



Office of  
**Transportation  
Infrastructure  
& Sustainability**

**MEMORANDUM**

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**Date:** February 4, 2022

**To:** Michael Carroll, Deputy Managing Director  
Kelley Yemen, Director, Office of Complete Streets

**From:** Lily Reynolds, Deputy Director, Office of Complete Streets

**Re: Traffic Counts Washington Avenue**

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In December 2021, the City requested consultant team WSP to review available data on traffic patterns from 2021, and compare the data to traffic counts from April 2019. The purpose of reviewing updated traffic data was to understand if current conditions had changed and should be accounted for in the roadway layout models and traffic studies being considered for Washington Avenue. Especially considering potential changes to travel patterns due to the COVID-19 pandemic, the City wanted to understand if the models should be adjusted to reflect new traffic volumes.

WSP responded with the following information regarding updated traffic counts from Delaware Valley Regional Planning Commission (DVRPC). Note, because the counts being compared are from two different months in the year, December 2021 compared to April 2019, WSP implemented a seasonal adjustment factor as standard practice:

*Washington Avenue between 6<sup>th</sup> and 7<sup>th</sup> Streets*

Year	AM peak (morning rush hour)	PM peak (afternoon rush hour)
2021*	1,386	1,472
2019*	1,367	1,472

*Washington Avenue between 23<sup>rd</sup> and 24<sup>th</sup> Streets*

Year	AM peak (morning rush hour)	PM peak (afternoon rush hour)
2021*	1,323	1,448
2019*	1,242	1,404

\*seasonally adjusted

In sum, there were no significant differences found between the traffic counts from 2019 compared to the traffic counts from 2021. This test is one way that the City determined that the data that was used to generate the traffic model in 2019 and 2020 was still valid.

Full text from the information provided by WSP is below:

- *An ADT count was conducted between 6<sup>th</sup> and 7<sup>th</sup> Streets on December 1, 2021. The measured ADT was 18,979. The seasonally adjusted ADT was 19,978. The AM volume was 1,320 (seasonally adjusted 1,386). The PM volume was 1,402 (seasonally adjusted 1,472).*
  - *In April 2019 counts, WSP measured an AM volume of 1,603 (seasonally adjusted 1,367) and a PM volume of 1,726 (seasonally adjusted 1,472).*
- *An ADT count was conducted between 23<sup>rd</sup> and 24<sup>th</sup> Streets on December 1, 2021. The measured ADT was 17,916. The seasonally adjusted ADT was 18,859. The AM volume was 1,260 (seasonally adjusted 1,323). The PM volume was 1,379 (seasonally adjusted 1,448).*
  - *In April 2019 counts, WSP measured an AM volume of 1,457 (seasonally adjusted 1,242) and a PM volume of 1,646 (seasonally adjusted 1,404).*
- *Normalizing the volumes between the blocks where we conducted ADTs in February 2020, and applying seasonality factors (NOTE: WSP applied a ratio to a ratio to obtain these values, and therefore recognize that there is some standard error involved):*
  - *Westside (2020): 18,379 veh/day, (2021): 18,859 veh/day.*
  - *Eastside (2020): 17,665 veh/day (2021): 19,978 veh/day*