Figure: 30 TAC §350.76(c)(4)

Equation for Adult Lead Exposure Commercial/Industrial Land Use (Tiers 2 & 3 only)
$^{Soil}\text{Soil}_{Ing} = {}^{Soil}\text{RBEL}_{Ing}$
$$^{Soil}RBEL_{Ing}\left(\mu g\,/\,g\right) = \frac{\left(PbB_{95}\,fetal\,/\left(R\times\left(GSD_i\right)^{1.645}\right)\right) - PbB0}{BKSF\times\left(\left(IR_{sf}\times AF_s\times EF_{s/365}\right)+\left(K_{sd}\times IR_d\times AF_d\times EF_d\,/\,365\right)\right)}$$

Parameter	Definition (units)	Defaults
PbB$_{95}$ fetal	95th Percentile PbB in Fetus (μg/dL)	10
R	Mean Ratio of Fetal to Maternal PbB	0.9
GSD$_i$	Individual Geometric Standard Deviation	1.91
PbB0	Baseline Blood Lead Value (μg/dL)	1.64
BKSF	Biokinetic Slope Factor (μg/dL per μg/day)	0.4
IR$_s$	Soil Ingestion Rate (g/day)	0.025
IR$_d$	Dust Ingestion Rate (g/day)	0.025
K$_{sd}$	Ratio of Concentration in Dust to that in Soil	***
EF$_s$	Soil Exposure Frequency (days/yr)	250
EF$_d$	Dust Exposure Frequency (days/yr)	250
AF$_s$	Absolute Absorption Fraction of Lead in Soil	0.10
AF$_d$	Absolute Absorption Fraction of Lead in Dust	0.10

***Based on direct measurement data on the concentrations of lead in both soil and dust at the affected property.