

# Potential Measures To Minimize Air Quality Effects

- Splitting the Thrust of Air Coming out of the Exit Portal
  - Adding openings to the tunnel ceiling area of the exit portal to divert a portion of the air coming out of the portal (e.g. 90% out of the tunnel and 10% out of the openings). This solution can reduce the concentration of pollutants at the portals by distributing emissions better.
- Wall Treatments
  - Treatment to remove NO<sub>x</sub>, which is a precursor to ozone and secondary particulate matter formation in the atmosphere.
  - Treatment can be applied to retaining walls and safety walls in portal areas.
- Longitudinal Ventilation System
  - Allows for dilution and dispersion of pollutants.
- Dust Control
  - Scheduled washing of the tunnel interior to remove dust, reducing dust resuspension by traffic.

**Note: Additional options will be investigated during Final Design**



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