PORT MOODY CITY OF THE ARTS

Cumulative Development Traffic Model for MTP Update

Date:	October 27, 2021		
Department, GM:	Engineering and Operations, Jeff Moi		
Project Manager:	Geoffrey Keyworth		
Staff Lead:	Geoffrey Keyworth		
Project Origin:	\boxtimes Council Motion #RC21/278 \Box Staff Initiated \Box Other:		
Priority Area:	 □ Exceptional Service □ Environmental Leadership □ Healthy City □ Economic Prosperity □ Community Evolution 		
Strategic Alignment	Objective & Action 5.1: Ensure future community growth is carefully considered and strategically managed consistent with the targets approved in our Official Community Plan.		
Proposed Priority	☑ Priority Level 1 □ Priority Level 2 □ Priority Level 3		

Project Description

Create a computer model to better understand the effects on Port Moody traffic of potential land developments within the City. The model will consider various growth scenarios, and enable creation of metrics / targets for key roadways crossing the City Centre.

Relevant Background

On May 4, 2021, Council passed multiple motions regarding growth principles, including the following motion:

<u>RC21/278</u>

Development decisions will minimize big traffic impacts. Direct staff to develop a model and assumptions for projection of cumulative traffic impacts under various growth scenarios. Also, recommend maximum cumulative traffic congestion/average trip time targets during peak am and pm rush hour periods on key roadways crossing our city centre.

Staff recommended in an August 5, 2021 report that the ongoing update to the Port Moody Master Transportation Plan (MTP) could be expanded to include this project, noting further:

An update to the Port Moody Master Transportation Plan (MTP) is under way; development of a model for projecting cumulative traffic impacts can be added for a budget of up to \$75,000 with no impact on the project timeline.

Development of such a model may have technical and practical limitations and may not be

fully in alignment with current or future MTP directions; staff do not recommend changing the project scope at this time as the approved project scope includes a modelling and monitoring strategy, along with relevant specifications and guidelines; the current project will inform direction for further technical projects and relevant directions.

The above recommendation to not change the project scope was due to the MTP Update being in active procurement at the time of staff's recommendation. Staff have recently selected the consultant to undertake the MTP Update, and the project kick-off meeting will be scheduled as soon as possible.

Project Objectives

- To enable a better understanding of the implications of potential land use development, and transportation policies, programs, and infrastructure, on traffic within Port Moody.

Scope	
In Scope	 Expand MTP Update project scope to incorporate model development Research into transportation model development, with a focus on macroscopic and mesoscopic levels of detail Review of TransLink Regional Transportation Model and extraction of meaningful parameters Purchase of software required to operate and update the model for new approved developments Recommendation on the staff time required for training and model maintenance to update and evaluate future development scenarios Obtaining background data as required, including development traffic estimates, traffic operation assumptions, trip distributions, etc. Coding of model, potentially including macro development, road geometries, input of traffic signal timing plans Coding into model of three growth scenarios Evaluation of model findings on implications for strategic directions in overall MTP Update Incorporation of model findings into overall MTP Update reporting
Out of Scope	 Public engagement beyond what is already incorporated in MTP Update scope Development of a microscopic traffic simulation model Assessment of strategic policies, programs, or infrastructure implemented outside the City of Port Moody, such as regional travel pricing or high-speed rail

Work Plan Overview				
Project start date: 2021 Q4	Project end date: 2023 Q2			
Kick-off meeting with selected consultant for the MTP Update will initiate the process of refining this project description to ensure successful delivery without delaying the overall MTP Update.	2021 Q4			
Development of model	2021 Q4 – 2022 Q2			
Testing of various model scenarios consistent with draft OCP for implications on MTP Update strategic actions	2022 Q2 – 2022 Q4			
Incorporation of model findings with overall MTP Update final reporting.	2023 Q2			

Budget				
Budget Source: TBD				
Expansion of MTP Update consultant scope to undertake model development	\$50,000			
Purchase of model software	\$10,000			
30% contingency allowance	\$15,000			
Ongoing modelling (optional)	Staffing levels to be determined			
☑ Request Referral to Finance Committee	\$75,000			

Decision Notes				
Date	Meeting	Decision		