Existing Conditions, Mitigation, and Commitments

Environmental factors were assessed during the 2004 Preliminary Design Study to determine existing environmental conditions and to identify mitigation measures to minimize and/or address potential impacts associated with the Highway 400 Planning and Preliminary Design Study Area from the South Canal Bridge to 1.0 km south of Highway 89 (GWP 40-00-00).

Additional field work and background reviews will be undertaken to update information and identify changes to statutory requirements, based on the Recommended Plan confirmed during this Pre-Design Study. Environmental issues and commitments to eliminate or reduce environmental impacts will be identified and mitigated during pre-design or carried forward to the Detail Design phase.

The table below summarizes the factors that will be considered as the project is designed and constructed.

Factor	Issue	Commitments / Mitigation
Fish, fish habitat, and species-at-risk	 Confirm fish habitat and fish communities and potential impacts 	 Warm water timing window – No work in water between March 15 through July 15
		Significant fisheries impacts are not anticipated
Vegetation protection and restoration	 Confirm sensitive communities affected by design (i.e., wildlife; wetlands; forests; vegetation; and designated/special areas) 	 Identify Environmentally Sensitive Areas (ESAs) on design drawings
	Sediment and erosion control	 Mitigation for Barn Swallow and any other Species at Risk Vegetation protection and restoration
Groundwater	 Confirm groundwater sensitive ecosystems 	 Confirm potential impacts to groundwater recharge area and private wells
	Identify private wells	
Surface water	Drainage associated with the improvements	 Low Impact Development (LID) drainage scheme proposed to deal with storm water quality and quantity issues
Air quality	 Temporary reduction in air quality during construction 	Construction methods and operational constraints
Noise	Assess nearby noise sensitive areas to comply with MTO Noise Policy	Revisit noise study undertaken during preliminary design
		Determine whether noise control measures will be warranted
Land-use and socio-economic environment	 Land use resources – agricultural; wholesale produce market; experimental research station 	 On-going consultation with municipalities, agencies and property owners and coordination with the Town of Bradford West Gwillimbury Joint Municipal Services Board
	 Holland Marsh Drainage Scheme Emergency service access 	 Coordination with EMS; signage improvements Notify property owners in advance of construction
	Bell; hydro in study area	 Confirm need for utility relocations
	 Canada Post mail boxes at Canal Road / Wist Road 	
Cultural environment	 Built Heritage and Cultural Landscapes – no known archaeological sites directly adjacent to Highway 400 right-of-way 	 Stage 1 archaeological assessment has determined that the existing highway right-of-way is considered free of archaeological concerns
Property, waste, and contamination	 Management of excess materials in proximity to sensitive areas 	Complete excess materials management plan
	 Follow-up to Contamination Overview Study 	Complete designated substance survey
		 Update Phase 1 Environmental Site Assessment

Public Information Centre, March 20