

INSTRUCTIONS FOR TABLE 1

SELECTION OF EXPOSURE PATHWAYS

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| <p>PURPOSE OF THE TABLE:</p> <ul style="list-style-type: none"> • To assist in project planning • To accompany the site conceptual model • To present possible receptors, exposure routes, and exposure pathways • To present the rationale for selection or exclusion of each exposure pathway • To communicate risk information to interested parties outside EPA. | |
| <p>INFORMATION DOCUMENTED:</p> <ul style="list-style-type: none"> • Exposure pathways that were examined and excluded from analysis • Exposure pathways that will be qualitatively and quantitatively evaluated in the risk assessment. | |
| <p>TABLE NUMBERING INSTRUCTIONS</p> <ul style="list-style-type: none"> • Complete one copy of this table only. • Number it Table 1. • The table should contain a row for each Exposure Pathway considered. | <p><i>An Exposure Pathway is defined as each unique combination of Scenario Timeframe, Medium, Exposure Medium, Exposure Point, Receptor Population, Receptor Age, and Exposure Route.</i></p> |
| <p>HOW TO COMPLETE/INTERPRET THE TABLE</p> | |
| <p>Column 1 - Scenario Timeframe</p> | |
| <p>Definition:</p> <ul style="list-style-type: none"> • The time period (current and/or future) being considered for the exposure pathway. | |
| <p>Instructions:</p> <ul style="list-style-type: none"> • Choose from the picklist to the right. | <p><i>Current Future Current/Future Not Documented</i></p> |

INSTRUCTIONS FOR TABLE 1

SELECTION OF EXPOSURE PATHWAYS (continued)

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| Column 2 - Medium | |
| <p>Definition:</p> <ul style="list-style-type: none"> The environmental substance (e.g., air, water, soil) originally contaminated. | |
| <p>Instructions:</p> <ul style="list-style-type: none"> Choose from the picklist to the right. | <p><i>Groundwater</i> <i>Leachate</i> <i>Sediment</i> <i>Sludge</i> <i>Soil</i> <i>Surface Water</i> <i>Debris</i> <i>Liquid Waste</i> <i>Solid Waste</i> <i>Air</i> <i>Surface Soil</i> <i>Subsurface Soil</i> <i>Other</i></p> |
| Column 3 - Exposure Medium | |
| <p>Definition:</p> <ul style="list-style-type: none"> The contaminated environmental medium to which an individual is exposed. Includes the transfer of contaminants from one medium to another. <p><i>For example:</i></p> <ol style="list-style-type: none"> <i>Contaminants in Groundwater (the Medium) remain in Groundwater (the Exposure Medium) and are available for exposure to receptors.</i> <i>Contaminants in Groundwater (the Medium) may be transferred to Air (the Exposure Medium) and are available for exposure to receptors.</i> <i>Contaminants in Sediment (the Medium) may be transferred to Animal Tissue (the Exposure Medium) and are available for exposure to receptors.</i> | |

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| <p>Instructions:</p> <ul style="list-style-type: none"> Choose from the picklist to the right. | <p><i>Groundwater Leachate Sediment Sludge Soil Surface Water Debris Liquid Waste Solid Waste Air Plant Tissue Animal Tissue Spring Water Surface Soil Subsurface Soil Particulates Vapors Other</i></p> |
| <p>Column 4 - Exposure Point</p> | |
| <p>Definition:</p> <ul style="list-style-type: none"> An exact location of potential contact between a person and a chemical within an exposure medium. <p><i>For example:</i></p> <p>1) <i>Contaminants are in Groundwater (the Medium and the Exposure Medium) and exposure to Aquifer 1 - Tap Water (the Exposure Point) is evaluated.</i></p> <p>2) <i>Contaminants in Groundwater (the Medium) may be transferred to Air (the Exposure Medium) and exposure to Aquifer 1 - Water Vapors at Showerhead (the Exposure Point) is evaluated.</i></p> <p>3) <i>Contaminants in Sediment (the Medium) may be transferred to Animal Tissue (the Exposure Medium) and Trout from Dean's Creek (the Exposure Point) is evaluated.</i></p> | |
| <p>Instructions:</p> <ul style="list-style-type: none"> Describe the exposure point as text in the Table (not to exceed 80 characters). | <p><i>The text in the Table can not exceed 80 characters.</i></p> |
| <p>Column 5 - Receptor Population</p> | |
| <p>Definition:</p> <ul style="list-style-type: none"> The exposed individual relative to the exposure pathway considered. | <p><i>For example, a resident (receptor population) who drinks contaminated groundwater.</i></p> |

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SELECTION OF EXPOSURE PATHWAYS (continued)

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| <p>Instructions:</p> <ul style="list-style-type: none">• Choose from the picklist to the right. | <p><i>Resident</i> <i>Industrial Worker</i> <i>Commercial Worker</i> <i>Construction Worker</i> <i>Other Worker</i> <i>Golfer</i> <i>Jogger</i> <i>Fisher</i> <i>Hunter</i> <i>Fisher/Hunter</i> <i>Swimmer</i> <i>Other Recreational Person</i> <i>Child at School/Daycare/ Playground</i> <i>Trespasser/Visitor</i> <i>Farmer</i> <i>Gardener</i> <i>Other</i></p> |
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INSTRUCTIONS FOR TABLE 1

SELECTION OF EXPOSURE PATHWAYS (continued)

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| Column 6 - Receptor Age | |
| <p>Definition:</p> <ul style="list-style-type: none"> The description of the exposed individual as defined by the EPA Region or dictated by the site. | <p><i>For example, an adult (receptor age) resident (receptor population) who drinks contaminated groundwater.</i></p> |
| <p>Instructions:</p> <ul style="list-style-type: none"> Choose from the picklist to the right. | <p><i>Child Adult Adolescents (teens) Pre-Adolescents Not Documented Child/Adult Geriatric Sensitive Other Infant Toddler Pregnant</i></p> |
| Column 7 - Exposure Route | |
| <p>Definition:</p> <ul style="list-style-type: none"> The way a chemical comes in contact with a person (e.g., by ingestion, inhalation, dermal contact). | |
| <p>Instructions:</p> <ul style="list-style-type: none"> Choose from the picklist to the right. | <p><i>Inhalation Ingestion Combined (Inhalation and Ingestion) Dermal Absorption Not Documented External (Radiation)</i></p> |
| Column 8 - On-Site/Off-Site | |
| <p>Definition:</p> <ul style="list-style-type: none"> The location of potential contact between a person and a chemical (contaminant) as it relates to the site boundary. | |
| <p>Instructions:</p> <ul style="list-style-type: none"> Choose from the picklist to the right. | <p><i>On-site Off-site On-site/Off-site Not Documented</i></p> |

INSTRUCTIONS FOR TABLE 1

SELECTION OF EXPOSURE PATHWAYS (continued)

| Column 9 - Type of Analysis | |
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| <p>Definition:</p> <ul style="list-style-type: none"> The level of evaluation (quantitative or qualitative) to be performed for the exposure pathway based on site-specific analysis. | |
| <p>Instructions:</p> <ul style="list-style-type: none"> Choose from the picklist to the right. | <p><i>Quant (Quantitative)</i> <i>Qual (Qualitative)</i> <i>None</i></p> |
| Column 10 - Rationale for Selection or Exclusion of Exposure Pathway | |
| <p>Definition:</p> <ul style="list-style-type: none"> The reason the exposure pathway was selected or not selected for quantitative or qualitative analysis. | |
| <p>Instructions:</p> <ul style="list-style-type: none"> Document the reason for selecting or excluding a pathway for analysis. Provide a narrative rationale for each exposure route. | <p><i>Follow Regional guidance for the rationale codes. The narrative in the Table cannot exceed 200 characters.</i></p> |