

TABLE E-1
Summary of Perimeter Air Monitoring Results and Risk Evaluation

Chemical	Concentration Units	Average Upwind Concentration	Average Downwind Concentration	Downwind Minus Upwind Concentrations ¹	Inhalation Unit Risk (IUR) (µg/m ³) ⁻¹	Theoretical Inhalation Cancer Risk ²
Hexachlorobenzene	µg/m ³	2.7E-03	1.2E-02	9.0E-03	4.60E-04	5.E-09
Arsenic	µg/m ³	1.3E-03	9.8E-04	0	NA	NA
Manganese	µg/m ³	1.7E+00	5.4E-01	0	NA	NA
Dioxins/Furans	µg/m ³	9.1E-06	1.6E-04	1.5E-04	3.80E+01	6.E-06
Asbestos	fibers/cc	2.5E-03	2.5E-03	0	NA	NA

Notes:

1: The difference between average downwind and upwind sample concentrations is shown as 0 if downwind is less than upwind.

2: Calculation assumes 10 hours per day exposure time and a 2 months exposure duration.

NA = not applicable

µg/m³ = micrograms per cubic meter

fibers/cc = asbestos fibers per cubic centimeter

Theoretical Excess Cancer Risk = (C_{air} x IUR x ET x ED)/(24 hours x 70 years)

C_{air} = Downwind air concentration (µg/m³)

IUR = Inhalation Unit Risk ((µg/m³)⁻¹)

ET = Exposure time (hours)

ED = Exposure duration (years)

Reference for Inhalation Risk Estimation: Part F, Supplemental Guidance for Inhalation Risk Assessment (U.S. EPA, 2009)