
007860307	2	20/12/2009	7.00	1000	Setur	2009	DECEMBER	9 01-12 00	1	CASUALIT	KENK END	INVI I	PICKENZIE AVE	46.45907200000	-123.40408100000	Report 0001 INSD ON HWY 1 BRAKED FOR AMBER LIGHT. TP RE INSD::Report 0002 INS N/B TRANS-CANADA LN 2/2
																& T/P TRAVELLING AHEAD OF INS T/P BRAKED IN MIDDLE OF INTERSECTION ON AN AMBER & INS F/E COLL WITH T/P
006952025	2	05/02/2008	3.00	0753	Tuesi	2008	FEBRUARY	6 01-9 00	1	CASUALTY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	R/E - T/P NOT PUSHED INTO ANYONE; Report 0001 INS E/B ON HWY 1 LANE 10F2. TP E/B ON
																HWY 1 BEHIND INS. INS STOPPED FOR TRAFFIC. TP F/E COLL WITH INS RYE: ;Report 0002 INS EB ADMIRAL IN IN 1/1. TP IN FRONT OF INS IN SAME IN. INS WAS LOOKING IN HIS MIRRORS AND TP HAD STOPPED SUDDENLY FOR
008156119	2	11/08/2010	4.00	1316	Wedn	2010	AUGUST	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	TRAFFIC AHEAD - INS FRONT BUMPER HIT TP REAR BMPR. Report 0001 INSD ON HWY 1 I/US IN UN 1/3 TO MAKE R TRN, TP N/B ON HWY 1 IN UN 2/3, TP MADE LAIN CHANGE FROM LAME 2/3 TO UN 1/3, TP R SIDE COLL WITH INSD L SIDE DOOR/ FRNT QP. POLICE ATTENDED. NO INDEP WITNESSES, REPORT 0002 INSD IN UN 1/2, TP IN UN 2/2,
006331116	2	26/12/2006	3.00	1545	Tuesa	2006	DECEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	SIDE IMPACT	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	INSD CHANGED LANES, INSD R/SIDE COLL WITH TP L/SIDE.
																Report 0001 INS E/B HWY 1 L4/4 WHICH IS L/TRN ONLY LANE ONTO MCKENZE. INS IN L4/4 L/TRN ONLY LANE. TP W/B HWY 1 MADE R/TRN THEN L/CHS- UTURN COMBO. INS COULD NOT AVOID TP. INS R/RRNT HIT TP. L/FENDER B. DRVR DOOR. Report 0002 INSD'S W/S W/PER FELL OFF AND THEN HE ATTEMPTED UTURN AND CAUSD MVA. LEFT
006841807	2	22/12/2007	7.00	1440	Satur	2007	DECEMBER	12 01-15 00	1	CASUALTY	SIDE IMPACT	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	FRONT HIT BY TP'S RT FRONT.; Report 0001 INSD N/B ON HWY 1, LN 1/2. CONSTRUCTION
006722195	1	17/09/2007	2.00	2000	Mond	2007	SEPTEMBER	18 01-21 00	1	CASUALTY	SIDE IMPACT	HWY 1	MOKENZIE AVE	48.45967200000	-123.40468100000	HAD LN 1/2 BLOCKED. INSD SLOWED BIKE DOWN TO SKN/HOUR & PROCEEDED TO MERGE INTO LN 2/2. AS INSD CHANGING LNS, CONSTRUCTION WRKER SPRAYED TAR CAUSING INSD TO CRASH.
																REPORT 0001 DRIVER STATES HE WAS IN THE MERGE LANE AND TJP VEHICLE AND THE BUS MADE CONTACT. PLEASE SEE ATTACHED BC TRANSIT LETTER; REPORT 0002 INSD W/B IN R/LANE ON HWY#1, TP(TRANSIT BUS)IN HOV LANE TO INSD S. RSIDELT P. CHANGED LANES AND HIT INSD. NEW
008231172	1	10/10/2010	1.00	1745	Sunda	2010	OCTOBER	15 01-18 00	i	CASUALTY	SIDE SWIPE - SAME DIRECTION	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	DMG ON R/SIDE DOORS/BMPR/WHEEL.; Report 0001 COLL. INSD 7/B HWY 1 2/2, TP SAME
007167096	2	14/07/2008	2.00	1545	Mand	2008	300	15 01-18 00		DRODEDTY DAMAGE ONLY	SIDE SWIPE - SAME DIRECTION	HWC 1	ADMIRALS RD	48 45957700000	-123 404681000000	INDIRECTION HWY 1.1/2. TP CAME ACROSS AND TRIED TO MERCE INTO LANE 2/2. TP 5 LF FENDER SIDESMIPED MISO'S RF FENDER & DODA AREA. NO WITNESSES ;Report 0002 INSD N/B? ON HWY 1 (FROM VICTORIA TO NANAIMO) LIM 1/2. INSD CHANGING LANES INTO LW 2/2. INSD L/F DOCOR TO L/R WHELL WELL STRUCK TPS R/SIDKCK TPS R/SIDK R/SIDKCK TPS R/SIDK R/SIDKCK TPS R/SIDK R/SIDKCK TPS R/SIDKC TPS R/SIDKC TPS R/SIDKC TPS R/SIDKC TPS R/SIDK R/SIDKC TPS R/SIDK R/SIDK R/SIDK R/SIDK R/SIDK R/SIDK R/SIDK R/SIDK R/SIDK R/SID
007107090	£	14/07/2000	2.00	1545	Promo	2000	300.1	13 01-16 00		PROPERTY EMPIRES ONE!	Side SHIPE - SHIPE DIRECTION		PROFITANCE NO	46353725555	-123.40408100000	Report 0001 INS S/B HWY 1 L1/2. TP S/B L2/2. INS CHANGED LANES. TP MUST HAVE BEEN SPEEDING. INS L/F HIT TP. NO WITNESSES. INS TICKETED FOR UNSAFE LANE CHANGE. NO WITNESSES. ;Report 0002 INSD S/B LN 3/3
007770363	2	05/10/2009	2.00	1540	Mond	2009	OCTOBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	SIDE SWIPE - SAME DIRECTION	HWY 1	ADMIRALS RD	48.45967200000	-123.40468100000	TP LN 1/3 CHANGING INTO LN 3/3 AND HIT INSD RIGHT REAR WHEEL OF INSD VEH
204745314		10/30/30==	6.00	0855	Friday	300-	0.770858	6 01-9 00		CASUALTY		HWOY 1	MCKENZIE AVE	40.4504700	-123,40468100000	Report 0001: INSD DRIVING SOUTH HWY 1 L1/2, TP S/B L2/2, TP CHG LANES INTO INSD. TP HIT INSD S L/SIDE. AIRBAGS DID NOT DEPLOY. VEH TOWED AWAY: ,Report 0002: INS S/B 1/2 HWY 1 APPROACHING MACKENZIE - INS ATT TO CHANGE LANES AND STRUCK TP S/B 2/2. INS DMG NOME. TP DMG R/F FENDER TO R/R CPANEL. POLICE
006765326	4						OCTOBER		1		SIDE SWIPE - SAME DIRECTION			48.45967200000		Report 0001 INS S/B HWY 1, LN ? INS FELL ASLEEP & VEH WENT OFF HWY & ROLLED OVER, POLICE ATTND, INS TO
007979875	1	19/04/2010	2.00	0115	Mond	2010	APRIL	0 01-3 00	1	CASUALTY	SINGLE VEHICLE	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	HOSP BY AMB. Report 0001 INSD S/8 ON HWY 1, LN 1/2, SIGNALLED LANE
006200988	2	25/09/2006	2.00	0730	Mond	a 2006	SEPTEMBER	6 01-9 00	2	CASUALTY	UNDETERMINED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000	CHANGE TO 2/2, TP WAS IN FRT OF INSD IN UN 1/2, AS INS CHANGED LANGE HER PASS FRT COLLIDED WITH TP DRVR SIDE REAR SUN WAS IN INSURED'S EYES (Appent 0002 INSD S/B ON HWY 1 IN LL/3. T/P S/B ON HWY 1 IN L2/3. T/P CHANGED LANES AND T/P'S RIGHT FRONT BUMPER COLLIDED WITH INSD S LEFT REAR BUMPER.
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															Report 0001 INSD ON HWY 1 LN 2/2 NB. TP NB HWY 1 CROSSED OVER MERIDIAN HITTING INSD LFT DOOR & QP.
															TP HIT TP2. ;Report 0002 INSD WAS N/B, TP WAS S/B. TP
															LOST CONTROL WENT OVER MEDIAN. DETAILS ARE UNCLEAR.; Report 0003 INS 7/8 ON TRANS-CANADA HWY
															AND WAS SLOWING FOR TRAFFIC AHEAD, TP VEH BEHIND INS, TPS F/E HIT INS R/E, INS VEH STARTED TO SPIN AND
															THEN HIT A CEMENT BLOCK ON THE HW, DMG TO F/E AND R/BUMPER AREA : Report 0004 INS S/B IN L1/2 ON
															HIGHWAY 1. TP1 IN L2/2. TP1 CHANGED LANES TO L1/2 IN
															FRONT OF INS. INS SWERVED TO RIGHT TO AVOID TPL. INS HIT BARRICADE, WENT IN NIB TRAFFIC, HIT FRONT END OF TP2. WITNESS Report 0005 INS
															OF TP2. WITNESS Report 0005 INS DRVR S/B HWY 1, LN 2/2 O DIRECTLY BEHIND INS, LN
															1/2. INS DRVR ATTMPT CHANGE INTO LN 1/2. INS SAW TP & PULLED BACK. TP TOO FAST & LOST CONTROL. TP HIT 3
006451502	5	20/12/2006	4.00	1600	Wedn	2006	DECEMBER	15 01-18 00	5	CASUALTY	UNDETERMINED	HWY 1	MCKENZIE AVE	48.45967200000	PULLED BACK, TP TOO FAST & LOST CONTROL, TP HIT 3 -123,40468100000 OTHER VEH. NO CONTACT WITH INS VEH. INS TICKETED
															Report 0001 INSD IN L 2/4 GOING STRAIGHT, TP IN L 3/4 MADE LANE CHANGE & STRUCK INSD L/R CORNER WITH TP
															R/F. TP'S LANE SHOULD HAVE GONE L TO MCKENZIE. L 1/4
															8. 2/4 GO STRAIGHT TO THE HIGHWAY, L 3/4 & 4/4 GO L TO MCKENZIE ;Report 0002 INS ON TRANS-CANADA HWY L3/4
															(LEFT TURN ONLY) INS WANTED TO GO INTO L2/4. INS DID NOT SEE TP WHEN LANE CHANGE. INS' R/F BUMPER AND
007180617	2	07/08/2008	5.00	1915	Thurs	2008	AUGUST	18 01-21 00	0	PROPERTY DAMAGE ONLY	UNDETERMINED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 COWLING HIT TP L/R HUBCAP;
															Report 0001 INS EB ON HWY 1 IN L3/4-LTURN LANE, TP IN L4/4 CHANGED LANES. TPS R/F TIRE HIT INS L/R QP. INS
															NOT PUSHED, NO 911, NO WITN, ;Report 0002, INSD S/B ON MCKENZIE IN L/LANE CHANGING INTO LANE RT LANE -
				l								L			TP S/B ON MCKENZIE IN RT LANE -COLLIDED - INSD R/F
007881916	2	07/01/2010	5.00	1740	Thurs	2010	JANUARY	15 01-18 00	0	PROPERTY DAMAGE ONLY	UNDETERMINED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 TIRE HIT INSD L/R FENDER  Report 0001 INSD S/B L3/3 STOPPED WAITING TO MAKE
															L/T, INSD WAS STRUCK BY TP DIRECTLY BEHIND INSD. ;Report 0002 INS VEH IN BUMPER TO BUMPER TRAFFIC ON
															HWY 1, TP VEH AHEAD OF INS VEH. INS DISTRACTED A BIT AND TOUCHED REAR OF TP VEH. FRT INS VEH STRK REAR
008103971	2	08/07/2010	5.00	1850	Thurs	2010	JULY	18 01-21 00	0	PROPERTY DAMAGE ONLY	UNDETERMINED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 OF TP VEH.
															Report 0001 INSD TRAV N ON MCKENZIE AND WAS MERGING ONTO THE ISLAND HWY. TP TRAVELLING ON
															ISLAND HWY IN 2/2. INSD WAS MERGING INTO 2/2 AND
															WAS STRUCK ON THE L/S DOOR BY TP R/S REAR QP AREA. ;Report 0002 INSD N/B HWY 1 LANE 2/2 WITH TP N/B HWY
															1 LANE 1/2. TP CHANGED LANES INTO LANE 2/2 AND STRUCK INSD'S RIGHT REAR QUARTER PANEL WITH TP'S
006977021	2	07/03/2008	6.00	0750	Friday	2008	MARCH	6 01-9 00	0	PROPERTY DAMAGE ONLY	UNDETERMINED	HWY 1	MCKENZIE AVE	48.45967200000	-123.40468100000 LEFT FRONT END.;
															Report 0001 INS ON MCKENZIE TOWARDS ESQUIMALT, THEN TURNS INTO ADMIRALS, INS HAD GREEN LITE. TP ON
															ADMIRALS MAKING L/TURN INFRONT OF INS. INS COULDN'T STOP IN TIME & T-BONED TP. TP WAS OFFICERS. NO
007316226	1	23/11/2008	1.00	0615	Sunda	2008	NOVEMBER	6 01-9 00	1	CASUALTY	CONFLICTED	MCKENZIE AVE	ADMIRALS RD	48.45967200000	-123.40468100000 LIGHTS ON VEH.
															Report 0001 INS 7/B ON MCKENZIE AVE IN RIGHT MERGE LANE ONTO HWY 1. RO STOPPED FOR CYCLIST X'ING IN
															FRONT & TP REARENDED INS. ; Report 0002 INS WAS ON MCKENZIE INS WAS CHECKING FOR TRAFFIC TP IN
007504589	2	28/04/2009	3.00	0800	Tuesa	2009	APRIL	6 01-9 00	1	CASUALTY	CONFLICTED	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000 FRONT OF INS STOPPED AND INS RE TP VEHICLE Report 0001 INS'D W/B ON MCKENZIE STOPPED AT
															CROSSWALK FOR CYCLIST. TO VEH BEHIND FAILED TO STOP AND R/END INS'D. INS'D NOT PUSHED INTO ANY
007991154	1	20/04/2010	3.00	0725	Tuesa	2010	APRIL	6 01-9 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123.40468100000 OTHER VEH/OBJECT.
															Report 0001 INS W/B ON MCKENZIE MAKING LEFT TURN
															ONTO HWY 1: TP E/B ON MCKENZIE. TP LEFT FRONT
															BUMPER AREA MADE CONTACT WITH INS RIGHT FRONT AREA. INSURED TICKETED FAILING TO YIELD ON LEFT
															TURN ;Report 0002 INS E/B ADMIRALS RD L1/1. TP W/B MCKENZIE RD L2/2. GRN LITE. INS PROCEEDING STRAIGHT.
008309280	2	22/12/2010	4.00	1713	Wada	2010	DECEMBED	15 01-18 00		PROPERTY DAMAGE ONLY	CONFLICTED	MCKENZIE AVE	HWY 1	48 45967300000	A W/B VEH MADE L/T FRM MCKENZIE. INS BRAKED. THEN -123.40468100000 TP TRND LEFT AFTERWARDS. INS F/E HIT TP LFT F/E.
000309200	6	22/12/2010	4.00	1713	weam	2010	DECEMBER	15 01-10 00		PROFERIT DANNOC ONCI	CONFLICTED	PICKENZIE AVE	1111111	40.43307200000	Report 0001 INS S/B ON MCKENZIE AVE IN CURB LANE
															RIDING A BICYCLE. TP(PASSENGER) DISEMBARKING FROM VEH. XXXXXX . TP VEH S IN TRAFFIC IN L1/2. SUDDENLY
															PASSENGER GOT OUT OF VEH. INS COLLIDED WITH PASSENGER GETTING OUT ;Report 0002 PSGR REPT - PSGR
															EXITED R/SLIDING DOOR OF VEH & WAS STRUCK BY
															CYCLIST. BOTH WERE KNOCKED TO GROUND. ;Report 0003 INSD STOPPED TO LET PASSENGER OUT OF VEH.
															PASSENGER OPENED DOOR AND GOT OUT. CYCLIST COMING DOWN ROAD AND STRUCK PASSENGER. PSSGR
006807070		01/11/2007	5.00	1600	Thur	2007	NOVEMBER	15 01-18 00	,	CASUALTY	CONFLICTED	MCKENZIE AVE	TRANS-CANADA HWY	48 45967200000	KNOCKED DOWN & CYCLIST KNOCKED OFF BIKE. NO DMG -123.40468100000 TO VEH.
			5.39	1000	rmans	2007	Лангана	22 31-10 00		personal I	Secretary and the	PICALINETE AVE	- CAMPON HIT	-3.4330720000	Report 0001 INSD WAS GOING TO CROSS CROSSWALK ON
															MCKENZIE. TP VEH STOPPED JUST AHEAD OF CROSS WALKON ON MCKENZIE. INSD STARTED TO CROSS AND TP
															STARTED TO REVERSE. INSD HAD TO AVOID TP VEH, HIT CURB AND DMGD BIKE ;Report 0002. INS S/B MCKENZIE -
															AS INS APPROACHED INT - LOCKS AS THOUGH STREET STOPS DUE FENCE ETC. INS ATT TO REV AND LOCKING
															BACKWARDS STARTED TO REV - GALLOPING GOOSE TRAIL -
007560527	1	29/04/2009	4.00	0640	Wedn	2009	APRIL	6 01-9 00	1	CASUALTY	CONFLICTED	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000 TP CAME FLYING OUT BEHIND INS, BYS BRAKED  Report 0001 INS TRVG S/B LANE 1/2. TP TRVG S/B LANE
															1/2 DIRECTLY BEHIND INS. INS'S TRAILER HIT BUMP AND I
															GRAVEL CAME OUT FROM THE BACK AND DMGD TP WINDSHEILD. NO INJ, NO POLICE. NO DMG TO INS VEH.
															(Report 0002 INS FOLL TP TRUCK ( GRAVEL TRUCK WITH TRUR) TRUCK HIT A BUMP AND GRAVEL FLEW OUT AND
007618356	2	10/06/2009	4.00		Wedn	2000	TIME	12 01-15 00		PROPERTY DAMAGE ONLY	CONFLICTED	MCKENZIE AVE	HWY 1	48.45967200000	HIT INS VEH. INS SPOKE TO TP DRVR WHO ACCEPTS. FT
007018330	*	10/00/2009	4.00	1215	evean	2009	JOHE	15 91-15 00		PROFERIT DAPPAGE ONLY	CON LICIED	PICKERZIE AVE	1	-a.45967200000	Report 0001 INS'D WAS DRIVING N/B ON MCKENZIE. INS'D
															PULLED OVER TO LET A FIRE TRUCK DEPT, INS'D COULD NOT MOVE OVER, FIRE TRUCK STRUCK INS'D KAYAK.
															KAYAK TOOK OFF ROOF RACK DAMAGED ROOF. Report 0002 INSD (FIRE TRUCK) CLIPPED A KAYAK RESTING ON
007682551	2	12/08/2009	4.00	0930	Wedn	2009	AUGUST	9 01-12 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123.40468100000 TOP OF A STATIONARY VEH ;
															Report 0001 AS INSD WAS S/B MCKENZIE AVE L 1/2, DIRECTLY BEHIND TP, AS TP STOPPED POSSIBLY FOR A
															CYCLIST, INSD R/ENDED TP. TP WAS NOT PUSHED INTO ANYTHING/ANYONE ELSE. NO POLICE INVOLVEMENT.
	_								L	L					:Report 0002 INS 7/8 MCKENZIE. TP BEH INS. INS STPD
005908152	Z	22/01/2006	11.00	[1520	Sunda	2006	JANUARY	15 01-18 00	Z	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000 FOR CYCLIST. TP F/BUMPER HIT INS R/BUMPER.

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006827541	2	25/11/2007	1.00	1400	Sunda	2007	NOVEMBER	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	Report 0001 INS WAS ON MCKENZIE IN L1/1. MCKENZIE MERGES ONTO HWY I. IMS STOPPED TO LET A CYCLIST CROSS XWALK. TP WAS DIRECTLY BEHIND INS. TP REAR ENCED INS. INS HAS NO VISIBLE DIMOS REAR BURNER. DID NOT LOOK ATTP VEH. REPORT 0002. IMS SB L1/1 ON MCKENZIE. TP DIRECTLY I/P OF INS. TP STOPPED FOR ICYCLIST. INS COULDN'T STOP AND ROY TP;
007687605	2	16/08/2009	1.00	1230	Sunda	2009	AUGUST	12 01-15 00	0	PROPERTY DAMAGE ONLY		MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	REDAT 0001 INS ON ONRAMP FROM MCKENZIE TO HWY 1. TP FOLLOWING INS. INS SLOWED TO YELD. TO RE INS LIGHTLY. INS WAS NOT PUSHED INTO ANYONE ELSE. NO POLICE. NO WITNESSES, REPORT 0002 INSD MERGING NVB ONTO HWY 1. TP DIRECTLY AHEAD STOPPED. INSD R/E TP. INSD'S MID FROM BUMPER STRUCK TP S MID BEAR
007990497	3	25/04/2010		1000		2010		9 01-12 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000		Report 0001 INS 7/8 ON WESTMINSTER HWY IN LN 2/2 MOCKEDONS STRAIGHT. TO PRICECTLY BERNING A UNMALE PROCEEDING STRAIGHT. TO PRICECTLY BERNING A UNMALE POSTOR. BE REPORT STROKE OF THE PERSON. NO OTHER OWN OF THE POST STROKE AND THE POST. THE WAS GIVEN A 24HR SUSPENSION, Report 0003 INS W/R A DEPERBIDGE WAY 12/2, TP IN PROCEED THE POST. INSENSION STROKE A 24HR SUSPENSION, REPORT 0003 INS W/R A DEPERBIDGE WAY 12/2, TP IN PROCEED TH. REPORT 0004 PD ONLY - FILE WHEEL AND REPORT 0004 PD ONLY - FILE SUCKOOKS A COUNTRACT DOSCOROOGO.
006060292	1	29/05/2006	2.00	0845	Monda	2006	MAY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123,40468100000	Report 0001 INSD S/B ON MCKENZIE COMING UP TO MERGE ONTO TRANS CANADA. TO DIRECTLY BEHIND INSD. INSO SOUNDED DOWN AND TP REAR ENDED INSO, TP FRONT BUMPER, HIT INSO DEAR BUMPER, HEPORT 0002 INSO 78 ON MCCENZIE APPROACHING FORAMP TO HAVY, TO WAS IN FRONT OF INSURED; TO STOPPED TO LE ANOTHER PROCEDURED; TO STOPPED TO IT MAY, ERRENDED TO VEHICLE IN, IN SUMABLE TO STOP IN TIME, REARRINGED TO
006224236	2	04/09/2006	2.00	1730	Monda	2006	SEPTEMBER	15 01-18 00	2	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	REDOT 0001. INSD ON MCKENZIE MERSING ONTO HWY 1. TP DIRECTLY BEHIND. TP REAR ENDED INSOS VEHICLE - ONLY 2 VEHS DWOCKED - WITNESS , RAPOR 0002. INS W/B 1/2 MCKENZIE. TP DIRECTLY INFRONT. TP STOPPED FOR CROSS WALK, INS DIBNT SEE THEM, COULDN'T STOP IN TIME. INS FROM END HIT TP REAR END. TP WASN'T PUSHED INTO ANYONE THE STOPPED TO THE PROPERTY OF THE PROPERTY O
006512910	2	02/04/2007			Monda			6 01-9 00	1	CASUALTY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000		Report 0001 INS WAS W/B 1/3 ON MCKENZIE AVENUE. TP VEH AHEAD STOPPED POR PERSON AT XWALK. INS SLIDE ON ICE ABOUT 15FT AND HIT TO VEH DIRECTLY AHEAD. INS F/BMPR STRUCK TP'S R/BMPR. (Report 0002 INSD W/B ON MCKENZIE IN JAME 1/3 - TP BEHIND INSD. INSD STOPPED FOR CYCLIST, TP R/ENDED INSD VEHICLE. INSD WAS NOT PUSHED INTO ANONE:
																Report 0001 INSD IN LN 2/2, TP IN LN 1/2, INSD CHANGED LANES TO LN 1/2, SHORTLY AFTER INSD CAME TO A STOP WITH TRAFFIC, TP REMOBD INSD. Rapport 0002 INSD W/S MCKENZIE IN L1/2. TP IN PROVIT, POLICE OFFICER SET UP RADAS ON OTHER SIDE. INSD GLANCED OVER QUICKLY AND PROBABLY TP GLANCED OVER TOO. INSD RE TP. INSD IN
006994681	2	18/02/2008	2.00	1520	Monda		FEBRUARY	15 01-18 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48,45967200000		DMG. TP DMG REAR BUMPER. EXCH INFO.;  Report 0001 INSD W/B ON MCKENZIE IN LN L1/1. TP  BEHIND INSD. INSD STOPPED FOR CYCLIST AT CROSSWALK AND TP RYENDED INSD VEH. TP RYE BUMPER STRUCK INSD  REAR BUMPER. NO WITHESSES, Report 0002 INS W/B  MCKENZIE L1/3 IN STOP N GO TRAFFIC WHEN INS RYE INS. TP ADV STEP DOS CYC BUT INS DIDN'T SEE ANY CYC ARNO.
007051101	2	19/05/2008	2.00	1700	Monda	2008	MAY	15 01-18 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	NO POLICE/WITNS.  Report 0001 INS W/B MCKENZIE AVE IN L 1/2. TP  DIRECTLY IN PRONT OF INS. CYCLIST AT X-WALK WAITING TO CROSS. TP STOPPED FOR CYCLIST. INS BRAKED AND INS R/E TP. REPORT 0002 INS NB MCKENZIE - STOPPED AT  CROSSWALK FOR PEDESTRIANS, INS NE BY TP DIRECTLY BEHIND. INS TAKEN TO HOSPITAL BY AMBURACE. POLICE
007265230	2	27/10/2008	2.00	0720	Monda		OCTOBER	6 01-9 00	1	CASUALTY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123,40468100000	ATT REPORT 0001. INS W/B ON MCKENZIE ST IN LANE 1/2. TP DIRECTLY BEHIND INS IN SAME LANE, INS SLOWING DOWN DUE TO VEHILLES AHEAD, TP /B HIT INS REAR BUMPER. NO OTHER VEHILLES INVOLVED. UNSURE IF DIRECT HIT; REPORT 0002. INS W/B MCKENZIE. TRAFFIC STOPPED, INS NOT ABLE TO STOP IN TIME DUE TO WET ROADS. TP HAD STOPPED SUBDORNLY DUE TO TRAFFIC AHEAD. NOT VISIBLE
007276986	2	13/10/2008						15 01-18 00	2	CASUALTY	REAR END	MCKENZTE AVE	TRANS-CANADA HWY	48.45967200000		DMG TO EITHER VEH;  Report 0001 INSD JR ON MCKENZIE AVE WAITING TO MRRGE ONTO MMY, TE IN FRT OF INSD. TP STOPPED FOR TRAFFIC, INSD. R/ENDED TE. TP NOT PUSHED INTO AMYONE, IRROPT 0002 INS WAS ON ADMIRALS RD. TP WAS BEHIND INS. INS SLOWED TO MERGE ONTO HWY, TP FAILED TO
008013675	2	26/04/2010	2.00	1645	Monda	2010	APRIL	15 01-18 00	10	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123,40468100000	ISTOP IN TIME & R.E. INS VEHICLE.  REPORT OOOL INS S/B IN LLI/2. TP BEHIND INS - TP2 IN  FRONT OF INS. INS STOPPED AT RED LIGHT - TP WAS  UNABLE TO STOP. TP REARENDED INS AND PUSHED INS  INTO TP2. TP2. LEFT SCENE, REPORT 0002 INSO 5/B ON  MCKENZIE, IN 1/2; TP AMEAD STOPPED & INSO COULDINT  STOP IN TIME, REAR ENDED UP HAHEAD PUSHING IT INTO
008140882	2	09/08/2010	2.00	0650	Monda	2010	AUGUST	6 01-9 00	1	CASUALTY	REAR END	MCKENZIE AVE	ADMIRALS RD	48.45967200000		TPZ AHEAD OF TP Report 0001 ECLAIM, INSD & TP BOTH SW ON MCKENZIE ST, INSD BRAKED DUE TO A VEH AHEAD & MANAGED TO STOP BUT TP DID NOT AND REAREADED INSD, Report 0002 INSD W/B ON MCKENZIE, TP STOPPED IN FRONT OF INSD FOR A VEHICLE THAT LOST CONTROL, IN FRONT OF TP
006364982	2	16/10/2007	3.00	0809	Tuesa		OCTOBER	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000 48.45967200000		AND INSO SLID ON ICE AND REAR ENDED TP:  Report 0001 INS W/B MCKENZIE TO GO R/B ON HWY1. INS STOPPED FOR TAFFIC AND FED, TP DIDN'T AND TP REAR ENDED INS. TP FROIT END HIT INS REAR END. INS WASN T PUSHED FORWARD. (RAPORT 0002 INS W/B ON MCKENZIE AVE , TP DIRECTLY IN FRT S. INS R/BUMPER HIT TP R/BUMPER, TP WAS NOT RUSHED INTO ANDTHER YEM.
		16/10/2007	2.00	u750				001-9 00					III.ANS-LANAOA HWY			REPORT DOD: INS SWIP ON MCKENZIE IN LN 1/3 MAKING R/T TO GO ONTO HWY 1. TP SWIP ON MCKENZIE IN LN 2/3 TP CUT INTO LN 1/3 IN FROKT OF INS AND THEN BRAKED FOR CYCLIST CROSSING. ABRUPT LN CHG. NO WITH. NO POLICE: REPORT DOD2 INS WIP MCKENZIE IN 1/3, MERGING RT ONTO HWY 1, STPPO FOR CYCLIST IN X-WALK. TP DIRECTLY BEHIND R/CHOOL INS. INS NOT PUSHOF WO
007349876	2	02/12/2008	3.00	0640	Tuesa	2008	DECEMBER	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	

		TKA-2013-00114	TDA 2012 0011
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															RESET 0001 MOVING MBR. INSO S/B ON MCKENZIE L2/2 SOFTED IN TRAFFIC AT RED LIGHT. INSO TOWING TRALER  NEW PAPEL INFORCE TRAVEL FROM BERHON, TO PRINCELLY HELD, RESPONDED INFORCE TRAVEL THE SERVICE THE SERVICE TRAVEL THE SERVICE TRAVELER BRIEF OWNED FOR THE TRAVELER BRIEF OWNED FOR THE TRAVELER CHIEF OWNED FOR THE TRAVEL THE SERVICE TO BE ARM FEBRUAR CORD. INSO FOR THE SERVICE TO BE SERVICE OWNED FOR THE SERVICE OWNED FOR THE SERVICE OF THIS SUSPECT IN MOVING FIBE. THE DEPTH MS NO KNOWLEDGE OF HITTING AND CORD. THE ALLEGOIS CO. THE SERVICE OF THE TIME AND CO. THE ALLEGOIS CO. THE SERVICE OF
007546134	3	05/05/2009	3.00	1715	Tuesa	2009	MAY	15 01-18 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000 R/E THEIR TRAILER.
							JUNE								Report 0001 INS 7/8 ON HWY 1 LANE 20F3. TP BEHIND INS. INS WAS STOPPED A FAULTE. TP FEC COLL WITH INS R/E.; Report 0002 INS N/B ON MCKENZIE AVE, TP VEH IN FRONT OF INS, THE LIGHT TURBED GREEN, TP STARTED TO GO AND THEN STOPPED FOR NO APPARENT REASON, INS
007613492	2	30/06/2009	3.00	1100	Tuesa	2009	JUNE	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	ADMIRALS RD	48.45967200000	Report 0001 TP VEH WB ON MCKENZIE, LANE 2/2. INSD VEH FOLLOWING TP. TP STOPPED IN TRAFFIC AT LIGHT AT HWY I. INSD R/E TP VEH; Report 0002 INS VEH WB ON
007769028	2	13/10/2009	3.00	1817	Tuesa	2009	OCTOBER	18 01-21 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	MCKENZIE, LANE 2 OF 2, TP VEH FOLLLOWING INS. INS
008020903	1	18/05/2010	3.00	1130	Tuesa	2010	MAY	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	FRONT OF INSURED. TP STOPPED FOR A RED LIGHT123.40468100000 INSURED R/E TP.;
															Report 0.001 INS S/8 MCKENZIE IN LANE 1/2. TP INFRONT OF INS. TP AND INS STOPPED AT RED LIGHT. TP STARTED TO GO AND THEN STOPPED AS ONLY LIAND TURN LIGHT
008321424	1	28/12/2010	3.00	2050	Tuesa	2010	DECEMBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000 WENT ON. INS REARENDED TP.  Report 0001 INSD COMING DOWN TOWARDS TRANS
005882252	2	11/01/2006	4.00	1655	Wedn	2006	JANUARY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	CAYADA HMY. INSO RRABENDED TV VEN. TV NOT PUSHED INTO ANY OTHER VEN.; REPORT 0002 INS EVEN MCKENZIE LN 1/2. TV DIRECTLY BEHIND INS. INS STOPPED FOR TRAFFIC AHEAD. TR RE INS. INS WAS NOT PUSHED FWD INTO ANY OTHER VEHICLES. NO POLICE, WITNESSES, OR 1-123.40468510000 INJS AT SCENE;
															Report 0001. M/A - 186 7/9 to 1,72 MCKENZER ANT TAKING MW1 1 ORAMP = PSTORPED IDENTICITY M FERT OF INIS. TP ROCEEDED TO GO 8 THEM STORPED ARRUPTLY FOR A CYLLIST. INE PROCEEDED TO GO 8 A REARPINED TP. NO WITMESSES. Report 0002. 1950 7/9 OM MCKENZER IN U. 1/2. TP DIRECTLY BURNED INSO. 1950 STORPED FOR CYLLIST CROSSING INFRONT OF INSO AND WAS REAR ENDED BY THE PROVITE BURNED STRUCK INSO REAR
006668210	2	29/08/2007	4.00	1710	Wedn	2007	AUGUST	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	Report 0001 INS WB MCKENZIE IN 1/4 (RIGHT TURN ONLY)
006761638		17/10/2007			MI-d-		OCTOBER	12 01-15 00		PROPERTY DAMAGE ONLY	2540 540	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	TP BEHIND INS IN SAME LN. INS STOPPED FOR PEDESTRIANS CROSSING - TP DID NOT. ;Report 0002 INSD E/B MCKENZIE ST, TP IN FRONT OF INSD. TRAFFIC STOP AND GO TO MERGE ONTO TRAHS-CANADA HWY, TP HAD -123.40468100000 STP 0. RINSO LIGHTLY REPORTED TS VE
															Report OOOL INSTO 5/8 IN 1/2. TP INREGINIT OF INSTO STOPPED SUDDERITY - INSTO PROVIDE BUMPER TAPPED BEAR BUMPER, 179 BEHIND INSO DIDIN'T STOP, 7912 FRONT BUMPER HTT INSO DEAR SUMPER S OWNED INSO DE ACK STOPPED, TP DIRECTLY BEHIND RVE INS, THEN INS WAS IN AGAIN, TO'R BEHIND THE INS, THEN INS WAS IN HEAD STOPPED SUDDERLY - INSO PROVIDE BUMPER TAPPED REAR DUMPER, TREE DENIED INSO DIDIN'T STOP, 7925 FRONT BUMPER HTT INSO REAR BUMPER IN CALIFIE - INSO STOPPED SUDDERLY - INSO DIDIN'T STOP, 7925 FRONT BUMPER HTT INSO REAR BUMPER IN CALIFIE - INSO STOPPED SUDDERLY - INSO DIDIN'T STOP, 7925 FRONT BUMPER HTT INSO REAR BUMPER IN CALIFIE - INSO STOPPED SUDDERLY - INST BUMPER IN STOPPED SUDDERLY BUMPER SUDDERLY - INSO STOPPED SUDDERLY BRAKED, TVP PR. XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
007630335	4	15/07/2009	4.00	1800	Wedn	2009	JULY	15 01-18 00	2	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	Report 0001 INSD HAD JUST COME OFF HWY #1. INSD
007706951		19/08/2009	4.00		Wedn	2000	AUGUST	15 01-18 00		PROPERTY DAMAGE ONLY		MCKENZIE AVE	HWY 1	40 4004770000	TOOK THE MICKENIZE ANE EXIT. INSID WAS STOPPED AT THE SS ON HICKENIZE AVE. TP CAME UP BEHIND INSID AND REARIEMED INSO, PREPRINT GOOZ. INS 7/18 MICKENIZE UN 2/2, SHADR CHECKENIN TO CHIS TO IN 1 8 DIDITY MOTION GOT CAUGHT ON PEDAL, RYENDED TP. TP NOT PUSHD INTO -123.40468100000 ANYONE; I
007/00931		13/00/2003	4.00	1000	#VCUII	2009	MUSUSI	13 01-16 00		PROPERTY DAMAGE ONE!	NEW CHU	PICKENETE AVE	mai I	46.45307200000	Report 0001 INSD & T/P 7/B ON MCKENZIE. INSD INFRONT OF T/P, INSD STOPPED FOR TRAFFIC. T/P R/E INSD. Report 0002 COLL - INS 7/B IN 1/3 DIRECTLY BEHIND TP - TP STID FOR TRAFFIC. INS HAD REACHED FOR COFFEE &
007874903	2	13/01/2010	4.00	0730	Wedn	2010	JANUARY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	DIDN'T SEE TP STP - INS SWERVED LIFT TO AVOID & -123.40468100000 IMPACTED TP L/F QP Report 0001 INS S/B ON MCKENZIE AVE IN L1/2 MAKING A
008053754	1	19/05/2010	4.00	1510	Wedn	2010	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	RHT TURN ONTO HWY. TP DIRECTLY IN FRT OF INS S. INS -123.40468100000 R/ENDED TP. INS FRT END HIT TP REAR BUMPER.;
															Report 9001. INSD ON MCKENZER AVENUE. TP DIRECTLY BEHIND. TP REAR ENDED INSDS VEHICLE - ONLY 2 VEHS INVOLVED; Report 9002. INS W/B IN 1/4. T/P AHEAD OF INS. T/P STOPD TO VIELD FOR TRAFFIC. INS BRAKED BUT URABLE TO STOP IN TIME. INS VEH SLID INTO T/PS
005924378	2	23/02/2006	5.00	0700	Thurs	2006	FEBRUARY	6 01-9 00	1	CASUALTY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123.40468100000 R/BUMPER WITH F/BUMPER. NO INJURIES.  Report 0001 INSD S/B LN MAKING R/TURN TO GO W/B,
006354689	1	21/12/2006	5.00	1700	Thurs	2006	DECEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	FOLLOWING IN LINE OF TRAFFIC, TP AHEAD STPD QUICKLY, -123.40468100000 INSD R/E TP. ;
006446776	2	22/03/2007	5.00	1700	Thurs	2007	MARCH	15 01-18 00	1	CASUALTY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	Report 0001: INSD 5/6 DM MCKENZIE AVE IN U 1/2 TO TURN SIGHT TO MERGE OWTO HUY. INSD STOPPED FOR VEH AHEAD AS A CYCLIST CUT ACROSS ROADWAY. INSD STOPPED. THE HOR DIRECTLY SERVING REARRENDED INSDS VEH. #Report 0002: OM MCKENZIE IN MERGE LAWE TO GO ONTO HINY 1, INDECTLY SERVING THE TO STOPPED SUDDERLY FOR CYCLIST. INSD R/E TP. LOW SPEED -123.40468100000 JMPMCT.
006500858	1	12/04/2007	5.00	1800	Thurs	2007	APRIL	15 01-18 00	2	CASUALTY	REAR END	MCKENZIE AVE	HWY 1		Report DOSI. INS ON INCENZE DOWNHILL, REDESTREAD ON WALKAWN, IN STORPED FOR INFO AND WAS REAR ENDED BY TO YEAR. TO PROVIDE TO MOS, RIGHT FRONT CRACKED AND DOS AND INS ON REAR BUMPER, REPORT OOK, INSO WE ON MCKETZEI MERCING ONTO HAY 1. TO STORY ON THE CONTROL OF THE STORY OF THE STARTES AND 123,4646830000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 123,464683000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 123,464683000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 123,464683000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 123,464683000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 124,464683000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,46463000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,46463000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,46463000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,46463000 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON HIS BRAKES AND 125,4646300 MISS BY T. TO SLAMMED ON THE SLAME
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006519273	2	12/04/2007	5.00	0720	Thurs	2007	APRIL	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY I	48.45967200000	-123.40468100000	
006900825		17/01/2008	F 00	0700	Thomas	2000	JANUARY	6 01-9 00		CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000		Report 0001. INS W/B 1/2 MCKENZIE: TP BEHIND INS. TP FREMMER HIT INS READOM MINE, WITHERS FROM VEH BEHIND TP. TP I XXXXXXXXXXXXXXX XXXXXXX NO TP DL OR NITE S OF SOTRIANED. REPORT 0002 INS DRW W/B MCKENZIE ST LANE 1/2 GOING STRAGHT, TP IN FRONT OF INS. TP STOPPED SARUPITY, FOR CYCLIST, INS BRAKED BUT SLID ON ICY ROADS, INS FRONT BUMPER ISTRUCK TREATS BUMPER;
																REDOR'D DOOL INS MERGING DATO TRANS CAN HWY, TP BEHIND INS. TP FAILED TO STOP AND STRUCK THE RYBUMPER OF INS VEH. REPORT DOOL INS 7/B MCKENZIE LZ/2 CHANGING LANES TO LI/2. TP DIRECTLY IN PRONT OF INS. INS FRONT BUMPER COLLIDED WITH TP'S REAR
007038981	1	24/04/2008	5.00	1615	Thurs	2008	MAY	15 01-18 00 15 01-18 00	1	CASUALTY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY TRANS-CANADA HWY	48.45967200000	-123.40468100000	BUMPER Report 0001 INS N/B ON MCKENZIE ST ON R/TURN LN - MERGING ONTO HWY 1. TP SAME DIRECTION BEHIND INS. INS STOOPED AS VEH AHEAD STOPPED. TP R/EMD HIT INS R/BUMPR; Report 0002 TRAFFIC AHEAD STOPPED TO CYCLIST. INS REARENDED TO VEHICLE.
007142697		24/07/2008	F.00	1700	71	2008		15 01-18 00		PROPERTY DAMAGE ONLY		MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	Report DOOL INS IN MERGE LANE FROM MCKERZIE TO HWY  1. TP DIRECTLY AHEAD OF INS. INS WAS SHOULDER- CHECKING. IP STPD. INS REF TP. TP WAS NOT PUSHED INTO ANYONE ELSE. Report DOOL INS HAD EXITED PAT BAY HMY & WAS OM MCKENZIE AVE OFFRAMP - TP GOING SAME DIRECTION BEHD INS - INS STOPPED FOR TRAFFIC - TP REAR RIDED INS - INS WAS NOT PUSHED INTO ANY TP REAR RIDED INS - INS WAS NOT PUSHED INTO ANY
007979570	2	15/04/2010			Thurs			15 01-18 00		CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	REPORT 0001 MVA, INSD W/B ON MCKERZIE IN UR 1/2. TP DIRECTLY IN FRONT. STOP & OO TRAFFIC. TP STPD B INSD DIDNT, INSD F/BMPS STRUCK TP REAR BMPF. ALL EMERG VEH ATT. ; REPORT 0002 INS W/B OH MOKENZIE IN LAME 1/2 STOPPING IN TRAFFIC. TP BEHIND INS DID NOT STOP IN TIME AND REPORDED INS. INS DEMYS TO REAR HATCH DOOR.
				1330	inats											Report 0001 INSD DRIVING ON MCKENZIE LN 1/2. TP DIRECTLY BEHIND. TP2 DIRECTLY ANEAD. HEAVY TRAFFIC. TP REARRENDED INSO DISHINGS INSD INST DTY (32 XXXXXXX ,REPORT 0002 INS SS MCKENZIE IN UN 1/2. TP IN FRONT OF INS IN SAME UN. TP SILOWED FOR TRAFFIC ANIEAD - INS DID NOT. INS COTE TO RYS FRONT BMPR. HIT TP CNTT REAR BMPR. TP WAS FUHSHED INTO VEH AHEAD. NO DMG
008010154	2	01/04/2010	5.00	1545	Thurs	2010	APRIL	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	TO FRONT VEH.  Report 0001 INSD & T/P 7/B ON MCKENZIE. T/P INFRONT  OF INSD. T/P STOPPED FOR TRAFFIC. ISND R/E T/P. ; Report  0002 INSD MERGING ONTO HWY 1, TP BEHIND INSD, TP
005873779	3	03/03/2006	6.00	0900	Friday		MARCH	18 01-21 00 6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000 48.45967200000		REAR ENDED INSO; I REGET ON THE STATE OF THE
006028162	2	05/05/2006	6.00	1830	Friday	2006	MAY	18 01-21 00	1	CASUALTY	REAR END	MCKENZIE AVE	ADMIRALS RD	48.45967200000	-123.40468100000	INS, SAME LAME. HEAVY TRAFFIC, INS DIDN'T SEE ANY BRAKE LIGHTS ON TP VEHICLE, BRAKED BUT TOO LATE AND INS REAR ENDED TP. TP NOT FUSHED INTO ANYONE ELSE. (Report 0002 INSO NB LIZ TRANS-CAMADA HAD JUST GONE THROUGH THE LIGHT AND HAD TO STOP FOR TRAFFIC-TP REVINEDE DINSO;
006064516	2	26/05/2006	6.00	1530	Erida	2006	MAY	15 01-18 00		PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HILLY 1	48.45967200000		Report 0001 INSURED STOPPED WAITING TO MAKE RIGHT TURN PROP MCKENZE ONTO HAY 1. TO REARENDED INSURED VEHICLE: (Report 0002 RO MERCING OFF HWY ONTO MCKANZIE: TO YEAR DIRECTLY IN PRONT. TO STOP SUDDENLY WHILE MERGING. ROS LYFRONT AREA HIT TYPS RIVEN. NO INC.
			0.00	1330	11108											Report 0001 B0TH VEHS 7/B ON MCKENZIE. INS STPD AT RED LITE WHEN TP R/E INS. NO OTHER VEHS INVOLVED. ;Report 0002 COLL?? DRVR REARENDED TP DIRECTLY IN
006450516	2	16/03/2007	6.00	0910	Friday		MARCH	9 01-12 00	0		REAR END	MCKENZIE AVE	ADMIRALS RD	48.45967200000		FRONT NO DETAILS AS AVIS REPORTING; Report 000: 1 NS 5/8 DH NECKRUZE AVE, WAITING TO MERGE ONTO ISLAND HWY, TP DIRECTLY ANEAD STARTED TO SO BUT THEN STOPPED, INS SWERVED TO AVOID BUT HIT TP. INS DWG PASS SDE PILO B F/DR. TP DING DRY SDE R/BMP & QTR RML. (Report 0002 INSO AND TP SS ON MCKENIZE AVE IN LN LY Z. TP S/E INSO. TP'S R PRONT
006550309	2	25/05/2007	6.00	1505	Friday	2007		15 01-18 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000		FENDER HIT INSO L REAR BUMPER.  REPORT 0001 INS 7/8 MACKINZIE ST STOPPED TO YIELD ONTO HWY. TP BEHIND INS DID NOT STOP & R/ENDED INS. TP F/BUMPER COLL WITH INS TRACEH HITCH. ;Report OOZ TINSO INFO ON MCKENZIE PL, LN 2/Z. TP INFRONT OF INSO. TP CHANGED LINS INTO LN 1/Z. INSO FOLLOWED. TP STOPPED SUDDERLY. INSO S FRONT BUMPER HIT REAR
006582475	2	01/06/2007	6.00	1600	Friday	2007	JUNE	15 01-18 00	lo	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000 48.45967200000		BOMPRE  ROPOT COOL 4 VEH FUE INS WIS MCKENIZIE AVE L2/2. TP3  XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX
007030477	17	120/03/2008	F0.00	11/30	(Frital)	2008	rest	12 21-10 00	I c	puraoriti I	prent off	PHONEMETE AVE	pries A	10.70907200000	-123,40406100000	

				_	_	_										
																REPORT OOD 1 INS 7/8 MCKENZIE MAKING R/T TO MERGE ONTO HWY # 1. TP WEH 7/8 MCKENZIE IN RIGHT LAKE. INS STOP FOR CYCLIST ON X-MAIK. TP R/E INS VEH. FRT OF TP VEH STER REAR OF INS VEH. INS NOT PUSHED AHEAD, NO EMERGO VEH S. (REPORT OOD 2 INSO W/B OW NOCKENZIE TURNING N/B TO ISLAND HWTP VEH DIRECTLY AHEAD OF
																INSD STOPPED SUDDENLY AS CYCLIST RODE ACROSS ST IN FRONT OF INSD. RAINING. INSD BRAKED AND SKIDDED
007272493	2	03/10/2008	6.00	1930	Friday	2008	OCTOBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	ABOUT 3 FT AND TAPPED TP R/BUMPER. REPORT 0001 INS ON MCKENZIE ST LL/2 STPING FOR YELLOW LITE. TP BEHIND INS. TP R/ENDED INS ;Report 0002 INS EB ON MCKENZIE. TP DIRECTLY AHEAS STPD ON
007802236	2	20/11/2009	6.00	0855	Friday	2009	NOVEMBER	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	AMBER LIGHT. INS BRAKED BUT SLID ON WET ROADWAY, INS STATES THERE SHOULD BE NO DAMAGE. :
	_															Report 0001 INSURED STOPPED ON MCKENZIE AT RED LIGHT. TP VEHICLE BEHIND INSURED. TP REARENDED
007118235	1	21/06/2008	7.00	0000	Satur	2008	JUNE	21 01-24 00	1	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	INSURED VEHICLE.  Report 0001 INS S/B ON TRANS CANADA HWY IN LN 1/2.
007476974	,	07/03/2009	7.00	1130	Satur	2009	MARCH	9 01-12 00	2	CASUALTY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	TP DIRECTLY INFRONT OF INS. TRAFFIC STARTED TO MOVE FORWARD & TP STOPPED SUDDENLY. INS FRONT BUMPER COLLIDED WITH TP REAR BUMPER. ;Report 0002 INSURED SB ON HMY STOPPED AT RED LIGHT. TP VEHICLE BEHIND INSURED. TP REA
			7.00	1130	5000											Report 0001 INSD W/S MCKENZIE L1/3 WANTED TO MERGE ONTO HWY 1. PEDESTRIANS WAITING TO CROSS. INSD STOPPED. TH DIRECTLY BEHIND REARRINGED INSD VEH. INSD NOT PUSHED INTO ANYTHING. Report 0002. INSD JAST RECENTLY PUT NEW REAR TIRE ON BIKE- IT DID NOT HAVE THE SAME GRIPPING POWER. TO TRAVELING AHEAD OF INSD. TS STOP FOR CYCLIST, INSD LET PROPER.
007088138	2	24/06/2008	3.00	1355	Tuesa	2008	JUNE	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	DISTANCE BUT - INSD REAR ENDED TP Report 0001 DRIVER REPTG, DOES NOT KNOW ABOUT ANY
006402979	2	18/01/2007	5.00	1600	Thurs	2007	JANUARY	15 01-18 00	0	PROPERTY DAMAGE ONLY	SIDE SWIPE - SAME DIRECTION	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123.40468100000	INCIDENT. NO DMSE TO HIS VEH.; Report 0002 INSD SW/B IN LUAVE ON MCKENZIE IN HEAVY TRPC; TP SW/B IN RYLAME, TP SIGNALLED AND MERGED W/O MESITATION, TP HIT INSD R/F, TP BACK INTO R/LANE(TO PULL OVER), INSD COULDN'T PULL OVER, 60T TP L/P.
																Report 0001 INS 7/B MCKENZIE AVE IN L/TURN LANE (3/3) & T/P ??B MCKENZIE SAME DIRECTION & PASSED OTHER
																TRAFFIC TO GET INTO LN 3/3 & 1/P R/SIDE COLLIDED WITH INS L/SIDE; Report 0002 INSD E/B ON MCKENZIE IN LN 2/3. TP INFRONT OF INSD. INSD MOVED INTO LN 3/3 & WAS FULLY ESTABLISHED IN THE LARE. TP THEN ATTEMPTED TO MOVE INTO LN 3/3 AND STRUCK INSD 8/R TIRE WITH TP
007793827	2	13/11/2009	6.00	1230	Friday	2009	NOVEMBER	12 01-15 00	4	CASUALTY	SIDE SWIPE - SAME DIRECTION	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123.40468100000	L/F DOOR, L/F BUMPER.;  Report 0001 INSD TURNED CORNER AND WAS GOING TO MERGE, INSD PANICKED & HIT GAS INSTEAD OF BRAKE.
007459367	,	03/10/2008	6.00	0200	Friday	2009	OCTOBER	0 01-3 00		PROPERTY DAMAGE ONLY	SINGLE VEHICLE	MCKENZIE AVE	HWY 1	48.45967200000	-127 40468100000	INSD SPUN OUT & HIT AS POLE. ;Report 0002 PD ONLY - XXXXXXX 4 - CONTACT XXXXXXXX
	-		6.00	0300	Friday								DW1 I			Report 0001 INS TURNING LEFT FROM MCKENZIE TO GO ONTO HWY1, INS SUDDENLY REALIZED SHE WAS IN THE WRONG LN & THERE WAS ON-COMING TRAFFIC COMING. INS WENT ONTO EASEMENT & THEN HIT TREE. DMG F/BMP
006796540	1	10/11/2007	7.00	2100	Satur	2007	NOVEMBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	SINGLE VEHICLE	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	Report 0001 MVA - INS & TP 28 MERGING ONTO HWY #1
006797972	2	26/11/2007	2.00	1720	Monda	2007	NOVEMBER	15 01-18 00	1	CASUALTY	UNDETERMINED	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	FROM MACKENZIE. INS STOPPED FOR PEDESTRIAN AT CROSSWALK. TO HIT INS REWITH FJE. NO OTHER VEHICLES INVOLVED. (Report 0002. INS SW MCKENZIE IN R/LAME. T/P AHEAD OF INS. T/P SLOWED/STOPPED & INS R/LAME. T/P AHEAD OF INS. T/P SLOWED/STOPPED & INS. R/L T/P. INS. D/MG F/E.
	_															REDAT 0001. INSD OM MICKENZIE TURNING LEFT ONTO TRANS COA PM. INSD ENTREDS INT ON GREEN LIGHT THEM WAITED FOR TRAFFIC. LIGHT TURNED VELLOW SO INSD STARTED TO TURN. TO OR ADMIRAS, SCOMING TOWARDS INSD. TH HIT INSD PLSIDE. REDAT 1002. INSD TRAY IN ON ADMIRAS. TH TRAY ON ADMIRAS AND MAKING A LIH TURN IN FRONT OF INSD. THE VEHICLES COLLIDED WHEN LIGHT WAS YELLOW. INSD MAS DAMAGE
007894511	2	04/01/2010	2.00	1730	Monda	2010	JANUARY	15 01-18 00	2	CASUALTY	UNDETERMINED	MCKENZIE AVE	TRANS-CANADA HWY	48.45967200000	-123.40468100000	TO THE FRONT END AND L/S FENDER.  Report 0001 INS NB IN 2/2 ON MCKENZIE, TP IN FRONT OF
007143064	2	30/07/2008	4.00	1600	Wedn	2008	JULY	15 01-18 00	1	CASUALTY	UNDETERMINED	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	INS IN 1/2. INS STATES AN OBJECT HIT INS W/S INS SWERVED, INS HIT TPS REAR WITH HIS LYFRONT; Report 0002 INS EB L1/2 ON MCKENZIE. TP EB L2/2. TP SWERVED INTO L1/2 AFTER SOMETHING HIT TP'S W/S. INS FELT JMPACT, HIT BRAKES AND FELT ANOTHER IMPACT;
																REDORT 0001 INSRD MERGING ONTO HWY AND TP R/E INSRD.;Report 0002 INS N/B HWY 1 IN LAME 1/2. TP IS COMING OFF MCKENZIE, MERGING INTO HWY 1, IN MERGING LANE. TP L/F HIT INS R/SIDE DOOR. INS
006318405	2	29/12/2006	6.00	1800	Friday	2006	DECEMBER	15 01-18 00	U	PROPERTY DAMAGE ONLY	UNDETERMINED	MCKENZIE AVE	HWY 1	48.45967200000	-123.40468100000	STOPPED, TP WAS GOING TO KEEP GOING.  Report 0001 INSD W/B L1/3; TP DIRECTLY IN FRT OF INSD STOPPED FOR TRAFFIC; INSD DIDN'T STOP IN TIME &
007546655	1	17/05/2009	1.00	1200	Sunda	2000	мау	9 01-12 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.4046810000	STOPPED FOR TRAFFIC; INSD DIDN'T STOP IN TIME &  R/ENDED TP; TP NOT PUSHED INTO ANYONE ELSE; TP &  INSD TALKED BUT DIDN'T EXCHANGE PLATE #5 & DL #5;
uu 3-9933	-	27/03/2009	2.00	1200	Sunda	2009	rest	2 01-12 00	-	PROFESTI EMPINAC UNLT	DAMES AND LED	INDESTINATION THAT	PRODUCE AVE	40.45907200000	-123.4040010000	REDORT 0001 SVA. INS S/B TRANS-CANADA L1/2. VERY WET RD. INS REAR WHEELS SLID. INS WENT UP ON MEDIAN,
																ROLLED ONTO R/SIDE OFF MEDIAN, ROLLED ONTO R/SIDE OFF MEDIAN & WENT INTO DITCH & THEN OUT AGAIN, :Report 0002 PD ONLY FILE# XXXXXX 0
006771912	1	02/10/2007	3.00	0352	Tuesa	2007	OCTOBER	3 01-6 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	Report 0001 ROAD RAGE INCIDENT, TP ON MOTORCYCLE.
008084084	1	22/06/2010	3.00	1130	Tuesa	2010	LINE	9 01-12 00	1	CASUALTY	CONFLICTED	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	INS WAS STOPPED & RALIGHT. TP JUMPED OFF HIS MOTORCYCLE, RAN AROUND TO INS' RAF DOOR, INS' WINDOW WAS OPEN, TP PROCEEDED TO BEAT UP INS' SON(PSGR IN INS' WHI), TP ARRESTED.;
							-/									Report 0001 INS E/B TRANS-CANADA HWY LN 1/2 & T/P 2/2 T/P CHANGED FROM 2/2 TO 1/1 & INS ATTEMPTED TO
007580503	2	24/06/2000	4.00	1047	West	3000	TUNE	9.01-12.00		CASUALTY	COMB ICTED	TRANS-CANADA HWY	ADMIRALS DO	49 45007700000	.177 40450100	SWERVE BUT 1/P LIF COLLIDED WITH INS R/F; (Report 0002 AS INSD WAS E/B TCH L 4/S, TP WAS E/B TCH L 3/S. AS INSD'S LANE IS FOR LIFT TRAFFIC, AND AS INSD WANNED TO GO STRAIGHT, INSD PROCEEDED TO CHANGE BITO L 3/S. TIPS LIFT INSO'S R/R. INSD HAN DOTS SEEN/HEARD TP;
007590503	0	01/08/2008	6.00	2310	Wedn		AUGUST	9 01-12 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	TRANS-CANADA HWY	ADMIRALS RD MCKENZIE AVE	48.45967200000 48.45967200000		Report 0001 DRIVING DOWN TRANS CANADA AND REAR- BROOT BY A US INS FROM CALIFORNIA.;
over a seriest	<u> </u>	02/00/2008		2310	rriuay	2006	M20031	21-24-00		THE PARTY DATE OF THE	poor and EU	INCOME CHARGOS LINES	Primarita in Mys.	40.4590720000	-123.4040010000	REPORT OF A US INS PROVIDE CHAPMONIAN.;  REPORT OF A US OF A U
006155088	2	11/08/2006	6.00	1653	Friday	2006	AUGUST	15 01-18 00	0	PROPERTY DAMAGE ONLY	CONFLICTED	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	NSD'S 77

Section 1					_	_	_					1		1			
March   Marc	004451303				2100		2007					LUE A D. CO.	TOAMS CAMEDA LAND	ADMIN A DO	40 4506 2300000		TRAFFIC LANE. TP COMING OPP. DIRECTION ON HWY. INS L/SIDE SIDESWIPED TP L/SIDE. NDV. ;Report 0:002. INSD N/B TRANS-CANADA HWY L1/2 GOING STRAIGHT. TP S/B TRANS-CANADA. TP CAME ACROSS INTO INSD LANE AND TPS FRONT END HIT INSD LEFT SIDE AND INSD WENT INTO
1	00001283	٤	22/07/2007	1.00	2100	Sunda	2007	JOLY	16 01-21 00		CASUALIT	MEAD ON	TRANS-CARMON TIMY	AUHIKAGS KU	40.43907200000	-123.40408100000	Report 0001 INS SB IN 3/4(LEFT TURN LANE) INS STARTED TO PROCEED, TRAFFIC STOPPED INS STOPPED, TP BEHIND INS FAILED TO STOP IN TIME R/E INS. Report 0002 INS S/B ON TRANS-CANADA HWY LANE 40F4. TP S/B ON TRANS-
10   10   10   10   10   10   10   10	005966100	2	05/03/2006	1.00	1525	Sunda	2006	MARCH	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	WITH TP R/E.;
1,000   1,00																	DIRECTLY BEHIND INSO. INSO CAME TO STOP, TP FAILED TO STOP AND R/E TP. INSO AND 2 PASS GOING TO DOCTOR, I PASS TAKEN IN AMBULANCE: Report 0002 INS N/B ON HWY 1 IN 2/2. TP DIRECTLY IN FRONT OF INS WAS STOPPED FOR TRAFFIC AHEAD AND INS REINDED TP. INS
1,000,000   1,000,000   1,00	006136211	2	16/07/2006	1.00	2229	Sunda	2006	JULY	21 01-24 00	4	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 INS WAS PSGR IN VEH THAT WAS R/ENDED.
THE COLOR DATE OF ALL PARTY CAMPAGE AND ALL	007102739	2	18/05/2008	1.00	1830	Sunda	2008	MAY	18 01-21 00	4	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	TO MAKE A L/TURN. TP BEHIND INS. TP R/ENDED INS. INS NOT PUSHED INTO ANY OTHER VEHS. ;Report 8000 DETAILS OFF OF TP CLAIM. TP VEH INFRONT. STOPPED WAITING TO TURN LITURN, INDS R/ENDED TP VEH, DMG TO
Section   Sect	007737646		21/00/2008	1.00	1110	Sunda	2000	SERVEMBER	0.01.13.00		CASHALTY.	BEAR END	TRANS-CAMADA INIV	MCVENTIE AUE	48 4506 7700000	-177 40448100000	TP BEHIND INSD. TP KEPT RUSHING UP BEHIND INSD & THEN BOXING OFF, TP CAME UP BEHIND INSD AND REARRINGED INSD.; Report 0002. INS 7/8 ON HWY 1, AT RED LITE - LITE WENT GRN - ON COMMINS AND SO TRAFFIC STOPPED - INS TOOK FOOT OFF BRAKE AND ROLLED INTO TP R/BUMPER. TP GOT OUT OF WEH FURIOUS CA XXXXXX
Section   Part   Section   Part   Section   Part		di-				301108											REPORT DODG: INS WAS STOPPED SB TRANS-CAMADA HMY LIZ, TR PIK INS, INS TRAILER B ROAT TRAILER WERE DAMAGED. ;Report DODG: INS WAS STOPPED SB LIZ, TP SB BEHIND, TP JR TW. ST FP; RET INS RE. INS HAS DAMAGE TO BOAT HE WAS TOWING B TO BOAT TRAILER, ;Report OOG. INS STOPPED IN LINEUR OF TRANSFE, ON ST MAY HMY INS FOOT SLIPPED OFF THE BRAKE R /VE TP TP VEH WAS TRUCKT KOWING A BOAT - INS STRUCK BOAT
March   September   1.2   1.	008198077	2	19/09/2010	1.00	1930	Sunda	2010	SEPTEMBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	MOTOR;  Report 0001 INS WAS ON TRANSCANADA SB IN L 2/4. TP
March Color   10   10   10   10   11   11   12   12   11   12	008297980	2	12/12/2010	1.00	1730	Sunda	2010	DECEMBER	15 01-18 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	WAS STOPPED IN L 2/4 DIRECTLY IN FRONT OF INS. INS FRONT GRILLE HIT TP R/BUMPER. INS GOT A TICKET AT THE SCENE; Report 0002 INSD S/B ON TCH, LN 2/4, STOPPED FOR R/LITE. TP HIT INSD WHILE STOPPED. DMG
Report COD.   RECOVER   REPORT   REPO	006201461	3	11/09/2006	2.00	0725	Monda	2005	SEPTEMBER	6.01-9.00	2	CASUALTY	BFAR FND	TOANS-FANADA HWY	MCNENZIS AVE	48.45967200000	±123.404681000000	JIAS. TP. XXXXXXX. BEHIND TTP2. JIMS STOPPED JIN TRAPPIC. INSPECT FIRST INPACT WHERE TE 2E INS S THEM S. CREATES BRACET WHE PROSEDED TO 2 INTO DIS AGAIN. CREATES BRACET WHE PROSEDED TO 2 INTO DIS AGAIN. STOPPED BRACET BRACET STOPPED TO 2 INTO DIS AGAIN. STOPPED BRACET BRACET STOPPED TO 2 INTO DIS AGAIN. JUNE 2017 BRACET STOPPED TO 2 INTO DIS AGAI
150   150	000201401	-	11/03/1000	2.00	0723	FIGHA	2000	JEF TEMBER	0 01-9 00		CAGOALT	REPORTED	TIONG-CANNON THE	PICKLIE AVE	40.45307200000	-123.40403100000	Report 0001 INSD VEH WAITING IN TRAFFIC FOR LITE. TP
1000   1000	006368161	2	08/01/2007	2.00	1650	Monda	2007	JANUARY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	LITE BEHIND TP - TP STOPPED - INSD FOOT SLIPPED OFF
Report 2001 ISSO W/S OF MARCHIZET BY THE 2/3 (ARRAPH). THE PROVIN BRANCED ISSO BRANCED BITS OF MARCHIZET BY THE 2/3 (ARRAPH). THE PROVIN BRANCED ISSO BRANCED BITS OF MARCHIZET BY THE 2/3 (ARRAPH). THE PROVIN BRANCED ISSO BRANCED BITS OF MARCHIZET BY THE PROVIN BRANCED ISSO BRANCED BITS OF MARCHIZET BY THE PROVIN BRANCED ISSO BRANCED BY THE PROVINCE ARRAPH BY THE PR																	FRONT OF INS - INS REAR ENDED TP ;Report 0002 INS N/B HWY 1, LANE ?/?. TP BEHIND INS, SAME LANE. INS WAS
Report 0001 ILB DRY DOWN HAY THIS BRAKED FOR TRAFFIC AHEAD. TO REAR ROW, REPORT 0007 180 ON TRAFFIC AHEAD. THE SHIPLD. THE REPORT 1007 180 ON TRAFFIC AHEAD. THE SHIPLD. THE REPORT 1007 180 ON TRAFFIC AHEAD. THE SHIPLD THE SHIPLD THE REPORT 1007 180 ON TRAFFIC AHEAD. THE SHIPLD THE REPORT 1007 180 ON TRAFFIC AHEAD. THE SHIPLD THE REPORT 1007 180 ON TRAFFIC AHEAD. THE SHIPLD TH		2			1700	Monda				0							REDAT DOOL INSD W/B ON MACKENZIE IN THE 1/3 (ONRAMP). TP IN FRONT BRAKED, INSD BRAKED BUT SKIDDED INTO TP'S VEH. INSO'S F/FMD HIT TP'S R/FMD. (REDAT 0002 INSD NB MCKENZIE ST ATTENTPING TO MERCE ONTO TRANS-CAMADA HIV. TP BEHIND INSD. INSD STO DUE TO TRAFFIC IN FRONT. TP REARENDED INSO CAUSING DOME TO INSO'S REAR BUMPER, QPANEL.
REAR END, REAR BUMPER, Regind 0002, INSO ON HIVY 1, D007984771 1 05/04/2010 2.00 1615 Mends 2010 APRIL 15 91-18 00 1 CASUALTY REAR END TRANS-CANADA HIVY MCKENZIE AVE 48.45967200000 -123.40463100000 Pictor District Property 1, D007984771 48.45967200000 Pictor Property 1, D00798471 48.4596720000	000999766	2	28/04/2008	2.00	0835	Monde	2008	APKIL	6 01-9 00	1	CASUALIT	REAK END	TIONS-CANADA HWY	MCKENZIE AVE	46.45967200000	-123.40468100000	Report 0001 INS DRV DOWN HWY INS BRAKED FOR
TOWN 14.37 (LET TURL LANE) 77# APEAD OF INS PULY STOWN 14.137 (LET TURL LANE) 77# APEAD OF INS PULY STOWN 14.137 (LET TURL LANE) 77# APEAD OF INS PULY STOWN 14.15 (LET TURL LANE) 77# APEAD OF IN	007984771	1	05/04/2010	2.00	1615	Monda	2010	APRIL	15 01-18 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	REAR END, REAR BUMPER ;Report 0002 INSD ON HWY 1, JUST BEFORE MCKENZIE TRAFFIC STOPPED & INSD R/E TP. INSD AIRBAGS DEPLOYED
Report 000: 18S SP ON TRANS CAMADA HWY BL 1/2: 19 PRINCETTL INFRONT DIS STRONG PIES A STONGER OF IRS A STONGER DIS MARKET OF 1008219865 2 04/10/2010 2.00 1215 Monda 2010 OCTORER 12 01-15 00 1 CASUALTY REAR END TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.45967200000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.4596720000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.4596720000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.4596720000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.4596720000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.4596720000 - 123.40468300000 F/FUNPERS COLL WITH INS REAR BUMPER.  REPORT OF TRANS-CAMADA HWY MCXENZIE AVE 48.4596720000 - 123.40468300000 F/F	008003154	2	05/04/2010	2.00	1330	Monda	2010	APRIL	12 01-15 00	2	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	TOWN) IN 3/3 (LEFT TUBN LAWE) T/P AHEAD OF INS FULLY STPD WAITING FOR ADVANCE GREEN MARROW IN STOOT CAME OFF BRAKED B. TAPPED T/P R/E - NOTHING VISIBLE ON ETHER VEH. RESPORT DOOZ IN INS TOPPED AT RED LIGHT, TURNING OFF LAWE FROM MIGHWAY TO MCKENZIE, LAWE 4/4, LT TURN DIVIN, TP STOPPED BEHIND INS, TP TOOK FOOT OFF BRAKE AND BUMPED INS REAR BUMPER MIDDLE. NO POLICE/AMBULANCE ATTENDED.
0093219865   2   04/10/2010   2.00   1215   Mendel 2010 OCTOBER   12 01-15 00   1   CASUALTY   REAR RIND   TRANS-CANADA HWY   MCKENZIE AVE   48.45967200000   -123.40446500000   FULLWIFE AND BURGETY SHEETING. TO PLEASE BURGET.   REAL PROPERTY SHEETING. TO PLEASE BURGET.   REAL PROPERT																	REPORT 5001 INS S/B ON TRANS CANADA HWY IN LN 1/2. TP DIRECTLY INFRONT OF INS & STOPPED. INS UNABLE TO STOP IN TIME. INS FRONT BUMPER COLLIDED WITH TP REAR BUMPER. ; Report 5002 INS S/B ON DOUGLAS/HWY AND STOPPED IN TRAFFIC. TP BEHIND R/ENDED INS. TPS
TOOK FOOT OFF THE BRAKE AND ROLLED INTO TP	008219865	2	04/10/2010	2.00	1215	Monda	2010	OCTOBER	12 01-15 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.459672000000	-123.40468100000	F/BUMPER COLL WITH INS REAR BUMPER.  Report 0.001 INS WAS ON TRANS CANADA WAY STOPPED AT RED LIGHT. TP WAS DIRECTLY BEHIND. TP R/ENDED INS. ;Report 0.002 INSD S/B LN 2/4 STOPPED FOR TRAFFIC
	006687698	2	07/08/2007	3.00	1300	Tuesa	2007	AUGUST	12 01-15 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	DIRECTLY IN FRONT

15/20

															L	eport 0001 INS TRAVELLING W/B TRANS-CANADA HWY IN N 2/3. STOPPED AT RED LIGHT. TP BEHIND INS TOPPED AND TP2 R/ENDED TP AND TP WAS PUSHED INTO
006897776	2	22/01/2008	3.00	1220	Tunes	2009	JANUARY	12 01-15 00	2	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	H B ;:	VS. ;Report 0.002 TP REPORTS TP N/B TRANS-CANADA W/F. TP STOPPED INITRAFFIC INS XXXXXXX DIRECTLY ENING TP, INS R/E TP, TP PUSHED INTO TP2 XXXXXXX Report 0.003 INS N/B TRANS-CANADA HUY 3/4. INS TOPPED IN TRAFFIC. TP XXXXXX DIRECTLY BEHIND INS. P R/E INS. INS PUSHED INTO TP2 XXXXXXX
00001110		22/01/2000	3.00	1220	1000	2000		2 01 13 00			TOUTH LITE	TOTAL GENERALITY	Principal da Seva	10.000	R T R II	aport 0001 INS(UNDERCOVER POLICE VEH) SB 2/2 ON RAWS CAMADA HWY STOOPED IN A LINE OF TRAFFIC AT A ED LIGHT. TO BENIND INS FAILED TO STOP A RIZE MS, NS NOT PUSHED INTO VEH IN FRONT; Report 0002 INS // SECOND ON THE STORY OF
007003960	2	22/04/2008	3.00	2235	Tuesa	2008	APRIL	21 01-24 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000 II	NTO ANOTHER VEHICLE: ; eport 0001 INS PREFERS TO SPEAK IN PERSON, NO ETAILS: ;Report 0002 INSD S/B TRANS-CANADA HWY LN
007070826	2	06/05/2008	3.00	1620	Tuesa	2008	MAY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000 R	/2. INSD HAD TO STP IN TRAFFIC. TP CAME FR BEHIND & /ENDED INSD. eport 0001 INSURED STOPPED IN TRAFFIC. TP VEHICLE
007071916		27/05/2008	2.00	1770	Tuesda	2000	MAN	15 01-18 00		CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	R M C III T S M 22	egoet 0001 INSURED STOWED IN THAPPICE. TO YEVERICAL PACKARNEDOD INSURED. INS PUSHED STOTO TO ZE. THREE CORE VEHICLES THEN REARRINGED EACH OTHER, SIX AREA IN TOTAL, REPORT COOL INS CONTING ARCOUND CURVE HERE NORR VEHICLES THEN REARRINGED EACH OTHER. IX CARS IN TOTAL, POLICE HAVE ALL IMPS PREPORT 0003 IVA.—MULTI VEH: IN & 6 OTHER VEHS 5/8 ON HAVY IN UN. Z. THAPPISTORDED. JUST HIT TRUCK, IN FRONT OF HER EAN VEH GREEN CAR HIT SUV BEHIND INS THEN PUSHED UN INTO INS. & STATED THE CHAIN.
00/0/1916	3	27/05/2008	3.00	1/30	Tuesa	2008	MAY	15 01-18 00	5	CASUALIY	KEAK END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	R	eport 0001 INSD STOPPED FOR RED LIGHT ON RANSCANADA AT MCKENZIE. TP BEHIND FAILED TO STOP
007530560		28/04/2009	3.00	1445	Tuesa	2000	APRIL	12 01-15 00		PROPERTY DAMAGE ONLY	DEAD END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	a T	R/E INSD.; Report 0002 INSD APPROACHING RED LIGHT. P HAD JUST SWITCHED LANES & INSD WAS SLOWING OWN. INSD REALIZED TP WAS THERE & BRAKED BUT UMPED INTO TP REAR BUMPER.;
001335300		25,04,250	3.00			2007				THE EAST DOORSE CHE	THE PERSON NAMED IN COLUMN TO THE PE	1000	The same of the sa	10.131	R B R A	aport 0001 TNS N/B ON HWY IN LN 2/2. TP DIRECTLY EHIND INS, TRAFFIC HEAVY, EVERYONE STPD FOR //IGHT, GREEN LIGHT CAME ON, LN 1/2 STARTED MOVING NO TP JUMPED THE GUN AND R/E INS. NO WITN. NO OLICE; Report 0002 TNS 7/B HWY 1. TP DIRECTLY IN RONT OF INS. INS FRONT PLATE COLLIDED WITH THYS
007603948	2	23/06/2009	3.00	1700	Tuesa	2009	JUNE	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000 T	RAILER HITCH
															F F, 11 11 11	eport 0001 INS E/B ON TRANS-CANADA HWY IN LL/2 S OR RILITE, TP DIRECTLY BEHIND INS. TP RENDED INS. TP REMINER HIT INS BEAB BUMPER. INS WAS NOT PUSHED NTO ANOTHER VEH. NO EMG VEH ATTENDED. ;Report 0002 USD S/B HWY 1 LL/2 GOING STRAIGHT, TP STOPPED VERONT OF INSD. INSD. NEVER STOPPED IN TIME AND
007959819	2	02/03/2010		1015			MARCH	9 01-12 00	2	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	R B T F B	VSD RETP. TP NOT PUSHED INTO ANY OTHER VEH port 00.01 ECAIA, INS SB TC UN 3/2; TP DIRECTLY EHIND, TRAFFIC WAS HEAVY B GOING AT A SLOW PACE. PRIPED INS HITTING INS'S KEAR HATCH DOOR WITH TP'S INS. REPORT 00.02 BOTH INS A TP 5/8 2/2 IN BUHFREN TO UMPER TRAFFIC, INS GOT LAZY A BUHFRED INTO TP, TP PRECETLY INFROOT OF INS, INS FRONT BUHFRER HIT TP
008025206	2	04/05/2010	3.00	0740	Tuesa	2010	MAY	6 01-9 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000 R	EAR BUMPER  eport 0001 INS S/B TRANS-CANADA HWY LN 2/2 & T/P  RAVELLING BEHIND INS - INS BRAKED FOR TRAFFIC & T/P
008117390	2	27/07/2010	3.00	1615	Tuesa	2010	JULY	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	F.	RAVELLING BEHIND DISS "INS BRANCH FO TRAFFIL & TYP (E BUMPED INS R/E & INS NOT PUSHED INTO ANYONE Report 0002 DRIVER ON TRANS-CANADA HWY L2/2, TP IN RNT OF INS, TRAFFIC HEAVY, TP STPD, INS R/ENDED TP;
															T	eport 0001 BOTH VEHS E/B ON HWY LN 2/2. INS STPO IN RAFFIC WHEN TP R/E INS. NO OTHER VEHS INVOLVED. NO MERG VEHS ATTD. NO WITN.; Report 0002 COLL. INSO /B T/C HWY 2/2, TP STPO (RO DOES NOT KNOW DETAILS).
008138065	2	03/08/2010	3.00	0230	Tuesa	2010	AUGUST	0 01-3 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000 II	NSD UNABLE TO STP IN TIME AND HIT TP'S REAR BUMPER.  Eport 0001 TP & INSD E/B IN LN 1/3 OF HWY, PED
008225405	2	05/10/2010	3.00	0615	Tuesa	2010	OCTOBER	6 01-9 00	2	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	å W IB P	MPAJRED?) RAM ACROSS HWY. TO BRAKED. INSO BRAKED SWERVED. INSO WEH RIFRT HIT TO VEH LIREAR, PED. HENT INTO DITCH. POLICE ATTO B. APPREHENDED PED. REPORT DIOSZ. INS SIG TRANS-CANADA HWY LN 1/2 T/P EHIND INS - INSURED HAD TO BRAKE FOR AN IMPAIRED EDESTRIAN JUST MISSING PEDESTRIAN B. TP F/E COLL. JUTH HIS RIFE.
99988		53,13,201			1000	2020	0010001			G-04-02-1	THE PT LITE		10000000		R D F O R G	eport 0001 INS S/B TRANS-CANADA HWY L2/3. TP S/B IRECTLY BEHIND THE INS. INS STP. FOR RULGHT. TP ALLED TO STOP AND REAR RUDED INS VEHICLE; Réport 002 INS S/B LN 2/2. TP DIRECTLY AHEAD OF INS. 00AD S/ERY WET. INS WANTED TO MAKE LYTURY SO WAS 00ING TO CHANGE LANES BUT ANOTHER VEH WAS THERE O INS TURNED BACK INTO OWN LAME AND REPROBLED TP.
005895903	2	11/01/2006	4.00	1800	Wedn	2006	JANUARY	15 01-18 00	2	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000 T	P NOT PUSHED AHEAD eport 0001 INSD WAS S/B IN LN 2/4 ON HWY.
006109738	2	05/07/2006	4.00	1300	Wedn	2005	JULY	12 01-15 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	A II T II L	PPROACHING LIGHT, SLOWED AS WAS AMBER. T/P BEHIND YES DIN IN 24 ALSO SIS DO IN HAY, T/P R'ENDED INSO. IP'S F/BMPR HET INSO S R/BMPR. SOME DETAILS UNCLEAR. YES OA PSSGR INDO, 'REPORT ODOZ. INSO S/B ON THE HWY YES ALSO SIGNATURE OF THE STATE OF THE SOME THE STATE MEER AND TO SLAMMED ON BRAKES BUT INSO COULDINT TOP IN THER AND INSO RE TP. TW MASN'T SUSHED INTO TOP IN THER AND INSO RE TP. TW MASN'T SUSHED INTO TOP IN THER AND INSO RE TP. TW MASN'T SUSHED INTO THE STATE OF THE STATE OF THE STATE STATE OF THE STATE OF TH
006109738	2	26/07/2006		0830	Wedn			6 01-9 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	R B E P	NY OTHER YENT;  EPIDT 0001 INS 5/8 2/2 TRANS-CANADA, TP DIRECTLY EHIND, INS AT STOP LIGHT, TP DIDN'T STOP AND REAR NOED INS, TP FRONT END HIT INS REAR END, INS WAS USHED INTO ANYONE, Report 0002 INS 7/8 TRANS ANADA HAY, TP DIRECTLY IN FRONT OF INS, INS FRONT UMPER COLLIDED WITH TPS REAR BUMPER.
006182516	2	09/08/2006	4.00				AUGUST	15 01-18 00	0	PROPERTY DAMAGE ONLY		TRANS-CANADA HWY	MCKENZIE AVE		R D II L D	egott 0001 INSD S/B TRANS-CANADA HWY LN 2/2. TP IRECTLY BEHIND INSD. TRAPPIC STOPPED AHEAD. TP R/E SED, SEGOTT 0002 INS WAS ON TRANSCAMADA HWY IN 2/2. INS SLOWING DOWN AT A RED LIGHT. TP WAS SIRECTLY IN FRONT OF INS. TP WAS STOPPED. INS REAR NOED TP. INS HAS NO ONGE FRONT BUMPER. TP HAS NO ISBUE DMGE REAR BUMPER.

Report 0001 INS 5/9 IN L2/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. TP 5/8 IN L2/4. IN 5 SIRRHS IN PLIZ/4. I	DING N/B MAKIN P RIGHT AT D L/F BUMPER INSURED VEHIC T 0003 ALBERT SURED VEH A HWY. TP W/B S STOPPED &
ON TRANS-CANADA HAY BEHTRO ITS A INS STOPPER PER PER PER PER PER PER PER PER PER	S STOPPED &
WAS GON TRANS-CAMADA HIN'N IN 123 - TP WAS DID IN PROVINCE OF IMS - TP STOPPED OR TRANSPIC - INSE	port 0002 INS TP W/B DIRECT FIC - INS REAR
006689948   2   15/08/2007   4.00   1430   Wedn   2007   AUGUST   12 01-15 00   0   PROPERTY DAMAGE ONLY   REAR END   TRANS-CAMADA HWY   ADMIRALS RD   48.49967200000   -123.4046801000000   1903 ROD 1	A. LIGHT TURNE RECTLY BEHIND INDED ;Report WY IN 3/4. TP STRUCK TP ON T
006890550 2 02/01/2008 4.00 1620 Wedn 2008 JANUARY 15 01-18 00 0 PROPERTY DAMAGE ONLY REAR END TRAINS-CANADA HWY MCKENZIE AVE 48.45967200000 -1.23.40468100000 FAST AS THE INSD.	
Report 0001 INSD IN STOP & GO TRAFFIC, INGS STIT THEN HIT FROM BEHIND BY FIP, INSO'S REAR IO,5 B O/ DULINGESON POLICE, Report 0002 INS. 5/R ON 1 CAMADA H. U. 1/2. TO BIOLECTIVA STOP AND CAMADA H. U. 1/	EAR D/S BUMPE IS S/B ON TRAN: STOP AND GO. I
Report 000 JIMSD S/R IN L/22. THE N FOOT OF INS  IN SECURITY OF THE SAME TH	NSD R/E TP. INS ED OFF BALL NSD WAS S/B TH ION, TP DIRECTI TO STOPPED VE
007450825 2 18/02/2009 4.00 1430 Wedn 2009 FEBRUARY 12 01-15 00 1 CASUALTY REAR END TRANS-CANADA HWY MCKENZIE AVE 48.45967200000 -123.40468100000 BACK.	
Report 0001 ISOS \$90 NTH NET VIZ 3 GOING STARABENT. TO BIRROW OF ISSO. THE VIZ 3 GOING STARABENT. TO BIRROW OF ISSO. THE VIZ 3 GOING STARABENT. TO BIRROW OF ISSO. THE VIZ 3 GOING STARABENT. TO BIRROW OF ISSO. THE VIZ 3 GOING STARABENT. TO BIRROW OF ISSO. THE VIZ 3 GOING STARABENT. TO BIRROW OF ISSO. THE VIZ 3 GOING STARABENT. THE VIZ 3 GOING S	STALLED AND THER VEH ;Repo
Repert 0001 INSD STOPPED AT RILITE. TP R/E INSD NOT PUSHED INTO ANTONE ARREST COLLISION INSD NB IN HIV 1 - IR-BAY, PREPRICE, SLOV COLLISION INSD NB IN HIV 1 - IR-BAY, PREPRICE, SLOV MOVING, TP DIRECTLY IN FROM: TP STOPPED, INS THE PROPRIES INSD ATMENTED AND ARREST ARR	rt 0002 VFFIC, SLOW OPPED, INSD
088182699 2 15/09/2010 4.00 1208 Weeks 2010 SEPTEMBER 9 01-12 00 0 PROPERTY DAMAGE ONLY SEAR END TRANS-CANADA HWY MCKENZE AVE 48-599/2000000 -1-23-4046801000000 (MIRICAST TAMS-CANADA LZ) STO	
RESPONDED   INCLUDE   RESPONDED   INCLUDE   RESPONDED   INCLUDE   RESPONDED   INCLUDE   RESPONDED   INCLUDE   RESPONDED   INTERPRET WHO	RAFFIC WHEN T
Report 000 I INST WAS DRIVING BYD ON IN 2/2, TO DIRECTLY IN PROVING PICTURE AND	DED TP VEH. LIGHT/HOOD. A. LN 2/2. TP
Report 0.01 INS EIP HWY I. BUMPER TO BUMPER TO FILE TO THE SERVICE OF THE SERVICE	F INS. INS R/E I L 2/2 NEARING APPROX WE INTO INSD
050021639 2 25/05/2006 5.00 0820 Thurs 2006 MAY 6 0.9 00 1 CASUALTY REAR BUD TRANS-CANADA HWY MCKENZIE AVE 48.45967200000 -123.4646810000000 F/E MET WITH INSO S RE.; AREA CRUD TRANS-CANADA HWY - TP AREA STRP FOR HERGING VEH. 7- IFOR ATTEMPTER AVIOLITY - IFOR ATTEMPTER AVIOLITY	ATTEMPTED TO : ;Report 0002 TLY BEHIND IN: ID OTHER VEH
066203235 2 07/09/2006 5.00 1450 Thurs 2006 SEPTEMBER 12 01-15 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CAMADA HWY MCKENZIE AVE 48.45967200000 -123.40468100000 R/ENDED DISD. 105D NOT PUSHED DITO VEH AHEAU	VEH AHEAD.
Report 0001. INS NB ON TRANS CAN HAVY IN LIX 1/2. DIRECTLY IN FROOT. LONGROUND HET CUT IN FROOT: TP STORE AND ILES FROM THE HET CUT IN FROOT: TP STORE AND ILES FROM THE HET CUT IN FROOT: TP STORE AND ILES FROM THE HET CUT IN FROOT: DIRECTLY BEHIND INFO. MAS DIRECTLY BEHIND HIND HAVE AND FROM THE HET CUT IN THE MASS DIRECTLY BEHIND HIND HAVE DIRECTLY BEHIND HIND HAVE DIRECTLY BEHIND HIND HAVE DIRECTLY BEHIND HIND HAVE DIRECTLY BEHIND HIND HIND HIND HAVE DIRECTLY BEHIND HIND HAVE DIRECTLY BEHIND HIND HIND HIND HIND HIND HIND HIND	IN FRONT OF TO BUMPER ;Repor 2. TP WAS NG WHEN TP RE
066287849 2 23/11/2006 5.00 1038 Thurs 2006 NOVEMBER 9 0:1:12 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CANADA HWY MCKENZE AVE 48.45967200000 1:23.404681000000 ENDED INSO, INSO, INSO, MOVEMBER 9 0:1:12 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CANADA HWY MCKENZE AVE 48.45967200000 1:23.404681000000 ENDED INSO, INSO, INSO, MOVEMBER 9 0:1:12 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CANADA HWY MCKENZE AVE 48.45967200000 1:23.404681000000 ENDED INSO, INSO, INSO, MOVEMBER 9 0:1:12 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CANADA HWY MCKENZE AVE 48.45967200000 1:23.404681000000 ENDED INSO, INSO, INSO, MOVEMBER 9 0:1:12 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CANADA HWY MCKENZE AVE 48.45967200000 1:23.404681000000 ENDED INSO, INSO, INSO, MOVEMBER 9 0:1:12 00 0 PROPERTY DAMAGE ONLY REAR END TRANS-CANADA HWY MCKENZE AVE 48.45967200000 1:23.404681000000 ENDED INSO, INSO	RECTLY AHEAD MMED ON BRAKI ROL AND SLID 'END - RADIATO V N/B ON TCH II
00561868 2 18/01/2007 5.00 1830 Thurs 2007 JANUARY 18 01-21 00 0 PROFERTY DAMAGE DILLY REAR END TRANS-CANADA HWY MICKENZE AVE 48.45967200000 1-123.40468100000 TPA (E. AUT PLYHED TOWN HA HEAD STOPED QUICKLY. INS STORE DESCRIPTION OF THE PROFESSION	
Report 0001. IIS S,98 TRANSCAMANA HWY-STOPPED  INC. TARRIES TO TAR	FOOT SLIPS OF VEH PUSHED INS LEFT W/OUT 4 STOPPED SLIPPED OFF 5D TP-TP THEN I
0.05551506 2 24/05/2007 5.00 0950 Thurs 2007 MAY 9 01-12 00 1 CASUALTY REAR RND TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INSC OLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO ; 10-12 LIGHT VIRRED GREEN, BEFORE INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 48.45967200000 172-TP2 LEFT WITHOUT EXCHANGING INFO COLD 19 FOR A DEPT. TRANS-CANADA HWY ADMIRALS RD 19 FOR A DEPT. TRANS-CANAD	PPED A RED IS COULD MOVE 002 INSD S/B ( FP2 S/B DIR AH) INSD BRAKED
	TP, TP PUSHED
Report 0001. INS NB LEFT TURN AT TO RECENT.  BEROPH TO 0001. THE NEW TO AND TO RECENT AND TO RECENT AND TO RECENT AND TO RECENT AND TO REPORT AND TO RECENT AND THE REPORT AND T	DIRECTLY WID TP REAR IN THE INSIDE INS STPD AND UMPER - TP TO
	EH-

17/20

				_	_	_					1					
																REDORT 0001. INSD WAS ON TRANS-CANADA HWY.INSD WAS STOPPED IN TRAFFIC.TP WAS DIRECTLY BEHIND INSD AND MADE CONTACT WITH INSD REAR BUMPER. POLICE ATTENDED ; Report 0002. INSD R/E TP ON TRAN-CANADA
007054843	Ž	22/05/2008	5.00	1250	Thurs	2008	8 MAY	12 01-15 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	HWY: ; Report 0001 SEE XXXXXXX 5 & XXXXXXX 3 ; Report 0002 INSD S/8 HWY 1 L1/2, TP VEH S/8 HWY 1 L1/2 IN FRT OF INSD. CROSSWALK LITES STARTED FLASHING, TP STRD SUDDENLY, INSD VEH H/F BLUMFER R/E TP VEH L/R BLUMFER, NO WITHESSES Report 0003 COLL INSD S B ON HWY. INSD SLOWED FOR YELLOW FLASHING LITE & INTERSECTION MEAST BAY BE VEH MABD BY TP. TP
007292429	2	23/10/2008	5.00	1400	Thurs	2008	OCTOBER	12 01-15 00	3	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	INTERSECTION ARBOD 8 WAS NOT VERY HARD BY 1P. 1P CHARGED WUNDUE CARE/TON HAVY, LN 2/4- INSD STP Report 0001 INSD S/8 TRANS-CDA HAVY, LN 2/4- INSD STP FOR RED LT- TO VEH. BEHIND INSD R/E INSD -NOT PUSHED INTO ANYONE-NO IN)-NO POL; Report 0002 RO IS ICIEC, AS INSD WAS S/8 TCH L 2/4, DIRECTLY BEHIND TP, WHEN TO
007838645	2	03/12/2009	5.00	1500	Thurs	2009	DECEMBER	12 01-15 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	STOPPED, INSD R/E TP. NO POL/WTN.
008009454	2	08/04/2010	5.00	1730	Thurs	2010	D APRIL	15 01-18 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48 4595770000	-123.40468100000	REPORT DOOL INSD W/H HIGHWAY 1 1.2/2 STOPPED BECAUSE OF RUSH HOUR TRAFFEL; INSO WAS RYENDED FRM BEHIND BY TP, INSO NOT PUSHED INTO WHI IN FRIT INSO CAME HOME B THEN CALLED POL; NO WITS ; REPORT 0002: COLL INSO W/B I HWY 12/2. TP IN FROMT: TRAFFIC STOWED. INSO DAYBEAMING, INSO SAN TRAFFIC IN 11/2 HOWING, INSO STAYTED HOWING, DIDN'T BEALZED TP IN PROMY HANN'T HOWED YET. INSO SAN TRAFFIC TRAINED
																Report COOI INDS S/9 IN LN I/2. INDS STOPPED AT RED LIGHT. TRAFFIC STATED TO INCOLOR OIL GREEN AND THEN STORPED AND INDS WAS RENDED BY TO VEH. INDS DMG. TO RARA BMRH. UNDESCARRILAGE. TO PION FROM BMRH. SCRATCHES. POLICE: Report 0002. INSD S/877 TRANS- CANDA HWY, LIZ. TO DISECTLY IN FROMT OF INSD. INSD. A TO WERE STOPPED AT RED LITE. TO STATED TO MOVE FORWARD, INSD STATED TO MOVE FORWARD, TO
006512011	2	27/04/2007	6.00	1900	Friday	2007	APRIL	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	STOPPED AGAIN & INSD R/E TP. Report 0001 INS ?B MERGING FROM MCKENZIE TO GO
006583395	2	01/06/2007	6.00		Friday			12 01-15 00	1	CASUALTY PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000 48.45967200000		ONTO TRANS CANADA HWY TP WAS PULLED OVER ONTO SPOULDER, AS IN WAS COUNT OF BRITE INTO DEVIVE OF THE PROPERTY O
006/3114/		05/10/2007	0.00	1030	rriday	2007	OCTOBER	10 01-21 00		PROPERTY DAMAGE UNLT	REAK END	TRANS-CARRON HIVT	PICKENZIE AVE	48.45967200000	-123.40468100000	Report 0001 COLLISION INS NE TRANS CAN. HWY L1/2
007587811	2	12/06/2009	6.00	1545	Friday	2009	JUNE	15 01-18 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	MAKING R.T ONTO MCKENZIE AVE. TP DIR INFRONT OF INS VIEW. INST HOUGHT TP WENT, TP STOPPED, INS SVE TP. INS R.F BUMPER COLL WITH TP L.R BUMPER, Report 0002 INSO N.B ON DOUGLAS, WAITING TO YIELD CONTO MCKENZIE. TP DIRECTLY BEHIND, R.E INSO. INSO NOT PUSHED INTO ANY OTHER VEHICLES; INSO HAD NOT CHANGED LAMES PRIOR
																Report 0001 INS ON OFF RAMP OF HWY, TP CAME UP BEHIND AND REAR ENDED INS. POL/FIRE/AMB ATT. INS
007916548	2	19/02/2010	6.00	1800	Friday	2010	) FEBRUARY	15 01-18 00	2	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	TAKEN VIA AMBULANCE. ; Report 0002. INSD WJB ON MCKENZIE IN MERGE LAKE ATTEMPTING TO GET ONTO PAT BAY HWY, TP WAS DIRECTLLY AMEAD OF INSD., INSD CHECKING TRAFFIC AND INSD THOUGHT TP HAD GONE AND INSD RETORY.
007996947	2	23/04/2010	6.00	1430	Friday	2010	) APRIL	12 01-15 00	0	PROPERTY DAMAGE ONLY	DEAD END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000		Report 0001 INS S/B HWY 1 L3/3. TP FOLLOWING INS. INS SLOWED FOR TRAFFIC, TP RE INS. INS WAS NOT PUSHED INTO ANYONE ELSE. NO POLICE. NO WITNESSES, :Report 0002 2 VEH FEND COLL - INS TRAVELLING ON TRANSCANADA HWY DIRECTLY BEHIND TP. TP STOPPED FOR TRAFFIC AHEAD. INS R'END INS.
008273713	2	05/11/2010	6.00	1445	Friday	2010		12 01-15 00	0	PROPERTY DAMAGE ONLY		TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000		REPORT DOUS LINE ON THE OFFEAMER FOR MCKENZIE  APPRILE TO PIN HOROTO FINE, ITS PSOPPED, VILLDING TO MCKENZIE TRAFFIC. THIS SLOWED AND ANAIOST STOPPED.  TO STRATED TO GO AGAIN, THEN STOPPED AGAIN, INS SIZE  TO, REPORT DOUS LINS ON GEFRAME FROM WIS HAVY I TO MUS MCKENZIE. TO FOLLOWING DIS. INS STOP WATTING TO ENTER MCKENZIE. TO PLUE INS. INS WAS NOT PUSHED INTO AMYORE ELSE. MO FOLICE. TO WITHESSES.
																Report 0001 INSD 7 BOUND ON HWY IN LEFT TURNING LANE STOPPED AT RED LIGHT BEHIND TRAFFIC. TO YEH DIRECTLY BEHIND INSO REARENDED INSUREDS VEH. INSD NOT FUSHED INTO ANYONE. DMG TO R/R CORNER; Report 0002 INSD WAS TRALLING ALDNG TRANS CAN HWY. TP DIRECTLY IN FETTIPO FOR A RYLITE. INSO RE TP.
005913560	2	11/02/2006	7.00	1100	Satur	2006	FEBRUARY	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	INSD'S FRT END STRUCK TP'S R/R BMPR. Report 0001 INS'D WAS N/B ON HWY - INS'D SLOWED FOR
006859809	2	08/12/2007	7.00	1702	Satur	2007	P DECEMBER	15 01-18 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000		TRAFFIC - TP DIRECTLY BEHIND RIE INS D - INS'D WAS NOT PUSHED INTO ANYONE ; Report 0002 INS WAS ON TRANS CANADA HWY IN L2/2. BUSY TRAFFIC. TF WAS DIRECTLY IN FRONT OF INS. TF STOPPED, INS REAR ENDED TP. INS HAS DMGE TO THE FRONT HOOD AREA. TP HAS DMGE TO THE
007356579	2	06/12/2008	7.00	0935	Satur	2005	DECEMBER	9 01-12 00	,	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	STOPPED FOR TRAFFIC INS UNABLE TO STOP IN TIME/BRAKES FAILED & R/E TP
		-4/14/14/00		0000	3000	2000	- COLINDA	1E VV	-	ar to so that I	The second second		The state of the s			Report 0001 INSD STOPPED FACING S/B L4/4 ON HWY 1 AT R/LIGHT, TP R/ENDED INSD, INSD NOT PUSHED INTO
007845726	1	05/12/2009	7.00	1845	Satur	2009	DECEMBER	18 01-21 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	ANYTHING. NO RECENT LANE CHANGES. NO POLICE/EMRG

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2	
_	
-2013-0011	9100

007774393	2	14/10/2009	4.00	1100	Wedn	2009	OCTOBER	9 01-12 00	0	PROPERTY DAMAGE ONLY	REAR END	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	REDATE DOIL JINS WAS STOPPED AT RED LIGHT ON HAW'I JULY 2. LIGHT TO TRANSED GREEN A TRAFFIC STAFFET TO MOVE BUT NOT THE VEHICLE AHEAD OF INS 50 INS 5
		08/09/2010					SEPTEMBER			CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000		Report 0001 INSD E/B L3/4 ON HWY1, INSD STOPPED FOR R/LIGHT. TP TRAVELING BEHIND INSD. TP SWIERVED LAST MINUTE INTO L2/4 TO AVOID HTTING INSD. TP'S TRAILER FISH TAILED AND HIT INSD'S R/R BLO, INSD NOT PUSHED INTO AVYTHING (Report 0002 INS. DE //B HWY 1. LN3/4. TP DIRECTLY INFRONT OF INS. TP STD AT R/LITE. INS URABLE TO STP. INS LOST CONTROL AS TRYNING TO AVOID
008211865	2	08/09/2010	4.00	1900	Wedn	2010	SEPTEMBER	18 01-21 00	1	CASUALTY	REAR END	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	TP. INS L/F/CORNER OF FLAT DECK HIT TP R/R/BUMPER.;  Report 0001 INS 7/B ON TRANSCANADA LANE 3/3. TP
000047047		20005/2010	1.00		54	2010		12 01-15 00		CASUALTY	SIDE IMPACT	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	122 40469100000	COMING FROM YIELD AREA ONTO HWY. TP CAME ACROSS OTHER LANES & INTO INS LANES TP COLL WITH INS RIGHT REAR DOOR AREA ; Raport GOOZ BR XXXXXX 1 HELPING INS TO REPORT. INS MADE WIDE R/TURN FROM ADMIRALS ONTO HWY 1 & 10 DI NOT SEE TP IN HIS BLIND SPOT, INS LYSIDE STRUCK TP R/REAR, INSTICKETED FOR UNSAFE LANE CHANGE. ON WITHNESSEN
008042913	2	30/05/2010	1.00	1215	Sunda	2010	MHT	12 01-15 00	1	CASUALIT	SIDE IMPACT	TIONS-CANADA RIVT	ADMIKALS KD	40.45907200000	-123.40408100000	Report 0001 INS ?/B ON TRANS CANADA HWY IN 1/2. TP
006520130	2	30/04/2007	2.00	0810	Monda	2007	APRIL	6 01-9 00	1	CASUALTY	SIDE IMPACT	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	OPPOSITE DIRECTION IN LZ/2 MAKING L/TURN. INS IN INTERSECTION ON YELLOW AND TP MADE L/TURN AND TP FRONT BOD STRUCK L/FRONT WHEEL. NO WITNESS. [Report 002] UISBO M/W BACKENZIE LZ/2 MAKING L/T CNTO TRAN-CAMADA. TP E/B MCKENZIE LZ/2 MAKING L/T CNTO TRAN-CAMADA. TP E/B MCKENZIE LZ/2 M. STO L/FRONT HIT TP L/FRONT. INSO L/FRONT HIT TP L/FRONT. INSO MAKING L/T ON YELLOW LIGHT.
																REDOT TOOL INS INE ON HWY LN 1/2- BOAT/TRAILER ON THE SHOULD TO FE GRAD-HIS PULLING OVER TO THE SHOULDER TO ASSIST. TO MERGING ON THE HHY & ADMIRALS RD, DISTRACTED BECAUSE OF THE FIRE, TP LIF STRUCK INS RYSIDE (REDOT 1002 INSO W/B MCKENZIE LL/3, MERGING ONTO TRAIS-CAMADA HHY TO HEAD INS. BOAT WAS ON FIRE AT SIDE OF HWY. TP N/B TRAIS-CAMADA. TP CROSSED INTO INSO LAME. THE ASTIDE HIT
006603744	2	09/06/2007	7.00	0700	Satur	2007	JUNE	6 01-9 00	0	PROPERTY DAMAGE ONLY	SIDE IMPACT	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	INSD L/SDIE.
006716031	2	01/09/2007	7.00	1815	Satur	2007	SEPTEMBER	18 01-21 00	1	CASUALTY	SIDE IMPACT	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	REPORT DOOL THE 7/8 TH LIK 2/4 ON TRANS-CANADA. T/P III. SAME DIR AS IR BUT DIN LI 34 (LEFT TUBIK LAME). T/P ATTEMPTED TO CHANCE TO LIK 2/4 AND INS LEFT FROM BUMER HITTP RIGHT REARGY. REPORT DOOS AWA - INS 7/8 L. 1/2. OF TWO LEFT TURK LAMES TRANS-CANADA HWY. TO YOU CAN TO WOULD THE TURK LAMES TRANS-CANADA HWY. INS CHINGO MIND & CHINGO LAMES FROM 1/2 TO 2/2. TPS LUTRIST STRUKE INS FREAK. AW ONTHESSES
																Report 0001 INS MERGED ONTO HWY FROM MCKENZIE, INS
007088472	2	27/05/2008	3.00	2120	Tuesa	2008	MAY	21 01-24 00	0	PROPERTY DAMAGE ONLY	SIDE SWIPE - SAME DIRECTION	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	N/B 1/2 HWY 1. TP /N/B 2/2 HWY 1. TP TRIED TO CHANGE 2/2 TO 1/2. TP R/REAR QP HIT IN US /FERDER/REWINDER. TP CONTINUED DRIVING. INS PURSUED TP. INS REPORTED TO POLICE. REPORT 0002. INSO 7/8 TRANS CAMADA US 3/5. TP COMING OFF OF MCKENZIE IN MERGE LANE TO GET ONTO TRANS CAMADA TO GO IN THE SAME DIR AS INSO (UN 1/3 OF TRANS CAMADA). TP CHANGED FROM UN 1/3 INTO UN 3/3. TP L/F HIT UNSO R/R.
																Report 0001 INS S/B IN LANE 2/2. ACCIDENT UP AHEAD,
007223155	2	02/09/2008	3.00	1730	Tuesa	2008	SEPTEMBER	15 01-18 00	0	PROPERTY DAMAGE ONLY	SIDE SWIPE - SAME DIRECTION	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	SO ALL TRAFFIC WAS MOVING INTO LANE 1/2, INS CHANGED LANES WHEN TP CAME UP BESIDE HIM ON LEFT SIDE TOO CLOSE, DMG TO LEFT REAR Q/P, Rapart 0002 INS S/R HWY 1 L/2, TS YB L1/2, INS LANE WAS BLOCKED BY POLICE CAR. INS STARED TO MERGE INTO L1/2. INS R/F COLL WITH TP L/REAR. NO POLICE REPT. NO WITNESSES.
																Report 0001 INS VEH ?/B TRANS-CANADA HWY L2/2. INS SLID ON HWY. INS HIT A METAL POLE ? AND VEH WENT
006315337	1	26/11/2006	1.00	2300	Sunda	2006	NOVEMBER	21 01-24 00	0	PROPERTY DAMAGE ONLY	SINGLE VEHICLE	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123 40468100000	OVER A SLIGHT EMBANKMENT., DMGE TO INS FRONT BUMPER, FRONT END.
008086238		30/05/2010	1.00	0423	Sunda	2010		3 01-6 00		PROPERTY DAMAGE ONLY		TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000		Report 0001 ECLAIM. INS NB TRANS-CANADA HWY, LOST CONTROL HITTING A SIGN & ENDING UP IN A DITCH.
000000230		30/05/2010	1.00	0423	Sunda	2010	PIRT	3 01-6 00	0	PROPERTY DAPPAGE UNLY	SINGLE VEHICLE	TIGHTS-CARADA HIVT	PICKENZIE AVE	48.45967200000	-123.40408100000	Report 0001 INS N/B ON TRANS-CANADA HWY IN LN 2/2 &
006954281	1	02/02/2008	7.00	0500	Satur	2008	FEBRUARY	3 01-6 00	0	PROPERTY DAMAGE ONLY	SINGLE VEHICLE	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	FELL ASLEEP AND WENT OFF ROAD & HIT LAMP STANDARD AND THEN INTO DITCH;
200057432		06/42/2007		0700	Th	2007	DECEMBED	6.04.0.00				TO 100 CONTROL 100		40.45047300000	122 404/04/0000	Report 0001. AS INSD W/B MCKENZIE AVE L 1/3, INSD HAS SOLWED ANIJOS STOPPED AT A MARKED XMAL DUE TO A CYCLIST APPROACHING FROM LT. AS CYCLIST MOTIONED FOR INSD TO PROCEED, INSD PROCEEDED, CYCLIST FROM RT HIT INSD'S R/F.; Report 0002. INSD 7/8 ON TRANS- CHARLES ANI F/P 7/8 ON HOLIVENZIE. T/P HAKRIS A RIGHT TURN AND MEKRING ONTO HIGHWAY. ISTO WAS IN CROSSWAIK.
006857128		06/12/2007	5.00	0700	Thurs	2007	DECEMBER	p 01-9 00	1	CASUALTY	SINGLE VEHICLE	TRANS-CANADA HWY	MCKENZIE AVE	46.45967200000	-123.40468100000	Report 0001 INS WAS S/B TRANS CANADA HWY WHEN VEH
																MADE CONTACT WITH AN OVERHEAD PASSENGER WALKWAY THAT GOES OVER HIGHWAY, DMG TO RAIL SYSTEM AT REAR
007393636	1	26/01/2009	2.00	0640	Monda	2009	JANUARY	6 01-9 00	0	PROPERTY DAMAGE ONLY	SINGLE VEHICLE	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	BEHIND CAB. THERE IS ALSO PD ;Report 0002 PD ONLY - FILE XXXXXX 8 - CONTACT XXXXXXXXX
008283103	2	01/11/2010	2.00	0725	Monda	2010	NOVEMBER	6 01-9 00	1	CASUALTY	UNDETERMINED	TRANS-CANADA HWY	ADMIRALS RD	48.45967200000	-123.40468100000	Report 0001. INS E/B HWY IN RIGHT LANE. T/P E/B AHEAD OF INS. INS STOPPED FOR T/P MERGING, INS CHECKING FOR TRAFFIC. T/P STOPPED. INS R/E T/P. INS F/E HIT T/P R/BUNNER. , Report 0002. INS VEH 7/B HWY 1 LL/Y. INS EASED FORWARD AND BRAKED WHEN INS SAW SOMETHING. TP WAS BEHIND INS. TP REAR ENDED INS. INS NOT USED INTO ANOTHER VEH ;
www.dd.bdd			2.30	37.63	Junas	2020	N. T.	0.02-2.00		www.thit!	WIND CONTRACTOR		THE STATE OF THE S		222.4040010000	Report 0001 INS N/B TRANS CANADA HWY L2/2. TP N/B
006618676	2	30/06/2007	7.00	0845	Satur	2007	JUNE	6 01-9 00	0	PROPERTY DAMAGE ONLY	UNDETERMINED	TRANS-CANADA HWY	MCKENZIE AVE	48.45967200000	-123.40468100000	TRANS CANADA HWY L1/2. TP CHANGED LANES & TP LUMRROR COLU, WITH INS RPL & R/DDOR. Report 0002 INSD N/8 OW MCKENZIE ST ON-RAMP MERGING ONTO HWY 1 CHANGING TO LANE 2/2 FROM MERGE LANE. TP N/8 CM MERGE LANE BEHIND INSD, CHANGED INTO LANE 2/2. INSD LUSIDE MIRROR HIT TP R/SIDE. ROAD RAGE????

Friday

6 7

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### British Columbia Ministry of Transportation and Infrastucture AVERAGE PROVINCIAL COLLISION RATES BY HIGHWAY SERVICE CLASS AND TRAFFIC VOLUME RANGE 01/01/2003 - 12/31/2007 (5 years), 01/01/2004 - 12/31/2007 for \*UFD4\* (4 Years)

Collisions Occurring At Signalized Intersections (LKI Landmarks A3, A5). Zero radius from intersection point.

00111010110					10100011						140 11 011																	
Traffic	$\neg$													Hig	hway Cla	ISS												
Volume (AD	тοΓ		UAU2			UAU4			UAD4			UED4 **		-	JFD4 ++ *			RAU2			RAU4			RAD4**			RFD4 **	
(vpd)		(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)	(C/MV)	(# int)	(# coll)
1-	5,000	0.87	37	188	1.40	9	80	3.93	6	82							0.91	10	47		1	2		3	13		1	3
5,001 - 1	0,000	0.54	27	187	0.83	27	270	0.57	4	34							0.68	11	113	1.19	3	35		6	23			
10,001 - 1	5,000	0.41	21	201	0.31	22	168		3	12		2	17				0.63	24	344	0.37	5	40	0.62	17	244			
15,001 - 2		0.42	11	145	0.32	19	204	0.24	10	76							0.42	11	146	0.52	4	71	0.36	10	113			
over 2	0,000	0.17	14	156	0.24	58	1004	0.36	34	1031	0.30	23	438		1	1	0.26	21	265	0.39	32	683	0.47	15	325		1	13
All Vol	umes	0.38	110	877	0.30	135	1726	0.37	57	1235	0.30	25	455		1	1	0.43	77	915	0.40	45	831	0.48	51	718		2	16

- 1. ++ For UFD4, the urban portion of Hwy #1 in the Lower Mainland (Seg. 506/508, 510/531, 550/555 w of 272nd St.), the RCMP stopped providing LKI info for these collisions from 1999 to 2003 (5 yrs). The 2003-2007 rates are low as a substantial number of collisions from 2003 are missing. The above "UFD4" rates are calculated from 2004-2007 collision data.
- 2. " All RFD4 & UFD4 at UFD4 at UFD4 at UFD4 at UFD4 at UFD4 roadways have a separate LKI segment for each direction of travel (see the "opposing LKI segments" tab for details). Therefore, the length in the tables above, which represents LKI segment length, will differ from roadway length for these 4 service classes. As well, for these 4 classes the rate is based on the collisions and volumes for each 1-directional LKI segment. Therefore
- to find an average rate by volume range for any of these 4 classes use the volume range that best represents the 1-way AADT.

  3. Provincial average intersection collision rates are artificially high due to the lack of cross-street volume data in the HAS, and the fact that the HAS analysis does not include intersections where there are zero
- collisions when calculating provincial average rates. 4. Rates for traffiic volumes and highway classes that have less than 25 collions for the 2003-2007 are blacked out. These rates are provided and can be viewed by clicking on each individual cell. The blacked-out collision rates may be used at the discretion of the person performing an analysis.
- 5. May 26, 2008 is the effective date of the data. The collision data was updated on this date and the effective LKI at the time was dated August 20, 2007. Subsequent updates to the collision data in HAS may affect

### Legend U = Urban

- R = Rural A = Arterial
- E = Expressway, mu ti-lanes with at grade intersections
- F = Freeway, multi-lane wth grade separations
- U2 = Undivided Up to 3 Lanes
- U4 = Undivided 4 or More Lanes D4 = Divided 4 or More Lanes
- Date: July 18, 2008

ADT = Average Da ly Traffic

- vpd =Vehicles per Day C/MVK = Collisions per Million Vehicle Kilometres C/MV = Col isions per Mi lion Vehicles
- # coll = Number of Collisions
- # int = Number of Intersections

- A1 = Uncontrolled Intersection (Stop Sign or Flashing Red Lights)
- A2 = Uncontrolled Intersection with Turning Slots (Same as A1 with Turning Slots)
  A3 = Controlled Intersection (with Traffic Control Lights)
- AS = Controlled intersection with Turning Slots (Same as A3 with Turning Slots)

  Less than 25 Collisions for this volume range and service class

  No HAS data for this volume range and service class

Treff c Volume (ADT) (vpd) F 1 - 5,000 5 901 - 15,000 10 901 - 15,000 15 901 - 20,000 over 20,000

British Columbia Ministry of Transportation and Infrastructure NUMBER OF COLL SIONS BY SERVICE CLASS AND TRAFFIC VOLUME RANGE 91/01/2003 - 12/31/2007 (5 years), 91/91/2004 - 12/31 2307 for "UFD4" (4 Years)

*114118440 - 1210118401	to braigh an an area - into a real to	ar ar ar (+ rearry																										
All Collisions																												
Traff c									Highway Class																			
Volume (ADT)	UAU2	UAU4		UAD4			UED4			UFD4"			RAUZ		$\overline{}$	RAL	J4			RAD4		$\overline{}$		RF104			II Highway Classes	
(vpd) F	FAT % INJ % PDO %	FAT % INJ %	PDO % FAT	16 NJ 16	PDO %	FAT %	NJ % PDO	96 16	FAT %	INJ 16	PDO 14	FAT 1	i INJ 1	6 P00	% FAT	16 BNJ	% PD0	% FAT	% A	NU N	PDO %	FAT	16 INJ	16 PD	0 % FA	T % IN	1 % PDO	% All
1 - 5 993	22 1 7% 743 37 3% 1225 67 69	6 5 7.2% 162 37.9%	261 67.0% 0	0.0% 53 44.5		0 00%	0 00% 2	100 0%				471 2		4% 10818 5	7.5% 3	22% 49 3	36 6% 84	61.8% 2	4.3% 1	19 41.3%	25 54	2% 39	7.9% 123	42.2% 166	59 56 516 54	2 2.2% 991	9 40.3% 14143 8	57.5% 24601
5 661 - 10 990	26 1.5% 619 37.4% 1001 60.9%			P 0% 26 45 61					0 0.0%	4 57.1%					0.7% 4 .		39.5% 71	57.3% 1	0.9% 3	6 24 0%	99 65	1% 12	2 (%) 229	38 6% 35	3 59 4% 16	7 2.7% 361	5 27 7% 5797 6	60.5% 9579
10 001 - 15 000	8 0.0% 442 45.0% 511 53.29			1.5% 38 56.75		1 0-6%		62.7%		25 35.2%			3% 1216 41				20.7% 135	50.7% 9		26 42.5%				39.4% 32			6 41.3% 3751 5	
15 881 - 20 990	3 1.0% 144 49.0% 147 50.0%				% 59 59 6%		10 37.0% 17	63.0%		77 33.3%			5% 247 46			1.2% 308 4					174 56				4 52.7% 4		0 42.9% 1955 5	
over 20,990	5 1 1% 193 42.4% 257 56.5%			0.4% 1025 47.3			100 40.5% 143				1045 64 170		0% 472 45			16% 971 4									62.7% 54		0 417% 9994 5	
All Volumes	63 1.2% 2141 40.7% 3141 58.8%	6 41 0 8% 2073 42 7% 2	2738 56.4% 12	0.5% 1207 46.95	% 1386 82.7%	17 0 6% 1	094 40 1% 161	5 59.2%	15 0.5%	1124 35 3%	2047 64.29	595 2	3% 11914 49	2% 17042 5	7.5% 54	7.6% 1495 4	P4 6% 1770	53 8% 27	1 1% 10	43.0%	1397 55	9% 87	7.2% 291	38 7% 463	81 69 1% 100	7 6% 250	10 40 6% 35537 5	37 8% \$1545
	At All Intersections (MV6020 Acc	ident Location Code 01,	LKI Landmarks A																									
Traff c	H ghway C ass																	Highway Class			_							
Volume (ADT)	UAU2	UAU4		UAD4			UED4			UFD4"			RAU2		_	RAL				RAD4		_		RFD4			Il Highway Classes	
(vpd) P		PAT % INJ % I	PDO % FAT		PDO %	FAT 5	NJ % PD0	9 %	FAT %	NJ %	PDO %	PAT :		6 P00	% FAT	% INJ		% PAT		NJ %	PDO %	FAT		% P0			5 POO	
1 - 5 000	12 0.8% 548 37.0% 523 62.25	6 3 0.8% 148 38.3% :	235 60.9% 0	0.0% 52 44.85									4% 2104 38		8 9% 0		36.8% 43	63.2% D	0.0%	4 28.6%	10 77	4% 0	0.0% 102		0 61 (% 14		3 38 4% 4642 5	59 7% 7770
5 001 - 10 990	8 0.8% 390 40.0% 576 59.1%		426 59.8% 0	P 0% 25 47 21	% 28 52.8%				0 00%	11 42.3%	15 57.79	35 1	3% 1028 37 3% 774 44	5% 1680 6	7.2% 1 4.7% 4	7.3% 34 4	43 6% 43	56 1% 2	17% 4	13 36 7%	74 62	2% 1	7 0% 33	33.0% 66	5 66.0% 50	7 1% 184		60.5% 4805 56.5% 3964
15 001 - 15 000	4 0.5% 335 44.7% 421 55.4% 3 1.7% 131 46.7% 150 52.8%	6 4 0.7% 196 35.4% 7 1.2% 243 45.3%	206 52.4% 2	1.0% 56 27 6	5 93 61 6%	0 00%	33 27.5% 55 7 42.8% 9	62.3%	0.00	13 37 0%	29 69 05	22 1				10% 182 4	62.8% 230	20 000 2	0.3% 15	91 43 7%	179 53	No. 5		37 2% 87	5 65 4% 21			55.2% 2342
				0.4% 1008 47.4			07 40 6% B71				549 54.75	11 1	7% 193 43 3% 379 46			1.0% 838 4								35 6% 42			2 44.0% 5209 5	
All Volumes	30 0.8% 1553 40.4% 2262 58.89	S 31 0 715 1897 43 315 2	2496 20:036 11 .	3 2% 1178 46 91	6 1321 52.6%	10 9 6%	647 40-4% 843	58 9%	4 04%	329 34.9%	593 64.7%	207 1	8% 4475 40	0% 6509 3	8.2% 27	1 1% 1147 4	89-296 1382	59.7% 17	P.956 73	98 42 1%	9023 56	976 11	0.8% 478	36 5% 82	4 62.7% 34	8 7 2% 129	86 41 4% 17293 1	77 4% 30125
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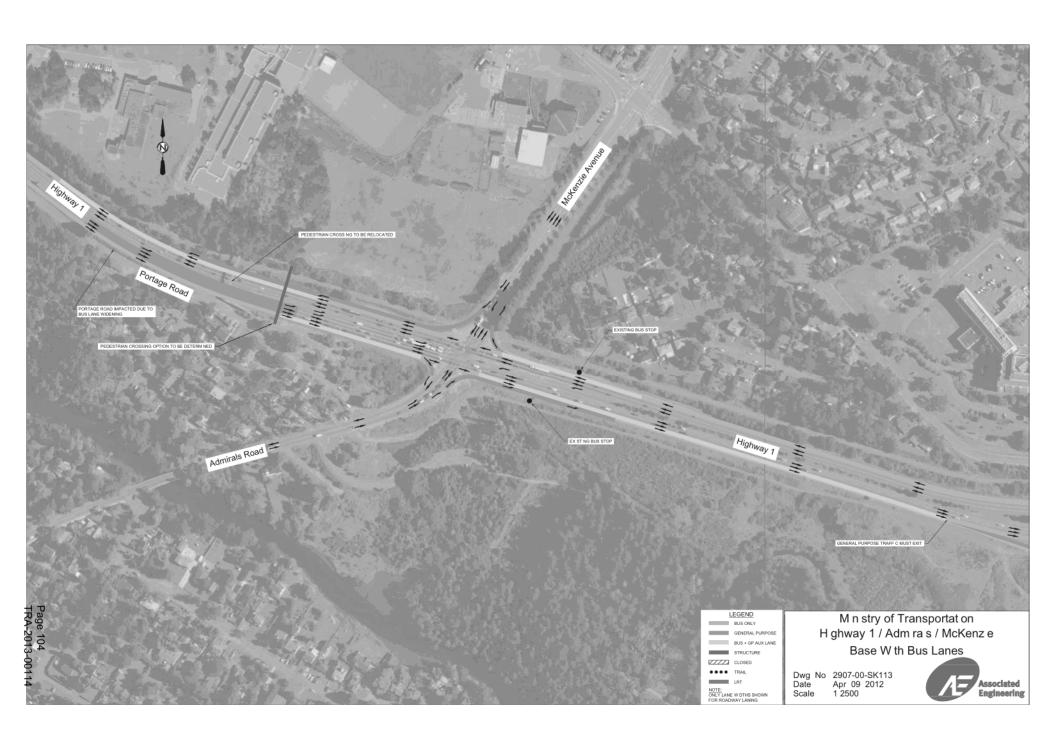
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# Appendix C

**Breakdown of Cost Estimates** 

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### Memorandum

**To:** Janelle Erwin, P.Eng., Ministry of Transportation and Infrastructure

From: Paul Butterfield, BSc, AScT, District of Saanich

**Date:** 15 July, 2010

Re: Synchro Modelling of Dual Right Turn lanes on McKenzie at Hwy 1

Saanich Engineering Department was asked to create a Synchro model of a potential future scenario that included two right turn lanes westbound on McKenzie Avenue to Highway 1 northbound [this keeps the Ministry designation of highway 1 as north-south].

Saanich acquired the traffic volume counts available from the Ministry web site (1999 – 2006) and various relevant traffic signal downloads (2007 – 2009). These traffic volumes were compared to the 2010 Uptown traffic model that included the finished Uptown Shopping complex; which likely is equivalent to a 2013 model. Traffic signal timing was assumed to reflect existing conditions; the basis for this model came from the Bunt Synchro model for Uptown Shopping Centre.

The traffic volumes indicated in the traffic signal downloads were considerably lower than those presented in the model, so the model volumes were kept along the highway 1 corridor. Some adjustments were made where it appeared the signal controller had higher volumes (i.e. SB LT from Hwy 1 to McKenzie and WB RT from Tillicum to Hwy 1) and some were lowered in the model where it likely made sense (i.e. through traffic on McKenzie and Admirals crossing Hwy 1).

Once the model seemed adequate across the links (volume balancing was roughly equalised and minimised) new geometry was introduced into the model. The following scenarios were developed:

### 1. Simple Lane Addition (2010 Dual RT.syn)

In this scenario a right turn lane was added westbound on McKenzie Avenue to Burnside. An additional merge lane was added on Hwy 1 to accommodate two turning lanes (free turn). The dual merge lanes were taken to mirror the dual SB LT lanes in length, and a single merge lane to mirror the length of the single SB LT lane. The upstream lane includes a free right turn from Burnside on to McKenzie to develop the additional lane.

In this scenario the assumptions were:

- The crosswalk that forms part of the Galloping Goose Regional Trail would hold all foot and bicycle traffic on the trail prior to the delta island until the northbound green phase for the traffic signal started. The pedestrian crosswalk would have automatic (not pushbutton control) for this crosswalk only during daylight hours that gave adequate time for pedestrians and cyclists to get from the trail head on either side fully across the intersection.
- Synchro can not model the channelised RT lanes interaction with crossing pedestrians.

Result: Although two lanes are now available to the McKenzie traffic, the queues continue to extend upstream on McKenzie to a significant length. The link between Burnside and Highway 1 has significant spare capacity

### Not Responsive

Result: McKenzie is relatively clear (no queues extend beyond the overpass above Interurban Road

Not Responsive

Not Responsive Next scenario will see if simply a longer merge lane with one right turn is effective.

### 3. Scenario 2 with Only One Merge Lane (2010 Dual RT Rev2.syn)

This scenario reduces the laning from McKenzie westbound to a single (as existing) right turn lane, but extends it per Scenario 2. This also keeps the signal revisions in scenario 2.

<u>Result:</u> McKenzie remains relatively clear with queues extending upstream from Burnside to the Interurban overpass; just slightly longer than scenario 2.

### Summary

There are several findings that can be taken from these models.

- 1. Dual right turn lanes may not necessary to achieve significant capacity gains from McKenzie to Highway 1 northbound.
- 2. The Galloping Goose Regional Trail significantly hampers the McKenzie right turn lane.
- 3. Another model to review the sensitivity of the length of the merge lane on Highway 1 from McKenzie would need to be run.
- Signal timing adjustments for the PM Peak period may increase capacity along McKenzie if sufficient capacity gains at Highway 1 (Galloping Goose crossing) can be realised

### Recommendations

Synchro does not effectively model the crossing of pedestrians to the delta island, therefore the model underestimates the delay for the right turn from McKenzie to Highway 1, however, even with this drawback comparisons between the models can be inferred that suggest exploration of a detailed analysis of the effect of the Galloping Goose Regional Trail GGRT on the McKenzie (and Highway 1 northbound merge effect) should take place. This may require VISSIM or some other software to explicitly model this effect.

It appears that immediate capacity gains may be achieved by limiting the pedestrian and cycling flow across the GGRT crossing of the McKenzie merge lane to Highway 1 northbound. It is recommended that the Ministry of Transportation and Infrastructure investigate options for treatment of the GGRT to control it's movement across the McKenzie merge lane. This option is likely the most cost effective scenario that appears to provide significant capacity gains.

# Agenda

- Traffic Assessment Results
- Constraints Analysis
- Options Selection / Pre-Screening

# raffic Assessment Results

Presentation by Daniel Fung

# Constraints Analysis

Presentation by Daniel Fung and Marco Guarnaschelli

## Options Selection / Pre-Screening

- · Aim:
  - To pre-screen options on the basis of work done to date for further refinement and Multiple Account Evaluation
- Initial Options Description
- Overall Review Based on Initial Matrix Fatal Flaws ?
- Detailed Criteria Evaluation
- Overall Review Based on Final Matrix
- Selection of Three Options for Detailed Analysis

# Initial Options Description

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## Evaluation - Criteria

- Additional Capacity
- Network Operations
- Cost
- Safety
- Transit
- LRT

- Galloping Goose Trail
- Alternative Modes
- Socio-Community
- Environmental
- Constructability
- Stageability

# Evaluation – Additional Capacity

#### Comment

### Rating

## Evaluation – Additional Capacity

Comment

Rating

## Evaluation - Cost

#### Comment

### **Rating**

# Evaluation – Safety

#### Comment

### Rating

## Evaluation – Transit

#### Comment

### Rating

## Evaluation - LRT

#### Comment

### Rating

# Evaluation – Galloping Goose

Comment

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## Evaluation – Alternate Modes

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## Evaluation – Alternate Modes

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## Evaluation - Environmental

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# Evaluation – Constructability

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# Evaluation – Stageability

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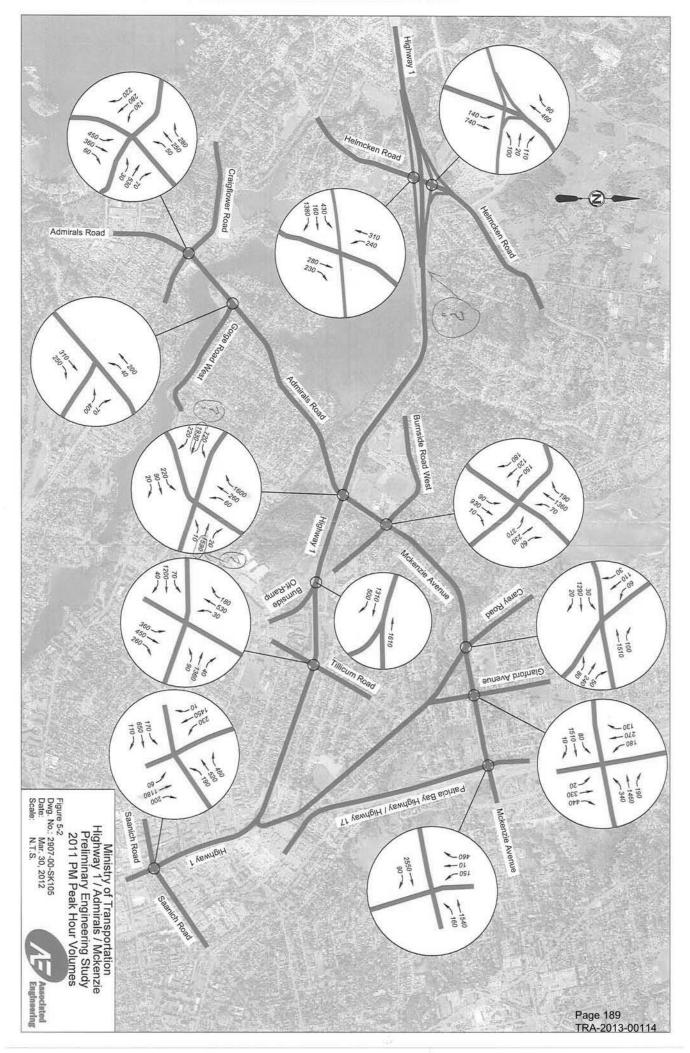
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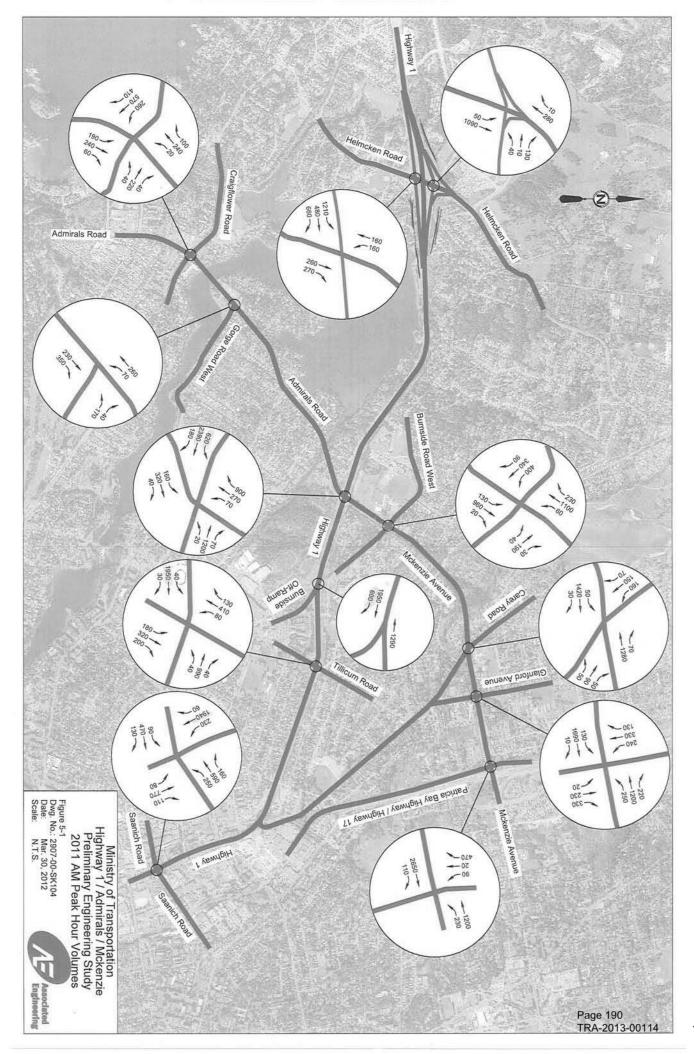
# Final Review – Other Options?

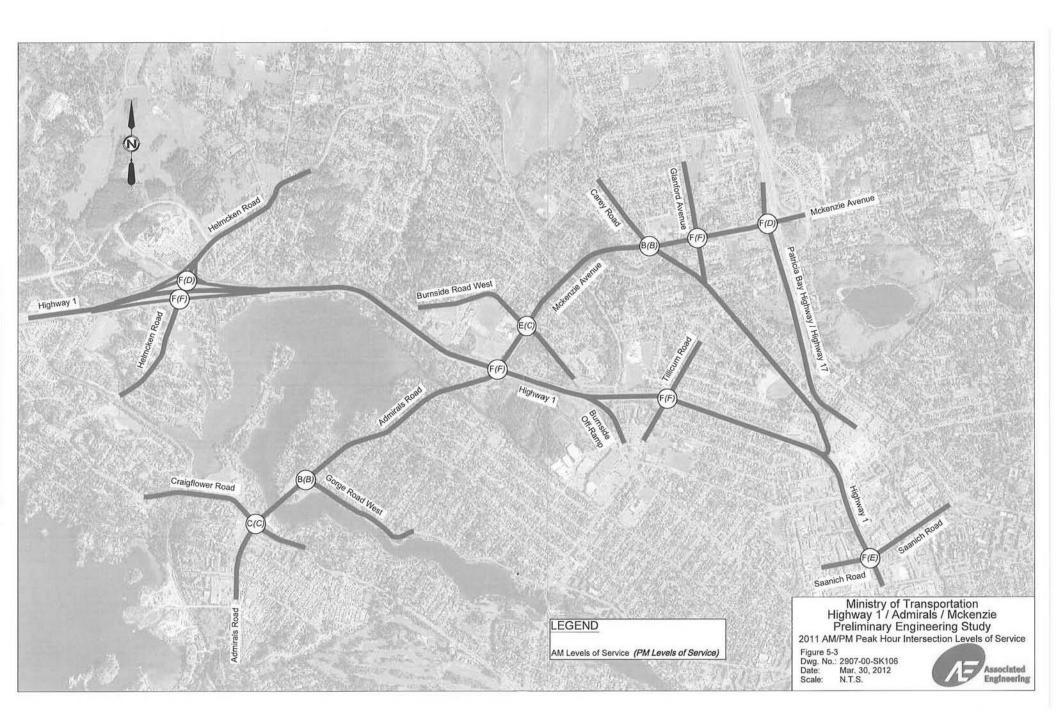
# **Option Selection**

Three options to be selected for further, more detailed analysis under a Multiple Account Analysis framework

- First Option:
- Second Option:
- Third Option

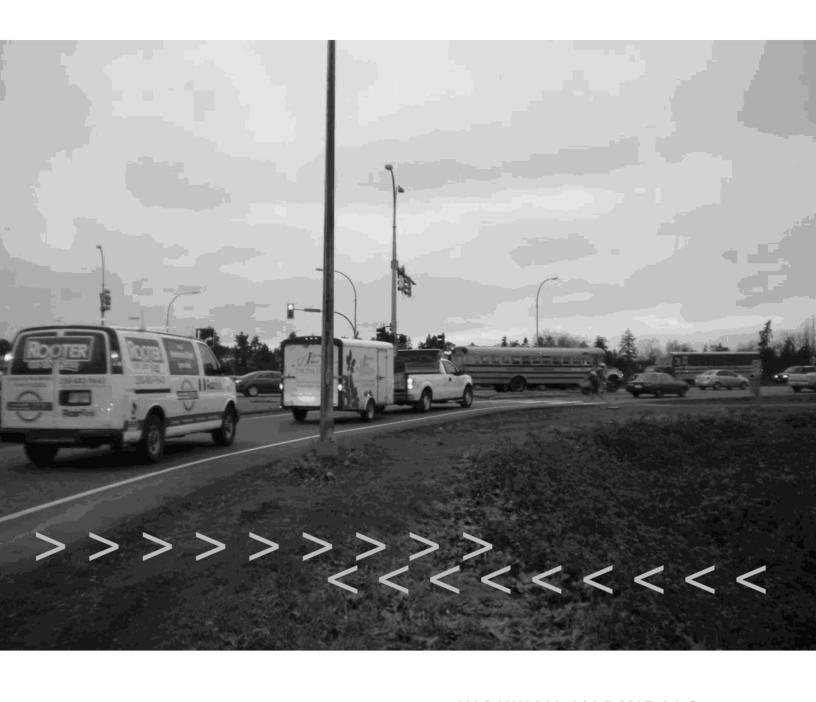






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Ministry of Transportation and Infrastructure

DATE: July 20, 2011

File: 1224

#### **EXECUTIVE SUMMARY**

This study reviews the conditions at the intersection of Highway 1/Admirals Road/McKenzie Avenue including traffic, transit, and the north Galloping Goose crossing. As the busiest intersection in the CRD, Highway 1 / McKenzie Avenue experiences very large traffic volumes, delays and queues, which are contributing to safety and operational concerns. In addition, the Galloping Goose Regional Trail crosses at this intersection, adding safety concerns between cyclists / pedestrians and vehicle traffic. Existing conditions plus nine scenarios were developed and reviewed to assess potential mitigation measures that may improve conditions. This list of options was not meant to be an exhaustive list of all possible options, but a starting point to gain an understanding of the relative benefits of the options. This study is intended to explore solutions for existing operational conditions and not a study to determine long term solutions. The focus of this technical study was on travel delay experienced by all users as well as conflicts and safety, with a focus on safety of pedestrians at the Galloping Goose Trail crossing of the westbound right turn lane.

A thorough review of historical and existing conditions was undertaken to develop a baseline for comparison. Over the past twenty years there has been steady growth on Highway 1 north of McKenzie Avenue/Admirals Road/Highway 1 averaging slightly more than 2% per year. Ten years of historical traffic volume data were collected and analyzed to determine any changes in pattern. No significant change in traffic pattern has occurred at the intersection; however, there has been some spreading of the pm peak traffic period from 4pm-6pm to 3pm-6pm. The westbound right turn movement has seen significant spreading of peak periods and growth throughout the day. Similarly the southbound left turn movement has seen significant growth in volumes between 9am and 6pm such that the pm peak hour is within 50 vehicles per hour (vph) of the am peak hour.

Conflicts between Galloping Goose users and westbound right turn vehicles were observed and broken down in the following categories: no vehicle present, car stopped in advance of crossing, car stopped safely near crossing, stopping conflict, and accelerated through the crossing. In the am peak hour 8% of interactions resulted in a stopping conflict or a vehicle accelerating through the crossing. In the pm peak hour the percentage is lower at 5%. This is likely because in the pm peak hour there is effectively continuous and slow moving vehicle traffic that can easily stop for any pedestrians and cyclists present. Therefore the Galloping Goose crossing risk is potentially less when there is peak (at capacity) west-to-northbound right turning traffic volume.

Observations of weaving along McKenzie Avenue between Burnside Road and Highway 1 observed 10 vph turning right from the westbound through lane, 171 vph merge at Burnside Road, 145vph

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merge mid-block, and 42 vph merged right at the right turn island. The northbound left turn movement from Burnside Road at McKenzie intersection was also observed for several cycles and found that 86% of vehicles turning left onto McKenzie Avenue turned directly into the outside lane and 30% of the vehicles conflicted with southbound right turn vehicles.

A review of the westbound queue on McKenzie Avenue observed that by 3:55pm the queue extended back beyond Burnside Road to the Interurban Bridge (700m queue length). Within 30 minutes the queue extended back through multiple intersections and exceeded 2km.

The nine scenarios developed include signalizing the westbound right turn movement with a single and dual turn lane, addition of a second eastbound through lane with existing phasing and split phasing, addition of a third southbound through lane, addition of a southbound queue jumper lane, optimizing existing timings, and a flyover that would eliminate the southbound dual left turn lanes.

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9.0 Next Steps / Additional Study

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#### 1.0 INTRODUCTION

Boulevard Transportation Ltd. was retained to review the existing traffic operation at the intersection of the Trans Canada Highway (Highway 1), Admirals Road and McKenzie Avenue and related issues, including the interaction of cyclists/pedestrians at the Galloping Goose crossing. The focus of this technical study was on travel delay experienced by all users as well as conflicts and safety of pedestrians at the Galloping Goose Trail crossing the westbound right turn lane. A range of potential improvement options were identified by staff from the District of Saanich, Ministry of Transportation & Infrastructure (MoT), and Boulevard Transportation Group. The improvement options were not meant to be an exhaustive list of all possible options, but meant as a starting point in order to gain an understanding of the relative benefits of the options.

The work was intended to explore solutions to address operational issues that exist today. It was not meant to be a study to determine the long term strategy for this location.

For the purposes of this report the approach legs to the intersection were designated as follows: Highway 1 is the north leg (up island) and south leg (Victoria), Admirals Road is the west leg and McKenzie Avenue is the east leg. Also, Burnside Road is designated as north-south at McKenzie Avenue

#### 2.0 DATA COLLECTION

Field data collection was undertaken February 1 to 3, 2011 between 8am and 9am and 4pm and 5pm. Field data collection included observations and measurement of the westbound queue length on McKenzie Avenue, observations and recording of cyclist/pedestrian and vehicle interactions at the north Galloping Goose crossing, and observation and recording of vehicle weaving manoeuvres westbound on McKenzie Avenue between Burnside Road and Highway 1.

#### 2.1 Traffic Volumes

Annual Average Daily Traffic (AADT) was collected from Saanich's 2008 daily traffic volume map and growthed by 2.5% per year to obtain 2011 AADT. (2.5% growth rate was determined based on average growth at permanent count station P-11-1NS.) The 2011 AADT on Highway 1, south of McKenzie Avenue is 50,100 vpd and north of McKenzie Avenue is 71,000 vpd. On McKenzie Avenue the AADT is 31,800 vpd and on Admirals Road the AADT is 13,500 vpd.

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The following AADT volumes are provided for comparison purposes:

Table 1: AADT for Various Highways within BC

Location	AADT
Highway 1, north of McKenzie Avenue	71,000vpd
McKenzie Avenue	31,800vpd
Admirals Road	13,500vpd
Highway 1, north of Helmcken*	83,250vpd
Highway 1, north of Goldstream Avenue*	24,750vpd
Highway 17, south of McTavish Road*	34,300vpd
Highway 17 at Ladner Truck Road*	10,000vpd
Highway 5, 12km north of Hwy 3 (Hope)*	11,000vpd
Highway 5, north of Paul Lake Road (Kamloops)*	11,300vpd
Highway 97, 0.6km north of Kelowna Airport Access	27,000vpd
Highway 97, 1.12km south of Hwy 33 (Kelowna)*	54,900vpd
Highway 1, east of Bradner Road, Abbotsford*	71,000vpd
Highway 1, west end of Port Mann Bridge*	115,000vpd

<sup>\*</sup>Adjusted to 2011 levels using a 2% per year growth rate.

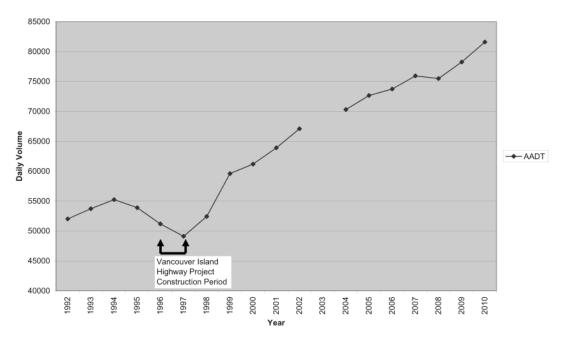
A review of AADT traffic volumes on Highway 1 at the nearest permanent count station (located on Highway 1 south of Route 1a/14 and West Burnside Road) to this site was undertaken to determine the growth in Highway traffic over the last 20 years. In the last 20 years, traffic volumes on Highway 1 have increased by 57% (52,015 to 81,602 vehicles per day). This an average growth rate of 2.28% per year. As the graph below illustrates, traffic volumes increased until the mid-1990's when construction of the Vancouver Island Highway Project started to impact highway traffic. This decrease in volume continued through the construction period, but then began to increase and by 1999 the volume was greater than pre-construction levels.

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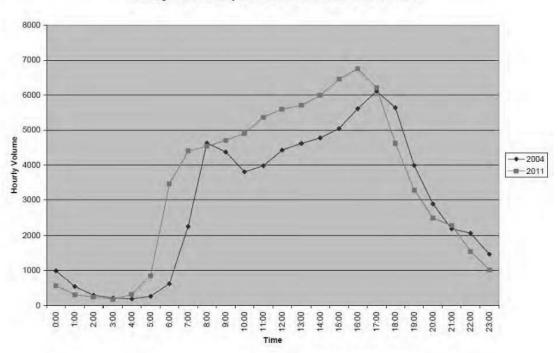


A review of the average daily traffic per hour at permanent counter P-11-1 was also reviewed. Hourly data per day was collected for March 2004 and March 2011. The hourly volumes were averaged for the month by dividing the each hour's data by the number of days with data. The following graphs outline the average volume per hour per day and the average volume per hour per weekday for March. (March was selected as representing typical conditions.)

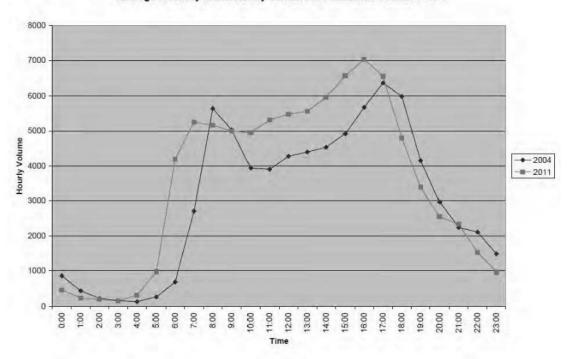
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#### Average March Hourly Volumes at Permanent Counter P-11-1



#### Average Weekday March Hourly Volumes at Permanent Counter P-11-1



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With and without the weekends included in the data the graphs illustrate that at 6am there has been a dramatic increase (+3,000 vph) in traffic and that the am peak has spread over several hours rather than a distinctive one hour peak. The mid-day pattern shows a similar pattern between 2004 and 2011; however 2011 has consistently higher volumes. In the afternoon the peak hour is occurring earlier than in 2004 and has spread over several hours. However, following the end of the pm peak period traffic levels drop off faster in 2011 than they did in 2004 and remains at or below 2004 levels between 6pm and 3am.

Historical twenty four (24) hour traffic volume data, from signal downloads, was collected from the Ministry of Transportation and Infrastructure for the following periods:

- June 1999
- July 2006
- August 2007
- February 2009.

Since the historical traffic volume data ranges from late winter to summer traffic volumes traffic data from the nearest permanent count station was collected to get an average weekday hour by hour ratio of February to July volumes. Traffic volume data by hour was collected from permanent count station P-11-1NS (Route 1 South of Route 1a/14 And West Burnside Road in Colwood). **Table 2** summarizes the hour by hour ratios of winter to summer volumes in 2009.

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Table 2: February to July Ratio by Hour

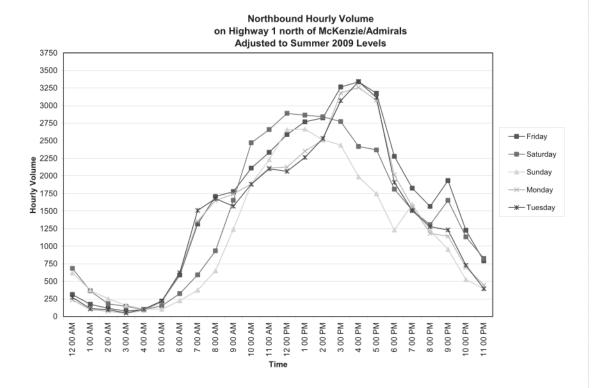
1:00 AM       1.38         2:00 AM       1.11         3:00 AM       1.12         4:00 AM       1.14         5:00 AM       1.03         7:00 AM       0.97         8:00 AM       0.98	
3:00 AM       1.12         4:00 AM       1.14         5:00 AM       1.12         6:00 AM       1.03         7:00 AM       0.97	
4:00 AM       1.14         5:00 AM       1.12         6:00 AM       1.03         7:00 AM       0.97	
5:00 AM 1.12 6:00 AM 1.03 7:00 AM 0.97	
6:00 AM 1.03 7:00 AM 0.97	
7:00 AM 0.97	
8:00 AM 0.98	
9:00 AM 1.1	
10:00 AM 1.2	
11:00 AM 1.2	
12:00 PM 1.19	
1:00 PM 1.19	
2:00 PM 1.13	
3:00 PM 1.08	
4:00 PM 1.04	
5:00 PM 1.1	
6:00 PM 1.16	
7:00 PM 1.27	
8:00 PM 1.38	
9:00 PM 1.31	
10:00 PM 1.3	
11:00 PM 1.24	
Daily Average 1.13	

As the table outlines in the summer months traffic volumes are higher for the majority of the hours of the day. However, between 7am and 9am the summer traffic volumes are slightly less than in the winter. In the afternoon peak the summer volumes are only slightly higher than winter conditions. These ratios were used to adjust the February 2009 volumes to estimated July 2009 levels. For the purposes of comparison the Summer 2009 volume will be utilized so all of the historical data is based on summer months.

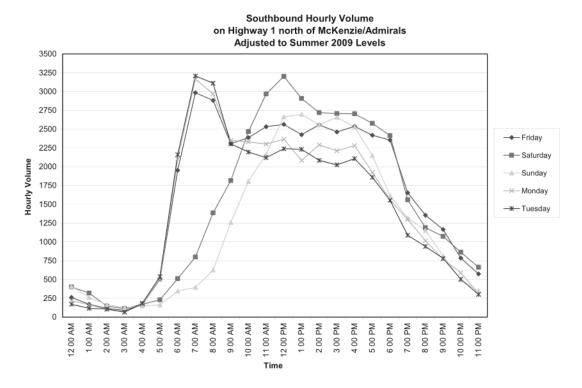
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Hourly traffic volumes north of the McKenzie Avenue/Admirals Road/Highway 1 intersection were reviewed by weekday using the 2009 data. The follow charts outline the northbound and southbound volumes by hour and day of the week.



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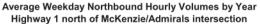


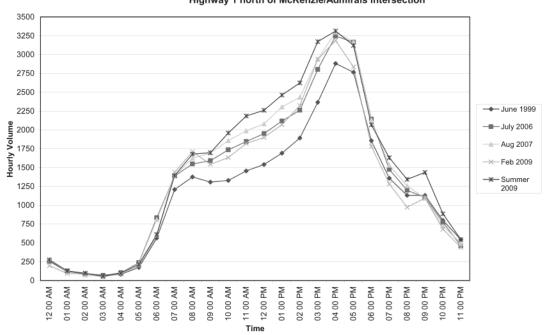
In the northbound direction the weekday traffic volumes have a similar pattern with traffic increasing through out the day until 3pm when a several hour peak occurs until 5pm then starts to decrease again. On the weekends there is a different pattern with traffic increasing earlier than on weekdays and sustaining a lower, but longer peak period.

In the southbound direction, again the weekdays have a very similar pattern for each day of the week. Volumes peak in the am at 7am and continue until 9am when they decrease to a consistent level until dropping again after 5pm. On the weekends traffic has a significant peak mid-day which is similar in volume to the weekday am peak; however, overall weekend volumes increase in the morning and remain steady until decreasing the late afternoon.

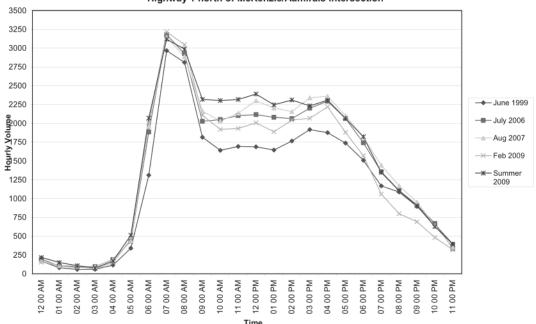
Average weekday traffic volumes over the last 10 years were reviewed to determine if there has been a growth in traffic volumes during the peaks and /or if there has been a shift or lengthening in the peak hours. Volumes were reviewed for a screenline north of the Admirals Road/McKenzie Avenue/Highway 1 intersection.

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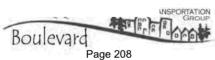




#### Average Weekday Southbound Hourly Volumes by Year Highway 1 north of McKenzie/Admirals intersection



In the northbound direction there has been a lengthening of the pm peak hour. In 1999, the peak hour started at 4pm and ended at 6pm; however the traffic volumes at 3pm have been increasing to create a



peak period from 3pm to 6pm in 2009. Traffic volumes between 10pm and 7am (night time) have not significantly changed over the last 10 years; however volumes have been steadily increasing in the period between 7am and 10pm. In the peak hours, since 2006 there has been less than 100 vph difference in the traffic volumes indicating that the road network may be over-saturated during these periods.

Historical traffic volumes were also reviewed for each of the key movements at the intersection to determine the change in volumes over the last 10 years.

#### 2000 1800 1600 1400 1200 June 1999 Hourly Volume July 2006 Aug 2007 1000 Feb 2009 -Factored 2009 800 600 400 200 0 2 00 AM 3 00 AM 4 00 AM 5 00 AM 7 00 AM 12 00 PM 5 00 PM 12 00 AM 1 00 AM 6 00 AM 8 00 AM 10 00 AM 1 00 PM 2 00 PM 3 00 PM 7 00 PM 9 00 AM 6 00 PM 11 00 AM

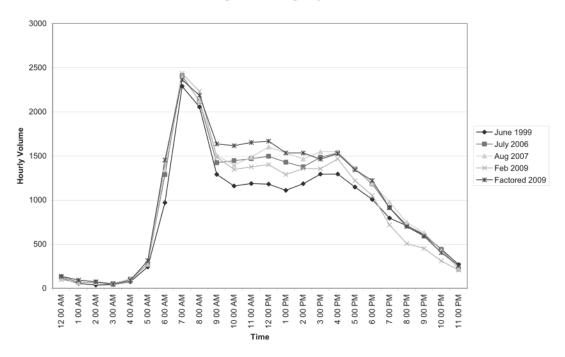
#### Northbound Through Volumes at Highway 1/Admirals/McKenzie

For the northbound through movement there has been a steady increase in traffic between 9am and 2pm; however after 2pm there has been no significant change in traffic volumes over the last 10 years.

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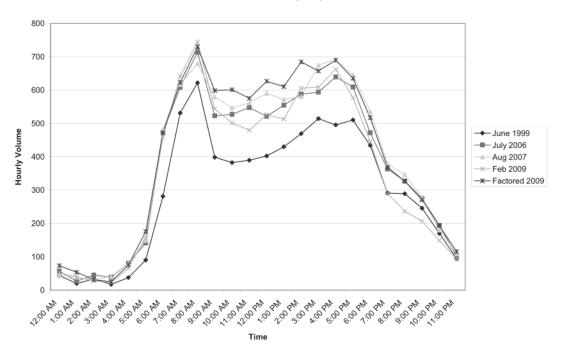
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#### Southbound Through Traffic at Highway 1/Admirals/McKenzie



There has been no change in the traffic pattern throughout the day in the past 10 years. In the southbound direction there have been slight increases in traffic volumes (150 vph in 10 years) during the am peak hour; however, it is the mid-day volumes that have seen a more significant increase in traffic. This indicates that in the am peak hours the road is at capacity and can't accommodate any more volume, while mid-day there is spare capacity. In the am peak hour there is close to 2,500 vph travelling southbound through the intersection or 1,250 vph per lane. This volume of traffic is at the upper end of the range a traffic signal can typically handle (depending on side street demand). As the counts indicate additional traffic isn't able to travel through the intersection southbound during the peak hour, which accounts for the long queues and delays in the am peak hour. It is estimated based on the queues (typically extend back past Six Mile Road interchange) there is an additional 650vph or more trying to travel southbound through the signal, but are unable due to a lack of capacity at the traffic signals. Therefore, based on existing traffic volumes the southbound through movement is significantly over capacity creating long delays and queues in the am peak hour.

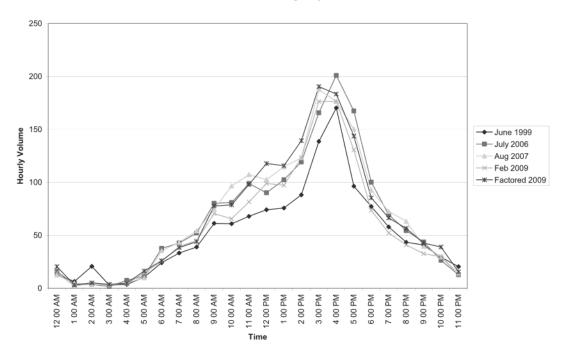
#### Southbound Left Turn Volume at Highway 1/Admirals/McKenzie



The southbound left turn lane peaks in the am peak hour; however over the last 10 years there has been a steady increase in the volume of left turners between the am peak hour to pm peak hour. The pm peak hour volumes in 2009 (factored to summer) have significantly increased in the past 10 years and the pm peak hour volumes are within 50vph of the am peak (which is the highest volume of the day). The high volume of southbound left turners in the pm peak hour competes with the high northbound through movement for green time at the intersection.

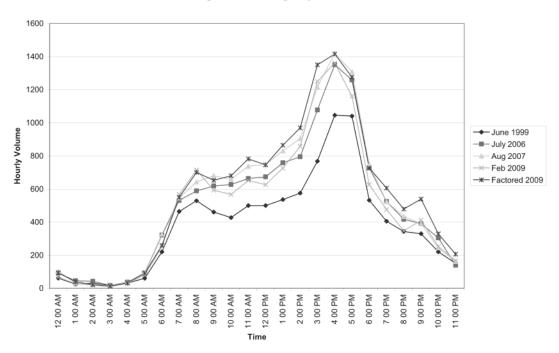
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#### Eastbound Left Turn Volume at Highway 1/Admirals/McKenzie



The eastbound left turn movement from Admirals Road to Highway 1 has experienced a change in traffic pattern in the pm peak hour. Prior to 2007, the peak hour occurred in a single hour at 4pm; however, since 2007 the volume at 4pm has dropped slightly, but the 3pm hour has increased and created a two hour peak.

#### Westbound Right Volume at Highway 1/Admirals/McKenzie



The westbound right turn movement from McKenzie Avenue to Highway 1 has increased by over 350 vph in the pm peak hour in the last 10 years. In addition the peak has spread from two hours (4-6pm) to three hours (3pm-6pm).

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2.2 Conflict Analysis - Galloping Goose Trail Crossings

Conflicts were investigated between right-turning westbound to northbound vehicles and pedestrian and cyclist traffic on the Galloping Goose trail crossing between the northwest corner and the pork-chop island. The AM data was collected between 7 and 8 AM on February 3 2011, and the PM data

was collected between 4 and 5 PM on Feb 2 2011.

The conflict analysis was assessed by counting the number of pedestrian and cycling crossings, and assigning that crossing event to a conflict category. Five conflict breakdown categories were

established, as follows:

• No vehicle - where no vehicle was present (i.e. unimpeded cyclist or pedestrian)

 <u>Car stopped</u> – where a vehicle was stopped in advance of the crosswalk before a pedestrian or cyclist arrived (either due to queuing from the merge lane or for stopping for earlier cyclists /

pedestrian crossings). These are considered conflict free interactions.

• Stopping safely – this is where a vehicle braked safely for pedestrians and/or cyclists that

were at or near the crosswalk edge (on the side of the road).

• Stopping conflict – this is where a vehicle either braked abruptly for a pedestrian / cyclist or

braked abruptly in following a vehicle that braked safely for a pedestrian

• Accelerated through – this is where a vehicle accelerated through the crosswalk rather than

stop for pedestrians or cyclists at or near the crosswalk edge, even though they were deemed

to have sufficient time and space to brake safely. These are considered potential conflicts

(even though in many cases the actual risk of a collision is minimal).

Groups of two or more pedestrians or cyclists crossed at the same time were only considered as one

crossing event.

Note that pedestrian and cyclist induced conflict behaviour was not summarized, e.g. cutting in front of

vehicles unsafely, as the focus was on driver-related conflicts. Also, note however that only one

instance of pedestrian or cyclist-induced conflict was observed over both the AM and PM counts, with

a cyclist riding the wrong way up the turning lane and then off-road.

Tables 3 and 4 summarize the crossing conflict analysis for the AM and PM peak hours respectively.

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Table 3: AM Crossing Conflicts - Galloping Goose Trail and Westbound McKenzie Ave Right Turn Lane

	Total Trail Crossings				
	No Car	Car	Braking	Braking	Accelerated
		Stopped	Safely	Conflict	Through
7:00-7:15	12	1	10	0	2
7:15-7:30	3	0	30	0	2
7:30-7:45	11	2	13	1	1
7:45-8:00	7	5	17	0	4
TOTAL	33	8	70	1	9

Table 4: PM Crossing Conflicts - Galloping Goose Trail and Westbound McKenzie Ave Right Turn Lane

	Total Trail Crossings				
	No Car	Car	Braking	Braking	Accelerated
		Stopped	Safely	Conflict	Through
4:00-4:15	0	1	10	0	1
4:15-4:30	0	5	14	0	1
4:30-4:45	2	10	15	1	1
4:45-5:00	3	4	13	0	0
TOTAL	5	20	52	1	3

The following observations can be made from the conflict categorization summary. In the AM there were 10 out of 121 events that were considered conflicts (9 accelerated through vehicles, 1 braking conflict – or 8 percent). In contrast, only 4 of 81 PM peak hour events were considered potential conflicts (5 percent), despite the higher volume of right turning westbound McKenzie Avenue traffic in the PM peak hour. In particular if one considers only crossing events where a vehicle was present, the conflict percentage rises to 11 percent in the AM but remains at 5 percent in the PM peak hour.

It is in fact the higher PM peak hour volumes that reduce the conflict potential between Galloping Goose trail users and turning vehicles, as the traffic is effectively non-stop but also slow-moving because of merging behaviours upstream and slow traffic downstream waiting to merge onto Highway 1 northbound.

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Note that when vehicles accelerated through the crosswalk rather than brake for trail users, the trailing vehicle was always observed to brake safely, but this safe braking was not noted in the tabulations (since the crossing event was defined by the "accelerated through" event).

During the observations of the interactions between the Galloping Goose users and the westbound right turn traffic approximately 70-80 vehicles per peak hour braked or stopped for a crossing pedestrian/cyclist. The crossing time for a pedestrian / cyclist would be less than 5 seconds (based on 6m crossing at 1.2m/s) and based on observations one to two vehicles were stopped/slowed per cycle. Therefore the crossing does not significantly add to the westbound right turn queue. The westbound right turn queue is almost exclusively due to movement being overcapacity.

#### 2.3 Weaving Analysis

Weaving and merging conflicts were investigated for vehicles along westbound McKenzie Avenue between Burnside Road and Highway 1. The merging behaviour in this area results from the large number of vehicles that wish to turn right onto northbound Highway 1 in the afternoon peak traffic period, where both westbound lanes on McKenzie Avenue are used by vehicles wishing to turn right, but only one right turn lane being present. These merging behaviours are not necessarily conflicts that would result in collisions, although they can be, and they are not typical driving manoeuvres (unless one is familiar with the site specific characteristics) and can result in undesirable aggressive driver behaviour.

The data was collected in the PM peak hour between 4 and 5 PM on February 1 2011. Five "movement zones" were established for specific manoeuvres that occur within each zone. They are as follows:

- Zone 1 Right turn behind island where a westbound right turn vehicle turns right from the through lane onto Hwy 1, turning around the right turn island instead of using the right turn lane (note that these events were recorded in-field and not with the video camera).
- Zone 2 Merge at Island / End of Thru Lane Queue where a vehicle merges right at the last possible location in front of either the right turn island or at the end of the through lane queue.
- Zone 3 Merge mid-section (no queue) where a vehicle merges midblock between Burnside Rd and Hwy 1, but not near the end of the through lane queue. These vehicles often stop and impede through-vehicles (which can lead to the Zone 5 manoeuvres).
- Zone 4 Merge at top of hill (camera view) where vehicles merge into the right turn lane near Burnside Road at the top of the hill (as far as the camera could record).

 Zone 5 - Through vehicles crossing median – where through-vehicles travelling westbound on McKenzie Avenue are impeded by merging vehicles (particularly Zone 3 and Zone 4 merges), and cross the roadway centreline into eastbound lanes to bypass the blocking vehicle(s). This could result in potential for serious conflict should any eastbound vehicles be present.





Zone 3 and Zone 4 Merging

Zone 4 and Zone 5 Movements

Table 5 shows the summary of weaving manoeuvres.

Table 5: Weaving and Merging Conflicts, Westbound McKenzie Avenue Between Burnside Road and Highway 1 - PM Peak Hour

	4:00-4:15	4:15-4:30	4:30-4:45	4:45-5:00	Total
	PM	PM	PM	PM	
Right Turn Events					
Zone 1 - Right turn behind island	3	2	2	3	10
Zone 2 - Merge at Island / End of Thru	10	6	13	13	42
Lane Queue					
Zone 3 - Merge mid-section (no queue)	34	41	32	38	145
Zone 4 - Merge at top of hill (camera	33	39	41	58	171
view)					
<b>Through Movement Events</b>					
Zone 5 - Through vehicles crossing	2	3	0	6	11
median					
		,		Total	379

Some observations are that for right turning vehicles, the majority attempt to do so before the last moment (e.g. either in Zone 3 or 4). There were 10 of the undesirable right turn behind island (from

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through lane) movements, and 11 of the potentially severe-conflict through-vehicles crossing median movements. This indicates that the large traffic volumes are resulting not only in level of service concerns but also safety and merging concerns.

Note that since the data was collected in February 2011 the Ministry of Transportation and Infrastructure has installed a "No Right Turn" sign to dissuade the Zone 1 right turn behind island manoeuvre.

#### 2.4 Burnside Left Turn Movements

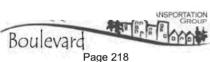
A review of left turn movements from northbound Burnside Road onto McKenzie Avenue were taken over 6 signal cycles to record the tendencies of traffic merging into the outside and inside lanes.

Results showed that 86 percent of traffic would turn into the right (outside) lane and 14% turned into the left (inside) lane on McKenzie Avenue. 30 percent of the turning movements conflicted with vehicles turning southbound right off of Burnside Road onto westbound McKenzie Avenue. On three out of the six cycles, vehicles in the through movement on westbound McKenzie Avenue would be stuck in the intersection due to the queue and this would interfere with the Burnside green light movements. In some cases this resulted in traffic weaving into oncoming and/or incorrect lanes.

The conflict was apparent as vehicles entered the outside westbound McKenzie Avenue lane causing merging issues with the southbound right vehicles off of Burnside Road. The left turning vehicles tended to perform this manoeuvre due to the fact that they intend on turning right from McKenzie Avenue onto Highway 1.



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Results of the turning movement are shown in **Table 6**.

Table 6 - Burnside Road Left Turn Movements

	Traffic Turned	Traffic Turned	Conflicts with	
Time	into Inside Lane	into Outside Lane	Right Turn	Notes
3:35	0	5	3	
				SB McKenzie Vehicles Stuck
3:40	1	6	2	in Intersection
				SB McKenzie Vehicles Stuck
3:45	3	5	1	in Intersection
5:05	2	4	1	
				SB McKenzie Vehicles Stuck
5:10	1	7	2	in Intersection
5:15	3	5	0	
Total:	10 vehicles - 14%	32 vehicles - 86%	9 vehicles - 30% of Outside Lane Traffic	

#### 2.5 Back of Queue on McKenzie

Data collection and analysis of the queue on McKenzie Avenue, east of Highway 1 was performed by noting the back of queue using GPS and recording trends of the traffic. Collection was performed between 4:00pm and 5:00pm on Tuesday, February 1, 2011.

The analysis showed that the queue at 4:00pm on McKenzie Avenue was backed up to the Interurban Road Bridge. Within 30 minutes, the queue had substantially progressed to the point at which vehicles were stopped at both green light movements at Carey Road as well as Glanford Avenue. On multiple occasions, traffic was stuck in the intersection during the red phase of the signal. Vehicles were queued as far as the Pat Bay Highway at approximately 4:25pm. This traffic may have queued past Saanich Road on McKenzie Avenue. Another notable incident was two U-turn movements out of the eastbound McKenzie lane into the westbound lane between Carey Road and Burnside Road. Refer to **Figure 1** for queue analysis results.

The volume of westbound right turn traffic making the right turn movement Highway 1/McKenzie Avenue/Admirals Road is approximately 1,400 vph, which is the capacity of the right turn movement. The queues are formed because the volume of traffic arriving to make the westbound right turn-

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exceeds the capacity of the movement. Arrival counts were not undertaken as part of this study, but based on the queue length extending to at least Carey Road there is at least an additional 170 vph (1,275m queue/7.5m vehicle) that want to make the right turn.



Equal queue per lane north or bridge - 4:02pm



Queues stopped at green light at Carey Road – 4:18pm



Queues proceed past Glanford Ave to Pat Bay - 4:25pm



Queues Extend Past Glanford Ave to Pat Bay Highway- 4:25pm

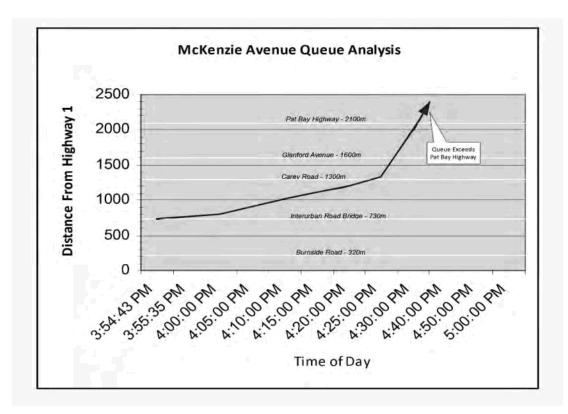


Figure 1 – McKenzie Avenue Queue Distances

#### 2.6 Burnside Road / McKenzie Avenue

The intersection of Burnside Road/McKenzie Avenue is located approximately 300m east of the Highway 1/Admirals Road/McKenzie Avenue intersection. The Burnside Road/McKenzie Avenue intersection is currently in coordination with the signals at Carey Road, Glanford Road, Highway 17 West, and Highway 17 East. These intersections are running cycle lengths of 110 to 116 seconds depending on the time of day. The intersection at Burnside Road provides a metering of the westbound traffic as it heads west. The metering allows the westbound right turn queue to partially dissipate and allow for the northbound left and southbound right turn vehicles off of Burnside Rd to join the 'back' of the westbound right turn queue. The signal is not contributing to the delay and queue for the westbound right turn at Highway 1. Changes in signal timing to provide more green time to McKenzie Avenue would reduce the metering effect of the signal and could lead to vehicles queuing within the Burnside Road intersection. In addition, this increase in green time would not significantly change the queue length on McKenzie Avenue and could increase the queue on Burnside Road northbound as these vehicles are further delayed due to less green time.

It is recommended that the signal timing at McKenzie Avenue/Burnside Road not be changed.

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### 3.0 OPTION GENERATION

Seven options were developed to improve operations and / or control the Galloping Goose crossing of the westbound right turn movement. During the analysis process of the options two additional suboptions were developed. The following sections outline the options. See *Appendix A* for sketches of each option.

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#### 4.0 TRAFFIC OPERATIONS

Synchro/SimTraffic software was utilized to model the am and pm peak hour conditions for existing network conditions and each of the scenarios.

A base pm peak hour model for the intersection of Highway 1/McKenzie Avenue/Admirals Road was provided by MoT. This model was reviewed to ensure that all inputs were appropriate including storage lanes and laning, saturation flows, lane widths, peak hour factors, signal timing, and traffic volumes. Traffic volumes utilized in the model were from February 2009 and adjusted to July 2009 levels. The existing August 2011 signal timing plans were utilized in the models. The volumes utilized in the models were the volume of vehicles passing the loops (or travelling through the intersection) per hour. There is additional demand on several movements at different periods that is not included in the modelling (ie. southbound through in am, westbound right and northbound through in the pm). The model uses Synchro and HCM methodologies for determining the level of service, delays, and queues. Movements that reach a LOS F have forced flows (jammed conditions) and can result in excessive delays and unstable patterns. Queue lengths with # behind them indicate movements where the 95th percentile cycle exceeds the capacity. The queues shown are based on two complete cycles of 95th percentile traffic (in Synchro); however if the v/c exceeds 1.0 then Synchro's method is not accurate for determining queue lengths. SimTraffic may better represent field queue lengths as traffic is modelled using simulation of traffic behaviours rather than by formulas in the macroscopic model (Synchro).

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### 4.1 Results

The following tables outline the results of the analysis for the key movements at the intersection for each of the scenarios and time of day analyzed.

## Table 7: Overall Intersection Results for the Am and Pm Peak Hour (Synchro)

#### AM Peak Hour - Overall Results

Scenario	LOS	Max v/c	Intersection
			Delay (sec)
Existing	Е	1.18	75.6

#### PM Peak Hour - Overall Results

Scenario	LOS	Max v/c	Intersection
			Delay (sec)
Existing	F	1.17	84.5

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The scenarios were reviewed in SimTraffic as the Synchro model results did not reflect field conditions as well as the SimTraffic results. The following tables outline the results of the SimTraffic analysis by movement. A summary of the Synchro results can be found in Appendix B.

Table 8: Am Peak Hour - Southbound Left and Through Results

Southbound Left				
Scenario	Delay (s)	95 <sup>th</sup> Queue		
Existing	414.5	356.7		

Southbound Through				
Scenario	Delay (s)	95 <sup>th</sup> Queue		
Existing	413.3	2252.0		

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Table 9: Am Peak Hour - Northbound Left and Through Results

Northbound Left				
Scenario	Delay (s)	95 <sup>th</sup> Queue		
Existing	124.0	44.6		

Northbound Through				
Scenario	Delay (s)	95 <sup>th</sup> Queue		
Existing	30.6	100.7		

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Table 10: Am Peak Hour - Eastbound Left and Through Results

Eastbound Left				
Scenario	Delay (s)	95 <sup>th</sup> Queue		
Existing	69.1	47.4		

Eastbound Through				
Scenario	Delay (s)	95 <sup>th</sup> Queue		
Existing	65.2	147.5		

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Table 11: Am Peak Hour - Westbound Left and Through Results

Westbound Left			
Scenario	Delay (s)	95 <sup>th</sup> Queue	
Existing	187.5	27.7	

Westbound Through				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	129.0	233.9		

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Table 12: Am Peak Hour - Westbound Right Results

	Delay per Segment (seconds)		95 <sup>th</sup> Queue (m)			
Scenario	WBR	WBT	NBL	WBR	WBT	NBL
		(McKenzie)	(Burnside)		(McKenzie)	(Burnside)
Existing	9.7	36.8	37.9	163.8	117.6	23.8

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Table 13: Pm Peak Hour - Southbound Left and Through Results

Southbound Left				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	294.1	404.1		

Southbound Through			
Scenario	Delay (s)	95 <sup>th</sup> Queue	
Existing	101.1	1320.4	

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Table 14: Pm Peak Hour - Northbound Left and Through Results

Northbound Left				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	348.6	59.6		

Northbound Through				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	681.1	2278.5		

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Table 15: Pm Peak Hour - Eastbound Left and Through Results

Eastbound Left				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	352.9	89.1		

Eastbound Through				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	226.7	435.7		

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The eastbound left turn and through movements are significantly improved with the implementation of the flyover (Scenarios G and G1). Scenario A also provides some improvement to the eastbound through movement delays.

Table 16: Pm Peak Hour - Westbound Left and Through Results

Westbound Left				
Scenario Delay (s) 95 <sup>th</sup> Queue				
Existing	153.0	27.0		

Westbound Through			
Scenario	Delay (s)	95 <sup>th</sup> Queue	
Existing	88.8	266.3	

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Table 17: Pm Peak Hour - Westbound Right Results

	Delay per Segment (second)		95 <sup>th</sup> Queue (m)			
Scenario	WBR	WBT	NBL	WBR	WBT	NBL+NBT
		(Burnside)	(Burnside)		(Burnside)	(Burnside)
Existing	18.1	210.9	202.7	137.3	781.1	304+488.7

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### 6.0 EVALUATION

The options were evaluated based on vehicle safety using the crash prediction models, impact to the Galloping Goose in terms of crossing delay, impact to transit operations and priority through the intersection, impact to overall intersection operations, and capital cost to construct the improvement.

The following table outlines the results of the evaluation and a description of the criteria used in the evaluation.

Table 17: Summary Matrix

Cost \* xx/xx = am / pm

Vehicle Safety (based on collision modification factors):

	Reduction in safety performance
	No change in safety performance
	Increase in safety performance

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Impact to Goose: describes the amount of waiting time for a pedestrian/cyclist travelling from the south side of McKenzie to the north side using the Galloping Goose

	Less than 5 seconds (ie. for a vehicle to stop and give right of way to pedestrian/cyclist)		
	5 seconds to 60 seconds		
	More than 60 seconds delay		

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Vehic	ele Operations: reviews the overall intersection level of service and delays
	Less than 60 seconds of overall intersection delay
	Between 60 seconds and 90 seconds of delay
	More than 90 seconds of delay

Trans	it Operations: ability to provide priority for transit
	Provides transit priority in both directions and reduces northbound/southbound queues
	Provides transit priority in both directions and no change in northbound/southbound queues
	Does not provide transit additional transit priority and no improvement in northbound/southbound queues

Cost: 1	Total estimated cost to undertake the project	
	Costs under \$500,000	
	Costs between \$500,000 and \$1 million	
	Costs over \$1 million	

### 7.0 SUMMARY OF EVALUATION

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### 9.0 NEXT STEPS / ADDITIONAL STUDY

All of the nine options reviewed were done in isolation from each other. Additional study should be considered to assess the impacts and benefits of combining options

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### **APPENDIX A**

**Sketches** 

Pages 244 through 250 redacted for the following reasons:

### **APPENDIX B**

Synchro Results

#### Table B1: Am Peak Hour - Southbound Left and Through Results

#### **Southbound Left**

#### Southbound Through

Scenario	LOS	Delay (s)	95th Queue	v/c
Existing	Е	66.9	160.9	0.89

Scenario	LOS	Delay (s)	95th Queue	v/c
Existing	F	113.1	559.3#	1.18

### Table B2: Am Peak Hour - Northbound Left and Through Results

#### Northbound Left

#### Northbound Through

Scenario	LOS	Delay (s)	95th Queue	v/c
Existing	F	93.4	22.6	0.48

ScenarioLOS	Delay (s)	95th Queue	v/c
Existing E	59.6	192.7	0.87

Table B3: Am Peak Hour - Eastbound Left and Through Results

Scenario	LOS	Delay (s)	95th Queue	v/c
Existing	Е	57.7	22.1	0.44

Scenario LOS	Delay (s)	95th Queue	v/c
Existing E	70.1	157.7#	0.79



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Table B4: Am Peak Hour - Westbound Left and Through Results

#### **Westbound Left**

#### Westbound Through

Scenario	LOS	Delay (s)	95th Queue	v/c
Existing	Е	79.9	26.6	0.48

ScenarioLOS	Delay (s)	95th Queue	v/c
Existing F	98.5	147.5#	0.93

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Table B5: Am Peak Hour - Westbound Right Results

#### Westbound Right

Scenario	LOS	Delay	(s) 95th C	Queue v/c
Existing	A	2	0	0.6

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Table B6: Pm Peak Hour - Southbound Left and Through Results

#### **Southbound Left**

#### Southbound Through

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	F	113.6	182.0#	1.05

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	С	31.2	278.8	0.8

### Table B7: Pm Peak Hour - Northbound Left and Through Results

#### Northbound Left

#### Northbound Through

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	F	87.2	19	0.37

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	F	128.8	433.6#	1.17

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#### Table B8: Pm Peak Hour - Eastbound Left and Through Results

#### **Eastbound Left**

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	F	155.3	124.2#	1.13

#### **Eastbound Through**

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	Е	63.7	127	0.63

s13

Table B9: Pm Peak Hour - Westbound Left and Through Results

#### **Westbound Left**

### Westbound Through

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	Е	78.9	27.1	0.46

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	F	100.8	140.8#	0.88

Table B10: Pm Peak Hour - Westbound Right Results Westbound Right

Scenario	LOS	Delay	95th	v/c
		(s)	Queue	
Existing	F	80.6	222.9#	1.14

### **APPENDIX C**

Cost Estimate Breakdowns

Pages 260 through 268 redacted for the following reasons:

s13, s17

Mr. Andrew Hind Senior Transportation Planning Engineer Ministry of Transportation and Infrastructure 7818 6<sup>th</sup> Street Burnaby, British Columbia V3N 4N8



H-90284.01

Dear Mr. Hind

#### RE: Safety Review of McKenzie Avenue from Highway 1 to Highway 17

Opus International Consultants was retained by the British Columbia Ministry of Transportation and Infrastructure (Ministry) to conduct a detailed Safety Review of McKenzie Avenue between Highway 1 and Highway 17. This letter report documents our findings along the corridor, in preparation for an Issues Meeting with the Ministry.

#### 1. BACKGROUND

This safety review involves a desktop assessment of this section of McKenzie Avenue to: determine collision rates for the route and intersections/interchanges; and determine crash severity by location.

#### 1.1 Study Route

The study route consists of the 2.6 km stretch of McKenzie Avenue from Rainbow Street to Highway 1. The route is a predominantly 4 lane urban arterial road with both divided and undivided segments. This section of McKenzie Avenue is known as Unnumbered Route 962 (LKI Segment 0306). The study route is shown in FIGURE 1.



FIGURE 1: STUDY ROUTE: MCKENZIE AVENUE FROM HIGHWAY 1 TO HIGHWAY 17

(Source: Google Maps)

#### 2. STUDY APPROACH

To complete this study, the Opus team conducted a review of TAS collision data, traffic data, and ICBC claims data to:

- 1) Compare collision rates to provincial averages for segments and intersections;
- 2) Review environmental and temporal trends for the corridor and intersections;
- 3) Review collision types for the 6 main intersections and prepare collision diagrams for the 6 main intersections using enough historical data to establish patterns;
- 4) Identify safety issues; and
- 5) Confirm contributory causes using the Ministry photo log.

This letter report documents the findings of this analysis for discussion during the Issues Meeting. Because the Opus team did not have access to the Ministry photo log at the time of this study, Google Street View images were used instead.

#### 3. CORRIDOR COLLISION ANALYSIS

Traffic Accident System (TAS) data was obtained for the Ministry controlled segment of McKenzie Avenue from Rainbow Street to Admirals Road/Highway 1 for the five year period from January 1<sup>st</sup>, 2006 to December 31<sup>st</sup>, 2010. Data was also obtained for Highway 1 and Highway 17 within 100 metres of McKenzie Avenue to capture merge lane and/or ramp related collisions. Annual collision totals, after editing the data for location, are summarized in TABLE 1 below.

TABLE 1: TAS COLLISION DATA, 2006-2010

	Crash Se	Total	
Crash Year	Property Damage Over \$1000  Casualty		Collisions
2006	11	14	25
2007	13	20	33
2008	20	12	32
2009	15	28	43
2010	15	1	16
5-Year Total	74	75	149

The severity of collisions showed significant fluctuation from year to year, but overall was evenly split between property damage and injury collisions. Collision severity by location was also analysed and showed similar overall trends with collisions split approximately evenly between property damage and injury collisions. For the 5-year study period, collisions were shown to predominantly occur at or near the highway intersections. Collisions at the Highway 1 intersection account for the majority of collisions (97 out of 149 collisions). Collisions at Highway 17 are also notable to a lesser extent, accounting for 36 collisions. The Highway 1 and Highway 17 intersections account for approximately 90 percent of all collisions reported along McKenzie Avenue. FIGURE 2 provides a breakdown of collisions by location, based on their distance from Rainbow Street (to the nearest 100 metres).

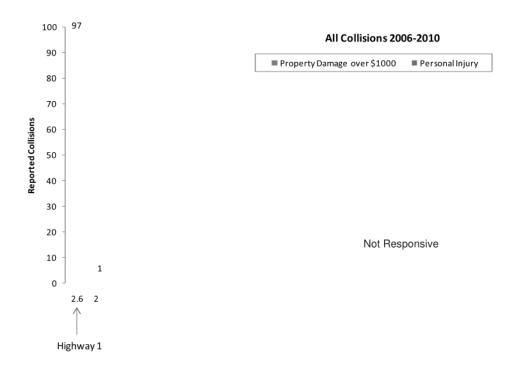


FIGURE 2: REPORTED COLLISIONS BY LOCATION AND SEVERITY, 2006-2010 (TAS)

Not Responsive

#### 4. INTERSECTION COLLISION ANALYSIS

#### 4.1 Intersection Collision Rates

Collision rates were calculated for the 6 major intersections along the study route based on TAS collision data and Ministry traffic count data. The 6 intersections, from east to west, are at:

Not Responsive

Not Responsive

Not Responsive TABLE 3 summarizes the calculated intersection collision rates and provides a comparison to the provincial average collision rate for signalized intersections for matching highway classes. The number of ICBC collision claims at each intersection is also tabulated as a means of comparison between the two data sets. It is important to note that only collisions coded as occurring at the intersection in the TAS data set were considered in the calculation of intersection collision rates.

TABLE 3: INTERSECTION COLLISION RATES (TAS) & ICBC COLLISIONS BY INTERSECTION, 2006-2010

Intersection	TAS Estimated Collisions 2010 (5 Years) AADT	Annual Collision Rate	Road Classification	Provincial Average Collision Rates (Signalized Intersections)	Collision Rate Comparison (calculated vs provincial average)	ICBC Collisions for Comparison (5 Years)
--------------	--	-----------------------------	------------------------	---	--	--

Not Responsive

Highway 1 69 84,005 0.450 UED4 0.297 152% 303

Not Responsive

TABLE 3 shows that intersection collision rates were highest at the Highway 1 Not Responsive intersections. The intersection at Highway 1 had a collision rate significantly higher than the provincial average suggesting that safety is an issue at the intersection; however, it is possible that the collision rate is a function of high volumes and/or congestion and that the overrepresentation of collision rate is due to the fact that provincial averages provide only a single collision rate for all intersections with ADT greater than 20,000.

Not Responsive

ICBC data has been used to establish intersection collision patterns and trends, which are discussed in the following subsections. Temporal collision trends for each individual intersection have been based on the 5 years of available claims data and are shown alongside local traffic volume patterns (as discussed in SECTION 3.2 above) for comparison purposes.

Not Responsive

Not Responsive collision diagrams have been based on the most recent 2 years of data. Given the significant number of ICBC claims at each intersection (see TABLE 3 above), 2 years of collision data was deemed sufficient to produce observable collision trends.

### 4.6 Highway 1

ICBC collision data yielded a total of 303 collisions occurring at the Highway 1 / McKenzie Avenue intersection during the study period. An aerial view of the intersection is provided in FIGURE 28.

Copyright

#### Collision trends are discussed below:

FIGURE 29 below shows temporal collision distributions for the Highway 1 intersection over the 5-year study period. Collision numbers were relatively constant year to year, although noticeably lower in 2009 and higher in 2010 than average. No clear monthly trends were observed, although collisions showed significant lows during February and March and a peak in April. Collision trends at the intersection matched trends along the corridor as a whole on both a day of the week and hourly basis. Collisions were more frequent during the weekdays and were most frequent on Wednesdays. Collisions showed AM and PM peaking generally corresponding to peak traffic times in the area.

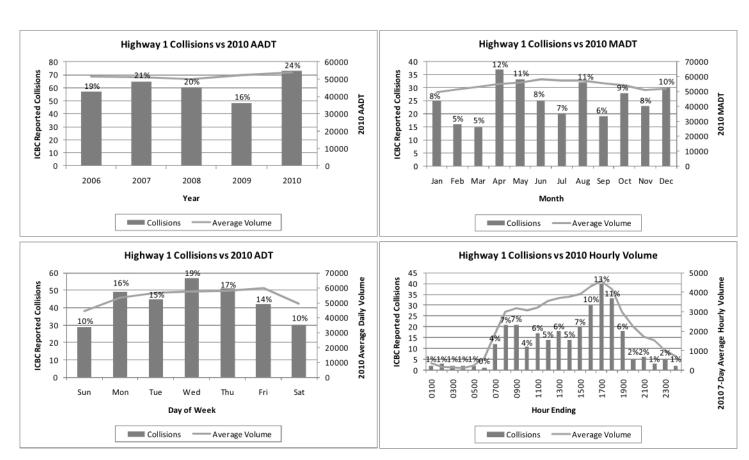


FIGURE 29: HIGHWAY 1 / MCKENZIE AVENUE TEMPORAL COLLISION TRENDS, 2006-2010 (ICBC)

FIGURE 30 below shows collision location and type trends at the Highway 1 intersection. Given the significant number of collision claims at this intersection, the most recent two years of data was deemed sufficient to determine collision trends. Rear-end collisions were by far the most common collision type at this intersection, accounting for 63% of all collisions. The majority of rear-ends occurred in the eastbound direction along Highway 1. It is expected that the high volumes and likely congestion occurring at this intersection are major factors, and that the high proportion of eastbound rear-ends is a factor of commuter travel patterns. Northbound right turn rear-ends onto Highway 1 and eastbound left-turn rear-ends onto McKenzie Avenue were also significantly represented. Traffic along Highway 1 is significantly greater in the eastbound direction and most likely contributed to the high incidence of rear-ends at the intersection. Heavy traffic, congestion and/or long queues most likely contribute to both through and left-turn rear-ends. Additionally, heavy through traffic means that fewer gaps are available for northbound right-turning vehicles looking to merge onto Highway 1. Dedicated merge lanes are provided on Highway 1 and the angle of the right-turn channels makes it difficult for drivers to judge adequate gaps.

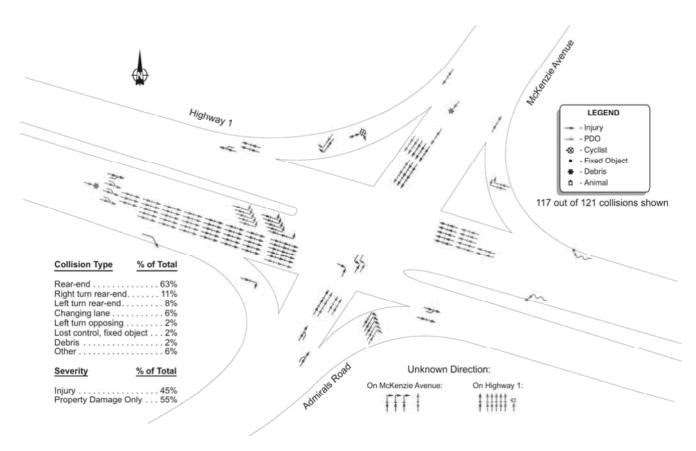


FIGURE 30: HIGHWAY 1 / MCKENZIE AVENUE COLLISION DIAGRAM, 2009-2010 (ICBC)

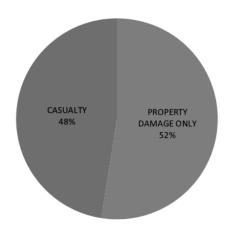


FIGURE 31: HIGHWAY 1 / MCKENZIE AVENUE SEVERITY DISTRIBUTION, 2006-2010 (ICBC)

FIGURE 31 shows the severity distribution of ICBC collision claims at the Highway 1 intersection over the 5-year study period. Again, the severity distribution is fairly evenly distributed between casualty and property damage only collisions at 48% and 52% of collisions respectively.

#### 5. CONCLUSIONS

Corridor Safety Evaluation

Not Responsive

#### Intersection Safety Evaluation

Collision rates were determined for the 6 major signalized intersections along the study route. With the exception of the Highway 1 intersection, intersection collision rates were below provincial averages for signalized intersections along comparable roads. The collision rate at the Highway 1 intersection was over 150% of the provincial average collision rate, indicating that the intersection performs poorly from a safety standpoint; however, no significant safety issue was clearly discernable from the collision claims. It is important to keep in mind that it is possible that the high collision rate at the intersection is a function of high volumes, congestion, and/or driver behaviour particular to this specific intersection and that the provincial average collision rate may not be applicable.

Not Responsive

A review of ICBC collision claims data revealed a trend of rear-end collisions along McKenzie Avenue, the majority of which occurred in the westbound direction. Intersection collisions generally peaked during the afternoon peak traffic period and it is likely that congestion and/or longer queues formed during the PM peak period contributed to the increased frequency of rear-end collisions. It is unknown if speed was a factor in the rear-end collisions, (as suggested in Saanich Police comments); it may be beneficial to conduct a review of operations and driver behaviour at the intersections to more accurately determine the cause of the rear-end collisions.

In addition to the rear-end collisions, right turn rear-end collisions were notable at all intersections to varying degrees. Almost all of the right turn rear-ends involved vehicles turning onto McKenzie Avenue from a channelized right-turn lane. Given the high volumes along McKenzie Avenue during peak traffic periods and the existing approach angles of these channels, it may be difficult for drivers to adequately judge gaps in through traffic sufficient for merging.

Other intersection specific safety issues were noted through collision analysis and are discussed below:

•

Not Responsive

A significant number of left-turn opposing collisions were recorded during the study period. It is
possible that laning and signal operations at the intersection may be issues. It may be
beneficial to review signal operations and driver behaviour at the intersection to more
accurately determine the cause of the left-turn opposing collisions.

•

•

Not Responsive

•

#### Not Responsive

In general, the severity of collisions at the intersections was split evenly between injury and property damage only collisions. Not Responsive

Not Responsive

This summarizes the results of the Safety Review of McKenzie Avenue from Highway 1 to Highway 17 in the District of Saanich. Please do not hesitate to contact us if you require additional information.

OPUS INTERNATIONAL CONSULTANTS (CANADA) LIMITED.

Sarah Rocchi, P.Eng., PTOE

Vice President - Vancouver, Partner

Pages 280 through 282 redacted for the following reasons:

# Technical Memorandum

Ministry of Transportation and Infrastructure

Highway 1 and Admirals McKenzie Intersection Preliminary Engineering Study: Traffic and Safety Assessment

February 2012

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### **TECHNICAL MEMORANDUM**

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#### TECHNICAL MEMORANDUM

#### 1 Introduction

The intersection of Highway 1 / Admirals Road / McKenzie Avenue is a major intersection linking the two main areas of the region, the commercial business district (CBD) / Peninsula and the Westshore. The intersection is congested, causing significant delays for motorists. It is currently one of the most critical pinch-points in the Capital District's road network.

In an effort to propose possible solutions and alternatives for the intersection, identification of existing and potential future operational deficiencies at the Highway 1 / Admirals Road / McKenzie Avenue intersection (along with the surrounding road network) is necessary. This traffic and safety assessment was prepared to summarize the results of the operational and safety analysis performed for the existing and forecast periods.

### 2 Purpose and Objective

In an effort to ascertain operation characteristics at the intersection for the existing and future conditions, a comprehensive assessment was carried out to evaluate the existing and potential future operational deficiencies of the Highway 1 / Admirals Road / McKenzie Avenue intersection and its surrounding network system.

The following intersections were analyzed:

- Highway 1 / Admirals Road / McKenzie Avenue;
- McKenzie Avenue / Burnside Road;
- McKenzie Avenue / Carey Road;
- McKenzie Avenue / Glanford Avenue;
- McKenzie Avenue / Highway 17 Interchange Southbound Ramp;
- Highway 1 / Tillicum Road;
- Highway 1 / Saanich Road;
- Highway 1 / Helmcken Road Interchange Northbound Ramp;
- Highway 1 / Helmcken Road Interchange Southbound Ramp;
- Admirals Road / Craigflower Road; and
- Admirals Road / Gorge Road.

A safety assessment was prepared for the Highway 1 / Admirals Road / McKenzie Avenue intersection as part of this report.

The results of the analysis will aid in the identification of possible improvement opportunities and solutions.

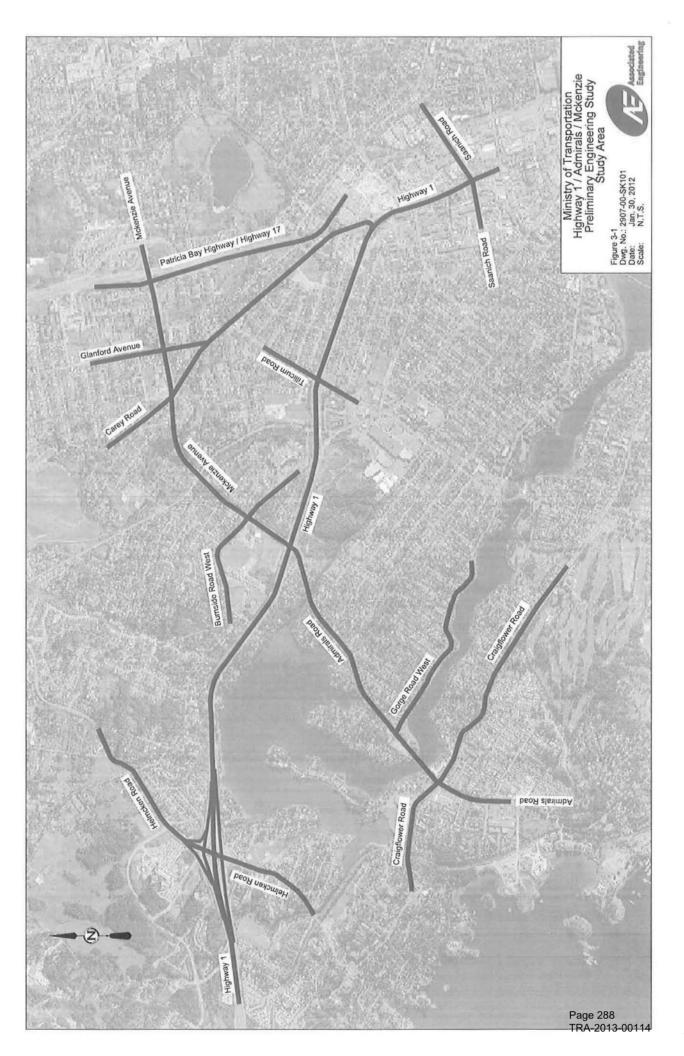
### 3 Study Area

The study area is bounded by McKenzie Avenue to the north, Craigflower Road to the south, Helmcken Road (interchange) to the west, and Highway 17 and Saanich Road to the east. The intersections that were analyzed include those listed in Section 2.0 above. A figure of the study area is shown as **Figure 3-1**.



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#### 4 Methodology

#### 4.1 Traffic Assessment - Existing Conditions (Year 2011)

Traffic analysis for the existing conditions utilized background traffic counts and existing signal timing information provided by the Ministry of Transportation and Infrastructure (MoTI) staff and the District of Saanich. Where count information was not available, traffic counts were taken during November 2011 to January 2012.

For the purpose of analysis, all existing conditions traffic analyses were prepared assuming 2011 summer average daily traffic conditions with further balancing of flows between intersections. The original background traffic information, including traffic counts and signal timing sheets, is attached as reference in Appendix A of this assessment.

#### 4.2 Traffic Assessment - Future Conditions (Planning Horizon 2038)

Traffic forecasting was based on the Capital Regional District (CRD) Transportation Planning Model (TP Model). The TP Model is a model based on the TransCAD software suite. It was originally created in 2008/9 and calibrated on 2006 demographics and traffic count data. It has recently gone through a significant update (December 2011) with CRD Planning personnel meeting frequently with Municipal Planning staff and very thoroughly reworking the future expected demographic by traffic zone.

This 2011 update is the model utilized for the Associated Engineering team's early forecast of future volumes. Growth associated with the forecast was applied to the existing traffic count information for analysis. The scenarios utilized from the 2011 model and their characteristics are as follows:

#### 2006 Base

- Demographics: Original Actual 2006 Population and Employment by traffic zone
- Network: 2006 "As Is" Network

#### 2038 Reference

- Demographics: Future 2038 Population and Employment by traffic zone as determined by CRD Planning from recent discussions with Municipalities (OCP based)
- Network: Committed Projects Only Network
  - 4 lanes TCH

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- Spencer I/C and Leigh/Bear Mtn Parkway upgrades
- Westshore Parkway I/C and 2 Iane Westshore Parkway connection to Westhills and Hwy
- BC Transit 2038 Masterplan; Increased Rapid Bus with no LRT



#### 2038 Reference on 2006 Network

- Demographics: Future 2038 Population and Employment by traffic zone as determined by CRD Planning from recent discussions with Municipalities (OCP based)
- Network: 2006 "As Is" Network

Peak volumes were extracted from the 2006 Base and the 2038 Reference scenarios on the TransCanada Highway (TCH) and McKenzie Avenue in order to determine the additional future demand. However, these volumes were found to increase very little between the 2006 Base and the 2038 Reference scenarios. This was unexpected and caused some concern. As a result additional investigation was carried out to determine the cause. Though the anticipated CRD population increase will be about 30%, the volumes on the TCH increased by less than 15% to the west and east of McKenzie Avenue. Working with the CRD Planning staff, it was determined that this low additional demand was mainly caused by the constraint of leaving the TCH at 4-lanes.

As the facility is at capacity now, an attempt to assign additional demand to the facility causes the model to react in a number of ways. The model generally attempts to assign the majority of the demand to other parallel routes. In fact, both Burnside Road and the Old Island Highway saw significant increases in traffic. However, constrained capacity on these routes cause the model to redistribute trips "internally" within the two halves of the Region. That is, if commuters from the CBD could not find reasonable routes home to the Westshore then some commuters / residents would relocate to areas more conveniently located to their workplaces or others would find work more conveniently located to their residences thereby avoiding the CBD to Westshore trips altogether. As a result, a scenario was run that allowed for enhanced capacity on the TCH in order to determine the unconstrained demand. This scenario can be described as follows:

#### 2038 Reference Enhanced TransCanada Highway

- Demographics: Future 2038 Population and Employment by traffic zone as determined by CRD Planning and local municipalities (OCP based)
- Network: Committed Projects Only + TCH Upgrade
  - 6 lanes TCH Tillicum to Helmcken
  - Spencer I/C and Leigh/Bear Mtn Parkway upgrades
  - Westshore Parkway I/C and 2 lane Westshore Parkway connection to Westhills and Hwy
     14
  - BC Transit 2038 Masterplan; Increased Rapid Bus with no LRT

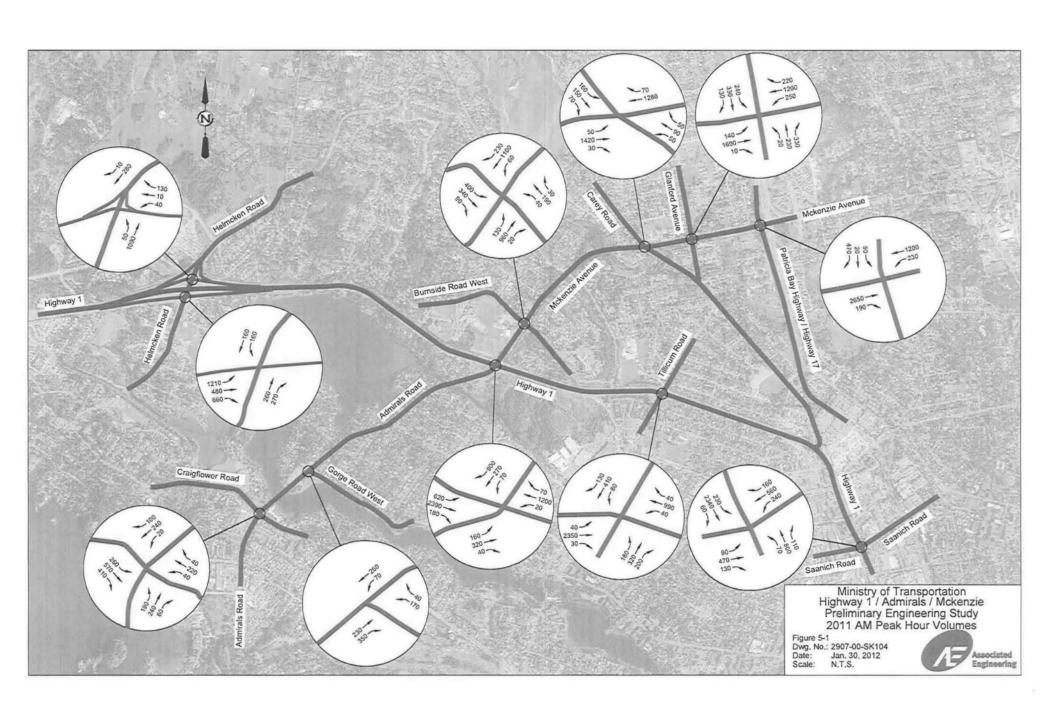
#### 4.3 Safety Assessment

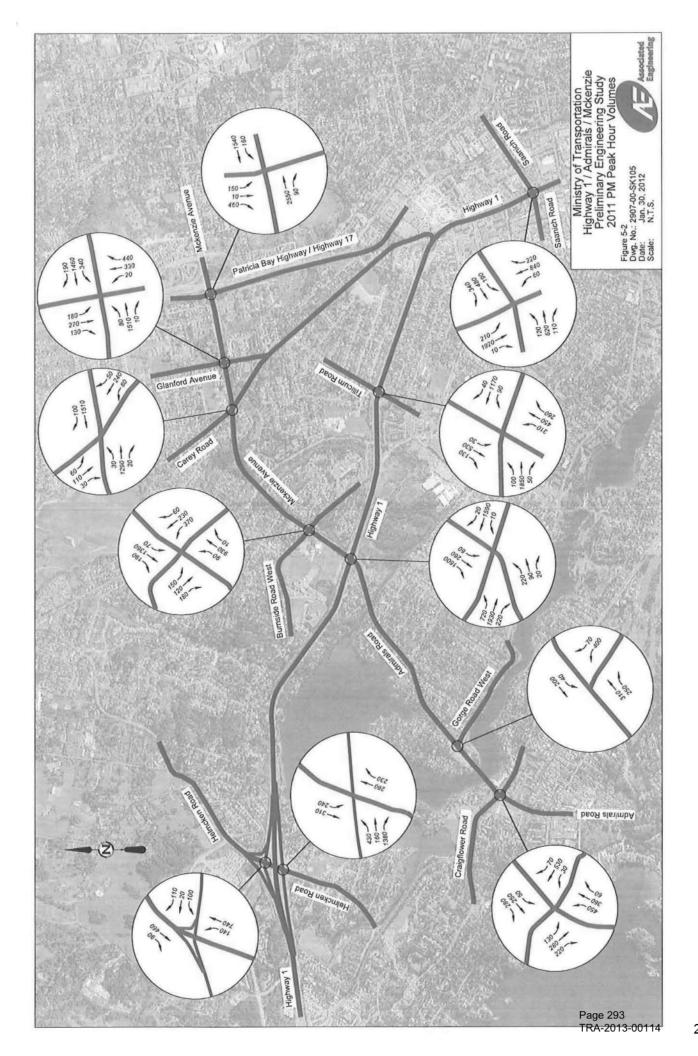
Safety assessment of the Highway 1 / Admirals Road / McKenzie Avenue intersection was prepared utilizing Insurance Corporation of British Columbia (ICBC) collision data collected (five years) between 2006 and 2010 (5 year period). Temporal, location, type, and severity of collisions were analyzed.

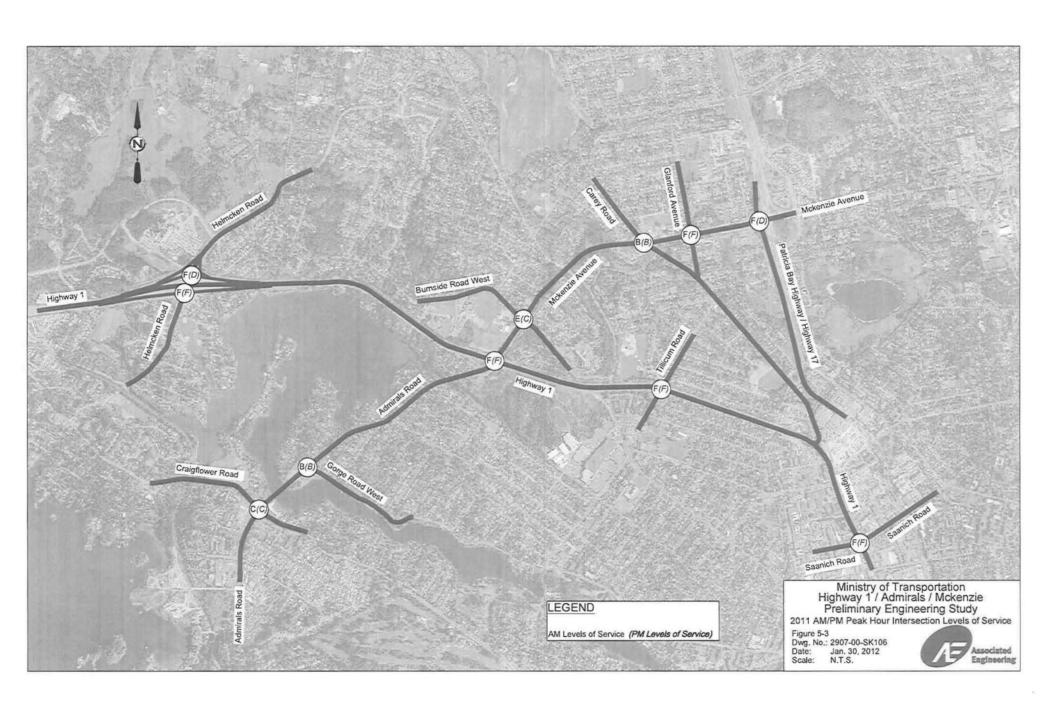
#### 5 **Traffic Assessment**

Traffic analysis was performed for the existing conditions, year 2011, and the future planning horizon, year 2038. The following sections outline the traffic operations analysis of the study area. Traffic flow and overall intersection performance information are summarized in Figures 5-1 to 5-6 of this section









Pages 295 through 297 redacted for the following reasons:

### 5.1 Traffic Network

In addition to the descriptions of the Traffic Network below, please refer to **Figure 3-1** of this study for a diagrammatic view of the respective roadway locations.

**Highway 1** – Highway 1 runs east-west through the Highway 1 / Admirals Road / McKenzie Avenue intersection. Within the study area, Highway 1 is a 4-lane highway with a posted speed of 80 km/h. It is the primary east-west corridor connecting CBD / Peninsula and the Westshore. In the area of study, the Galloping Goose Trail runs parallel to the Highway.

McKenzie Avenue – McKenzie Avenue is located north of the Highway 1 and Admirals Road / McKenzie Avenue intersection. At the northeast boundary of the study area, McKenzie Avenue connects with Highway 17. It is an arterial connecting communities in Saanich north of Highway 1 such as Royal Oak, Strawberry Vale, and Marigold.

Admirals Road – Admirals Road is located south of the Highway 1 / Admirals Road / McKenzie Avenue intersection. At the southern boundary, Admirals Road runs over the Gorge Waterway and connects with Craigflower Road. Admirals Road is an arterial connecting areas such as View Royal to Highway 1.

**Helmcken Road Interchange** – The Helmcken Road interchange is located at the west end of the study area. Helmcken Road connects with Highway 1 via a diamond interchange.

Burnside Road – Burnside Road, within the study area, runs in the northwest-southeast direction. It connects with McKenzie Avenue northeast of the Highway 1 / Admirals Road / McKenzie Avenue intersection.

Carey Road – Carey Road, within the study area, runs as a northwest-southeast corridor. It connects with McKenzie Avenue northeast of the Highway 1 / Admirals Road / McKenzie Avenue intersection.

Glanford Avenue – Glanford Avenue within the study area runs as a north-south corridor. It connects with McKenzie Avenue northeast of the Highway 1 / Admirals Road / McKenzie Avenue intersection.

**Highway 17** – Also known as the Patricia Bay Highway, it is a highway connecting the Saanich Peninsula and the Swartz Bay Ferry Terminal to Victoria.

Gorge Road – Gorge Road is an east-west corridor south of the Highway 1 / Admirals Road / McKenzie Avenue intersection. It connects with Admirals Road south of Highway 1 and serves communities in the View Royal area.

**Craigflower Road** – Craigflower Road is an east-west corridor south of the Highway 1 / Admirals Road / McKenzie Avenue intersection. It connects with Admiral Road south of Highway 1 within the study area and serves communities south of the Gorge Waterway.

Tillicum Road – Tillicum Road connects areas east of the Highway 1 / Admirals Road / McKenzie Avenue intersection. It is a northeast-southwest corridor that serves residential as well as commercial areas within the study area.

Saanich Road / Boleskin Road – Saanich Road / Boleskin Road sets the eastern boundary of the study area. Saanich Road is in close proximity to the Uptown Commercial development. This development is expected to be a major traffic generator at full build-out.

### 5.2 Existing Traffic Volumes

By utilizing growth rates and average daily traffic monthly histograms (for preparation of average daily to summer daily conversion rates), the collected traffic volumes were adjusted to 2011 summer average daily traffic volumes (worst case scenario) for analysis use. The traffic flows were further balanced between the intersections.

Existing conditions traffic volumes are summarized in Figures 5-1 and 5-2.

### 5.3 Future Traffic Volumes

Future traffic volumes were derived from the TransCAD regional model for the 2038 planning horizon. For detailed explanations of the derivation of the projected traffic volumes, please refer to Section 4.2. Future traffic volumes are summarized in **Figures 5-4** and **5-5**.

### 5.4 Intersection Performance

Several criteria were utilized for the analysis of intersection performance within the study area.

The Level of Service (LOS) is a general measure of quality for intersections. The LOS is assigned to the intersection as a whole or the specific approach/movement. The specific levels correlate to a range in delay (seconds). Table 5-1 below summarizes the LOS and their relationship with specific delay ranges for intersections, approaches, and movements.

Table 5-1
Signalized Intersections - Level of Service Characteristics

Level of Service	Average Signal Delay (seconds/vehicle)	Level of Service	Average Signal Delay (seconds/vehicle)
Α	≤ 10	D	> 35 and ≤ 55
В	> 10 and ≤ 20	E	> 55 and ≤ 80
С	> 20 and ≤ 35	F	> 80

The LOS ranges between A and F with a LOS F generally considered as minimum acceptable



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level.

In addition to LOS analyses, the volume-to-capacity ratios (v/c) are also analyzed. The v/c ratio analyzes the volume of vehicles at an intersection, movement, or approach and compares that with the available capacity. Under general Ministry guidelines, a v/c ratio of 0.85 is considered at capacity.

The level of service analysis was undertaken using Synchro 7.0 traffic operations analysis software. This software uses evaluation criteria in-line with the methodologies stated in the Highway Capacity Manual (HCM) 2000. A VISSIM traffic model was also prepared to better understand the characteristics at the Highway 1 / Admirals Road / McKenzie Avenue intersection.

Of note, after analysis of heavy vehicle traffic in the nearby highway segments and surrounding areas and after consultation with the MoTI staff, a general 5% heavy vehicle percentage is applied to all movements for analysis of the study area.

Synchro analysis output summaries are attached in Appendix B of this assessment.

### 5.5 Existing Conditions

Based on traffic volumes and above-mentioned assumptions, the study intersections were assessed using Synchro. Tables 5-2 to 5-12 summarize intersection LOS for each of the analyzed intersections.

Analysis results for the Highway 1 / Admirals Road / McKenzie Avenue intersection indicate that the intersection is operating at above-capacity levels for many of the approaches during both the AM and PM peak hours, coupled with high queue lengths on all approaches. This is consistent with field observations where long queues formulate on the eastbound and westbound intersection approaches on the highway during the AM and PM peak hours, respectively. For the urban section, the north leg and south leg of the intersection (McKenzie Avenue and Admirals Road) also exhibit long queues.

In specific, the southbound queue at the Highway 1 / Admirals Road / McKenzie Avenue intersection spills over as far as the Burnside Road / McKenzie Avenue intersection, effectively blocking movements from the Burnside Road / McKenzie Avenue intersection at times.

Most intersections to the west, north, and east of the Highway 1 / Admirals Road / McKenzie Avenue intersection have at/or near-capacity approaches with the exception of the intersections to the south of the Highway 1 / Admirals Road / McKenzie Avenue intersection, specifically the Admirals Road / Gorge Road and the Admirals Road / Craigflower Road intersections.

A summary of the overall intersection levels of service for the existing condition are illustrated in Figure 5-3.

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Table 5-2 Highway 1 / Admirals Road / McKenzie Avenue Intersection Levels of Service Summary

			•		00 000		,					
			High	way 1				Admir	als Road /	McKenzie A	venue	
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0.86	1.14	0.24	0.39	1.07	0.15	3.71	1.21	0.16	1.30	1.00	0.64
Average Delay(veh/s)	70.5	99.7	11.6	95.4	93.0	6.3	1281.7	172.7	35.4	266.7	115.8	2.1
LOS	E	F	В	F	F	A	F	F	D	F	F	A
95th Percentile Queue (m)	133.4	575.1	34.5	16.6	311.7	5.9	156.6	206.6	19.9	69.2	166.2	0.0
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	1.15	0.90	0.27	0.26	1.17	0.02	6.14	0.52	0.08	0.61	1.13	1.13
Average Delay(veh/s)	1422	34.5	11.8	88.2	127.5	10.9	2361.3	78.6	25.3	103.3	161.9	732
LOS	F	C	В	E	F	В	F	Ε	C	F	F	E
95th Percentile Queue (m)	220.7	4312	45.9	7.5	435.8	5.3	219.5	54.0	8.2	40.4	179.9	2302

Table 5-3 Highway 1 / Helmcken Road Interchange North Ramp Intersection Levels of Service Summary

			High	way 1		Helmcken Road						
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
//c ratio				0.19	0.19	0.51	0.59	1.54		155.555.555	0.28	0.02
Average Delay(veh/s)		augustica.		25.8	25.8	10.4	14.9	260.5		100000	14.3	7.2
.os	Market	AR SERVICE		C	C	В	В	F	SESSION	100000	В	A
95th Percentile Queue (m)				8.9	8.1	8.8	2.6	65.5	Bananae		21.2	2.8
M Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
/c ratio	Burney (above	eleja vije vije	oran de Union	0.29	0.30	0.38	1.30	0.99		Will SERVICE STREET	0.36	0.16
(verage Delay(veh/s)	ENERTY YEAR			27.3	27.3	9.7	203.7	47.6			14.7	4.2
os				C	C	A	F	D			В	A
95th Percentile Queue (m)				16.8	14.7	12.2	55.1	87.3			33.9	6.6

Table 5-4 Highway 1 / Helmcken Road Interchange South Ramp Intersection Levels of Service Summary

			High	way 1				Helmcken Road						
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
v/c ratio	1.56	1.55	1.26					0.	87	1.73	0.43			
Average Delay(veh/s)	281.5	279.5	140.8					33	3.7	387.8	42.1	(35) 350 51		
LOS	F	F	F				ALCOHOL:	(	0	F	D			
95th Percentile Queue (m)	225.7	231.1	32.8					53	3.1	66.8	20.5	CONTRACT.		
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
v/c ratio	0.59	0.59	2.73				SESSESSE	0.	75	2.25	0.71	K05555		
Average Delay(veh/s)	212	21.1	795.0	1.4.4.7979.00			* A common as	16	3.1	612.7	44.3			
LOS	C	C	F	4040865				1	В	F	D			
95th Percentile Queue (m)	57.5	53.7	204.8			THE THOM SHALL	3	1.6	98.5	36.6				

Table 5-5 McKenzie Avenue / Burnside Road Intersection Levels of Service Summary

				A STATE OF THE STA		~	THE STATE OF THE S					
			Burnsi	de Road	- 1				McKenzi	e Avenue		
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	1.65	0.56	0.17	0.20	0.40	0.06	0.70	0.59	0.04	0.41	0.86	0.50
Average Delay(veh/s)	334.4	31.8	14.1	26.7	28.2	12.3	38.7	21.4	10.6	20.8	24.6	9.1
LOS	F	C	В	C	C	В	D	C	В	C	C	A
95th Percentile Queue (m)	186.3	97.9	19.4	16.9	50.9	8.3	36.8	1092	4.0	13.3	135.4	20.6
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0,60	0.23	0.30	1.02	0.47	0.14	0.51	0.52	0.03	0.39	0.99	0.29
Average Delay(veh/s)	41.5	27.7	5.3	86.8	32.2	13.7	24.8	18.2	8.9	15.0	38.1	5.8
LOS	D	C	A	F	C	В	C	В	A	В	D	A
95th Percentile Queue (m)	55.5	37.2	15.7	163.2	66.1	13.6	23.0	92.5	2.9	13.4	235.7	14.5

Table 5-6 McKenzie Avenue / Carey Road Intersection Levels of Service Summary

				01 00	SIVIOC	Julin	mar y					
M Peak Hour	, VOV		McKenz	e Avenue				Carey	Road			
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0.48	0.	68		0.61		0.81	0.51	0.26	0.31	0.43	0.21
Average Delay(veh/s)	16.2	11	1.8	l	5.6		69.2	44.8	17.5	40.9	42.4	22.0
LOS	В		3	l	A		E	D	В	D	D	C
95th Percentile Queue (m)	7.1	12	3.5		33.7		59.6	52.4	13.9	19.7	282	13.3
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0.33	0.	60	İ	0.72		0.74	0.41	0.10	0.50	0.81	0.22
Average Delay(veh/s)	14.4	8	.0	l	3.4		79.6	44.4	129	49.5	63.5	17.6
LOS	В	8	3	l	A		E	D	В	D	E	В
95th Percentile Queue (m)	4.1	49	9.5		16.3		27.7	43.0	6.9	32.4	89.1	12.5



Table 5-7 McKenzie Avenue / Glanford Road Avenue Intersection Levels of Service Summary

			0. 00					
		McKen	zie Avenue			Glanford	Avenue	
AM Peak Hour	EBL	EBT EBR	WBL	WBT WBR	NBL NBT	NBR	SBL SE	T SBR
v/c ratio	0.69	1.42	0.91	1.07	0.38	0.54	1.3	17
Average Delay(veh/s)	65.1	216.6	78.8	70.8	35.3	7.3	126	52
LOS	E	F	E E		D	A	F	
95th Percentile Queue (m)	532	3592	79.8	246.0	39.5	27.2	158	32
PM Peak Hour	EBL	EBT EBR	WBL	WBT WBR	NBL NBT	NBR	SBL SE	ST SBR
v/c ratio	0.58	1.21	1.04	1.10	0.49	0.63	1.0	02
Average Delay(veh/s)	59.8	128.8	94.4	86.8	37.4	102	79	.9
LOS	E	F	F F		D	В	E	
95th Percentile Queue (m)	39.0	279.6	134.4 277.0		55.2	43.5	121.3	

Table 5-8 McKenzie Avenue / Highway 17 Southbound Ramp Intersection Levels of Service Summary

			McKenz	e Avenue			Highway 17 Southbound Ramp							
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR		
//c ratio Average Delay(veh/s) LOS 95th Percentile Queue(m) PM Peak Hour	1.36 199.7 F 254.6		0.17 20.3 C 16.5	0.90 85.0 F 54.9	0.41 10.9 B 60.5					0.25 35.5 D 31.2	0.05 32.4 C 9.4	1.30 182.6 F 193.9		
PM Peak Hour	EBL	EBT	EBR	WBL	WBL WBT WBR		NBL	NBT	NBR	SBL	SBT	SBR		
v/c ratio Average Delay(veh/s) LOS 95th Percentile Queue(m)	4	06 7.6 D	0.12 3.0 A 2.0	0.83 78.7 E 31.9						0.42 40.0 D 52.9	0.02 33.2 C 6.8	1.26 171.1 F 214.5		

Table 5-9 Admirals Road / Gorge Road Intersection Levels of Service Summary

			Gorge	e Road			Admirals Road						
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
v/c ratio Average Delay(veh/s) LOS 95th Percentile Queue (m)				0.38 16.8 B 30.4		0.11 6.0 A 4.0		0.66 9.8 A 56.2		0.34 11.4 B 11.2	0 28 7.2 A 26.3		
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR	
v/c ratio Average Delay(veh/s) LOS 95th Percentile Queue (m)				0.74 24.3 C 79.0		0.13 4.6 A 6.8		0.80 19.2 B 76.6		0.23 12.3 B 7.3	0.29 9.9 A 24.8		

Table 5-10 Admirals Road / Craigflower Road Intersection Levels of Service

					Sum	illary						
			Craigflo	wer Road				Admira	s Road			
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0.78	0.83	0.53		0.57 0.8		0.82	0.51		0.10	0.49	0.44
Average Delay (veh/s)	27.6	25.3	4.7		21.4		53.3	16	3.9	21.2	23.9	26.4
LOS	C	C	A		C		D	1	В	C	C	C
95th Percentile Queue (m)	40.7	117.7	17.1		30.3		30.5	48	3.2	6.1	22.6	23.0
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR
v/c ratio	0.71	0.44	0.32		0.84		0.89	0.	56	0.29	0.39	0.86
Average Delay (veh/s)	38.8	18.8	3.6	ı	34.8		50.8	16	8.8	27.7	25.3	522
LOS	D	В	A	l	C		D	1	В	C	C	D
95th Percentile Queue (m)	33.9	52.1	12.8	75.9		65.6	74.8		17.6	27.9	84.1	

Table 5-11 Highway 1 / Tillicum Road Intersection Levels of Service Summary

			High	way 1			Tillicum Road						
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT NBR	SBL	SBT	SBR		
v/c ratio	0.32	1.44	0.06	0.52	0.62	0.08	0.67	1.05	1.94	0.88	0.46		
Average Delay (veh/s)	71.3	231.4	16.1	81.5	29.1	5.4	49.4	100.6	517.8	78.0	34.1		
LOS	E	F	В	F	C	A	D	F	F	E	C		
95th Percentile Queue (m)	11.3	616.9	8.6	24.9	164.0	2.3	65.8	137.1	74.1	110.1	42.5		
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT NBR	SBL	SBT	SBR		
v/c ratio	0.49	1.97	0.15	0.57	1.11	0.09	0.83	1.25	0.59	1.02	0.46		
Average Delay (veh/s)	60.1	466.1	22.9	60.7	99.8	8.9	45.1	159.5	82.5	89.1	26 2		
LOS	E	F	C	E	F	A	D	F	F	F	C		
95th Percentile Queue (m)	22.5	473.3	15.6	39.1	238.1	7.0	94.4	159.7	20.1	122.1	32.6		

### Table 5-12 Highway 1 / Saanich Road Intersection Levels of Service Summary

				01 00	111100	Ounn	man y									
M Deel: Maur			Saanic	h Road					High	way 1						
AM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR				
v/c ratio	0.66	0.98						0.92	0.48	0.30	2.10	0.60	0.20	0.77	1.	37
Average Delay (veh/s)	77.0	87.4			37.6	15.3	578.9	35.2	192	32.1	19	9.2				
LOS	E	F	F		D	В	F	D	В	C		F				
95th Percentile Queue (m)	*55.0	147.0		115.5	94.5	33.0	48.9	133.4	29.4	54.5	59	7.9				
PM Peak Hour	EBL	EBT	EBR	WBL	WBT	WBR	NBL	NBT	NBR	SBL	SBT	SBR				
v/c ratio	0.61	1.00		0.86	0.36	0.46	1.90	0.70	0.46	0.85	1.	23				
Average Delay (veh/s)	60.0	80.1		68.5	29.4	9.8	495.1	42.9	27.2	49.2	144.0					
LOS	E	F		E	C	A	F	D	C	D	) F					
95th Percentile Queue (m)	62.5	159.1		88.9	71.6	46.7	49.9	145.8	57.1	76.9	46	3.0				

### 5.6 **Future Conditions**





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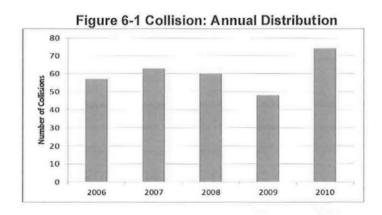
Not Responsive

### 6 **Traffic Safety Analysis**

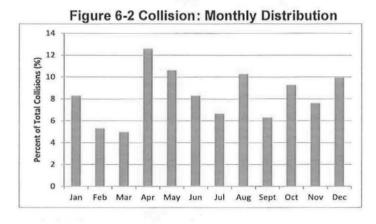
ICBC accident data for the period of 2006 to 2010, inclusive, were provided for the traffic safety analysis. During the five year period, a total of 302 collisions were reported at the Highway 1/ Admirals Road / McKenzie Avenue intersection. The following charts summarize the temporal safety analysis findings for the intersection. A copy of the accident data is attached as Appendix C.

Annual Distribution - Collision frequency at Highway 1 and Admirals/McKenzie intersection has remained relatively consistent during the past 5 years with a peak of 74 collisions in 2010.





Monthly Distribution - Collision frequency is relatively consistent throughout the year with no significant monthly trends observed. Collisions were highest in April and lowest in February and March.



Daily of Week Distribution - Collision frequency is highest during weekdays and lowest on weekends.

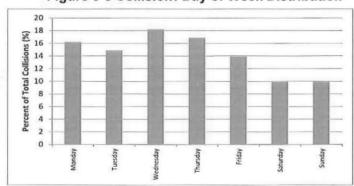


Figure 6-3 Collision: Day of Week Distribution

**Hourly Distribution** - Eighty-five percent of all collisions take place between 7:00 AM and 7:00 PM inclusive. Distinct peaks in collisions are observed during the AM and PM peak traffic periods.

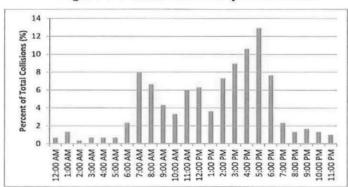


Figure 6-4 Collision: Hourly Distribution

### 6.1 Collision Type and Location

The following is a summary of collisions by type, configuration and location for the Highway 1 / Admirals Road /McKenzie intersection over the five year period, from 2006 to 2010.

Majority of the collisions involved vehicle conflicts only, 5% of which involved heavy vehicles. Cyclists and pedestrians were involved in approximately 1% of all collisions over the past 5 years.

**Collision Configuration** - Three-quarters of all collisions reported at the intersection are rear end collisions. Approximately 10% are collisions involving conflicts with other vehicles, pedestrians or wildlife.

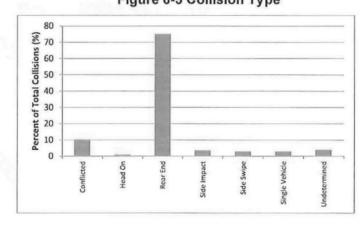


Figure 6-5 Collision Type

Approximately two-thirds of all intersection collisions were reported as taking place on the east and west legs of the intersection along Highway 1, approximately one-quarter were on the north leg of the intersection along McKenzie Avenue, and the remaining 10% were on the south leg of the intersection along Admirals Road.



GLOBAL PERSPECTIVE. LOCAL FOCUS.

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Based on the Safety Review of McKenzie Avenue from Highway 1 to Highway 17 (Opus, 2011), the majority of the rear-end collisions occurred on eastbound Highway 1.

### 6.2 Collision Severity and Cost

Over the past five years, 52% of all collisions at the Highway 1 / Admirals Road / McKenzie Avenue intersection were property damage only, and 48% involved injury. No fatal collisions occurred at this location during the past 5 years.

The following average collision cost figures were assumed (based on MoTI values for collision costs):

Fatality \$ 5.6M Injury \$ 100K PDO \$ 7,350

These values were used to calculate the cost of collisions dependant on severity. The total collision cost at the Highway 1 / Admirals Road / McKenzie Avenue intersection for the past five years is estimated to be approximately \$15.6 million or an average of \$3.1 million per year. This translates into an average cost of \$51,500 per collision. While property damage only (PDO) collisions make up approximately half of the total observed collisions they contribute to only approximately 7% of total cost of collisions incurred over the five year time frame.

### 6.3 Average Annual Collision Rate

Average Annual Collision Rate is defined as the number of collisions per year divided by the number of vehicles entering the intersection. It provides a means of comparing collision frequency at a location with provincial average values to assist in determining if a location is collision prone.

The Average Daily Traffic (ADT) is based on the volume provided by MoT from the 2009 signal download at the Highway 1 / Admirals Road / McKenzie Avenue intersection. Based on this information ADT is estimated as approximately 69,000 vehicles per day.

Collision rates were then calculated for the intersection and compared with the 2003-2007 provincial average rates for similar highways. The results are shown in Table 6-1.

Table 6-1
Average Annual Collision Rate for Highway 1 and Admirals/McKenzie Intersection

Intersection	Collisions (2006- 2010)	ADT	MEV/year	Collision Rate (C/MEV)	Provincial Rate* (C/MEV)	Exceeds Provincial Rate?
Highway 1 and Admirals/McKenzie	302	69,000	25.19	2.4	0.36	YES

\*Source: MoTI as shown in Appendix D ADT is average daily traffic MEV is million vehicle entering C is collisions

The Highway 1 / Admirals Road / McKenzie Avenue intersection was found to have an intersection collision rate at 2.4 collisions per million entering vehicles which is significantly higher than the average provincial rate of 0.36. Based on this analysis, this intersection may be considered collision prone. However, a more detailed critical collision rate analysis is required to confirm that this location is indeed hazardous due to location specific characteristics, for example intersection configuration.

### 7 Conclusion

### 7.1 Traffic Assessment

### **Existing Condition (2011)**

- The Highway 1 / Admirals Road/ McKenzie Avenue modelled intersection indicates the formulation of queues on all approaches, which are consistent with field observations.
  - Long queues are formed on the TransCanada Highway eastbound and westbound directions during the AM and PM peak hours.
  - Southbound queues on McKenzie Avenue extend past Burnside Road blocking vehicles at the Burnside Road / McKenzie Avenue intersection.
  - Most intersections (with exception to those south of the Highway 1 / Admirals Road / McKenzie Avenue intersection) are performing at or near capacity.

### **Future Condition (2038)**

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### 7.2 Safety Assessment

The number of collisions throughout the studied years was relatively consistent.



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- Major collision types include:
  - Rear end (specifically in the eastbound direction) 75%
  - Conflicts with other vehicles, pedestrians, or wildlife contributes 10%
- The estimated collision for the studied area during the 5-year study period was \$15.6 million or an average of \$3.1 million per year. There were no fatal collisions throughout the studied period.
- The collision rate is at 2.4 collisions per million, which is higher than the average provincial rate of 0.36, and may be considered collision prone.

# **BC TRANSIT**

CLIENT

VICTORIA, BC

DESCRIPTION

HIGHWAY 1 BUS LANE CONCEPTS

THETIS INTERCHANGE TO SAANICH ROAD

VICTORIA, BC

2231-28901-01

MCSL PROJECT NO

### DRAWING INDEX:

OPTION 1a - QUEUE JUMP LANES

OPTION 1b - QUEUE JUMP LANES

OPTION 2 - SHOULDER BUS LANES

OPTION 3 - OUTSIDE BUS LANES

OPTION 4 - REVERSIBLE MEDIAN BUS LANE OPTION 5 - TWO-WAY MEDIAN BUS LANES

## **McElhanney**

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Page 311 TRA-2013-00114 Pages 312 through 336 redacted for the following reasons: