





TTC - TWRC

Toronto Waterfront Port Lands Transit Environmental Assessment

Terms of Reference (ToR)

August 2006

As amended **January 24, 2007**

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VOLUME 2 (under separate cover)

ToR Consultation Record

1. INTRODUCTION

The Toronto Transit Commission (TTC) is proceeding with Individual Environmental Assessment (IEA) Studies to identify the transit improvements required to support planned development in the Eastern Waterfront. These Studies are being undertaken in cooperation with the Toronto Waterfront Revitalization Corporation (TWRC) and the City of Toronto. Ultimately the IEA Studies will identify a preferred approach to providing an effective transit network to serve the new waterfront communities comprised of the East Bayfront, West Don Lands, and Port Lands precincts. The TTC as proponent is seeking to conduct three IEAs (one for each precinct).

Transit in the three precincts will be interconnected and will eventually form a continuous system linked to the downtown core, the subway system, the grid of local transit routes in the area and the GO commuter rail system. Given that the overall problem statement, network considerations and overall planning process will be similar for the three IEAs, three similar IEA Terms of Reference (ToR) documents are being prepared which will govern the preparation of the appropriate IEA. The separate ToRs and studies will allow each IEA to be completed on its own timeline, which is tied to anticipated development of the various precincts, while at the same time ensuring full coordination amongst the 3 studies.

The overall objective of each IEA is the identification of feasible and cost effective solutions to the challenges faced in expanding Toronto's transit system through the study area to support planned growth, while minimizing impacts on the environment. An integral component of this transit expansion will be the integration of service through the West Don Lands, the East Bayfront Lands, and the Port Lands.

This ToR outlines what will be studied in the Port Lands IEA to address the information requirements set out in section 6.1(2) of the Ontario Environmental Assessment Act (OEAA). The ToR is being prepared in accordance with Section 6(2)(a) of the OEAA.

The OEAA requires proponents to examine two types of alternatives. The first type consists of "alternatives to the undertaking", which may be thought of as functionally different ways of approaching and dealing with the identified problem or opportunity. For the purposes of this ToR and subsequent IEAs, these alternatives will be referred to as "planning alternatives". The second type consists of "alternative methods of carrying out the undertaking", which may be thought of as different ways of carrying out a similar activity (i.e. different cross-section designs). For the purpose of this ToR and subsequent IEAs these alternatives will be referred to as "design alternatives".

1.1 BACKGROUND

The TWRC and the City of Toronto have now completed sufficient Precinct Planning and the development of Class EA Master Plans, which allows the TTC to commence IEAs to define the required transit facilities required to support proposed development in the East Bayfront and West Don Lands. Although the Precinct Plan is not yet complete for the Port Lands precincts, TTC has elected to prepare the ToR for the Port Lands, recognizing the potential interrelationship with the two adjacent precincts: the East Bayfront and the West Don Lands.

Sustainable redevelopment and revitalization of these three precincts will require an effective transit system (as well as roads, pedestrian and cycling facilities) to service the large number of planned residential and employment opportunities. While roads will provide some of the transportation capacity in and out of the area, a high transit modal split is absolutely essential to achieve TWRC's and the City's objectives.

The formal framework for achieving these objectives was set out in the Central Waterfront Secondary Plan which was approved by City Council on March 2003 (BY-LAW No. 346-2003). It identifies a transportation strategy to provide a sustainable network in, to and from the waterfront communities with a particular focus on encouraging walking, cycling, transit use and water transportation. A number of policies are noted including:

- A "Transit First" approach will be adopted which provides for the early construction and operation of planned higher-order transit services at an early stage in the development process so that the transit-oriented objectives of the plan are achieved from the outset.
- The provision of the rights-of-way required to accommodate the proposed waterfront transit network over time as shown in Exhibit 1.1. The rights-of-way are to accommodate travel lanes, transit, pedestrian and cycling requirements and are to be refined through further detailed study;
- The existing bus and streetcar network will be extended into the waterfront area providing numerous connections north-south to connect the waterfront with existing nearby communities;
- New streetcar routes will operate in exclusive rights-of-way on existing and proposed streets to ensure efficient transit movement; and
- Waterfront streets will be renamed as "places" with distinct identities; Streets will act as lively urban connections as well as traffic arteries. The needs of motorists will be balanced with efficient transit service and high-quality amenities for pedestrians and cyclists.

Based on this framework the TWRC and City staff prepared Precinct Plans and EA Master Plans for West Don and the Eastbay Front Precincts which were approved by City Council in March 2005 and January 2006 respectively.

The TWRC also adopted a formal "Sustainability Framework" in July 2005 to guide planning and development in the waterfront including the provision of transit services and facilities.

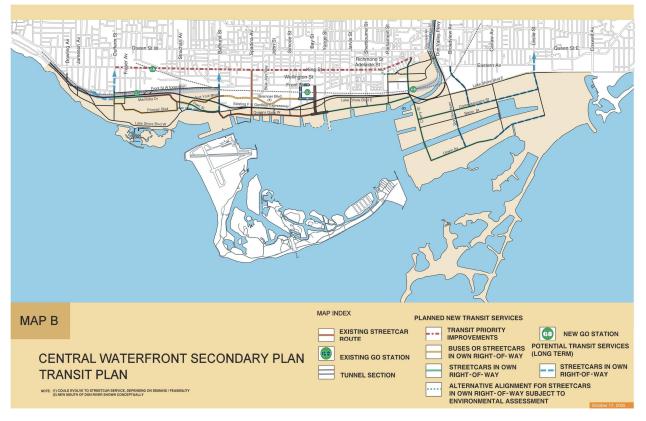


Exhibit 1.1 – Secondary Plan – Transit Plan Map

1.2 WATERFRONT STUDY AREA

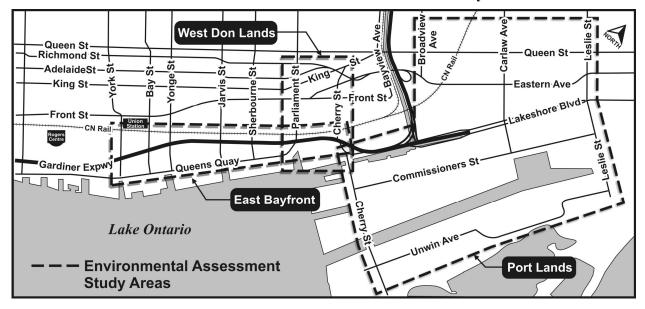
As shown in Exhibit 1.2 below, the primary Waterfront study area for the three IEAs extends from Bay Street to Leslie Street, north from Lake Ontario to King Street west of the Don River, and Queen Street east of the Don River. The primary study area encompasses the three precincts: East Bayfront; West Don Lands; and Port Lands. The East Bayfront, West Don Lands, and Port Lands are situated within the Greater Toronto Area, and are located south and east of the downtown core area at the edge of Lake Ontario.

- The East Bayfront precinct is a 36-hectare (90 acre) waterfront area that runs between Jarvis Street on the west and Cherry Street on the east and between the Gardiner Expressway corridor in the north and the lakefront. It is expected to be a community with 6,000 8,000 homes, including affordable housing, and related commercial spaces.
- The West Don Lands precinct is a 32-hectare (80 acre) area located generally between Parliament Street on the west, the Don River to the east, Front Street, Eastern Avenue and King Street to the north and Mill street and the railway corridor to the south.
- The Port Lands precinct is a 400-hectare (1000 acre) waterfront area bounded by the Keating Channel/Don River and Lake Shore Boulevard on the north the Toronto Inner Harbour in the west, Ashbridges Bay in the east and Lake Ontario and Tommy Thompson Park to the south.

Exhibit 1.2 – Waterfront Study Area



Exhibit 1.3 – Three Environmental Assessment Study Areas



1.3 PREVIOUS STUDIES

As described in more detail below, numerous waterfront and related studies have been conducted or are on-going; these include Precinct Plans and EA Master Plan Studies, Travel Demand Forecasting, Waterfront Transportation Studies, The Gardiner Expressway / Lake Shore Boulevard Scoping and EA, The Don Mouth Naturalization and Port Lands Flood Protection Project (DMNP), Don Valley Corridor Transportation Master Plan Study, and GO Transit Corridor Studies. These studies will be used to assist in defining existing conditions and generating and evaluating alternatives

TWRC Precinct Planning and EA Precinct Master Plan Studies

The basic intention behind the precinct planning process is to provide the necessary urban design, planning and development guidance to permit the actual revitalization of individual precincts of the Toronto waterfront. The following precinct plans and implementation strategy plan have been completed:

- West Don Lands Precinct Plan/Master Plan March 2005;
- East Bayfront Precinct Plan/Master Plan January 2006;
- Port Lands Implementation Plan April 2006;
- TWRC Sustainability Framework;
- Queens Quay Design Competition; and
- Union Station District Plan

Other Waterfront area studies that are relevant to this initiative are noted below.

The Gardiner Expressway / Lake Shore Boulevard Scoping and Environmental Assessment

The TWRC has completed a number of studies over the last few years to examine how to reduce and/or eliminate the impediment to place making posed by the Gardiner Expressway structure. The studies assessed three alternatives, in addition to the "Do Nothing" scenario. The alternatives were intended to provide a movement system that provided adequate automobile access to the city's centre but which also acted as a framework for sustainable city building and waterfront revitalization.

The Don Mouth Naturalization and Port Lands Flood Protection Project (DMNP)

This EA project underway by the Toronto and Region Conservation Authority (TRCA) includes the Don's channel from its mouth near Cherry Street to Riverdale Park and all adjacent lands to the river bounded by the CN Railway in the north, Villiers Street in the south, Parliament Street in the west and the Don Valley Parkway in the east. The goal of this project is to develop a preferred design and its associated projected costs to naturalize the mouth and lower reaches of the Don River, and permanently remove approximately 230 hectares of the Port Lands from the Regulatory Floodplain.

Don Valley Corridor Transportation Master Plan Study

The Don Valley Corridor Transportation Master Plan assessed opportunities to improve transportation operations and person-carrying capacity in the Don Valley Corridor. The Study Area encompassed the area bounded by Leslie Street/Bayview Avenue in the west, Steeles Avenue to the north, Victoria Park Avenue to the east and Gardiner Expressway/Lake Shore Boulevard to the south. Improvements cover a wide range of solutions including traffic operations/management enhancements, transit priority, higher order transit services, transportation demand management, local road improvements and commuter parking. The plan includes a recommendation for the eventual provision of a high capacity express bus service from the north into the downtown area via Bayview Avenue and Eastern Avenue.

GO Transit Corridor Studies

GO Transit is in the process of increasing its rail service on the Lakeshore corridor. Capacity to accommodate increased service for both the Lakeshore East and Stouffville Rail services is restricted by the number of available tracks. To remove this operational constraint and improve overall rail service, it is proposed to construct a third mainline track between Cherry Street and the Scarborough GO Station where the Stouffville service diverts to the north. Therefore, GO Transit has completed a Class EA, Federal EA Screening, and a Preliminary Design Study for an additional mainline track on the Lakeshore East GO line from Cherry Street to the Scarborough GO Station. Construction of the third track is underway. GO has commenced site preparation work of the Don Yard and construction of yard improvements will commence in the summer of 2006.

1.4 OUTLINE OF THE TERMS OF REFERENCE

While the three transit IEAs for the three waterfront precincts are interrelated and will be coordinated with each other and other studies in the area, a separate ToR is being prepared for each study. The separate ToR will allow each IEA to be completed on its own timeline, which is tied to anticipated development of the various precincts.

The preparation, submission, and approval of the ToR are requirements under section 6. (1) of the OEAA prior to commencing an IEA. Once approved by the Ontario Minister of the Environment ("the Minister"), the ToR will provide the framework for preparing the IEA and serve as a benchmark for reviewing the IEA. It is the first statutory decision by the Minister in the EA planning and approval process.

The ToR sets out the methodology for conducting the EA and its approach to compliance with Section 6.1 of the EAA. The EA will include the following components (referencing the appropriate Section numbers from this ToR document):

- A description of the purpose of the undertaking (Chapter 2);
- A description of and statement of the rationale for the proposed undertaking (Chapter 3), alternatives to the undertaking (Sections 6.4,), and alternative methods for carrying out the undertaking (Sections 6.5);

• A description of:

- ➤ The environment that will be affected or might reasonably be expected to be affected, directly or indirectly, by the undertaking, the alternatives to the undertaking, and the alternative methods of carrying out the undertaking (Sections 6.2, 6.3 and 6.6);
- The effects that will be caused or that might reasonably be expected to be caused to the environment, by the undertaking, the alternatives to the undertaking, and the alternative methods of carrying out the undertaking (Preliminary analysis criteria in Appendix B); and
- ➤ The actions necessary or that may reasonably be expected to be necessary to prevent, change, mitigate or remedy the effects upon or the effects that might reasonably be expected upon the environment, by the undertaking, the alternatives to the undertaking, and the alternative methods of carrying out the undertaking (Section 5.4 and Chapter 11).
- An evaluation of the advantages and disadvantages to the environment of the undertaking (Sections 5.4), the alternatives to the undertaking (planning alternatives) (Sections 5.2 and Appendix B), and the alternative methods (design alternatives) of carrying out the undertaking (Sections 5.3 and Appendix B);
- A description of any consultation about the undertaking by the proponent and the results of the consultation (Chapter 7).

In addition the ToR outlines:

- A preliminary description of the study area and the existing and future environment (Sections 6.1, 6.2 and 6.3);
- A description of the public and agency consultation undertaken during the ToR preparation (Chapter 8);
- Other approval requirements (Chapter 10); and
- A commitment to carry out compliance monitoring (Chapter 11).

As part of this IEA, the TTC will coordinate Federal and Provincial EA requirements as there are potential Canadian Environmental Assessment Act (CEAA) triggers. This ToR will not limit the scoping activity that the Federal Authorities will undertake if CEAA is formally triggered.

2. PURPOSE OF THE UNDERTAKINGS

Over the last 30 years, the Toronto Waterfront has been transitioning from a functioning port with a dominant land use of heavy industrial and good handling to a centre of recreational and tourist activity. In light of this changing situation, the City of Toronto has developed an overall strategy for future land use development for Toronto's Waterfront. The overall strategy for this development is outlined in the Central Waterfront Secondary Plan.

In order to implement this strategy the City of Toronto and the TWRC have been developing Precinct Plans for the various areas in the waterfront. These Precinct Plans have been developed or are currently being developed in the eastern section of the central waterfront including the East Bayfront, West Don Lands and the Port Lands.

The following summarize the key land use recommendations of the various Precinct Plans.

East Bayfront

- Total area approximately 36 hectares (90 acres);
- Land use type employment and residential functions;
- Population approximately 14,400 residents;
- Employment approximately 3,800 employees; and
- Housing targets approximately 6,300 total units (which includes a minimum of 1260 affordable rental units and 315 low-end-of market units).

West Don Lands

- Total area approximately 32 hectares (80 acres);
- Land use type employment and residential functions;
- Population approximately 10,200 residents (which includes 860 school aged children);
- Employment approximately 4,100 employees and
- Housing targets approximately 6,000 total units (which includes a minimum of 1200 affordable rental units and 300 low-end-of market units).

Port Lands

- Total area approximately 400 hectares (1000 acres)
- Land use type mixed use (residential, employment, industrial) including TTP and Lake Ontario Park recreational green space, natural green space
- Population approximately 32,900 residents; and
- Employment approximately 24,700 employees.

As a result of this future development a significant demand for both inbound and outbound traffic will result. As noted previously, in order to accommodate these demands on the proposed and existing transportation network and reducing auto dependence, or, at a minimum, not significantly increasing vehicular capacity, the Council of the City of Toronto has adopted

among other things, a "transit first" policy to service the revitalization of the lands within the Waterfront Secondary Plan area.

Therefore, the overall purpose of the undertaking embodied in this ToR is:

To determine the transit facilities appropriate to serve the long term residential, employment, tourism and waterfront access needs in the study area while achieving the City's and TWRC's objectives for land use, design and environmental excellence.

This IEA will build on the land use planning work completed, as well as on the Class EA Master Plans prepared for the waterfront precincts.

3. SYSTEM PLAN

The following describes the existing overall transit system as it relates to the eastern part of the central waterfront from an Inter-Regional (macro) to Local (micro) level, and includes a description of the proposed transit network within the study area based on planning conducted to date, as well as estimated future transit demand to, from and through this area.

3.1 OVERALL CITY TRANSPORTATION NETWORK

The City's overall transportation network relies on an extensive infrastructure comprised of roads (supporting cars, and buses) and rails (supporting streetcars, subways and GO transit). At some locations within the City, streetcars operate in mixed traffic sharing the road with other modes of travel, while in other locations (for instance, along Spadina Avenue south of Bloor Street) streetcars operate in a semi-exclusive right-of-way.

It is anticipated that similar infrastructure will support the forecasted travel patterns to, from and through the study area based on the following three types of travel:

- Inter-Regional (from/to locations within the GTA);
- Intra-Regional (from/to locations within the City of Toronto); and
- Local (from/to locations within the study area).

3.2 EXISTING CONNECTIONS TO THE WATERFRONT

• Inter-regional travel (from the outlying Regions to the City of Toronto) generally utilizes the GO Transit and Provincial Highway network. In addition to the GO Transit and Provincial Highway network, intra-regional travel utilizes the TTC subway and Scarborough RT network, as well as arterial roads. Local travel presently associated with the study area relies on local surface public transit routes and the automobile.

3.3 EXISTING TRAVEL DEMAND

Existing inter-regional and intra-regional travel patterns to the GTA are addressed in the following reports:

The Transportation Tomorrow Survey (2001, 1996 & 1986 Summaries)

Conducted on behalf of 19 local, regional, provincial and transit operating agencies in the greater Toronto and surrounding areas, this document summarizes among others, trips coming into and leaving an area, travel purpose, distance travelled and travel mode choice.

The Toronto Official Plan (OP)

The Toronto Official Plan notes that the GTA is forecast to grow by 2.7 million residents and 1.8 million jobs by the year 2031. The forecast allocates 20% of the increase in population and 30% of the increase in jobs to Toronto.

As further noted, in a mature city like Toronto, the emphasis must be directed towards a more efficient use of the available road network to move people, by making transit, cycling and walking increasingly attractive alternatives to car use. Chapter two has identified a number of principles to be used in the generation of sustainable transportation options including the following:

- Promoting land use development and urban form that lead to fewer and shorter trips (by achieving a more intense, mixed use pattern of development);
- Improving access to public transit for all Torontonians that is competitive with the cost and convenience of using a car for most personal travel; and
- Instituting planning, traffic engineering and street design practices that encourage walking and cycling.

3.4 FUTURE TRAVEL DEMAND

The City of Toronto developed a series of travel demand forecasts for road, transit and other trip making to / from and within the Waterfront as part of the planning of the Central Waterfront Secondary Plan adopted by Council in April 2003. The Waterfront Transportation Plan embodied in the Central Waterfront Secondary Plan was developed to meet the travel demand needs of Waterfront through, in large part, an emphasis on the role that transit plays in meeting those demands.

These forecasts will be refined by staff on a more detailed basis as part of this IEA process to provide a comprehensive series of forecasts of transit, vehicular and other (pedestrian / bicycle) trip making for the East Waterfront areas being considered as part of this IEA.

The travel demand forecasts will be used in the detailed evaluation of planning and design alternatives considered as part of this IEA. This includes the evaluation of corridors and technologies (Planning Alternatives) for new transit infrastructure and location and right-of-way features (Design Alternatives) in the context of the selected corridors and technology.

The refined travel demand forecasts will reflect current planned population and employment levels within the IEA study area and in the Waterfront Area more generally. Current population forecasts and employment levels for the Precincts within the IEA study area are as follows:

• East Bayfront

Population – approximately 14,400 residents Employment – approximately 3,800 employees

West Don Lands

Population - approximately 10,200 residents Employment - approximately 4,100 employees

Port Lands

Population - approximately 32,900 residents Employment - approximately 24,700 employees

For the purposes of this ToR and in defining the Planning Alternatives to be considered as part of the IEA Studies, preliminary travel pattern forecasts have been developed for each of the three Waterfront East areas (East Bayfront, West Don Lands and the Port Lands).

These preliminary forecasts are illustrated graphically on the following three figures for each of East Bayfront, West Don Lands and Port Lands areas. These forecasts provide a preliminary and general outline of the number of person trips made by transit in each case to the various parts of the City of Toronto and beyond during the morning peak period.

The total number of outbound transit person trip from the three Waterfront East areas being considered is, based upon this preliminary travel demand information, in the order of 11,200 trips. It is assumed and expected that during the peak hours of travel an estimated 40 percent of all Waterfront area trips will be made by transit.

The information provided in the following figures will be updated and refined as part of the EA process and may therefore change.

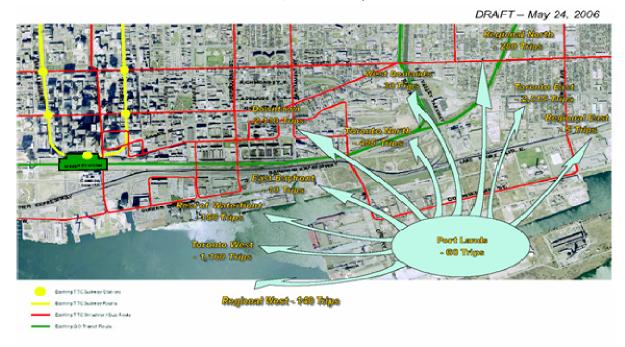
Exhibit 3.1 – East Bayfront Precinct: Travel Patterns and Transit Volumes (Morning Peak Period, Outbound)



Exhibit 3.2 – West Don Lands Precinct: Travel Patterns and Transit Volumes (Morning Peak Period, Outbound)



Exhibit 3.3 – Port Lands Precinct: Travel Patterns and Transit Volumes (Morning Peak Period, Outbound)



3.5 PROPOSED WATERFRONT TRANSIT NETWORK

Fundamentally, the transit facilities in the overall study area must connect with each other, and with the rest of the existing and proposed future TTC network. As previously noted, the overall objective of each environmental assessment is the identification of feasible and cost-effective solutions to in expanding Toronto's transit system through the study area to support planned growth, while minimizing impacts on the environment. During the development of the East Bayfront and West Don Lands Class EA Master Plans and Precinct Plans, on a broad scale, proposed street grids and transit routes have been identified. The proposed conceptual transit network and the updated ridership for that network will be developed during the Planning Alternatives phase of the study and included as an early chapter in each IEA report.

The chart below illustrates the typical range of demand that can be accommodated by different transit technologies.

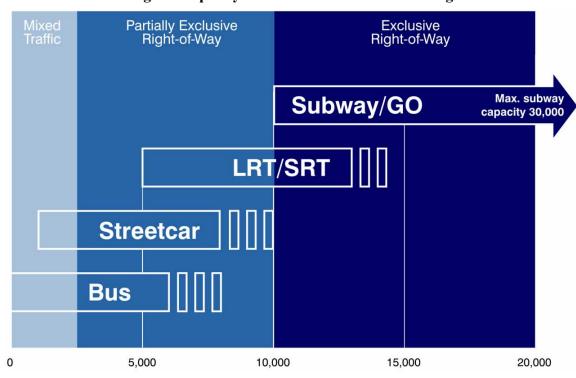


Exhibit 3.4 Range of Capacity for Various Transit Technologies

Passengers per Hour per Direction

The initial demand estimates for a transit facility serving the waterfront does not require a Subway service. Travel demand forecasts may limit technology options for the IEA.

Bus technologies include all rubber-tired vehicles that can operate on a paved surface. These vehicles can be powered through a number of different means including traditional diesel

engines, bio-diesel, diesel-electric and fully-electric trolley operation. There are also a number of advanced technologies being developed to power buses including hydrogen fuel cells and electric battery-based technologies. The capacity of buses, and many of the physical characteristic related to bus operations, is common to all of the types of propulsion systems used. The choice of propulsion system can, however, affect local air quality, capital costs for construction and vehicle purchases, and operating costs and will be considered when evaluating technologies.

Streetcar/LRT vehicles operate on rails and typically have two to three times the carrying capacity of a bus. They can also be set to operate in trains to increase the capacity further. They are usually electrically powered although diesel-powered units are available. Streetcars/LRT vehicles can also be single ended as is the case with existing TTC streetcars or dual ended as is the case with more modern streetcar/LRT vehicles.

The final IEAs will identify and describe the preferred alternative for the transit network in each IEA study area.

4. THE PLANNING PROCESS

The IEA will be undertaken to comply with existing provincial, legislation, guidelines and policies. The IEA will describe and identify the potential natural, social, economic and cultural environmental effects of the preferred undertaking and alternatives. In general, the identification of potential environmental effects will include an inventory or profile of existing conditions, a prediction of the effects for each alternative, identification of impacts and mitigation measures, and an evaluation of advantages and disadvantages.

Two types of alternatives are required to be examined to meet the requirements of the OEAA: these include planning alternatives (alternatives to the undertaking) and design alternatives (alternative methods of carrying out the undertaking). These alternatives are fundamentally different in scope and nature. Planning alternatives consider a number of different approaches to deal with a given problem or opportunity and once an approach has been decided upon, the design alternatives look at different ways of applying the chosen approach.

To generate and assess these two types of alternatives, the IEA will involve several steps as outlined in Exhibit 4.1. The first phase will focus on the purpose and rationale for the undertaking, the identification and assessment of planning alternatives and selection of the preferred planning alternative. The second phase of the IEA will involve the generation and assessment of design alternatives and selection of a preferred alternative.

The planning framework is based on a phased sequence of decision-making in which these two types of alternatives are assessed at an increasing level of detail as they become more focused. In the initial stages (planning alternatives), when the size, location or type of facility is not yet known, less detailed criteria are used (see Appendix B for criteria) for the evaluation. At this stage impact assessment will be conducted at a more general and strategic level, based primarily on secondary source information. At the design alternative phase, when it becomes more difficult to differentiate between alternatives, more detailed information is required (see Appendix B for criteria).

Once a preferred alternative design is selected, more focused data will be collected. This process of collecting additional environmental data as the project becomes more focused ensures that current information is sought and used throughout the study process.

Potential effects to be studied include positive and negative effects. Chapters 6, 7, 8 and Appendix B outline the specific factors to be examined for planning alternatives and design alternatives. During the IEA, the Proponent will work closely with the affected agencies and the public to refine issues/concerns and to develop acceptable measures for resolving concerns.

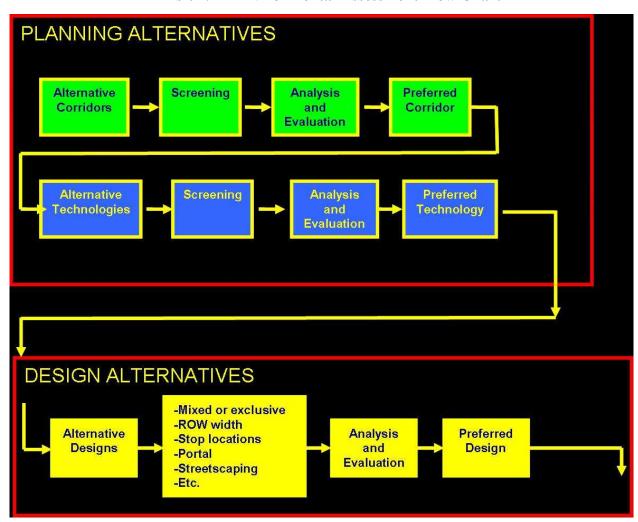


Exhibit 4.1 – Environmental Assessment Flow Chart

5. GENERATION AND EVALUATION OF PLANNING AND DESIGN ALTERNATIVES

5.1 KEY CONSIDERATIONS IN GENERATING PLANNING AND DESIGN ALTERNATIVES

When considering the development of the possible transit infrastructure alternatives in the study area a number of fundamental considerations will be applied to the development of these alternatives. These include but are not limited to the following:

- Develop the new transit infrastructure required to encourage transit use and reduce auto dependence;
- Develop new infrastructure in accordance with TTC, City of Toronto and TWRC design criteria/guidelines;
- Provide for full accessibility to the disabled community;
- Minimize street and right-of-way widths;
- Provide effective transit services within a five 5 minute walk of the majority of the residents and businesses of planned waterfront developments;
- Establish transit network connections to integrate the recommended services with the existing transit system in accordance with an integrated systems plan;
- Utilize existing infrastructure to the extent possible taking advantage of existing and planned transportation corridors may reduce impacts to the natural, social and economic environment;
- Avoid, or where this is not possible, minimize impacts to natural systems with particular emphasis on natural features, functions, systems and communities;
- Avoid, or where this is not possible, minimize impacts to significant cultural features;
 and
- Maximize the use of "Green" transit technology. A range of possible existing and developing "green" propulsion technologies (electricity, fuel cells, etc.) will be considered when evaluating vehicle technologies so that both existing and future conditions are taken into account.

These Key Considerations with be used to assist in the development of alternatives. The criteria used to compare and select a preferred alternative are outlined in Appendix B.

5.2 ANALYSIS AND EVALUATION OF ALTERNATIVES

As discussed above, each transit IEA will have to assess planning and design alternatives. Within the list of planning alternatives, preferred corridors and technologies will be selected. Design alternatives will focus on location within the selected corridors and right of way features in the context of the selected technology. The analysis and evaluation of all alternatives will be subject to an initial screening, followed by a more thorough evaluation.

5.2.1 Screening of Planning Alternatives

The OEAA requires a proponent to consider all reasonable alternatives. For the purposes of this ToR and the subsequent IEA, all alternatives must be able to address key project objectives as identified in key approved planning documents (see section 1.3) and consistent with the proponent's policies and standards. The preliminary screening criteria for planning and design alternatives have been developed in consultation with key stakeholders and agencies, as well as the public. This ToR will allow for additional refinements to the screening criteria (documented in Appendix B) during the IEA.

Therefore, all alternatives listed in this ToR as well as others that may be suggested during the IEA must satisfy all screening criteria. Only those alternatives that meet these minimum project requirements will be subjected to further analysis.

5.2.2 Evaluation of Planning Alternatives

After the various planning alternatives are generated, the alternatives which pass the initial screening process will be carried to the evaluation stage. The advantages and disadvantages of the various alternatives will be compared based on criteria that address all facets of the environment. As part of the consultation process for this ToR, preliminary criteria and indicators have been developed (see Appendix B). Similar to the screening criteria, this ToR will allow for additional refinements to the criteria and indicators during the IEA. Any changes and the rationale for the change will form part of the IEA documentation.

The actual assessment process will entail the identification of advantages and disadvantages of the various alternatives under consideration. At this stage, each environmental feature is examined to determine the extent of impact, based on specific measures that will address each indicator. Net impacts will be identified; these refer to the effects on the environment that remain after standard mitigation measures have been applied to reduce the extent of the impact.

5.2.3 Evaluation of Design Alternatives

This stage builds upon the information obtained from the impact assessment stage and involves a comparative analysis of the advantages and disadvantages of the alternatives considered to select a preferred alternative. At this stage, the relative importance of the environmental features is determined. A "Do Nothing" scenario will be carried forward to represent a base case for comparison to the preferred alternative.

The evaluation of alternatives is a central component of the EA. A sound evaluation process is based on five key principles:

- The evaluation of alternatives must be comprehensible and systematic;
- The process must be rational and understandable;
- The results must be replicable;
- The data must be traceable; and
- The entire process must be participatory, with broad but not duplicative opportunities for input from the public, stakeholders, regulatory agencies, municipalities, Aboriginal Communities, etc.

At the outset and at key points during the study, the Ontario Ministry of the Environment (MOE) recommends that the evaluation approach should be clearly described and government ministries, municipalities, agencies, First Nations and the public should be asked for their comments early in the IEA study. The method(s) used to predict net environmental effects and evaluate advantages and disadvantages should clearly identify the relative differences and key impact trade-offs.

A Reasoned Argument (or Trade-Off) method will be used to identify a preferred alternative. The Reasoned Argument (Trade-Off) evaluation component will provide a clear presentation to stakeholders of the key trade-offs between the various evaluation factors and the reasons why one alternative is preferred over another. During the IEA study, the decision making process will be clearly documented to support a traceable process and to ensure that it is understandable to those who may be affected by the decisions.

This method highlights the differences in net effects associated with the various alternatives. Based on these differences, the advantages and disadvantages of each alternative are identified. The relative significance of the impacts is examined to provide a clear rationale for the selection of a preferred alternative. The rationale that favours the selection of one alternative over all others will be derived from the following sources:

- Government legislation, policies and guidelines;
- Municipal policy (i.e. Official Plans);
- Issues and concerns identified during consultation with ministries and agencies, municipalities, ratepayer and interest groups and the general public (including input obtained through the assessment of the relative level of importance of evaluation criteria); and,
- Project Team expertise.

The rationale will be documented clearly and concisely in a format that can be easily understood by all stakeholders.

5.3 ASSESSMENT OF THE UNDERTAKING AND DEVELOPMENT OF MITIGATION

As part of the identification of potential impacts, mitigation measures will be identified to offset predicted negative environmental effects that have been identified for the undertaking and its alternatives. The identification of mitigation measures will be developed in the context of relevant technical guidelines. As this process will be iterative as alternatives are developed and evaluated, opportunities to avoid or minimize impacts will be integrated wherever feasible.

Appropriate technical and economically feasible mitigation measures will be developed for specific characteristics and sensitivities of the environmental features and the related significance (e.g. magnitude, duration, certainty) of the potential impact. Such measures may include, but are not limited to:

- Avoidance measures i.e. design options to minimize impacts to or caused by construction and operations;
- Protection of water quality through appropriate facility routing and drainage design; and
- Identification of the recommended construction timing window, staging of work, etc.

Mitigation measures will be developed in consultation with appropriate agency staff and stakeholders to confirm the environmental analyses, issues and impacts, and subsequently to review the impact assessment and mitigation measures. Mitigation measures will also include recommendations for a monitoring program.

6. ENVIRONMENTAL ASSESSMENT WORK PLAN - PORT LANDS

6.1 STUDY AREA

The Port Lands is a 400 hectare (1000 acre) waterfront area bounded by the Keating Channel/Don River and Lake Shore Boulevard in the north, the Toronto Inner Harbour in the west, Ashbridges Bay in the east and Lake Ontario and Tommy Thompson Park in the south. A plan of the IEA Study Area for the Port Lands is provided in Exhibit 6.1.



Exhibit 6.1 - Port Lands Study Area

6.2 DESCRIPTION OF THE EXISTING ENVIRONMENT

Secondary source environmental research has been undertaken during the course of preparing the IEA ToR. The following summarizes the notable environmental features in the broader area.

6.2.1 Existing Transit

The TTC currently operates three bus services through the Port Lands area and they are as follows:

• **Route 72 - Pape**:

Provides bus service between Pape Subway station and Union Station via Commissioners Street through the Port Lands. This route travels along Carlaw Avenue into the Port Lands, then along Commissioners Street and proceeds north from Cherry Street.

• Route 83 - Jones:

Provides service into Port Lands from Don Lands subway station by moving along Jones Avenue, venturing into the Port Lands area via Leslie street, then moving along Commissioners Street. This route then makes returns through the same route by turn around in a loop on Commissioners street.

• Route 172 - Cherry Street:

Provides bus service into Port Lands via Union Station in which it travels down Cherry Street and returns through the same way by turning around on the south end of Cheery Street.

• Route 504 - King Streetcar:

Connects the north edge of the West Don Lands to downtown Toronto. To the east, the King streetcars cross the Don River on the Queen Street bridge to Broadway Avenue where they connect to Broadview station on the Bloor-Danforth subway line;

Route 503 - Kingston Road Streetcar:

Operates on Kingston Road, Queen Street and King Street between Victoria Park Avenue and York Street; and

Routes 501/502 – Oueen Street Streetcar:

Operates on Queen Street from the Humber Loop in the west to Victoria Park Avenue in the east.

6.2.2 Existing Roads

Commissioners Street, Cherry Street and Leslie Street are the major roads, which services the Port lands area. Only Cherry Street and Leslie Street provide access to the neighbouring areas while Commissioners Street provides a connection between the two aforementioned. Other minor streets such as Unwin Avenue and Villier Street are for local access into facilities.

6.2.3 Natural Environment

Natural areas adjacent to the study area include the Don River Valley System, Tommy Thomson Park (Leslie Street Spit) and the Toronto Islands located to the south of the study area. Considerable change will occur to the location and form of the natural environment in response to the Don Mouth Naturalization and Port Lands Flood Protection Project

6.2.4 Socio-economic Environment

The Port Lands comprise a mix of existing land uses including industrial (paper manufacturing, material recovery facilities, construction supplies and film studios), municipal services (works yards, TTC bus garage and Toronto Hydro) and recreational uses (both parklands as well as entertainment – restaurant/nightclubs).

North of Lake Shore Boulevard, the land use transitions from industrial/ commercial to predominantly residential.

6.2.5 Cultural Environment

The existing cultural landscape of the Port Lands is marked by many years of inactivity and minimal development, although parts of the formerly industrial area are now vacant and awaiting redevelopment.

The Sustainability Framework provides guidelines to promote and protect cultural resources, including creating cultural and heritage destinations and creating a strong public image. The TWRC will be responsible for implementing and monitoring these activities. Unique issues for the Port Lands to be considered include:

- Providing information about the historical development of the Port Lands;
- Educational and interpretive opportunities though streetscape public realm design; and
- Preservation and adaptive reuse of the buildings that are the industrial heritage of the Port Lands.

Major recreational facilities in the Port Lands will evolve in three potential classes: Regional Sports Facilities; Commercial Sports Facilities with a city wide or regional base and Local Recreational facilities that support mixed use development within the Port Lands or within the individual precincts.

6.3 DESCRIPTION OF THE FUTURE ENVIRONMENT

Future population and employment

- Total area approximately 400 hectares (1000 acres)
- Land use type mixed use (residential, employment, industrial)
- Population approximately 32,900 residents; and
- Employment approximately 24,700 employees.

6.4 PLANNING ALTERNATIVES (ALTERNATIVES TO THE UNDERTAKING)

6.4.1 Description and Statement of Rationale for Alternatives

As noted previously, the primary purpose for this IEA Study is:

• To determine the transit facilities appropriate to serve the long term residential, employment, tourism and waterfront access needs in the study area while achieving the City's and TWRC's objectives for land use, design and environmental excellence.

As part of the Port Lands IEA study there are a number of planning alternatives that can be considered in arriving at a recommended alternative. These will be compared to a "do nothing" alternative that must also be considered in the process.

In the case of the provision of transit services, in the "do nothing" alternative it is assumed that the TTC will to provide transit services to the area based on its normal service standards utilising the proposed street system without the construction of any transit-specific facilities. In this way the "do nothing" alternative is, in effect, a "business as usual" alternative. The "do nothing" alternative includes the provision of bus services into the area as continuations of existing routes and the introduction of a new bus route on Unwin and Lake Shore Boulevard. It is assumed that the frequency of service provided on these routes will reflect the actual passenger demand for the service based on the TTC normal financial standards.

In addition to the "do nothing" alternative there are both corridor and technology options to consider as part of the "planning alternatives".

Corridors

With respect to corridors, the Port Lands IEA will have to address both north-south and east-west corridors in order to provide transit service to the majority of the Study Area (recognizing the vast size of the Port Lands precinct). The Lake Shore corridor on the northern edge of the precinct, allows for a possible bypass route for cars, trucks and transit riders passing through the study area. Commissioners Street and Unwin Avenue will also be considered as possible future east-west transit corridors.

The Port Lands IEA will connect to the East Bayfront and the West Don Lands precincts in the general vicinity of Cherry Street and Lake Shore / Queens Quay. Possible northerly connections via Broadview, Carlaw and Leslie Street will also be considered.

Technologies

There are also a number of technology options that could be considered in the study corridor. These include the following:

- 1. Bus Service on existing roads (the "do nothing" alternative);
- 2. Bus Service on a dedicated right-of-way (primarily on the surface);
- 3. Conventional Streetcar Service on existing roads;
- 4. Streetcar Service on a dedicate right-of-way (primarily on the surface); and

As discussed in section 3 of this ToR, a fully grade separated facility such as a subway is not required to service this level of demand and will not be considered further in the Port Lands IEA study.

As a result it is proposed that the following planning alternatives will be further considered and evaluated for the East Bayfront IEA and will be carried forward for consideration.

- 1. Bus Service on existing roads;
- 2. Conventional LRT/Streetcar Service on existing roads; (Do Nothing Alternative)
- 3. Bus Service on a dedicated right-of-way (primarily on the surface); and
- 4. LRT/Streetcar Service on a dedicate right-of-way (primarily on the surface).

For the bus technology options, consideration will be given to the range of propulsion systems, both existing, and under development, that could have a significant effect on the results of the evaluation. For example, bus technologies that eliminate local emissions (eg. fuel cell or fully-electric and hydrogen powered buses) will be considered in the evaluation and the benefits of these technologies considered against the costs associated with their use.

It is possible that more than one of these planning alternatives will be carried forward to the alternative design phase of the study.

6.4.2 Assessment of Planning Alternatives

As set out in the proposed evaluation criteria (Appendix C), planning alternatives will be generated and assessed with specific regard for the "Key Considerations" described in Chapter 5. Planning alternatives will be compared to the "do nothing" approach and the preferred corridor and technology option(s) will be selected to generate design alternatives. To identify the potential environmental effects associated with these criteria, appropriate technical analysis (e.g. natural environment investigations, noise assessment, heritage assessment, etc) will be undertaken during the EA. It is expected that these criteria will be refined through the public consultation process during the study.

6.5 DESIGN ALTERNATIVES (ALTERNATIVES METHODS OF CARRYING OUT THE UNDERTAKING)

6.5.1 Overview

It should be noted that the following sections represents the minimum number of considerations for identifying the advantages and disadvantages of transportation alternatives. This listing is subject to refinement and modifications based on input received during the IEA.

Alternative methods are essentially different ways to accommodate the undertaking within a chosen corridor. With respect to accommodating streetcars within the Port Lands corridor there are a significant number of location and operational issues to consider in arriving at various alternative designs. Those issues include:

1) Mixed traffic or exclusive right-of-way

- 2) Location of facility within right-of-way
- 3) The overall width and design of the right-of way
- 4) Location of transit stops
- 5) Connection to Cherry, and East Bayfront/West Don Lands; and
- 6) Streetscaping and public realm design.

6.5.2 Assessment of Design Alternatives

Alternative designs will be generated and assessed with specific regard for the "Key Considerations" described in Chapter 5. As set out in the proposed evaluation criteria (Appendix C), alternative designs will be evaluated with specific regard to the "Key Considerations" described in Chapter 5. To identify the potential environmental effects associated with these criteria, appropriate technical analysis (e.g. natural environment investigations, noise assessment, heritage assessment, etc) will be undertaken during the EA.

6.6 EVALUATION OF THE UNDERTAKING

Based on the previous evaluations, the undertaking will be identified. The undertaking will then be developed to a level of detail so that the effects on the environment are known and can be documented as part of the IEA study. The undertaking will be developed in sufficient detail to identify potential natural, social, economic and cultural effects and proposed mitigation measures. Impact assessment and development of mitigation will be undertaken in accordance with relevant provincial, municipal and TTC policies and guidelines (i.e. MOE's *Stormwater Management Planning and Design Manual* (2003), *Guidelines for Evaluating Construction Activities Impacting on Water Resources* (Guideline B-6); *Land Use Compatibility* (Guideline D-1), etc.). Consultation will be undertaken with relevant stakeholders to assist in the development of appropriate mitigation measures.

7. ENVIRONMENTAL ASSESSMENT CONSULTATION PLAN

Consultation is an integral component of the EA process and begins from the earliest stages of planning, including the preparation and approval of the ToR. The purpose of the consultation program is to provide input to assist the Project Team in making decisions throughout the IEA process. Consultation provides opportunities for two-way communication with interested stakeholders. Consultation activities also enable the identification of potentially significant environmental issues early in the decision making process and ensure that they are given appropriate consideration. The consultation program for the EA is based on the following principles:

- All reasonable efforts will be made to ensure that potentially affected or interested parties are given the opportunity to participate in the consultation process;
- Stakeholders may provide input at any time during the study; however, consistent with the narrowing down process of describing and evaluating alternatives set out in this ToR, structured opportunities for input will occur at key study stages;
- The Project Team will constructively address input received during the consultation process;
- The Project Team will make reasonable efforts to resolve concerns; and
- Consultation plans and process will be sufficiently flexible to permit responses to new issues that may arise as the study proceeds.

Various forms of consultation will take place throughout the different study steps. Consultation activities may not necessarily be limited to that described in this section. The Project Team may consider additional enhancements to the IEA consultation plan if deemed to be of value to the Studies.

The purpose of this chapter is to present the proposed plan for stakeholder consultation during the IEA. Stakeholders can be defined as any individual or group who has an interest in the study, who could be affected by the study or who can provide pertinent information regarding the study. Generally stakeholders include public/interest groups, regulatory agencies, First Nations and area municipalities. The stakeholders consulted in preparation of this ToR will form a starting point for establishing stakeholder contact lists during the IEA. A list of stakeholders consulted in preparation of this document is provided in the Consultation Record (under separate cover).

7.1 OVERALL PROCESS FOR STAKEHOLDER CONSULTATION DURING THE ENVIRONMENTAL ASSESSMENT

Consultation with affected parties is an essential part of the IEA process and provides a mechanism for the proponent to define and respond to issues.

It is recognized that the identification and resolution of issues during each of the following stages of the IEA will be a challenge. To this end, the public and agency / municipal consultation process outlined in this section is focused on facilitating meaningful dialogue with stakeholders to identify and address study issues as they arise so that the Project Team can make informed

decisions. Various consultation tools and approaches (including meetings, presentations, etc.) will be utilized to identify and discuss study issues raised by stakeholders.

7.2 PUBLIC CONSULTATION DURING THE ENVIRONMENTAL ASSESSMENT

The public has a major role and responsibility in determining the success of a public consultation program. The extent to which the public participates, the issues they raise and how such issues are resolved all influence the effectiveness of the consultation process. Consistent with this ToR, the proposed consultation plan encourages proactive communication, which allows comments and views of the public to assist the Project Team in the decision making process.

Public Notification

The first component of the Public Consultation Plan will be to develop contact lists, which will include interested individuals, ratepayer groups, recreational groups, business groups, etc. located in the study area. The mailing list developed during the ToR will be the starting point for this stakeholder list. These stakeholders will be notified by letter/email of project activities including study start-up, Public Workshops, and follow-up activities (as appropriate). In addition, the Project Team will publish newspaper advertisements for each round of Public Workshops and the formal IEA Report submission

During the IEA, additional notification tools and techniques will be considered and utilized where appropriate.

Public Workshops and Follow-up Activities

During the IEA, it is proposed that two rounds of workshops will be held. These workshops will be supplemented by follow-up activities where appropriate. Each round of workshops will include individual events held throughout the identified study area. The precise locations/venues and timing of each workshop will be determined during the IEA based on project needs/issues and the availability of venues.

The first workshop will focus on obtain input on:

- The description and evaluation of planning alternatives
- The generation of design alternatives
- A summary of the advantages and disadvantages of the various design alternatives
- Input on the preliminary analysis to assist in the selection of a preferred design alternative

The second Workshop will focus and obtain input on:

- The evaluation of design alternatives
- The preferred design alternative
- Possible refinements to the preferred design alternative

• Opportunities to mitigation potential adverse impacts of the preferred design alternative

Follow-up consultation activities will be held as necessary throughout the studies. It is expected that these activities will be very helpful to facilitate additional dialogue and attempt to resolve any outstanding concerns and issues during the process. Follow-up activities will be arranged to address specific project issues and concerns as they arise. The format of these activities will be flexible to reflect the type of Project Team - stakeholder interaction required to address a particular issue but could include stakeholder group meetings, kitchen table meetings, presentations, site walks, surveys, and other.

Summary Reports for workshops, follow-up activities and other consultation events will be prepared and posted on the project website in a timely manner.

Project Web Site

The TWRC has established a project website which will be maintained throughout the course of the IEA. The website will host pertinent and up-to-date information regarding the project such as: notices of study commencement, notices of public events, project documents for information/review and the project process/schedule.

7.3 COMMUNITY LIAISON COMMITTEE DURING THE ENVIRONMENTAL ASSESSMENT

A Community Liaison Committee (CLC) was established to assist in the preparation of this ToR. The CLC will continue to function during the IEA to provide additional input to assist the Project Team's decision-making process. It is envisioned that four rounds of meetings will be held with the CLC to assist the IEA study. The following summarize the issues to be discussed at each CLC meeting:

CLC #1

- The description of planning alternatives
- A summary of the advantages and disadvantages of the various planning alternatives
- Input on the preliminary analysis to assist in the selection of a preferred planning alternative

CLC #2

- The evaluation of planning alternatives
- The preferred planning alternative
- The generation of design alternatives
- A summary of the advantages and disadvantages of the various design alternatives
- Input on the preliminary analysis to assist in the selection of a preferred design alternative

CLC #3

- The evaluation of design alternatives
- The preferred design alternative
- Possible refinements to the preferred design alternative

CLC #4

- Possible refinements to the preferred design alternative
- Opportunities to mitigation potential adverse impacts of the preferred design alternative

7.4 REGULATORY AGENCY AND MUNICIPAL CONSULTATION DURING THE ENVIRONMENTAL ASSESSMENT

Government agencies and other departments within the City of Toronto provide valuable input related to compliance issues (laws, regulations, policies and programs) and other areas of concern within their jurisdiction. These groups can offer valuable input and professional expertise and are often knowledgeable regarding local issues and can assist in the identification of local interest groups that should be consulted.

A Technical Advisory Committee (TAC) was established to assist in the preparation of this ToR. The specific agencies and City departments included on the TAC is outlined in the Consultation Record. Additional agencies that have requested to be consulted (i.e. Ministry of Culture and the Ontario Heritage Trust) will be consulted during the IEA. Consultation with the TAC will involve reviewing, commenting and providing input to the IEA, the technical analysis and the ongoing comment/input to the consultation process. TAC meetings will be held to coincide with key study stages/milestones. Additional meetings will be held with individual agencies during the IEA as required to assist in agency specific issues (e.g. to develop noise and vibration protocol, review site specific agency issues, etc).

Involvement with federal agencies is anticipated to be required for the Port Lands IEA as there are potential CEAA triggers or issues of federal jurisdiction. The purpose of this consultation is to identify issues of federal jurisdiction, effectively address CEAA requirements during the IEA process and coordinate provincial and federal approvals.

7.5 FIRST NATIONS CONSULTATION DURING THE ENVIRONMENTAL ASSESSMENT

The 1991 Statement of Political Relationship with First Nations of Ontario confirmed the right of First Nations in Canada to have an inherent right to self-government. While the study areas are urbanized and disturbed, they encompass lands related to Lake Ontario and the mouth of the Don River. The Don River and associated tributaries and ravines functioned as major portage and transportation routes up until the late 18th century. The Lake Ontario shoreline functioned as a source of fishing, area of aboriginal occupation and transportation routes. In addition, the study area may have been an area of traditional land use.

First Nations were invited to participate in the Workshops, were provided a draft copy of the ToR document and asked to comment. Follow up calls were made to each First Nation and they were asked for comments on the ToR. They were also asked for their advice on how they wish to be consulted during the EA. The Association of the Iroquois and Allied Indians participated in the second workshop and a follow-up one on one meeting was convened. Other First Nations were invited to attend. These included: Alderville First Nation, Mississaugas of Scugog Island First Nation, Mississaugas of the New Credit First Nation, Six Nations of the Grand Territory, Hurons-Wendat First Nation, Beausoliel First Nation, Chippewas of Georgina Island, Chippewas of Rama, Curve Lake First Nation, Mnjikaning First Nation and Hiawatha First Nation. Aboriginal groups such as the Métis Nation were also invited to attend a workshop and follow-up meeting.

Discussions with First Nations will occur from the outset of the EA and continue in a manner appropriate to them. Discussions will focus on issues such as traditional use of land and resources, land claim, and cultural heritage. Consultation activities will be adjusted during the EA to meet particular needs of specific First Nations as those needs are made apparent. As a minimum, each First Nation will be asked to comment at each benchmark, before decisions are made pertaining to planning and design alternatives. Because of cumulative effects and implications of EA studies underway, a joint meeting between EA Teams and all First Nations is envisioned.

8. CONSULTATION DURING THE PREPARATION OF THE TERMS OF REFERENCE

Public consultation is an integral component of the IEA process. As the first step in meeting the consultation requirements for this initiative, the public and stakeholders were consulted during the preparation of the ToR. Public consultation during the ToR was conducted in accordance with the OEAA requirements (Section 5.1) that "such persons as may be interested" be consulted during the preparation of the ToR.

8.1 PUBLIC CONSULTATION: IMPORTANCE TO TERMS OF REFERENCE

The objectives of public consultation during the preparation of the IEA ToR were to:

- Provide input on how the Project Team has defined the problem/opportunity, study areas, projected routes and service types during the IEAs;
- Comment on the proposed alternatives the Project Team is proposing to study and technical studies proposed to be conducted;
- Comment on the proposed IEA evaluation methodology;
- Discuss and obtain input on how the public and stakeholders are to be consulted during the IEA;
- Obtain comments from the public and stakeholders on the proposed content of the IEA studies to ensure that the proposed processes to be followed during each IEAt study is acceptable;
- Review and recommend additional evaluation criteria; and
- Provide input on the draft ToR report.

These objectives were derived from the draft ToR Public Consultation Plan, the ToR for the CLC and the ToR for the TAC.

8.2 CONSULTATION ACTIVITIES UNDERTAKEN DURING TERMS OF REFERENCE

During the consultation process, various agencies, stakeholders, organizations, interest groups, the general public, and First Nations were invited to provide input and ask questions about the TTC-TWRC Waterfront IEAs.

Several consultation activities were undertaken during the ToR, including:

- The development of a CLC, which comprised of representatives of community associations, transit specific interest groups, environmental organizations and other interested parties;
- The development of a TAC, which comprised of technical staff from local agencies including the City of Toronto Planning Department, City of Toronto Public Works Department, TTC, GO Transit, Toronto Economic Development Corporation (TEDCO), and the TRCA;

- Public notification of the ToR, which was advertised in the *Toronto Star* in March of 2006 and distributed to the TWRC's mailing list of 3,000 individuals, organizations, regulators and agencies;
- Identification and contact with aboriginal interests who have made previous land claims in the study area or recognize the study area as culturally significant, including a formal request for comments on the draft ToR;
- Development of a project Web page that was linked to the TWRC's Home Page;
- The preparation of Frequently Asked Questions (FAQs), which were made available online at the TWRC's Web site and distributed to participants at the first public workshop;
- A meeting with Toronto City Councillor Paula Fletcher (Ward 30) in the spring of 2006 to exchange information about the ToR;
- A walking tour of the study area with residents of the Central Waterfront Neighbourhood Association, the CLC, and other members of the public.

Public Workshops

In addition to the preceding list of consultation activities, two public workshops were scheduled during the ToR.

The purpose of the first public workshop, held on April 5, 2006 was to:

- Introduce the project team undertaking the IEA studies;
- Provide an overview of the background to the IEA studies;
- Clarify the IEA study process;
- Discuss the ToR (define what is a ToR); and
- Invite participants to share ideas on purpose statement, study area, proposed consultation activities, potential service types (i.e., technologies) and potential alignments.

Sixty (60) people attended the first workshop.

The purpose of the second public workshop, held on June 13, 2006, was to:

- Update the progress of the ToR since the first workshop;
- Review and recommend additional draft evaluation criteria developed by the Project Team, in consultation with the CLC; and
- Distribute the draft ToR document and questionnaire with an invitation for participants to comment prior to final submittal.

Thirty-five (35) people attended the second workshop.

The first workshop was advertised as part of the Notice of Commencement in the *Toronto Star* and in *The Bulletin*. The second workshop was advertised in the *Toronto Star*. For both workshops, invitations were distributed to over 3,000 individuals and organizations in the TWRC's contact list.

Please see Volume 2 for a summary of each public workshop and copies of both sign-in sheets.

Meetings with the CLC and the TAC

Four (4) meetings were held during the spring of 2006 with the CLC and one (1) meeting with the TAC (see table below).

Participating Committee	Scheduled Meeting Dates
CLC	March 21, 2006
TAC	March 21, 2006
CLC	May 9, 2006
CLC	May 25, 2006
CLC	June 13, 2006

CLC and TAC members were responsible for reviewing all relevant project materials; attending and participating in committee meetings during the development of the ToR; attending and participating public workshops and providing input on information relevant to the project.

The committees assisted the project team by:

- Defining the problem/opportunity, study area, service area, potential alignments and service types for the East Bayfront, West Don Lands and Port Lands;
- Identifying proposed alternatives to be studied, technical studies to be conducted, and proposed consultation activities to undertake for the IEAs;
- Identifying IEA methodology;
- Recommending additional evaluation criteria; and
- Reviewing the draft ToR report.

Please see Supporting Documents, Volume 2 for notes from each committee meeting. Comments that were provided at each committee meeting were written into the Comments Received Matrix.

Consideration of Issues and Concerns in the ToR

An extensive amount of public consultation was undertaken even before the official kick-off of the TTC-TWRC Waterfront Transit IEA ToR. In addition to the comments recorded at all CLC meetings, the TAC meeting and both public workshops, the project team maintained and documented all comments received from interested residents and groups via e-mail, fax or phone calls. All documents and materials received from members of the public, the CLC and TAC were reviewed by project team members and were documented for the ToR (see Volume 2).

Meaningful Consultation

Comments that were received from the CLC meetings, the TAC meeting, and both public workshops were critical in the development of the draft ToR, notably.

- Members of the CLC, the TAC and participants of the first public workshop refined the purpose of the TTC-TWRC Transit Environmental Assessment Studies.
- Participants at the first public workshop overwhelmingly identified the importance of having transit vehicles and waterfront facilities that are fully accessible.
- Members of the CLC and participants at the first public workshop recognized the need for "Green" transit vehicles that are environmentally friendly.
- Members of the CLC and participants at the first public workshop were favourable of assessing ROW widths during the development and evaluation of "design alternatives".
- Participants at the first public workshop identified the importance of having an integrated transit plan that connects with adjacent communities.
- Members of the CLC, the TAC and participants of the first public workshop provided additional network planning alternatives.
- Members of the CLC suggested a range of bus propulsion alternatives.
- Members of the CLC and participants at the first public workshop recognized the need to consider wildlife habitat improvement opportunities.
- Members of the CLC, the TAC and participants of the first public workshop recognized the need for meaningful and effective public consultation.

Submission of the ToR to the TTC and City Planning and Transportation Committee

On June 21, 2006 and July 4, 2006 the TTC and the City of Toronto's Planning and Transportation Committee (respectively) authorized submission of the ToR to the MOE

9. COORDINATION WITH CONCURRENT STUDIES

In addition to coordination with the adjacent transit IEAs there are a number of other studies either in progress or about to commence. These studies generally cover the area of the waterfront as shown in Exhibit 9.1 below. These key studies overlap the Transit IEA study areas and the results and progress of each study has to be taken into consideration in informing all of the other studies. The ToR for the Don Mouth Naturalization EA have just been submitted for MOE approval. The Innovative Design Competition for Queens Quay and the waters edge has just been awarded and will have an impact on the overall public realm and corridor right of way. The East of Parliament Precinct Plan and EA study has not yet been awarded but is expected to be in progress at the same tine as the transit IEAs and will have an impact on the road alignment s in the Parliament Precinct.

In addition, the city of Toronto is considering a bid for Expo 2015 to be located in the Port Land area. If a decision is made to bid for this event a separate approved process will be required for the transportation infrastructure required. The present Expo 2015 bid schedule requires a Federal letter of support by November 2006 with a final Expo 2015 decision in February 2008. All necessary EA work for the Expo 2015 will be coordinated and undertaken in tandem.

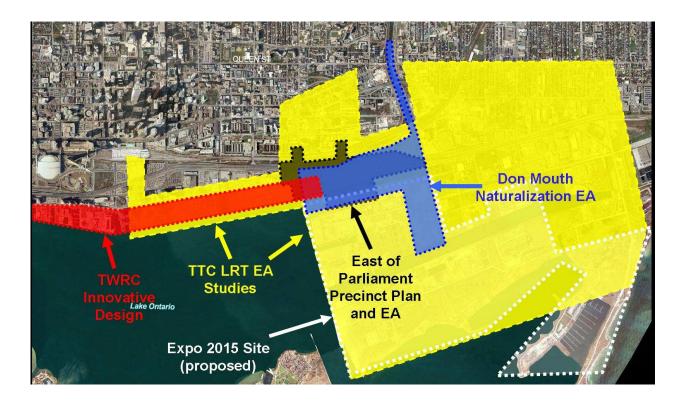


Exhibit 9.1 – Concurrent Studies

10. OTHER APPROVALS REQUIRED

It may not be possible to address all approval requirements at the time of seeking OEAA approval. A number of subsequent approvals may require detail design and process information that is not available at the time of OEAA approval. The TTC is committed to obtaining the necessary approvals at the appropriate time in the implementation phase.

The agencies responsible for issuing approvals will be consulted during the study to ensure that their interests and requirements are properly addressed. This will minimize the complications at the time of approval, thus providing reasonable assurance that the approvals will be obtainable. The following approvals may be required:

- Municipal Official Plan amendment and zoning bylaw changes if needed.
- Water taking permit from MOE
- Sewage and water approvals, under the Ontario Water Resources Act.
- Municipal Noise bylaw amendments/exemptions if required during construction.
- Municipal building permits.
- Utility Approvals (Bell, Hydro etc.)
- Environmental Protection Act approvals for wastes generated
- Railway Approvals
- Federal Permits (Fisheries approvals, Navigable Waterways authorization, CTA approvals etc.) Potentially required for the Port Lands IEA.
- TRCA approvals ("Fill, Construction, Alteration to Waterways" permit and DFO authorization).

10.1 PROCESS FOR AMENDING THE UNDERTAKING FOLLOWING APPROVAL

As part of the IEA, an amending procedure will be developed to deal with changes to the preferred alternative that may occur following the approval by the Minister. The amending procedure will:

- Define minor changes and major changes;
- Outline how the proposed changes will be examined;
- Detail the stakeholder consultation to be undertaken when considering the changes;
- Outline the documentation requirements; and
- Outline public review requirements.

The intent of the amending procedure is to allow changes to occur which address future conditions without having to submit an additional IEA. The amending procedure could also be used to address alignment and station location issues if these could not be resolved during the IEA.

10.2 CANADIAN ENVIRONMENTAL ASSESSMENT ACT (CEAA) COORDINATION

The requirements of CEAA are triggered if a project is a federal project, requires federal land, is funded by a federal agency, or requires an approval by a federal agency. Potential triggers for this project include Navigable Waters Protection Act Permits, Fisheries Act Permits, and approval by the Canadian Transportation Agency. It is recognized that permits will not be obtained at this stage as typically detail design information would be required. Instead, if required, the CEAA Screening will include enough information on potential impacts, mitigation measures and conceptual compensation strategies to allow the federal agencies to decide whether the project is likely to result in significant adverse environmental effects.

The provision of a project description with sufficient detail to allow federal authorities to determine whether they are likely to be triggered or have expert advice to offer is a crucial first step in obtaining input and direction from the federal authorities. This will be accomplished as early in the process as possible by consultation with the Canadian Environmental Assessment Agency likely following the selection of the preferred "alternative to" the undertaking. Federal authorities will be requested to participate according to their policies of "in until out". That is, federal authorities that may be triggered will participate in the assessment process in advance of a formal trigger.

Many of the requirements of CEAA are similar to the requirements of the OEAA. The key differences under CEAA are the requirements for:

- An analysis of the effects of the environment on the project;
- An analysis of effects of accidents and malfunction;
- All environmental effects that may result from the various phases of the project
- (construction, operations, modification, abandonment and decommissioning);
- An analysis of the effects of a project related environmental change on the current use of land
- and resources for traditional purposes by aboriginal persons;
- A determination of the need for and requirements of a follow-up program;
- An analysis of the likelihood of significant adverse environmental effects; and,
- A cumulative effects assessment.

The scope of work that is proposed to be undertaken to meet the requirements of the OEAA should be sufficient to provide the information to address the above issues. However, it must be recognized that it is the Responsible Authorities that determine the appropriate scope of assessment required for a screening under CEAA. Therefore, some additional work may be required based on consultation with the authorities.

As part of the Port Lands IEA, the City will attempt to coordinate Federal and Provincial EA requirements. The overall objective is to coordinate the technical and consultation requirements of both Acts to minimize duplication. Documentation will also be coordinated as much as possible. It should be noted that this ToR will not limit the scoping activity that the Federal Authorities will undertake once CEAA is formally triggered.

11. MONITORING

TTC is committed to the preparation of a compliance monitoring strategy and schedule during the preparation of the IEA, to measure impacts such as noise, water quality and air quality effects associated with the construction and operation of the undertaking. The monitoring strategy will be developed in consultation with the Environmental Assessment and Approvals Branch of the MOE. The proponent must comply with the terms and conditions as well as the commitments identified in the IEA and report to MOE on how the compliance has been achieved.

The framework for the monitoring strategy may include, but not be limited to, the following elements:

- Compliance monitoring and effects monitoring;
- A plan for implementation of mitigation and contingency measures;
- Long-term post construction monitoring and contingency measures and agreed upon triggers for employing contingency plans;
- Provisions for monitoring water quality and quantity, air quality, and soils;
- Provisions to ensure compliance with IEA commitments (e.g. an independent environmental inspector, compliance committee, contract specifications) to ensure that all environmental standards and commitments for both construction and operation work are met; and
- Details on monitoring and reporting relationships.

Baseline information on existing environmental conditions is a critical part of the monitoring strategy and will therefore be emphasized in the IEA.

The IEA will describe how the proponent will achieve compliance (e.g. technical agencies approval and satisfy public interest) and how the compliance will be reported. The proponent or its contractor will be required to obtain all permits from regulatory agencies (e.g. MOE, TRCA, MNR, DFO, and Navigable Waters Protection) prior to construction and will ensure compliance with all permits conditions throughout the work.

12. DOCUMENTATION

To provide a clear, understandable and traceable planning process, the information gathered in preparation for and during the study will be documented as follows:

- 1) Various working and technical papers will document the inventory and analysis of existing and planned future conditions (including identification of data sources, methodology, and their limitations) and the public/agency input into it.
- 2) IEA Report will document the following:
 - Executive Summary (including list of technical reports and a map showing the location of the preferred undertaking);
 - Purpose and Rationale for the Undertaking;
 - Evaluation of Planning Alternatives;
 - Evaluation of Design Alternatives;
 - The environment that will be affected;
 - The proposed mitigation measures;
 - The consultation undertaken; and,
 - Commitments to future action, including external approvals known to be required.

The IEA Report will be submitted to the Minster for a decision on approval. The Minister will then initiate a formal public and government review of the IEA Reports to assist in making a decision on whether to approve the undertaking.

Reference copies of the IEA Report will be made available at local libraries, City Hall, City and the MOE Regional and/or District office.

APPENDIX A

GLOSSARY OF TERMS

Alternative to the Undertaking (Planning Alternatives)

In the context of the OEAA, alternatives to the undertaking are functionally different ways of addressing an identified problem or opportunity. For example, Alternatives to the Undertaking to address the transportation need would include: road improvements, transit improvements, and the "Do Nothing" alternative. For the purpose of this ToR and subsequent IEA these types of alternatives will be referred to as planning alternatives.

Alternative Methods of Carrying out the Undertaking (Design Alternatives)

Once a preferred "alternative to" a transportation problem has been identified (e.g. rapid transit), alternative methods of carrying out the undertaking may include bus or rail technology in addition to different locations. For the purpose of this ToR and subsequent IEA these types of alternatives will be referred to as design alternatives.

Bus Rapid Transit (BRT)

Bus Rapid Transit refers to the operation of buses in a partially-exclusive right-of-way, to provide a quality of service comparable to other "rapid transit" services with respect to speed and reliability. Typically BRT services are physically separated from parallel auto travel lanes, are provided with signal priority at intersections and have defined passenger platforms often with shelters and fare collection equipment. BRT can also include such things as automated passenger information systems and system "branding" initiatives.

Class Environmental Assessment

A Class Environmental Assessment (Class EA) is an EA carried out in accordance with the procedures identified in a "Parent" Class EA that has been approved by the Minister. If the project follows the process outlined in the "Parent" Class EA it is considered pre-approved and does not require formal approval from the Minister. Currently there is no "Parent" Class EA for municipal transit projects. As such, municipal transit project must be undertaken as IEAs.

Canadian Environmental Assessment Act (CEAA)

A Federal Act, which came into force in 1995 (amended in 2003), requiring projects where the Government of Canada has decision-making authority to undertake an EA to determine whether the project is likely to result in a significant adverse environmental effect. CEAA is "triggered" if a Federal Authority is the proponent for the project, provides land, provides funding or is required to provide an approval.

The Federal Authority that "triggers" CEAA is referred to as the "Responsible Authority" and has the responsibility to ensure that an EA is undertaken prior to exercising its duty.

The Canadian Environmental Assessment Agency has the legal obligation to coordinate the CEAA process when an EA is also required under another jurisdiction. The Canadian Environmental Assessment Agency role is to facilitate coordination and co-operation among Federal, Provincial and Municipal Agencies.

Consultation Process

The process during the course of the planning study, in which the proponent consults with various agencies, groups, and the general public, in order to identify and attempt to resolve any concerns or issues before formal submission to the MOE.

"Do Nothing" Alternative

One way of demonstrating the benefits of a recommended undertaking is to compare the advantages and disadvantages of the undertaking against the status quo or "Do Nothing" alternative. In the context of a transportation project, the "Do Nothing" alternative would mean that only normal operations, maintenance and repairs of existing facilities would be carried out; however, no major improvements or undertakings would be initiated.

Environment

The OEAA defines the environment as:

- (a) air, land or water,
- (b) plant and animal life, including human life,
- (c) the social, economic and cultural conditions that influence the life of humans or a community,
- (d) any building, structure, machine or other device or thing made by humans,
- (e) any solid, liquid, gas, odour, heat, sound, vibration or radiation resulting directly or indirectly from human activities, or
- (f) any part or combination of the foregoing and the interrelationships between any two or more of them,

in or of Ontario;

Individual Environmental Assessment Report (IEAR)

A report documenting the planning process carried out by the proponent, following the requirements of the OEAA. Once the Report is approved by the Minister, no additional approval of the proposed undertaking is needed under the OEAA.

Fuel-cell Bus

A bus fuelled by a pollution-free electricity generation technology carried on-board the vehicle. Currently under development is an electrochemical cell in which the energy of a reaction between a fuel, such as liquid hydrogen, and an oxidant, such as liquid oxygen, is converted directly and continuously into electricity.

Hydrogen Powered Bus

A bus that uses hydrogen to generate its motive power in a pollution-free manner. Examples of such buses would include a zero-emission fuel cell system or an internal combustion engine system that would generate only trace emissions.

Light Rail Transit (LRT)

Light Rail Transit is the operation of streetcar/tram-style rail vehicles in a partially- or fully-exclusive right-of-way. Typically LRT systems have protected passenger platforms or

stations and have a high degree of priority through intersections when operating in a partially-exclusive right-of-way. The term "light rail" refers to the fact that streetcar/tram-type vehicles are significantly lighter than the "heavy rail" cars typically used in subway and commuter rail systems. Streetcar/tram type vehicles can be operated in single units or in multiple car trains however multiple car trains typically require a greater degree of exclusivity along the right-of-way in which they operate.

Mitigation

Actions taken to reduce the effects of another action. If a particular alignment alternative, for example, has negative impacts then the proponent is obliged to attempt to identify any reasonable ways of reducing these impacts.

Ontario Environmental Assessment Act (OEAA)

An Ontario Act proclaimed in 1975 which requires project proposed by a provincial or municipal body to be subjected to a defined planning process which requires the proponent to document need, look at a full range of reasonable alternatives, and assess the impacts to the environment. The first step in the IEA process is to prepare and obtain approval of a ToR.

Proponent

The body proposing to undertake a project and who is, therefore, required by law to prepare an environmental assessment in accordance with the OEAA.

Rapid Transit Service

Rapid Transit Service is transit service on an exclusive or semi-exclusive right of way, which allows transit vehicles (bus or rail) to travel more quickly than would be possible in mixed traffic.

APPENDIX B

EVALUATION CRITERIA

Criteria for Assessing PLANNING Alternatives		
Criteria	Required Minimum "The alternative"	Possible Planning Indicators ¹ "The degree to which the alternative"
LAND USE		
Local population / employment growth in the study area	Must be capable of accommodating travel demand from forecasted development.	Supports future road and transit capacity requirements for forecasted development.
City, TWRC and Provincial Policies	Must meet City's Official Plan Policies and Principles.	 Supports the City's Secondary Plan and EA Master Plan objectives. Supports the TWRC's Precinct Plan and Sustainability Framework. Supports Provincial growth management plans, policies, and objectives.
URBAN DESIGN		
Streetscaping		(Considered during evaluation of Design Alternatives).
Width of transportation facilities		(Considered during evaluation of Design Alternatives).
Public spaces and the pedestrian realm		(Considered during evaluation of Design Alternatives).
TRANSPORTATION		
Auto dependence	Must promote transit modal splits at least as good as comparable communities (such as the St. Lawrence neighbourhood).	 Maximizes non-auto (transit, pedestrian and cycling) modal split for trips to, and within, the study area. Maximizes non-auto (transit, pedestrian and cycling) modal splits for trips through the study area.
Transit	Must provide transit service to majority of future inhabitants within 500m of transit. Must be able to connect to other planned Waterfront Precincts at boundaries of study area.	 Provides attractive transit service (reliability, speed, few transfers). Maximizes population and employment within 300m of transit. Provides flexibility and adaptability for staging and expansion by preserving opportunities for existing and future connections. Provides for transit travellers wishing to travel through the study area but who are not destined for locations in the study area.
Vehicles 1 Indicators are to be refined based on presented to the refined based on the refined based	ublic comment during the TOR and the IEA.	 Provides for local auto access Provides for auto travellers needing to travel through the study area but who are not destined for locations in the study area. Connects to other planned Waterfront Precincts at boundaries of study area.

Criteria for Assessing PLANNING Alternatives		
Criteria	Required Minimum "The alternative"	Possible Planning Indicators ¹ "The degree to which the alternative"
Barrier Free Design	Must accommodate people with mobility difficulties	(Considered during evaluation of Design Alternatives).
Cyclists		(Considered during evaluation of Design Alternatives)
Pedestrians		(Considered during evaluation of Design Alternatives).
Emergency vehicle operations		(Considered during evaluation of Design Alternatives).
SOCIO-ECONOMIC ENVIRO	ONMENT	
Automobile use in and through area		Minimizes through auto travel on local roads.
Tourism and waterfront access		Provides transit stop access to attractions.
Existing and future businesses		 Affects existing properties Encourages commercial activity Minimizes adverse effects to Redpath freight rail spur. Minimizes interference with rail service on the CN operations at the Cherry Street crossing. Maximizes services within 300 m of concentrated commercial activity within precinct plans. Minimizes EMI adverse effects (after construction) Minimizes noise and vibration adverse effects (after construction) in order to consider those TV/film businesses that have critical sensitivity to EMI.
Existing and future residences		 Affects existing properties Minimizes noise adverse effects (after construction) Minimizes vibration adverse effects (after construction)
Effects on contaminated soils		Minimize impacts on/of contaminated soils
NATURAL ENVIRONMENT		
Air Quality		 Minimizes adverse effects to Air Quality Maximizes opportunities to improve Air Quality Minimizes emissions of greenhouse gases

Criteria for Assessing PLANNING Alternatives			
Criteria	Required Minimum	"The alternative"	Possible Planning Indicators ¹ "The degree to which the alternative"
Aquatic habitats			(Considered during evaluation of Design Alternatives).
Vegetation			(Considered during evaluation of Design Alternatives).
Water quality			(Considered during evaluation of Design Alternatives).
CULTURAL ENVIRONMENT	Γ		
Built Heritage Features			Minimizes built heritage features affected.
			Maximizes opportunities to enhance built heritage features
Cultural Landscapes			Minimizes cultural landscapes affected
			Maximizes opportunities to enhance cultural landscape features.
Archaeological Features			Minimizes archaeological features affected.
First Nations peoples and activities			Minimizes adverse effects to lands and resources used for traditional purposes.
COST			
Capital Costs			Minimizes construction and transit vehicle acquisition costs.
Property acquisition			Minimizes property acquisitions.
Operating Costs			Minimizes the net operating cost.

	Criteria for Assessing DE	SIGN Alternatives
Criteria	Required Minimum "The	Possible Design Indicators ²
	alternative"	"The degree to which the alternative"
LAND USE		
Local population / employment growth in the study area		Supports future road and transit capacity requirements for forecasted development.
City, TWRC and Provincial Policies	with rds	 Supports City's Secondary Plan, EA Master Plans and standards for transportation planning and design. Supports TWRC's Sustainability Framework including car free zones, and Design Excellence objectives. Supports Central Waterfront Design Competition Results.
URBAN DESIGN		
Streetscaping		Supports sustainable landscaping / urban forestry
Width of Transportation facilities	<u> </u>	Minimizes right-of-way width.
Public spaces and the pedestrian realm	11 (1) (1) (1) (1) (1) (1) (1) (1) (1) (Maximizes potential to enhanced public spaces and cultural opportunities including public art opportunities.
	ä ä	Supports potential for sidewalk enhancement / improvements
TRANSPORTATION	70 (0)	
Auto dependence	cor gn (Maximizes non-auto (transit, pedestrian and cycling) modal split for trips to, and within, the study area. Maximizes non-auto (transit, pedestrian and cycling) modal splits for trips through the study area.
Transit	In Acc Desi	 Provides attractive transit service (reliability, speed, few transfers) Maximizes population and employment within 300m of transit. Provides flexibility and adaptability for staging and expansion by preserving opportunities for existing and future connections. Provides feasible transit operations at connecting points (i.e. King Street, Union Loop etc.). Provides for transit travellers wishing to travel through the study area but who are not destined for locations in the study area. Maximizes safety
Vehicles		Connects to other planned Waterfront Precincts at boundaries of study
² Indicators are to be refined based on public	comment during the ToR and the IEA	 area. Provides access to blocks at identified intersections in precinct plans. Maximizes safety Provides for auto travellers needing to travel through the study area but

	Criteria for Assessing DE	SIGN Alternatives
Criteria	Required Minimum "The	Possible Design Indicators ²
	alternative"	"The degree to which the alternative"
		who are not destined for locations in the study area.
Barrier Free Design		Provides barrier free access (Part of Design Standards).
Cyclists		Provides connections to future cycling networks
		• Provides for on-street and off-street cycling facilities as identified in the Secondary Plans and Precinct Plans.
		Maximizes safety
Pedestrians	e witl	 Minimizes intersection waiting and crossing times. Maximizes cross-street access by minimizing crossing distance. Minimizes distance from transit stops to centres of interest. Accommodates safe and pleasant pedestrian sidewalks of a sufficient width as identified n the Precinct Plans Provides Waterfront and Don Valley trail connections. Maximizes safety
Emergency vehicle operations		Minimizes emergency response time.
SOCIO-ECONOMIC ENVIRONM	ENT E E	
Automobile use in and through area		Minimizes through auto travel on local roads.
Tourism and waterfront access		Provides transit stop access to attractions.
Effect on existing and future businesses	n Acco Design	 Affects existing properties Affects parking for existing businesses. Provides delivery and loading access. Minimizes adverse effects to Redpath freight rail spur. Minimizes interference with rail service on the CN operations at the Cherry Street crossing. Minimizes EMI adverse effects (after construction) Minimizes noise and vibration adverse effects (after construction) in order to consider those TV/film businesses that have critical sensitivity to EMI.
Effects on existing and future residences		 Minimizes adverse effects on existing residences (number of residences directly affected). Minimizes noise adverse effects (after construction) Minimizes vibration adverse effects (after construction)
Effects on contaminated soils		Minimize impacts on/of contaminated soils
NATURAL ENVIRONMENT		

	Criteria for Assessing DE	SIGN Alternatives
Criteria	Required Minimum "The	Possible Design Indicators ²
	alternative"	"The degree to which the alternative"
Air Quality		Minimizes adverse effects to Air Quality.
		Maximizes opportunities to improve Air Quality.
		Minimizes emissions of greenhouse gases.
Aquatic habitats		Minimizes adverse effects to aquatic habitats.
		Maximizes opportunity to enhance aquatic habitat
Vegetation		Minimizes adverse effects to vegetation.
		Maximizes opportunity to enhance vegetation
Water quality		 Maximizes potential for stormwater quality control.
		Minimizes adverse effects to existing stormwater facilities.
CULTURAL ENVIRONMENT		
Built Heritage Features	\$	Minimizes Built heritage features affected.
	් ಡ	Maximizes opportunities to enhance built heritage features
Cultural Landscapes	07	Minimizes Cultural landscapes affected.
-	Š	Maximizes opportunities to enhance cultural landscapes
Archaeological Features		Minimizes Archaeological features affected.
G	Ξ Ξ	
First Nations peoples and activities		Minimizes adverse effects to land and resources used for traditional
1 tist 1 titles peoples and decirities	σ	purposes.
COST		
Capital Costs		Minimizes construction and transit vehicle acquisition costs.
Property acquisition	<u> </u>	Minimizes property acquisitions
τορετιγ αεqиιзιασα	S. C	Minimizes property acquisitions.
Operating Costs		Minimize the net operating cost.