



### ***Haul Road Characterization***

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The Department's Air Pollution Control Program requires haul road emissions to be modeled as a series of area sources whose dimensions are based upon the procedures outlined in the March 2, 2012 Environmental Protection Agency report entitled "Haul Road Workgroup Final Report Submission to EPA-OAQPS."

The calculation of the top of the plume height should be based upon the average truck height. If the average height is three meters, the top of the plume height should be calculated as follows:

$$\text{Top of plume height} = 1.7 * \text{Vehicle Height} = 1.7 * 3 = 5.1 \text{ meters}$$

The top of the plume height is used to determine the release height of the haul road emissions and the initial vertical dispersion due to the movement of the plume upon release.

$$\text{Release height} = 0.5 * \text{Top of the plume} = 0.5 * 5.1 = 2.55 \text{ meters}$$

$$\text{Initial vertical dimension} = \text{Top of plume} / 2.15 = 5.1 / 2.15 = 2.37 \text{ meters}$$

The x- and y-dimensions of the haul road should be based upon the length and width of each haul road segment. It should be noted that the haul road width should be limited to the width of the driving lane. If the haul road is capable of handling two-way traffic, the width should reflect the distance covered by both driving lanes.