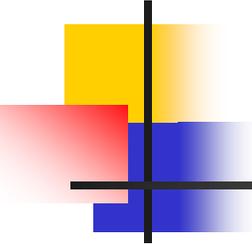


Highway 7&8 Transportation Corridor Planning and Class EA Study

PIC #3B Presentation

July 21, 2010



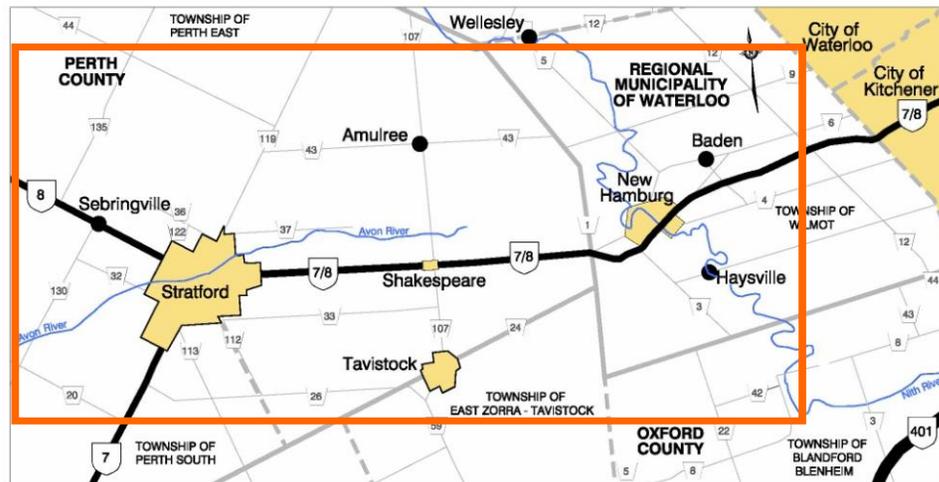


Today's Presentation

- Provide brief overview of:
 - Study purpose
 - Recently completed work
 - Purpose of PIC #3B
 - Material available for review
 - Next steps after PIC #3B
- Introduce study team members

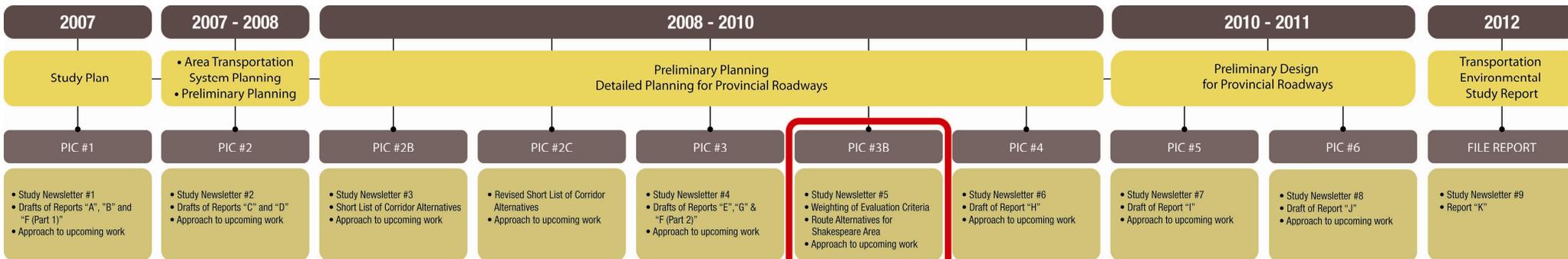
Study Purpose

- Develop a plan that addresses:
 - Capacity, operation and safety needs of Hwy 7&8 between Stratford and the New Hamburg area and on Hwy 7&8 through the urban centres (Stratford, Shakespeare and New Hamburg) for the movement of people and goods
 - 2031 Planning Horizon
 - Analysis Area shown below



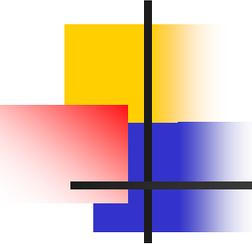
- Prepare a preliminary design for provincial roadway components of recommended plan

Study Update



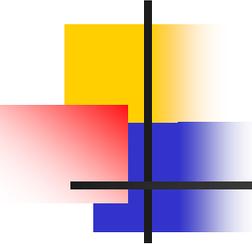
WE ARE HERE

- PIC #3 held in July / August 2009
 - Evaluation Results for Short List of Corridor Alternatives
 - Preferred Corridor
 - Environmental Conditions and Constraints within Preferred Corridor
 - Widening / New Route Alternatives for Preferred Corridor
- Widened Highway 7&8 through Shakespeare was part of preferred corridor presented for public review in summer of 2009
- In response to comments received, revisiting alignment alternatives in Shakespeare Area



Revisiting Alignment Alternatives in Shakespeare Area

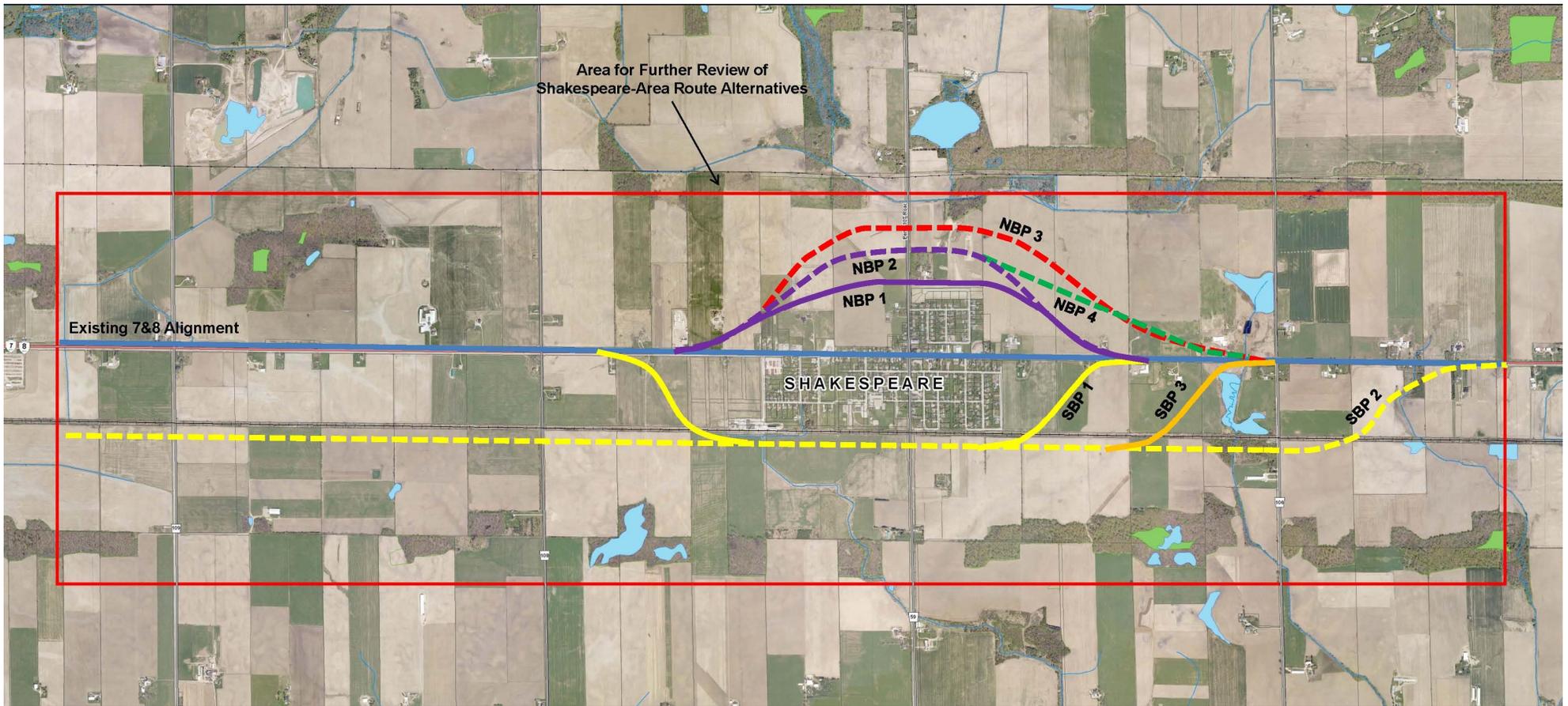
- Study team is conducting a more detailed review of route alternatives in the Shakespeare area
 - Re-examining alignment alternatives on “route” rather than “corridor” basis
 - Alignments for routes are “lines” rather than “bands” on a map
 - Evaluation indicators for routes are at a higher level of detail that better addresses concerns expressed
 - Two Shakespeare Community Workshops held in March 2010
 - Results documented in Shakespeare Community Workshops Summary Document which is posted on the study website and is available for review at this PIC
 - Input received at workshops used to develop a broader range of Shakespeare area route alternatives and refined sub-factors, criteria and indicators for their evaluation
 - Additional PIC (today’s PIC) being held to obtain input on proposed route alternatives for Shakespeare area and evaluation sub-factors, criteria and indicators to be used for route selection



Purpose of PIC #3B

- Present and obtain information and input on the following key elements:
 - Proposed highway route alternatives for Shakespeare area
 - Refined evaluation sub-factors, criteria and indicators for route selection for entire study area
 - Weighting of evaluation factors, sub-factors and criteria for route selection for entire study area

Proposed Route Alternatives for Shakespeare Area



Proposed Route Alternatives for Shakespeare Area

Northern Bypass (NBP)

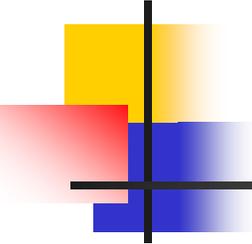
- 1
- 2
- 3
- 4

Southern Bypass (SBP)

- 1
- 2
- 3

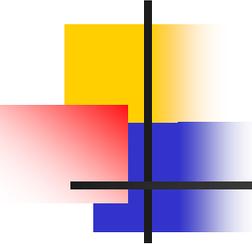
Existing 7&8 Alignment





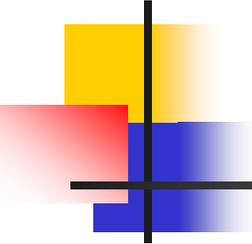
Connection Options for Shakespeare By-Pass Alignments

- Range of connection options will be considered for Shakespeare By-Pass alignment
 - Connection at Perth Road 107
 - Connection at tie-in point west of Shakespeare
 - Connection at tie-in point east of Shakespeare
 - Combinations of the above
- Connection options will be developed in more detail following selection of preferred alignment



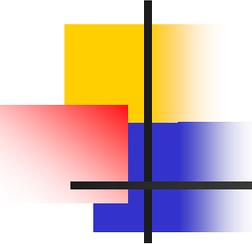
Evaluation Criteria / Indicators

- Widening / route alternatives will be evaluated using broad range of factors, sub-factors, criteria and indicators
 - 4 Factor Groups
 - Natural environment
 - Land use / socio-economic environment
 - Cultural environment
 - Transportation
 - 23 Sub-Factors
 - 69 Criteria
 - Multiple Indicators for each criterion



Evaluation Criteria / Indicators

- Refinements have been made to criteria and indicators since study inception based on stakeholder input
 - New / modified criteria and indicators for following sub-factors:
 - Land use / community (e.g. parking, community cohesion, pedestrian movements, critical mass of businesses, etc.)
 - Noise sensitive areas (including noise sensitive receivers)
 - Agriculture (e.g. farm infrastructure, operations, integrated agricultural business units, etc.)
 - Air quality (consideration of number of sensitive receptors)
 - Safety (ease and safety of pedestrian / cyclist movement)
 - Mobility and accessibility (mobility of pedestrians, cyclists, etc.)



Evaluation Methods

- ‘Reasoned Argument (or Trade-off)’ method will be primary tool used to identify preferred alternative
 - Presents a clear and thorough discussion of the trade offs between various evaluation factors, sub-factors, criteria and indicators
- ‘Arithmetic (weighting-scoring)’ method will be secondary tool used to verify results of reasoned argument method
 - Allows comparison of the alternatives based on a numerical scaling with weights (level of importance) assigned to the evaluation factors, sub-factors and criteria
- Evaluation results from both methods will be presented for public review and comment at PIC #4

Weighting of Evaluation Criteria

Instruction Sheet

Weighting Sheets

May 788 Transportation Corridor Planning and Class EA Study
Greater Stratford to the New Hamburg Area 1 of 2

INSTRUCTIONS FOR COMPLETING WEIGHTING SHEETS

The study team would like your input on the weighting (level of importance) of evaluation factors, sub-factors and criteria for route selection. Please follow the step by step instructions below to complete the attached Weighting Sheets. For more information about each criterion, please refer to the attached Evaluation Criteria and Indicators Reference Sheet.

- Section 1: Enter your name and address.
- Section 2: Check the appropriate box for the weighting scenario you are providing. Different weights will be used for the built-up areas (e.g. Stratford, Shakespeare and New Hamburg) and the rural areas. You must submit two copies of the weighting sheets if you want to provide weights for both the built-up areas and the rural areas.
- Section 3: In the "Factor Weights" column, enter a weight (number between 0 and 100) for each factor (i.e. in each non-shaded box in this column). The assigned weights for the four applicable factors must equal 100. For example:

Factor	Factor Weight
1. Natural Environmental Factors	25
2. Land Use / Socio-Economic Factors	25
3. Cultural Environmental Factors	25
5. Transportation Factors	25
Total	100

Please ensure you have entered a weight for all factors.

- Optional: If you have provided input on the factor weights, you may also provide input on the sub-factor weights. In the "Sub-Factor Weights" column, enter a weight (number between 0 and 100) for each sub-factor (i.e. in each non-shaded box in this column). The sub-factor weights for each factor area must equal 100. For example:

1. Natural Environmental Sub-Factors	Sub-Factor Weight
1.1 Fisheries and Aquatic Ecosystems	25
1.2 Terrestrial Ecosystems	25
1.3 Groundwater	25
1.4 Surface Water	25
Total	100

- Optional: If you wish to breakdown weights to this level of detail, please ensure you have entered a weight for all sub-factors.

3. Cultural Environmental Sub-Factors	Sub-Factor Weight
3.1 Cultural Heritage – Built Heritage and Cultural Landscapes	50
3.2 Cultural Heritage - Archaeology	50
Total	100

May 788 Transportation Corridor Planning and Class EA Study
Greater Stratford to the New Hamburg Area 2 of 2

- Optional: If you provided input on the sub-factor weights, you may also provide input on the criteria weights. In the "Criteria Weights" column, enter a weight (number between 0 and 100) for each criterion (i.e. in each non-shaded box in this column). The criteria weights for each sub-factor area must equal 100. For example:

1.1 Fisheries and Aquatic Ecosystems Criteria	Criteria Weight
1.1.1 Fish Habitat	50
1.1.2 Fish Community	50
Total	100

1.2 Terrestrial Ecosystems Criteria	Criteria Weight
1.2.1 Wildlife	20
1.2.2 Wetlands	20
1.2.3 Forests	20
1.2.4 Vegetation	20
1.2.5 Designated / Special Areas	20
Total	100

If you wish to breakdown weights to this level of detail, please ensure you have entered a weight for all criteria.

- Submit your completed weighting sheets to the study team by **September 3, 2010**, using one of the following methods:
 - Mail to: Highway 788 Corridor Study c/o AECOM, 300 Water Street, Whiteby, ON L1N 9J2
 - Fax to: 905-688-0221
 - Put in comment box at PIC #3B on July 21.

The weighting sheets are also available on the study website at www.7and8corridorsstudy.ca

If you have questions about how to complete the weighting sheets, please contact the study team at 1-866-921-9268.

Thank you. Your input is appreciated.

May 788 Transportation Corridor Planning and Class EA Study
Greater Stratford to the New Hamburg Area 1 of 4

Weighting Sheets for Route Evaluation (see Instruction Sheet)

Section 1: Contact Information
Name: _____
Address: _____

Section 2: Weighting Scenario
This weighting scenario is for (check only one):
 Built-up Area Rural Area

Section 3: Weighting (For each column you complete, please enter a weight in every non-shaded box. Sub-factor weights can only be entered if factor weights have been completed. Criteria weights can only be entered if sub-factor weights are completed.)

Factor	Sub-Factor	Criteria	Factor Weights	Sub-Factor Weights	Criteria Weights	
1. NATURAL ENVIRONMENTAL FACTORS	1.1 Fisheries and Aquatic Ecosystems	1.1.1 Fish Habitat				
		1.1.2 Fish Community				
		1.2 Terrestrial Ecosystems				
		1.2.1 Wildlife				
		1.2.2 Wetlands				
		1.2.3 Forests				
		1.2.4 Vegetation				
		1.2.5 Designated/Special Areas				
	1.3 Groundwater					
		1.3.1 Areas of Groundwater Recharge and Discharge				
		1.3.2 Groundwater Source Areas and Inflow/Outflow Protection Areas				
		1.3.3 Large Volume Wells				
		1.3.4 Aquatic Wells				
		1.3.5 Groundwater-Dependent Ecosystems (e.g. water table dependent)				
	1.3.6 Groundwater-Sensitive Ecosystems (e.g. groundwater-fed wetlands, coldwater streams)					
1.4 Surface Water						
	1.4.1 Watershed / Sub-Watershed Drainage Features/Patterns					
	1.4.2 Surface Water Quality and Quantity					

May 788 Transportation Corridor Planning and Class EA Study
Greater Stratford to the New Hamburg Area 3 of 4

Weighting Sheets for Route Evaluation (see Instruction Sheet)

Factor	Sub-Factor	Criteria	Factor Weights	Sub-Factor Weights	Criteria Weights
2. LAND USE / SOCIO-ECONOMIC FACTORS	2.1 Contaminated Property and Waste Management (e.g. Landfill, Hazardous Waste Sites, "Brownfield" Areas, other known contaminated sites, and high-risk construction areas)	2.1.1			
		2.1.2			
		2.1.3			
	2.2 Landscape Composition	2.2.1			
		2.2.2			
		2.2.3			
	2.3 Air Quality	2.3.1			
		2.3.2			
		2.3.3			
		2.3.4			

Factor	Sub-Factor	Criteria	Factor Weights	Sub-Factor Weights	Criteria Weights
3. CULTURAL ENVIRONMENTAL FACTORS	3.1 Cultural Heritage – Built Heritage and Cultural Landscapes	3.1.1			
		3.1.2			
		3.1.3			
	3.2 Heritage Bridges	3.2.1			
		3.2.2			
		3.2.3			
	3.3 Areas of Historic 19th Century Settlement	3.3.1			
		3.3.2			
		3.3.3			
		3.3.4			
3.4 Cultural Heritage Landscapes (includes of historical, archaeological, historic, and prehistoric archaeological sites)	3.4.1				
	3.4.2				
	3.4.3				
3.5 First Nations Burial Sites	3.5.1				
	3.5.2				
	3.5.3				
3.6 Consensus	3.6.1				
	3.6.2				
	3.6.3				
3.7 Cultural Heritage – Archaeology	3.7.1				
	3.7.2				
	3.7.3				

Factor	Sub-Factor	Criteria	Factor Weights	Sub-Factor Weights	Criteria Weights
4. AREA ECONOMY – Previously addressed during Needs Assessment Phase					

May 788 Transportation Corridor Planning and Class EA Study
Greater Stratford to the New Hamburg Area 2 of 4

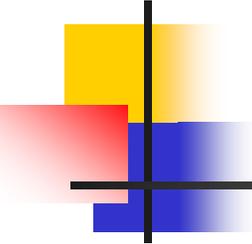
Weighting Sheets for Route Evaluation (see Instruction Sheet)

Factor	Sub-Factor	Criteria	Factor Weights	Sub-Factor Weights	Criteria Weights
2. LAND USE / SOCIO-ECONOMIC FACTORS	2.1 Land Use Planning Policies, Goals, Objectives	2.1.1			
		2.1.2			
		2.1.3			
		2.1.4			
	2.2 Land Use / Community	2.2.1			
		2.2.2			
		2.2.3			
		2.2.4			
	2.3 Noise Sensitive Areas (NSAs) (includes areas and transportation routes)	2.3.1			
		2.3.2			
		2.3.3			
		2.3.4			
	2.4 Agriculture	2.4.1			
		2.4.2			
2.4.3					
2.4.4					
2.5 Land Use / Resources	2.5.1				
	2.5.2				
	2.5.3				
	2.5.4				

Factor	Sub-Factor	Criteria	Factor Weights	Sub-Factor Weights	Criteria Weights
5. TRANSPORTATION FACTORS	5.1 Area Transportation System Capacity and Efficiency	5.1.1			
		5.1.2			
		5.1.3			
	5.2 Area Transportation System Reliability / Redundancy	5.2.1			
		5.2.2			
		5.2.3			
	5.3 Safety	5.3.1			
		5.3.2			
		5.3.3			
	5.4 Mobility and Accessibility	5.4.1			
5.4.2					
5.4.3					
5.5 Network Compatibility	5.5.1				
	5.5.2				
	5.5.3				
5.6 Engineering	5.6.1				
	5.6.2				
5.7 Traffic Operations	5.7.1				
	5.7.2				

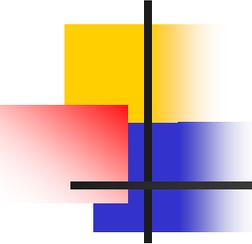
Thank you. Your input is appreciated.

An Evaluation Criteria and Indicators Reference Sheet is also available. It provides more detail about what each criterion considers.



Next Steps

- Respond to comments received through PIC #3B consultation process
- Finalize widening / new route alternatives for Shakespeare area
- Assess and evaluate widening / new route alternatives for entire study area
- Select Recommended Route for entire study area
- PIC #4 – Late Fall 2010
 - Present recommended route for entire study area



Questions / Comments ?

Thank you for your attention.
Please direct your questions and
comments to the Study Team
members at the display boards.