APPENDIX A Table 7					
DEFAULT VALUES FOR CALCULATING MEDIUM-SPECIFIC CONCENTRATIONS FOR LEAD					
[Input Values Used in UBK Model for Lead]					
[(for residential exposure scenario)]					
[Geometric Standard Deviation]	[1.42]	[Drinking water	[Model default]		
[(GSD)]	[(default)]	intake]			
[Outdoor air lead concentration]	[0.2 µg/m <sup>3</sup> ]				
	[(default)]	[Soil lead level]	[495 μg/g]		
[Indoor air lead concentration]	[30]	[Indoor dust lead	[495 μg/g]		
[(% of outdoor)]		level]			
[Time spent outdoors]	[Model default]	[Soil/dust ingestion	[45]		
		weighting factor]			
		[(%)]			
[Ventilation rate]	[Model default]	[Paint lead intake]	[Model default]		
[Lung absorption]	[Model default]	[Maternal	[Infant model]		
		contribution			
		method]			
[Dietary lead intake]	[Model default]	[Mother's blood	[7.5 µg/dL blood]		
		lead at birth]	[(model default)]		
[GI method/bioavailability]	[Non-linear]	[Target blood lead	[10 µg/dL blood]		
		level]	-		
[Lead concentration in drinking	[4.00 µg/L]				
water]	[(default)]				

[Input Values Used in SEGH Equation] [(for nonresidential exposure scenario)]				
[Concentration of lead in soil (S)]	[987 μg/g]			
[Target blood lead level in adults (T)]	[20 µg/dL blood]			
[Geometric standard deviation of blood lead distribution (G)]	[1.4]			
[Baseline blood lead level in target population (B)]	[4 µg/dL blood]			
[Number of standard deviations corresponding to degree of protection required for the target population (n)]	[1.645 (for 95% of population)]			
[Slope of blood lead to soil lead relationship $(\delta)$ ]	[7.5 µg/dL blood per µg/g soil]			

## [REFERENCE]

[WIXSON, B.G. (1991). The Society for Environmental Geochemistry and Health (SEGH) Task Force Approach to the Assessment of Lead in Soil. <u>Trace Substances in</u> Environmental Health . 11-20.]

Input Values Used in IEUBK Model for Lead				
(for residential exposur	e scenario)			
Parameter	Value			
Outdoor Air Pb Concentration (µg/m <sup>3</sup> )	Constant Value: 0.1			
Dietary Lead Intake (µg/day)	Age (Years)	<u>Input</u>		
	<u>0-1</u>	<u>2.26</u>		
	<u>1-2</u>	<u>1.96</u>		
	2-3	<u>2.13</u>		
	3-4	<u>2.04</u>		
	<u>4-5</u>	<u>1.95</u>		
	<u>5-6</u>	<u>2.05</u>		
	<u>6-7</u>	2.22		
Water Consumption (L/day)	Age (Years)	Input		
	<u>0-1</u>	<u>0.2</u>		
	<u>1-2</u>	<u>0.5</u>		
	2-3	<u>0.52</u>		
	<u>3-4</u>	<u>0.53</u>		
	<u>4-5</u>	<u>0.55</u>		
	<u>5-6</u>	<u>0.58</u>		
	<u>6-7</u>	<u>0.59</u>		
Use Alternate Water Value?	NO			
Lead concentration in drinking water (µg/L)	4			
MEDIA	ABSORPTION FRACTION			
	PERCENT			
Soil	<u>30</u>			
Dust	<u>30</u>			
Water	<u>50</u>			
Diet	<u>50</u>			
Alternate	<u>0</u>			
Calculate PRG				
Select Age Group for Graph	0 to 84 months			
Change Cutoff	TBD			
Change GSD	<u>1.6</u>			
<b>Probability of Exceeding the Cutoff</b>	<u>5</u>			

Input Values Used in the Adult Lead Model (ALM)				
(for non-residential exposure scenario)				
<b>Variable</b>	e Description of Variable Units		Value	
PbBfetal, 0.95	<b>Target PbB in fetus</b>	<u>μg/dL</u>	<u>TBD</u>	
Rfetal/maternal	Fetal/maternal PbB ratio	-	<u>0.9</u>	
BKSF	<b>Biokinetic Slope Factor</b>	µg/dL per µg/day	<u>0.4</u>	
<u>GSD</u> <sub>i</sub>	Geometric standard deviation PbB		<u>1.8</u>	
<u>PbB0</u>	Baseline PbB	μg/dL	<u>0.6</u>	

<u>IRs</u>	Soil ingestion rate	<u>g/day</u>	<u>0.050</u>
<u>AFs, d</u>	Absorption fraction	<u></u>	<u>0.12</u>
<u>EFs, d</u>	<b>Exposure frequency</b>	days/yr	<u>219</u>
ATs, D	Averaging time	days/yr	365