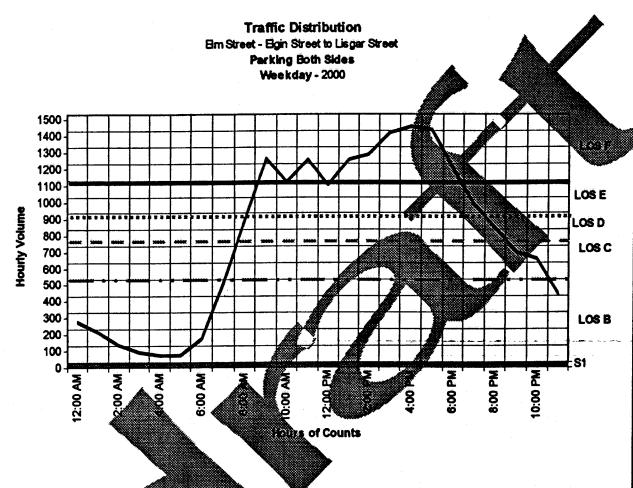
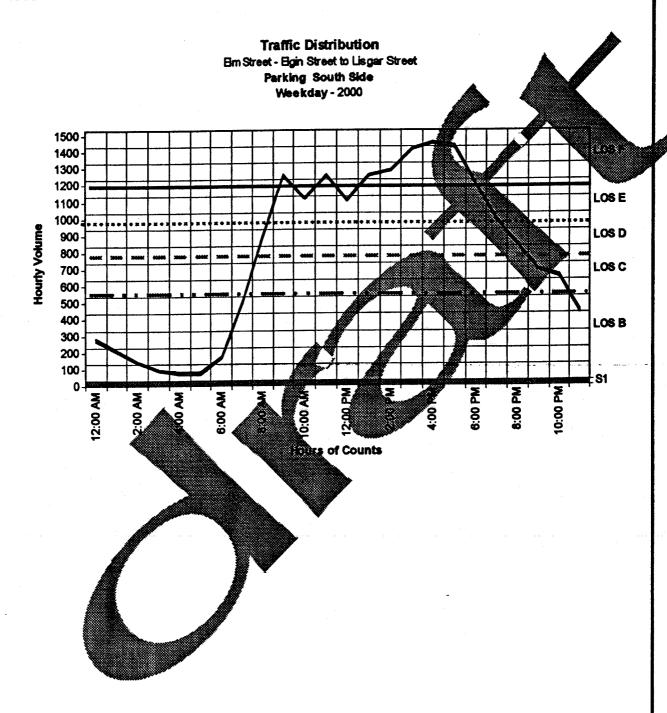
traffic congestion should parking be installed. There would be extreme congestion LOS "F" from 9:00 am till 6:00 pm during the weekdays. On the weekends the congestion would climb to LOS "D" long delays and LOS "F" severe congestion, no movement from 12:00 noon until 4:00 pm.

This analysis indicates that the implementation of on-street parking would have such a

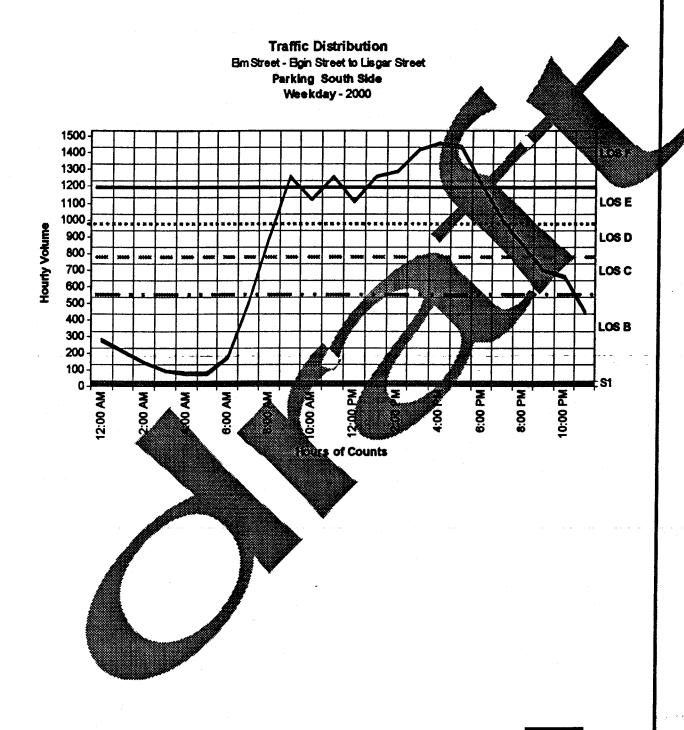


serious affect that Em Street out at satisfy the demand of the traffic. There would be a demand of 50 to 450 additional chicular trips per hour for 11 hours that could not be supplied by Elm Street. These trips will find alternate routes. These routes are via Regent-Douglas-Brady for the traffic from Lorne Street and the present Area Municipalities of Onaping-Falls and Rayside-Balfour that would like to go to and from the Kingsway Beatty-Frood kathleen, as well as College-Evergreen-St. Anne routes would be taken by those wanting to go to Notre Dame. As indicated, the creation of congestion will no alter the demand. The additional congestion will be transferred to other routes.

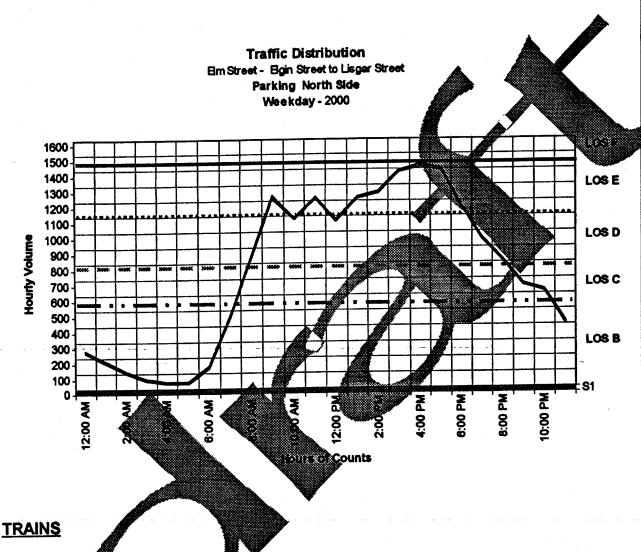
The same form of analysis was carried out for parking along the north and south sides during the weekday. The following graph (Elm Street Parking South Side Weekday) shows that by implementing parking along one side there is still congestion and up to LOS "F" (no movement). Though more vehicles can go through, the demand will still not be satisfied and up to 300 vehicles per hour for up to 10 hours would seek other less direct routes around the CBD.



The same form of analysis was carried out for parking along the north and south sides during the weekday. The following graph (Elm Street Parking South Side Weekday) shows that by implementing parking along one side there is still congestion and up to LOS "F" (no movement). Though more vehicles can go through, the demand will still not be satisfied and up to 300 vehicles per hour for up to 10 hours would seek other less direct routes around the CBD.



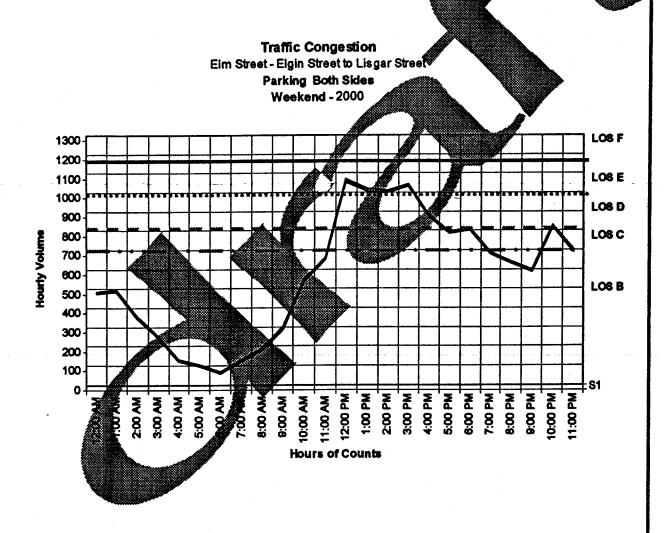
An analysis was also conducted with parking permitted along the north side. The following graph (Elm Street Parking North Side Weekday) indicates that the level of congestion was reduced to LOS "E" (very long traffic delays). The increased vehicle carrying capacity is due to the ability to deal with left turns at the intersections. The congestion is still higher than desirable within the Region.



At present queuing along Elm Street due to the closing of the rail crossing causes substantial delays. All three on street parking scenarios create a level of congestion that will make the clearing of raffic queues along Elm Street associated with train related stoppages difficult. At present these are of some concern and any reduction in the ability of the Elm Street corridor to clear the queued traffic will create safety concerns that we will not be able to address.

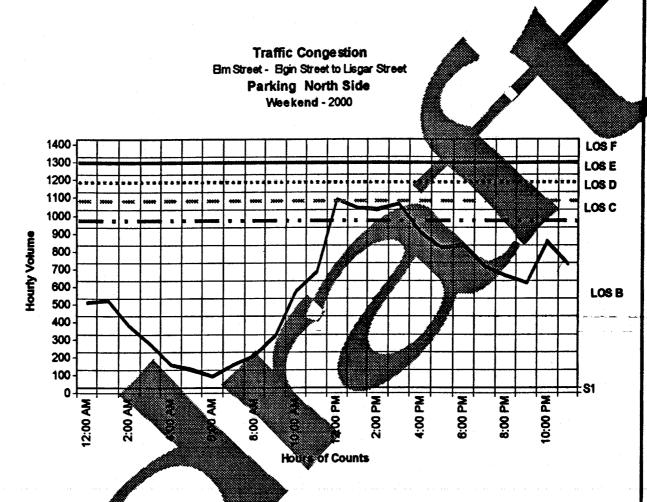
The question was raised regarding the possibility of having parking permitted on Elm Street only on the weekends. The same form of analysis was carried out for the weekends in the following three graphs (Elm Street Parking Both Sides Weekend), (Elm Street Parking South Side Weekend), and (Elm Street Parking North Side Weekend).

As can be seen in the data, the implementation of parking along both sides of Elm Street will still produce an increased level of congestion. The weekend still represents a high traffic demand that Elm Street will not be able to handle without "long traffic delays", LOS D to "very long traffic delays" LOS "F" between noon and 3:00 m. gain these delays will see some redirecting of traffic.



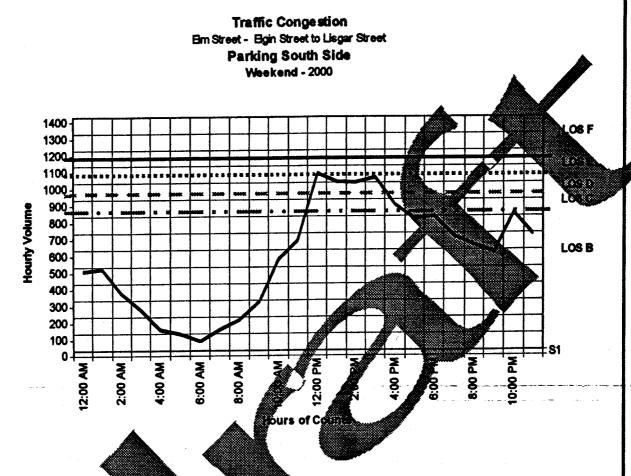
The remaining two graphs (Elm Street Parking North Side, Weekend) and (Elm Street Parking South Side, Weekend) indicate that the implementation of parking along the north side would increase the congestion to levels of service to LOS "C" and LOS "D" during the same time period.

The data indicates that there still is a demand for roadway capacity that can be supplied on Elm Street with parking on the north without substantially high levels of congestion, though a higher level of congestion than what presently occurs.



It should be pointed out that at present, on-street parking at meters is free on the weekends. The parking that would occur would be free parking with a cost of additional signing.

The removal of two through lanes to allow for parking along the **south side** is more dramatic on traffic congestion. This relates to the existing left turn movements and the requirement to satisfy the demands.



Structural concerns specificaliso be accressed at this time. The assumption made to arrive at the capacity calculations is that there would be left turn lanes as required. These would not be in place if parking is implemented during the weekends only. The effect on the capacity of the system would be to increase the congestion previously indicated.

ENVIRONMENTAL

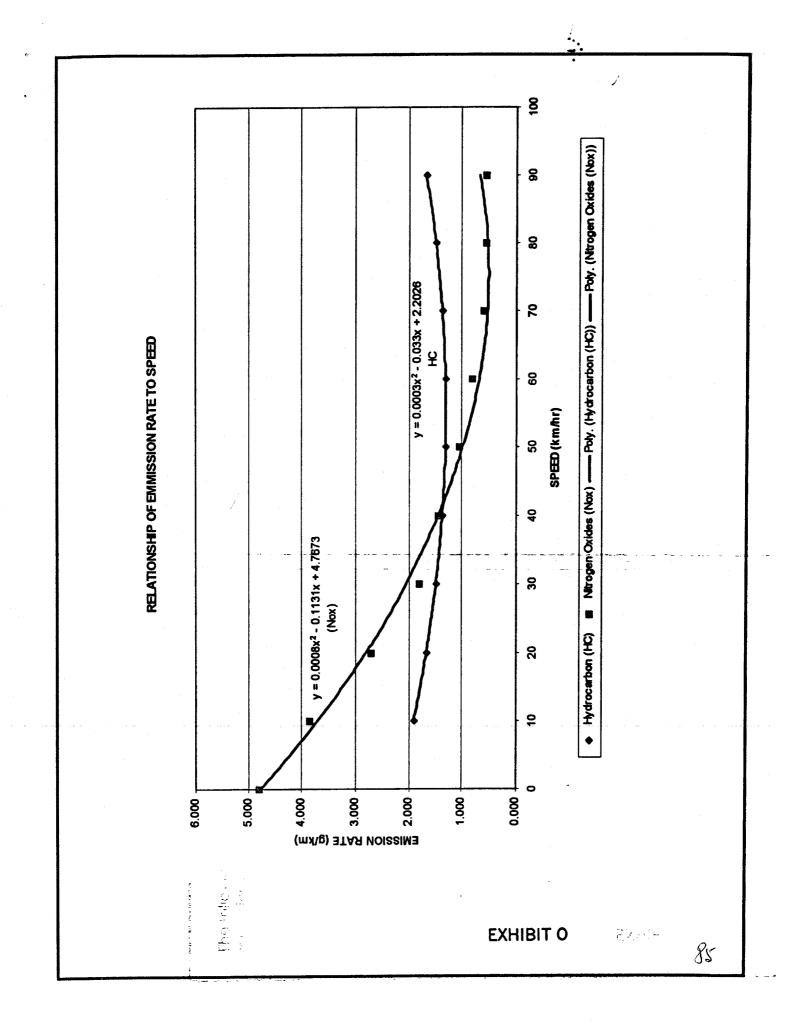
The Region's Traffic and Transportation section now analyses the environmental impacts of traffic alterations such as implementing parking along Elm Street. The analysis of the three on-street parking scenarios is based in part on the effects of vehicle delays and changes in greenhouse gas emissions. The following Exhibit O, outlines the relationship of vehicular speeds and emissions of Nitrogen Oxides (NOx) and Hydro Carbons (HC) such as carbon monoxide.

This data was applied to speed and congestion capacity calculation for the tree signal Elm Street system. Using advance computer modeling we have arrived at a sign in various ranges of pollution based on the changes in congestion to oughout a sign and based on weekday and weekend scenarios.

Tables Exhibit P Weekday On-street Parking (five days a week 5 weeks a year) and Exhibit Q, Weekend Parking Only (two days a week 5 weeks a year), outlines the way the differences in gasoline costs and pollution was calculated for the various scenarios. The analysis also included additional costs for los time associated with the congestion. The data was calculated for various LOS's and based on these and other data produced under the previous analysis, environmental and monetary costs were arrived at.

Exhibits R and S, Summary Annual Costs tabulates the differences between the scenarios and the existing situation. This data was further alterests including the removal of trucks, and a 10% reduction in fairic.—This was based on an assumption from some Committee members that some traffic would be eliminated. The comparison to the existing traffic delay cost was produced as Exhibit T Annual Increase in Costs, Elm Street.

This comparison includes that the process could increase the monetary cost to drivers of up to \$1,005,290.00 in time and \$25,598.00 in fuel. From an environmental perspective there could be an additional \$24 kg/year of nitrogen oxides (NOx) and 248 kg/year of hydrocarbais (NC) is added to the environment. We have attached for the information of the committee, a description of the effects of NOx and carbon monoxide (Co), to both health and the environment (see Exhibit U).

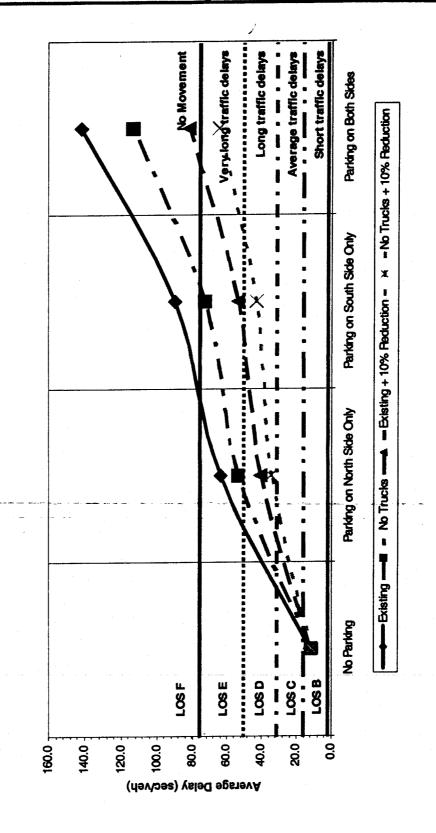


The following are the graphical comparisons that continue the previous congestion calculations by looking at the all three scenarios and the existing scenarios with the hoped for reductions.

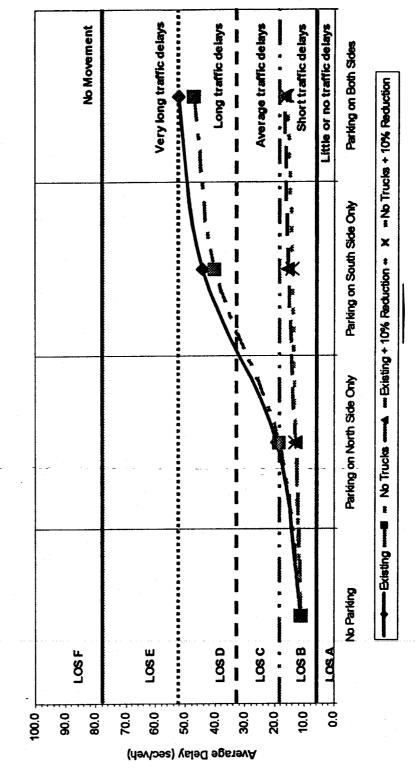
Elgin Street Parking Scenarios

Weekday - PM Peak Hour

CAPACITY ANALYSIS



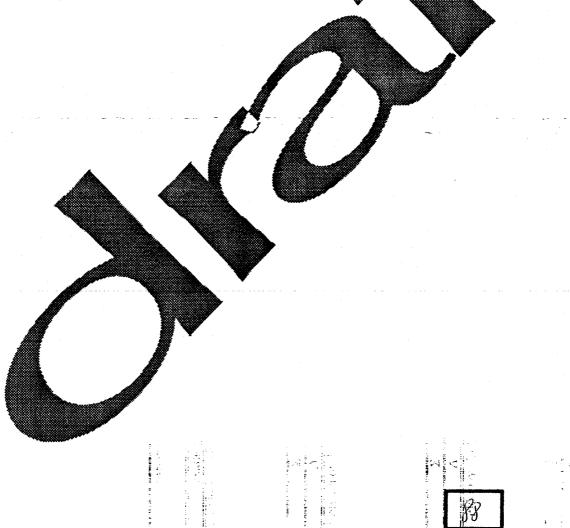
On-Street Parking Scenarios on Em Street
Elgin Street to Lisgar Street
Weekend - PMPeak Hour



The above data for weekdays shows that with any of the three options, parking north side, parking south side, and parking both sides, there will still be a substantial reduction in vehicular capacity along Elm Street. The least disruptive scenario would be parking along the north side only, along with the removal of all trucks and a corresponding reduction of 10% of the traffic. This would still create long traffic delays along this three signal corridor.

Again, the issue of compounding these delays with the disruption that presently occurs due the closure of Elm Street by railroad activity must be considered. The result will see queuing for longer periods of time that can extend as far as the Lorne street intersection. The reality of this still depends on a 10% reduction and the entert of all truck traffic.

The following is a graphical comparison of the delays felt as a result of the proposed parking during the weekend only.



CAPACITY ANALYSIS - ON-STREET PARKING SCENARIOS ALONG ELM STREET

WEEKDAY - ELGIN STREET TO LISGAR STREET

(\$/year) (kg/year) (k 70,278 2455 29,282 1023 6,874 246 9,558 346 27,429 1002 12,815 469 85,959 3085 12,687 637 6,874 246 6,874 246 7,646 277 14,770 540 28,913 1061 87,485 3146 17,206 692 30,746 1074 17,206 692 3,437 123 5,735 208 4,220 154 48,496 1793 92,635 3351 82,635 3351	Scenarios	SOT	Duration Av. De	lays	Travel Time	Speed	Time Spending	Fuel Consumption	XON	오
B 24 12.4 90 32 1,404,000 70,278 2455 B 10 12.4 90 32 585,000 29,282 1023 C 2 33 110 26 143,130 6,874 246 D 2.5 38 110 23 210,600 9,558 346 E 6.5 78 156 19 657,410 27,429 1002 F 3 82 160 18 657,410 27,429 1002 F 3 8 7 160 18 31,520 1023 3085 C 2 32,5 7 16 143,130			(hr)		(sec)	(km/hr)	(\$/year)	(\$/year)"	(kg/year)	(kg/year)
B 10 12.4 90 32 585,000 29,282 1023 C 2 33 110 26 143,130 6,874 246 E 6.5 78 156 19 657,410 27,429 1002 F 3 82 160 18 311,220 12,429 400 F 3 82 160 18 311,220 12,429 400 B 10 12.4 90 32 585,000 29,282 1023 C 2 32.5 110 29 143,130 6,874 246 D 2 52.0 130 26 168,480 7,646 277 E 3.5 78.0 156 22 353,990 14,770 540 F 6.5 97.0 175 77 68,745 27 27 F 6.5 97.0 175 17 77,646 27 </th <th>Existing</th> <th>В</th> <th>24</th> <th>12.4</th> <th>06</th> <th>32</th> <th>1,404,000</th> <th>70,278</th> <th>2455</th> <th>1830</th>	Existing	В	24	12.4	06	32	1,404,000	70,278	2455	1830
C 2 33 110 26 143,130 6,874 246 D 2.5 52 130 23 210,600 9,558 346 F 3 82 166 19 657,410 27,429 1002 F 3 82 160 18 657,410 27,429 1002 F 3 82 160 18 657,410 27,429 1002 F 24 7 700 32 585,000 29,282 1023 C 2 32.5 110 29 143,130 6,874 246 D 2 52.0 130 26 168,480 7,646 277 E 3.5 78.0 156 22 353,990 14,770 540 F 6.5 97.0 175 17 737,685 28,913 1061 F 6.5 97.0 175 17,865 34,37 <t< th=""><th>Parking on West Side</th><th>В</th><td>10</td><td>12.4</td><td>- 06</td><td>32</td><td>585,000</td><td>29,282</td><td>1023</td><td>763</td></t<>	Parking on West Side	В	10	12.4	- 06	32	585,000	29,282	1023	763
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2,338,765 92,635 3351 3351 934,765 22,357 898	and the particular state of the second secon	L	9	141.7	219	13	1,425,450	48,496	1793	957
934,765 22,357 896	3		24				2,338,765	92,635	3351	2055
	Δ						934,765	22.357	968	224

** Occupancy = 1.2 @ \$10/hr

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EXHII

IMPACT ANALYSIS OF VARIOUS PARKING SCENARIOS ON ELM STREET TRAFFIC

Elm Street Capacity Analysis - Various Parking Scemarios Weekend

웃	(kg/vear)	400	325	81	406	9	325	18	99	409	6	233	45	75	69	423	23
XON	(kg/year)	514	417	123	540	27	417	27	108	552	39	300	88	123	120	611	26
Fuel Consumption	(\$/year)	14,831	12.050	3,437	15,487	929	12,050	764	2,974	15,788	256	8,651	1,909	3,398	3,282	17,241	2,410
Time	(\$/year)	294,667	239,417	71,565	310,982	16,315	239,417	15,903	65,520	320,840	26,173	171,889	39,758	74,880	78,664	365,192	70,525
Speed	(km/hr)	34	34	26			88	26	23			8	56	23	19		
Travel Time	(sec)	85	85	110			85	110	130			85	110	130	156		
Duration Av. Delays	(Sec/veh)	12.4	12.4	32.5			12.4	32.5	52			12.4	32.5	52	78		
Duration	(hr)	24	19.5	4.5	24		19.5	1	3.5	24		14	2.5	4	3.5	24	
S07		8	В	ပ			В	ပ	۵			8	ပ	۵	Ш		
Scenarios		Existing	Parking on North Side		Σ	Ψ	Parking on South Side			Σ	Ψ.	Parking on Both Sides				Σ	Φ

* Occupancy = 1.2 @ \$10/hr ** Fuel @ 70 cents/litre

EXHIBIT S

SUMMARY STREET PARKING SCENARIOS ALONG ELM STREET ANNUAL COSTS

Scenarios	Time	Fuel Consumption	XON	HC HC
	(\$/year)	(\$/year)	(kg/year)	(kg/year)
Existing	1,698,667	70,278	2,968	2,230
Parking on North Side	2,218,342	101,446	3,625	2,389
Parking on South Side	2,309,125	103,273	3,698	2,408
Parking on Both Sides	2,703,957	109,876	3,962	2,477
Parking West Side + 10% Reduction	1,848,600	92,036	3,157	2,271
Parking East Side + 10% Reduction	2,042,040	93,076	3,275	2,302
Parking Both Sides + 10% Reduction	2,489,760	95,103	3,771	2,436

Annual Increase in Costs, Elm Street

Comparison - Various Parking Scenarios to Existing Condition

Scenarios	Time	Fuel Consumption	XON	윋
	(\$/year)	(\$/year)	(kg/year)	(kg/year)
Parking on North Side	519,675	31,168	657	159
Parking on South Side	610,458	32,995	730	178
Parking on Both Sides	1,005,290	39,598	994	248
Parking West Side + 10% Reduction	149,933	21,758	189	41
Parking East Side + 10% Reduction	343,373	22,798	307	72
Parking Both Sides + 10% Reduction	791,093	24,826	802	206

* Occupancy = 1.2 @ \$10/hr ** Fuel @ 70 cents/litre

CARS AND POLLUTION

The American Lung Association Web Site http://www.lungusa.org/air/envcarcare.html

Transportation sources contribute more than half the total amount of man-made air pollution in the United States today. Motor vehicle emissions account for approximately 77 percent of the carbon monoxide (CO), more than 35.6 percent of the volatile organic compounds (including hydrocarbons) and forty five percent of the nitrogen oxides (NOx) in our nation's air.

Carbon monoxide emissions are a result of incomplete fuel combustion. CO is a colorless, odorless gas which limits the blood's ability to transport oxygen to body tissues. This places a strain on people with weak hearts and respiratory diseases, the elderly, and pregnant women. High levels of CO can also cause dizziness, headaches, impaired coordination and, at very high levels, even death.

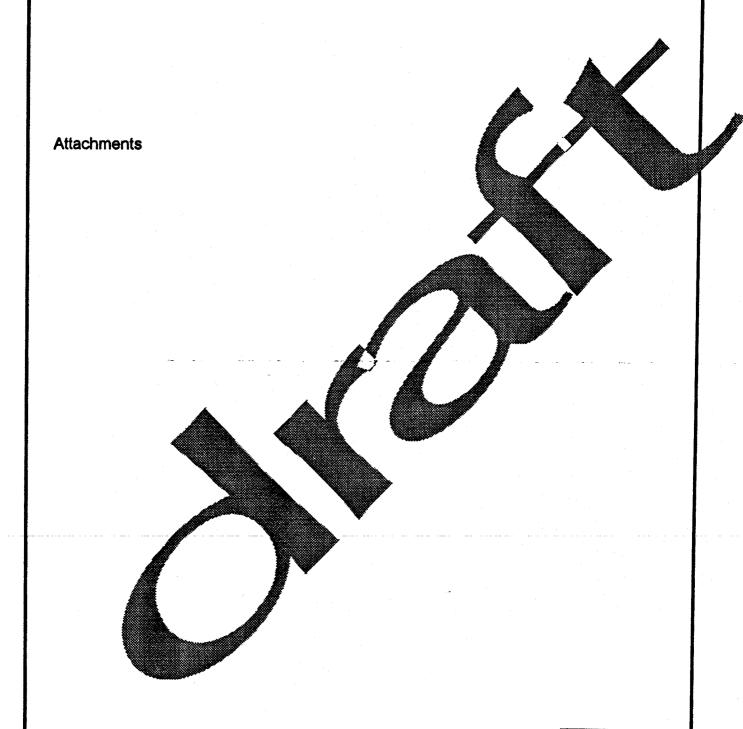
Nitrogen oxides are the result of high temperature combustion. These pollutants can damage lung tissue and aggravate chronic lung diseases such as asthma. In addition, NOx can lower the body's resistance to respiratory infection.

Volatile organic compounds (including hydrocarbons) are another product of incomplete combustion, and when exposed to sunlight are involved in the chemical reactions which lead to the formation of ozone.

Ozone, a major component of smog, is a strong irritant to the eye and respiratory tract. Like NOx, ozone can cause increased respiratory problems for people with asthma and other respiratory diseases.

EXHIBIT U

In this representation parking on both sides is still very disruptive with or without truck traffic. Should there be a total weekend prohibition of truck traffic along with a 10% reduction of vehicular traffic, the congestion would remain at LOS "B" or better.





Elm St. Traffic Report

Prepared for

The Region of Sudbury

December 2000

December 2000

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1. OBJECTIVE

The following represents the results of an omnibus public opinion survey of voting age residents of the Region of Sudbury. Included in this report are questions subscribed to by the Region of Sudbury related to attitudes towards traffic and parking on Elm Street in Sudbury.

A total of 400 residents of the Region of Sudbury, 18 years of age and older, were contacted in this survey. Interviews were conducted between November 13th and November 17th 2000.

2. METHODOLOGY AND LOGISTICS

Study Sample

• A total of 400 respondents 18 years of age and older were interviewed in the survey from across the Region of Sudbury.

Survey Method

- The survey was conducted using computer-assisted techniques of telephone interviewing (CATI) and random number selection. No pre-imposed demographic quotas were set, as the survey method ensured a representative sample of the general population of the Region of Sudbury.
- The study sample was drawn using a modified method of "Random Digit Dialing" (Mitofsky-Waksberg).
- A total of 30% of all interviews were monitored and the management of Oraclepoll Research supervised 100% of calls.

Logistics

- The survey was conducted between November 13th and November 17th 2000.
- Initial calls were made from 5:30 p.m. to 9:30 p.m. with call-backs of no-answers and busy numbers made on a (staggered) daily rotating basis up to 5 times (from 10:00 a.m. to 9:30 p.m.) until contact was made. In addition, telephone interview appointments were attempted with those respondents unable to complete the survey at the time of contact.

Confidence

• The margin of error for a survey of this nature is $\pm 4.9\%$, 19/20 times

3. EXECUTIVE SUMMARY

Among respondents who had an opinion about the most important issue facing their community, the top three concerns were jobs (14%), health care (13%), and roads (12%). Issues of amalgamation (8%), taxes (7%), and the state of downtown (4%) were the next most common concerns.

In a full seven-day week, 19% of respondents travel along Elm Street five times a week or more, 29% use it four times or less and 51% use Elm Street once a week or less. Of the 51% who said they do not travel weekly on Elm Street, 33% claim not to use Elm Street at all.

The method of transportation most frequently used on Elm Street is the car (89%). 5% of respondents most frequently travel by foot, and 4% by public transit.

Reaction to the proposal to reduce the number of lanes on Elm Street was not favorable, with 50% stating that Elm Street should be left as it is. Only 5% felt that there should be a reduction in the number of lanes on Elm Street, while 39% favored a reduction in the number of lanes on a trial basis only.

Respondents who favored the reduction in the number of lanes on Elm Street cited the need to create more parking (10%), the need to help downtown (6%), the need to attract people and shoppers (5%), and the need for Elm Street to be more pedestrian-friendly.

Respondents who favored maintaining the status quo said the reduction in the number of lanes would create congestion (13%) and that there was too much traffic on Elm Street already (9%). 6% expressed the need for a traffic flow on Elm Street, and 5% said the reduction in the number of lanes would not work or help downtown business. 4% of respondents claimed Elm Street is fine as it is, and 3% said the proposed changes were a waste of money.

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If the traffic lanes on Elm Street were reduced, 61% said they would use an alternate route to avoid Elm Street, with 47% of those respondents saying they would use Regent Street and Douglas / Brady underpass, and 34% saying they would use LaSalle and Barrydowne.

If the reduction in the number of lanes on Elm Street were done on a one-month trial basis, 33% said they would be more likely to support the proposal, 16% said they would be less likely, and 46% said it would have no effect on their decision to support or oppose the proposal.

If during peak rush hour traffic periods full four-lane traffic were allowed, <u>44%</u> said they would be more likely to support the proposal, 19% said they would be less likely, and 32% said it would have no effect on their support or opposition.

If metered parking were allowed along Elm Street, 26% said they would be more likely to support the proposal, 33% said they would be less likely, and 35% said it would have no effect on their decision to support or oppose the proposal.

4. RESULTS BY QUESTION

In your opinion, what is the most important issue facing your community at this time?

% % %
%
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Q1. In an average full seven-day week, that is five weekdays, Saturday and Sunday, approximately how often do you travel along Elm Street in downtown Sudbury?

Once	14%	Go to Q3
Twice	11%	Go to Q3
Three times	2%	Go to Q3
Four times	2%	Go to Q3
Five or more	19%	Go to Q3
Don't know	1%	Go to Q3
Not weekly	51%	Go to Q2

Q2. How often would you say that you travel along Elm Street?

Once a month	25%	Go to Q3
Twice a month	20%	Go to Q3
Three times a month	2%	Go to Q3
Four times a month	4%	Go to Q3
Not monthly	12%	Go to Q3
Don't know	4%	Go to Q4
Not at all	33%	Go to Q4

Q3. What method of transportation do you most frequently use when traveling on Elm Street?

Car	89%
Foot	5%
Public transit	4%
Taxi	1%
Bicycle	1%

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Q4. There is currently a proposal to reduce the number of traffic lanes on Elm Street in downtown Sudbury [between Lisgar Street and the train tracks past Elgin Street] from four lanes to two.

Those in favor of the proposal cite the need to reduce [vehicle] traffic in the area to create a pedestrian friendly area with on-Street parking in order to attract shoppers to the downtown, which may increase congestion and slow traffic. Which of the following statements most resembles your opinion on this issue?

I feel that the Elm Street should be left as it is	50%
I favor a reduction in the number of lanes on Elm from four to two on a trial basis	39%
I feel that there should be a reduction in the number of lanes from four to two on Elm	5%
Don't know	6%

Q5. Can you tell me why you feel this way?

7-1:	
Don't know	17%
Will create congestion	13%
Create parking	10%
Too much traffic already	9%
Need to help downtown	6%
On a trial basis	6%
Need a traffic flow	6%
Attract people / shoppers	5%
It won't help / work	5%
Fine as it is	4%
Pedestrian friendly	3%
Waste of money	3%
Don't go downtown	3%
Would mean fewer people	2%
No big trucks	2%
Need less traffic	2%
Can use other routes	1%

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Dangerous	1%
Not needed	1%
Need more information	1%

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Q6. If the traffic lanes on Elm Street were reduced, would you use an alternate route to get to your destination or would you continue to use Elm Street?

Alternate	61%	Go to Q7
Continue	26%	Go to Q8
Don't know	13%	Go to Q8

Q7. Which of the alternate routes would you choose?

Regent St. & Douglas / Brady underpass	47%
LaSalle & Barrydowne	34%
Beatty St. & Kathleen	7%
College & Kathleen	7%
Don't know	5%

What effect would each of the following have on your decision to support or oppose the proposed reduction of traffic lanes on Elm Street? For each area that I read, please state whether it would make you more likely to support, less likely to support, or have no effect on your decision to support or oppose the proposal.

Q8. If it were done on a one-month trial basis

More likely	33%
Less likely	16%
No effect	46%
Don't know	4%

Q9. If during peak rush hour traffic periods [8am - 9 am & 4 pm - 6 pm] full four lane traffic were allowed

More likely	44%
Less likely	19%
No effect	32%
Don't know	4%

Q10. If metered parking were allowed along Elm Street

26%
33%
35%
5%