

<b>Table 5.3.1-9</b>					
<b>Summary of Construction Air Quality Impacts</b>					
Pollutant	Averaging Period	Maximum Modeled Concentration a/ (ug/m <sup>3</sup> )	Background Ambient Concentration b/ (ug/m <sup>3</sup> )	Total Concentration c/ (ug/m <sup>3</sup> )	NAAQS d/ (ug/m <sup>3</sup> )
CO	1-Hour	32,636	3,261	35,897	40,000
	8-Hour	5,842	1,863	7,705	10,000
SO <sub>2</sub>	3-Hour	976.2	160	1,136.2	1,300
	24-Hour	7.12	59	66.1	365
	Annual	0.02	13	13.0	80
PM <sub>2.5</sub>	24-Hour	9.0	24.13	33.1	35
	Annual	0.03	9.11	9.1	15
PM <sub>10</sub>	24-Hour	14.2	54	68.2	150
NO <sub>2</sub>	Annual	0.8	9.6	10.4	100

a/ Maximum modeled concentration determined by the PCD model for each pollutant and averaging period.  
b/ Background ambient concentration from representative monitoring stations located in Massachusetts and Rhode Island.  
c/ Total concentration = maximum modeled concentration + background ambient concentration.  
d/ NAAQS – National Ambient Air Quality Standard.

<b>Table 5.3.1-10</b>		
<b>Predicted Suspended Sediment Concentrations</b>		
Representative Route	10 mg/L Remains	100 mg/L Remains
Southwest of ESP	Generally less than 3 hours, but up to 12 hours in central east-west portion; 18 hours in one location	Generally less than 2 hours, but up to 6 hours in small part of central east-west portion
Southeast of ESP	Generally less than 3 hours, but portions up to 6 hours during slack water conditions; 9 and 12 hours at southeast end	Generally 2 to 3 hours, but exceeding 6 hours at southeasterly end
East of ESP	Generally less than 3 hours, but up to 12 hrs in east-west portions	Generally less than 2 hours, but over 6 hours in some locations
Northwest of ESP	Generally less than 3 hours, but up to 9 hrs in east-west portions	Generally 2 to 3 hours, but exceeding 6 hours in one location